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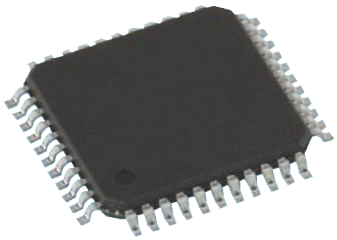
See page 93

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See page 242

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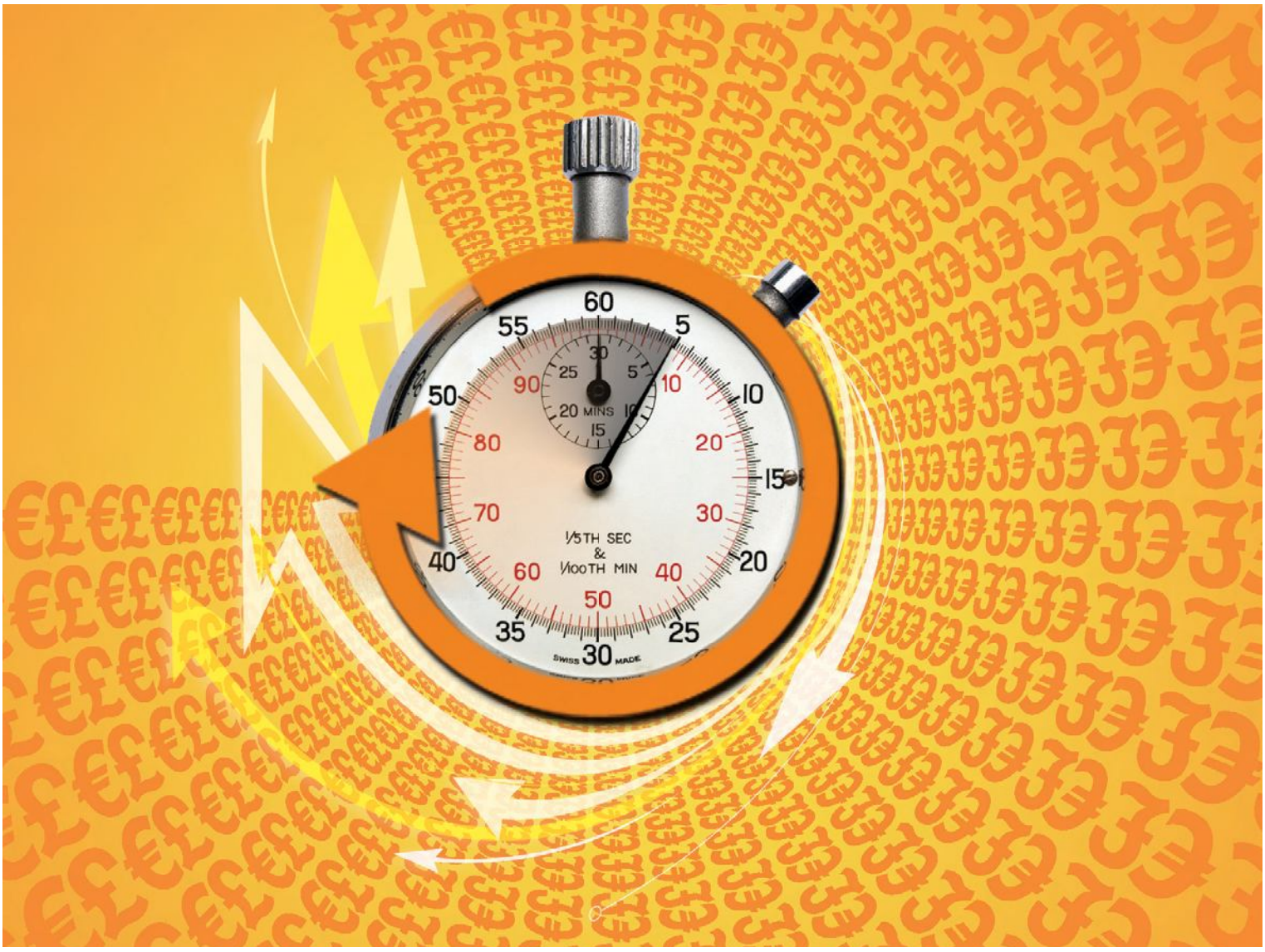
See page 147

CC2520 RF Development Platform



See page 374

	Page
A/D & D/A Converters	279
Amplifiers	304
Analogue Multiplexers, Multipliers & Switches	339
ARM™-based Controllers & Support Tools	232
Bus Isolators, Switches & Transceivers	345
Clock Conditioning, Counters & Dividers	349
Communications - Wireless & Wireline	349
Comparators	261
Crystals, Oscillators, Filters & Resonators	261
Digital Potentiometers	432
Digital Signal Processing	245
Drivers - HID, Laser, LCD & LED	438
F/V & V/F Converters	437
Filters	438
Hall Effect Devices	439
Interface	445
Logic - 74/4000/ECL Series	58
Memory - SRAM, NVRAM, PROM, & FLASH	104
Microcontrollers & Microprocessors - 8-Bit	131
Microcontrollers & Microprocessors - 16/32-Bit	205
Microprocessor Support ICs	252
Motion & Motor Control ICs	457
Power Supply ICs	469
Programmers & Erasers, Emulators, Testers & Analysers	123
Programmable Logic & Gate Arrays	87
Sensors - Capacitive, Touch & Pressure	511
Special Function ICs & Support Tools	516
Temperature Controllers & Transducers	521
Timers	527
Transistor Arrays	528
Video & Audio ICs	529
Voltage References & Regulators	537
Semiconductors Linecard	783



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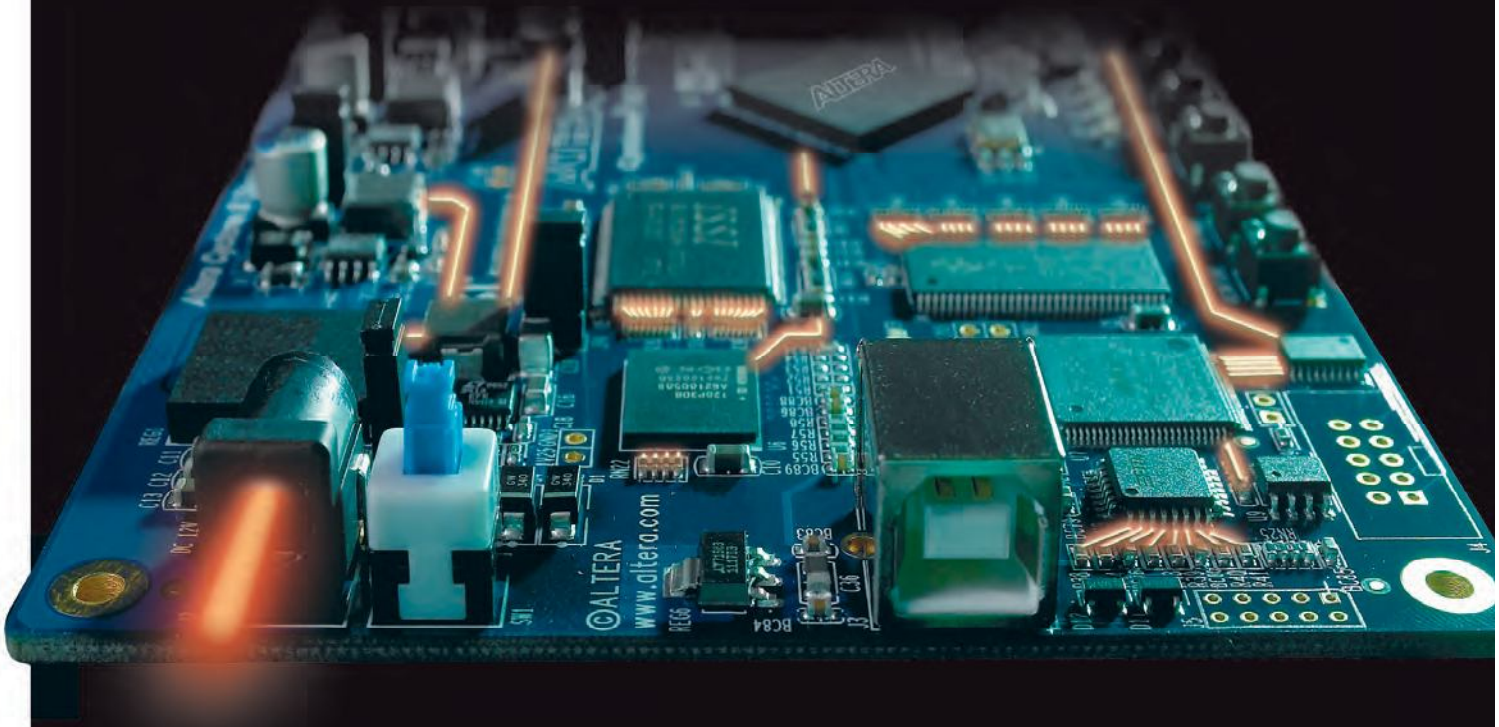
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Index by Type for Semiconductor ICs

Mftrs. List No.	Page
0 MR0A16AYS35	108
0 MR0A16AVYS35	108
0 MR0A16ACYS35	108
0 MR2A16AVYS35	108
0002 LMH0002TMA	445
0002 LMH0002MA	445
001 CLC001AJE.	345
01 SA01	324
01 REF01CSA+	541
01 TMP01FSZ	521
01 PA01	324
01 TMP01FPZ	521
01 NAND01GW3B2BN6E	122
01 REF01CPZ	541
01 REF01CSZ	541
01 REF01HPZ	541
0102 SP0102BE3	529
0102 SPM0102ND3	530
0107 TPIC0107BDWPR	457
0108 NA0108B	389
02 PA02A	324
02 NAND02GW3B2CN6E	122
02 AMP02FPZ	570
02 REF02CSA+	540
02 REF02APG4	540
02 AMP02EPZ	335
02 AMP02FPZ	335
02 74HCT1G02GW	61
02 REF02CPZ	540
02 REF02HPZ	540
02 REF02CSZ	540
02 PA02	324
0204 SPM0204UD5	530
0265 FSDH0265RN	470
0265 FSDM0265RNB	470
0286 MSA-0286-BLKG	354
03 REF03GSZ	538
03 AMP03GPZ	333
03000 PTH03000WAZ	507
03010 PTH03010WAD	507
0302 TPPM0302DGN	557
03050 PTH03050WAZ	507
03050 PTH03050WAD	507
03050 PTH03050WAH.	507
03060 PTH03060WAH	507
03060 PTH03060WAH.	507
03060 PTH03060WAZ	507
03060 PTH03060WAD	507
031 TL031CD	324
032 TL032CP	326
032 TL032ID	326
032 TL032CD	326
034 TL034CD	327
034 TL034CN	327
034 TL034IDG4	327
0365 FSDM0365RNB	470
0365 FSQ0365RN	470
0365 FSDL0365RNB	470
0365 FSQ0365RL	470
04 CMP04FSZ	430
04 AMP04FPZ	570
04 PA04	324
04 74HCT1G04GW	61
04 TLC04CDG4	438
04 AMP04FPZ	335
04 XCF04SVOG20C	97
040 ZRT040GC1TA	539
0486 MSA-0486-BLKG	354
05 XCS05XL-4VQG100C	99
05 TMP05ARTZ	521
05 TMP05BRTZ	521
05000 PTH05000WAD	507
05000 PTH05000WAH	507
05000 PTH05000WAZ	507
0501 NLSG0501A	389
05010 PTH05010WAD	507
05010 PTH05010WAZ	507
05020 PTH05020WAD	507
05030 PTH05030WAS	507
05050 PTH05050WAD	507
05050 PTH05050WAH	507
05050 PTH05050WAZ	507
05060 PTH05060WAD	507
05060 PTH05060WAZ	507
051 TL051CP.	324
051 TL051CP	324
051 TL051CD	324
052 TL052CP	573
052 TL052CP	326
052 TL052ID	326
052 TL052CDG4	326
054 TL054CD	327
054 TL054AIDE4	327
054 TL054CN	327
0550 FCBS0550	506
0565 FSDM0565RBIWDTU	503
06 CCZACC06A1RTC	353
06 IRAMS06UP60B	506
06 IRAMS06UP60B-2	459
06 IRAMS06UP60A-2	459
061 TL061CN	324
061 TL061CP..	324
061 TL061CN.	324
061 TL061CP	324
061 TL061ACD	324
061 TL061CD	324
061 TL061ID	324
062 TL062CD	326
062 TL062CPSR	326
062 TL062CN	326
062 TL062CP	326
062 TL062CPW	326
062 TL062ID	326
062 TL062ACD	326
064 TL064CN	327
064 TL064CD	327
064 TL064ING4	327
064 TL064CN	327
064 TL064ID	327
064 TL064CPW	327
064 TL064ACD	327
0650 FCBS0650	506
0686 MSA-0686-BLKG	354
071 TL071CP	324
071 TL071ID	324
071 TL071CD	324
071 TL071CN	324
072 TL072ACP	326
072 TL072CD	326
072 TL072CP	326
072 TLC072CDG4	312
072 TLC072IDG4	312
072 TL072CN	326
072 TL072BCD	326
072 TL072ACD	326
072 TL072ID	326
074 TL074CNE4	327
074 TL074ACN.	327
074 TL074CD	327
074 TL074ACD	327
074 TL074ID	327
074 TL074ACN	327
074 TL074CN	327
074 TL074ING4	327
0765 FSCQ0765RTYDTU	503
0786 MSA-0786-BLKG	354
08 PA08	324
08 DAC08HPZ	291
08 DAC08CPZ	291
08 74HCT1G08GW	61
08 IC-WKL SO8	439
08 DAC08CSZ	291
08 ADC08D500CIYB	279
0800 DAC0800LCN	291
0808 DAC0808LCN	291
081 ADC081S051CIMF	279
081 TL081CP	324
081 TL081IPG4	325
081 DAC081S101CIMM	291
081 ADC081S021CIMF	279
081 TL081CN	324
081 TL081ACPG4	324
081 TL081CD	324
082 TL082ACP	326
082 ADC082S051CIMM	280
082 TL082IPG4	326
082 TL082CD	326
082 TL082ACP..	326
082 TL082ID	326
082 ADC082S021CIMM	280
082 TL082CP	326
082 TL082BCD	326
082 TL082CPWE4	326
082 TL082CN	326
082 TL082ACDG4	326
082 TL082CPSR	326
082 TL082ACD	326
083 MPR083EJ	514
083 MPR083Q	514
0832 DAC0832LCV	291
0832 DAC0832LCN	291
084 TL084CD	327
084 TL084ACN	327
084 MPR084EJ	514
084 MPR084Q	514
084 TL084BCD	327
084 TL084ING4	327
084 TL084CN	327
084 TL084ACD	327
084 TL084BCNG4	327
084 TL084CPW	327
084 ADC084S051CIMM	280
084 TL084CNSR	327
084 TL084ID	327
084 TL084CN	327
084 ADC084S101CIMM	280
088 ADC088S022CIMT	280
088 ADC088S052CIMT	280
088 ADC088S102CIMT	280
0886 MSA-0886-BLKG	354
09 PA09	324
1 USB1T20MTCX	410
1 AMP01GSZ	335
1 VDIP1	414
1 E-AVS1ACP08	469
1 USB1T20MTC	410
1 USB1T11AM	410
1 EPCS1SI8N	95
1 VNC1L	414
1 EP1K10TC100-3N	89
1 USB1T11AMTC	410
1 LFEC1E-5TN144C	100
1 EP1K30QC208-3N	89
1 1B22AN	517
1 EP1K100QC208-3N	89
1 EP1AGX20CF484I6N	91
1 1B31AN	517
1 EP1AGX20CF484C6N	91
1 HI1-0201-5	343
1 LFEC1E-5QN208C	100
1 EP1K50TC144-1N	89
1 EP1AGX60EF1152C6N	91
1 EP1K10TC144-3N	89
1 HA1-5330-5	337
1 USB1T1105AMHX	410
1 EP1AGX20CF780C6N	91
1 EP1AGX35DF780C6N	91
1 EP1K100QC208-3N	574
1 EP1AGX50DF1152C6N	91
1 EP1AGX60DF780C6N	91
1 EP1K30TC144-3N	89
1 EP1K10QC208-2N	89
1 LFEC1E-5TN100C	100
1 1-103	180
1 EPC1LC20N	95
10 IRAMS10UP60A-2	506
10 MPX10DP	510
10 PIC10F220-I/P	187
10 DS10BR254TSQ	345
10 MF10CCN	438
10 PIC10F204T-I/OT	187
10 PIC10F200-I/P	187
10 ADC10DL065CIVS	281
10 PA10	324
10 LM10CLN/NOPB	304
10 LM10CN/NOPB	304
10 AVS10CBI	469
10 IRAMS10UP60A	506
10 LM10CLN	304
10 MF10CCN/NOPB	438
10 PIC10F202T-I/OT	187
10 IRAMS10UP60B.	506
10 LM10CN	304
10 DS10CP152TMA/NOPB.	345
10 MF10CCWM/NOPB	438
10 MC10E1651FNG	429
10 PIC10F200T-I/OT	187
10 MC10E1652FNG	429
10 IRAMS10UP60B-2	459
10 DS10CP154ATSQ	344
10 PIC10F222T-I/OT	187
10 PIC10F206T-I/OT	187
10 PIC10F220T-I/OT	187
10 PIC10F206-I/P	187
10 PIC10F202-I/P	187
10 PIC10F220T-I/MC	187
10 PIC10F202T-I/MC	187
10 MPX10GP	510
100 ZXSC100N8TA	469
100 MCP100T-315I/TT	259
100 MCP100-475DI/TO	259
100 TMP100NA/250G4	523
100 MCP100-450DI/TO	259
100 MCP100-450HI/TO	259
100 MCP100-475HI/TO	259
100 MCP100T-300I/TT	259
100 MCP100T-450I/TT	259
100 MCP100T-475I/TT	259
100 LMF100CCN	438
100 SY100ELT22ZG	87
100 ZXSC100N8TA.	469
100 SY100ELT22LZG	87
100 ZSD100N8.	518
100 SY100EL31ZG	87
100 SY100EL32VZG	87
100 SY100ELT23ZG	87
100 E100S KIT	511
100 SY100EL56VZG	87
100 SY100EL11VZG	87
100 SY100ELT23LZG	87
100 MCP100-300DI/TO	259
100 VIPER100A-E	469
100 VIPER100-E	469
100 MC100EP195MNG	87
100 SY100EL16VZG	87
100 MPY100AG	339
100 MCP100-315DI/TO	259
100 ATNGW100	421
100 QT100A-ISG	512
100 QT100A-ISMG	512
1000 ADS1000A1IDBVT	283
1000 ADS1000A0IDBVT	283
1000 SJA1000/N1,112	427
1000 SJA1000T/N1,118	427
1000 SJA1000T/N1,112	427
1000 DS1000Z-500	279
1000 LMK01000ISQE	349
1000 CC1000-RTB1	354
1000 CC1000PW	354
1001 STM1001TWX6F	260
1001 STM1001SWX6F	260
1001 LT1001CS8#PBF	307
1001 STM1001RWX6F	260
1002 TLK1002ARGET	410
1002 LT1002CN#PBF	313
1004 LT1004CS8-1.2#PBF	537
1004 ZXRE1004DFTA	537
1004 LT1004CZ25#PBF	538
1004 LT1004CD-2-5G4	538
1004 LT1004CS8-1.2	537
1004 ZXRE1004CFTA	537
1004 LT1004CS8-2.5#PBF	538
1004 REF1004I-1.2..	537
1004 LT1004CZ1.2#PBF	537
1004 LT1004ID-1-2G4	537
10040 ADC10040CIMT.	282
1006 LT1006S8#PBF	307
1006 LT1006CN8#PBF	307
10065 ADC10065CIMT.	282
1007 LT1007IS8#PBF	307
1007 LT1007CS8#PBF	307
1007 LT1007CN8#PBF	307
1008 LT1008S8#PBF	307
10080 ADC10080CIMT.	282
1009 LT1009S8#PBF	539
1009 LT1009CD	539
1009 LT1009IZ#PBF	539
1009 LT1009CZ#PBF	539
1009 LT1009ID	539
1009 ZXCT1009F	518
1009 LT1009CLPG4	539
1009 LT1009CZ	539
1009 LT1009IZ	539
1009 LT1009CMS8#PBF	539
1009 LT1009IS8#PBF	539
100E111 MC100E111FNG	87
100EL16 MC100EL16DG	86
100EL1648 MC100EL1648DG	87
100EL34 MC100EL34DG	86
100EL56 MC100EL56DWG	86
100EL58 MC100EL58DG	86
100ELT20 MC100ELT20DTG	86
100ELT21 MC100ELT21DG	86
100ELT22 MC100ELT22DG	86
100ELT23 MC100ELT23DG	86
100ELT24 MC100ELT24DG	86
100ELT25 MC100ELT25DG	86
100EP16 MC100EP16DG	86
100EPT20 MC100EPT20DTG	86
100EPT21 MC100EPT21DTG	86
100EPT22 MC100EPT22DTG	86
100EPT25 MC100EPT25DTG	86
100LVEL14 MC100LVEL14DWG	86
100LVEL16 MC100LVEL16DG	86
100LVEL32 MC100LVEL32DG	86
101 ADC101S021CISD	281
101 ADC101S051CISD	281
101 ADC101S101CISD	281
101 MCP101-450DI/TO	259
101 MCP101T-315I/TT	259
101 MCP101T-450I/TT	259
101 REG101NA-2.5.	553
101 ADC101S101CIMF	281
101 INA101AM	335
101 INA101AG	335
101 LOG101AIDE4	312
101 LM101AH	304
101 REG101UA-3	555
101 REG101NA-2.8/250	554
101 INA101KU	335
101 MCP101-300DI/TO	259
101 ADSP-TS101SAB1ZZ000	249
101 ADSP-TS101SAB2ZZ000	249
101 MCP101-475HI/TO	259
101 REG101NA-A/250	543
101 REG101NA-5/250G4	559
101 MCP101-475HI/TO.	259
101 MCP101T-475I/TT	259
101 MCP101-475DI/TO	259
101 DAC121S101CIMK	294
101 DAC101S101CIMM	293
101 DAC101S101CIMK	293
101 DRV101T	457
101 SCANSTA101SM/NOPB	354
101 TSIC101WST	523
101 TSIC101WEB	523
101 XTR101BG	523
101 ADC101C027CIMK/NOPB	281
101 ADM101EARMZ	447
101 REG101NA-2.5	553
101 ADC101C021CIMK/NOPB	281
101 MCP101T-475I/TT.	259
101 ADC101S021CIMF	281
101 XTR101AP.	332
101 ADC101S051CIMF	281
101 DAC101C081CIMK/NOPB	293
101 XTR101AG	335
1010 CC1010PAG	354
1010 CC1010-RTY1	354
1010 LT1010CN8#PBF	533
1010 ZXCT1010E5	518
1010 LT1010CDD#PBF	307
1010 LMK01010ISQE	349
1011 LT1011CS8#PBF	429
1011 LT1010CT#PBF	533
1011 NCP1011APL065R2G	500

Index by Type for Semiconductor ICs

	Mftrs. List No.	Page
1011	NCP1011APL130R2G	500
1011	ZXCT1011E5TA	261
1012	LT1012S8#PBF	307
1012	LMV1012UP-20	533
1012	NCP1012APL130R2G	500
1012	NCP1012APL100R2G	500
1012	LMV1012UP-25	533
1012	NCP1012APL065R2G	500
1012	LMV1032UP-15	533
1013	LT1013DS8#PBF	313
1013	LT1013DN8#PBF	313
1013	LT1013CN8#PBF	313
1013	TDA1013B/N2	533
1013	LT1013AMJGB	313
1013	LT1013AMJG	313
1013	LT1013DDG4	313
1013	LT1013CPG4	313
1014	LA-ISPPAC-POWR1014-01TN48E	103
1014	NCP1014AP100G	500
1014	ISPPAC-POWR1014-01TN148I	103
1014	LT1014CN#PBF	571
1014	ISPPAC-POWR1014A-01TN148I	103
1014	TC1014-5.0VCT713	569
1014	TC1014-3.3VCT713	569
1014	TC1014-3.0VCT713	569
1014	LA-ISPPAC-POWR1014A-01TN48E	103
1014	LT1014CNG4	320
1014	NCP1014AP065G	500
1014	NCP1014APL065R2G	471
1014	LT1014CN#PBF	320
1014	TC1014-2.5VCT713	553
1014	LT1014DN#PBF	320
1014	LT1014DSW#PBF	320
1014	LT1014DIDW..	320
1014	LT1014IN.#PBF	320
1014	NCP1014APL100R2G	500
1015	TC1015-3.3VCT713	569
1015	TC1015-5.0VCT713	569
1015	TC1015-3.0VCT713	555
1015	TC1015-1.8VCT713	551
1015	TC1015-2.8VCT713	554
10154	ADC10154CIWM/NOPB	282
10158	ADC10158CIN/NOPB	282
1016	ISPLSI1016E-125LJN	103
1016	LT1016CN8#PBF	429
1016	LT1016CS8#PBF	429
1016	TC1016/17EV	569
1017	LT1017IN8.#PBF	430
1017	TC1017-3.3VCTTR	569
1017	LT1017IS8#PBF	430
1017	LT1017CS8#PBF	430
1017	TC1017-3.3VLTTR	556
1017	TC1017-1.8VCTTR	569
1017	TC1017-3.0VCTTR	569
1019	LT1019CS8-2.5#PBF	539
1019	LT1019CS8-10#PBF	541
1019	LT1019ACS8-2.5#PBF	539
1019	LT1019CN8-5.0	540
1019	LT1019CS8-5#PBF	540
1019	LT1019CN8-5#PBF	540
1019	LT1019ACN85	540
1019	LT1019ACN85#PBF	540
1019	LT1019CN8-2.5#PBF	539
102	MCP102T-300E/TT	259
102	REG102GA-3.3G4	556
102	REF102AP	541
102	ADC102S101CIMM	281
102	DAC102S085CIMM	293
102	MCP102T-450E/TT	259
102	IVC102U	304
102	DRV102T	469
102	LOG102AID	318
102	DRV102FKTWT	469
1020	TAS1020BPFBG4	533
1020	BD1020HFV-TR	524
1020	TJA1020T/N1,112	427
1020	CC1020-RTB1	354
1020	LT1020CSW#PBF	471
1020	CC1020RSS	354
1020	LMK01020ISQE	349
1021	TPIC1021D	427
1021	DS1021S-50+	279
1021	TJA1021T/20,118	427
1021	TJA1021T/10,118	427
1021	ZXCT1021E5TA	261
1021	LT1021DCN8-5#PBF	540
1021	LT1021DCS8-10#PBF	541
1021	LT1021BCN8-5#PBF	540
1021	DS1021S-25+	279
1021	LT1021DCS8-5#PBF	540
1021	TJA1021T	427
1022	ZXCT1022E5TA	261
1022	LT1022CN8#PBF	325
1023	UJA1023T/2R04,512	410
1023	DS1023S-100+	279
1024	LT1024CN#PBF	326
1024	ISPLSI1024-80LJ	103
1025	LT1025CN#PBF	524
1026	LT1026CN8#PBF	471
1026	LT1026CS8#PBF	471
1027	LT1027ECS8-5#PBF	540
1027	LT1027CCN8-5#PBF	540
1027	NCP1027P065G	500
1027	LT1027CCS85#PBF	540
1027	LT1027CCS85	540
1027	LT1027ECN8-5#PBF	540
1028	LT1028ACN8#PBF	307
1028	LT1028CN8#PBF	307
1028	NCP1028P100G	500
1028	NCP1028P065G	500
1028	LT1028CS8#PBF	307
1028	LT1028CSW#PBF	307
1029	LT1029ACZ#PBF	540
1029	LT1029CZ#PBF	540
103	REG103GA-3.3G4	557
103	DRV103UG4	469
103	REG103GA-5G4	561
103	REG103GA-AG4	545
103	ISO103	337
103	REG103UA-5G4	561
103	INA103KU	335
103	INA103KP	335
103	DRV103H	469
103	MCP103T-475E/TT	259
103	MCP103T-315E/TT	259
1030	ZXCT1030N8TA	261
1032	ISPLSI1032E-70LJN	103
1033	LT1033CT#PBF	547
1034	LT1034CS8-2.5#PBF	539
1034	LT1034BCZ-2.5#PBF	539
1034	LT1034BCZ-1.2#PBF	537
1034	LT1034BCZ-1.2	537
1036	LT1036CT#PBF	564
1037	LT1037CS8#PBF	307
1038	MAX1038AEEE+	280
1039	LT1039ACN#PBF	449
1039	MAX1039AEEE+	280
104	TSM104IN..	318
104	ADC104S021CIMM	281
104	REG104GA-AG4	546
104	REG104GA-5G4	561
104	REG104GA-3.3G4	558
104	DAC104S085CIMM	293
1040	TJA1040T/N1,118	427
1041	ZXCT1041E5TA	261
1041	TJA1041AT	427
1043	LTC1043CSW#PBF	471
1043	LTC1043CN#PBF	518
1043	LTC1043CN	518
1044	LTC1044CS8#PBF	471
1044	LTC1044CN8#PBF	471
1044	LTC1044ACS8#PBF	471
1044	MAX1044ESA+	471
1044	TC1044SCPA	471
1044	MAX1044CSA+	280
1045	DS1045S-3+	279
1046	TC1046VNBTR	524
1046	LTC1046CN8#PBF	471
1046	TC1046VNBTR.	524
1046	LTC1046CS8#PBF	471
1047	TC1047ADM-PICTL	527
1047	LTC1047CSW#PBF	329
1047	TC1047VNBTR	524
1047	TC1047AVNBTR	524
1049	LTC1049CS8#PBF	328
1049	LTC1049CN8#PBF	328
105	INA105AM	333
105	INA105KU	333
105	MAX105ECS+	279
105	XTR105UA	523
105	ADC14C105CISQ	286
105	ADC12C105CISQ	282
105	XTR105U	523
1050	LTC1050HS8#PBF	328
1050	LTC1050CN8#PBF	328
1050	LTC1050CS8#PBF	328
1050	ZXCT1050E5TA	261
1050	TJA1050T/N1,112	427
1050	CC1050-RTB1	354
10502	SN10502D	311
10503	DCR010503UE4	488
10505	DCP010505DBP	488
10505	DCP010505BP-UE4	488
10505	DCR010505U	488
10505	DCR010505P	488
10505	DCP010505BP	488
1051	LTC1051CSW#PBF	329
1051	LTC1051CN8#PBF	329
1051	ZXCT1051E5TA	518
1051	TS1051CX6 RF	307
10512	DCP010512BP	488
10512	DCP010512DBPE4	488
10515	DCH010515SN7	488
10515	DCP010515DBP	488
1052	LTC1052CSW#PBF	328
1052	LTC1052CN8#PBF	307
1053	LTC1053CSW#PBF	330
1054	LT1054CS8#PBF	471
1054	LT1054CP....	543
1054	LT1054IN8#PBF	471
1054	LT1054IS8#PBF	471
1054	LT1054CS8	471
1054	LT1054CN8#PBF	471
1054	LT1054LCS8#PBF	471
1054	TJA1054AT	427
1055	TJA1055T/3,512	427
1055	LT1055S8#PBF	325
1055	TJA1055T	427
1056	LT1056S8#PBF	325
1057	LT1057S8#PBF	326
1057	LT1057CN8#PBF	326
1058	LT1058ACN#PBF	320
1058	LT1058CN.#PBF	327
1058	LT1058SW#PBF	327
106	XTR106U.	332
106	INA106KP	333
106	XTR106P	523
106	INA106U	333
106	XTR106PA	445
106	TSIC106WST	523
106	TSIC106WEB	523
1060	ADM1060ARUZ	471
1060	LTC1060CN#PBF	438
1061	STM1061N23WX6F	471
1061	STM1061N29WX6F	471
1061	STM1061N31WX6F	471
1062	LTC1062CN8#PBF	438
1062	LTC1062CSW#PBF	438
1063	LTC1063CN8#PBF	438
1063	LTC1063CSW#PBF	438
1063	ADM1063ACPZ	471
1064	ADM1064ASUZ	471
1064	SAA1064/N2,112	533
1064	LTC1064-2CN#PBF	438
1065	ADM1065ASUZ	471
1066	ADM1066ASUZ	573
10664	ADC10664CIWM/NOPB	282
1067	ADM1067ACPZ	471
1068	ADM1068ASTZ	471
107	MAX107ECS+	279
1070	CC1070-RTY1	354
1070	LT1070CT#PBF	471
1071	LT1071CT#PBF	471
1072	LT1072CS8#PBF	471
1072	LT1072CN8	471
1072	LT1072CT#PBF	471
1072	LT1072CN8#PBF	471
1073	LT1073CN8#PBF	471
1073	ADM1073ARUZ	471
1073	LT1073CN8-5#PBF	471
1073	LT1073CS8-5#PBF	471
1073	LT1073CS8#PBF	471
1074	LT1074CT#PBF	571
1074	LT1074CT#PBF	471
1074	LT1074CT7#PBF	471
1074	LT1074HVCT#PBF	471
1074	LT1074IT#PBF	471
1076	LT1076CT-5#PBF	471
1076	LT1076CT#PBF	471
1076	LT1076CT#PBF	571
1076	LT1076CQ#PBF	471
1076	LT1076CR#PBF	471
1077	LT1077IS8#PBF	307
1077	LT1077S8#PBF	307
1077	LT1077CN8#PBF	307
1078	LT1078CN8#PBF	313
1078	LT1078ACN8#PBF	313
1078	TLC1078IP	313
1078	TLC1078ID	313
1078	LT1078S8#PBF	313
1078	TLC1078CD	313
1079	LT1079CN#PBF	320
1079	LT1079SW#PBF	320
1079	TLC1079CD	330
108	DAC108S085CIMT	293
108	ADC108S022CIMT	281
108	ADC108S052CIMT	281
108	TXB0108PWR	518
108	ADC108S102CIMT	281
1080	TJA1080TS,112	410
1080	LT1080CN#PBF	449
1081	LT1081CN#PBF	449
1081	QT1081-ISG	512
1081	ZXCT1081E5TA	261
1082	LT1082IQ#PBF	472
1082	LT1082IT#PBF	472
1082	LT1082CN8#PBF	472
1082	LT1082CT#PBF	472
1083	LT1083CP-5#PBF	562
1083	LT1083CP#PBF	548
1084	LM1084IT-ADJ	548
1084	LM1084IS-12/NOPB	564
1084	LT1084IT#PBF	548
1084	LT1084CP#PBF	548
1084	LM1084IT-ADJ/NOPB	548
1084	LT1084CT5	562
1084	LT1084CP12#PBF	564
1084	LT1084CT#PBF	548
1084	LD1084V	548
1084	LT1084CT-12#PBF	564
1084	LT1084CT-5#PBF	562
1084	SP1084V-L	548
1084	SP1084V1-L	548
1084	LT1084CP5#PBF	562
1084	LM1084IT-5.0	562
1084	LT1084CT	548
1084	TS1084CZ-2.5	554
1084	TS1084CM-2.5	554
1084	TS1084CZ-3.3	558
1084	TS1084CM-3.3	558
1085	TS1085CZ-3.3	558
1085	LD1085V25	554
1085	LM1085IT-ADJ	547
1085	LD1085V18	552
1085	LD1085V	547
1085	LD1085P	547
1085	LT1085CM-3.3#PBF	558
1085	LT1085CM#PBF	547
1085	LT1085CT#PBF	548
1085	LT1085CT-12#PBF	563
1085	SP1085V-L	547
1085	LM1085IS-12/NOPB	563
1085	SP1085V1-L	547
1085	LT1085CT-5#PBF	562
1085	LT1085CT12	563
1085	TS1085CP-2.5	554
1085	TS1085CZ-2.5	554
1085	LT1085CT-3.3#PBF	558
1085	LT1085CT#PBF	571
1086	LM1086IS-5.0	561
1086	LT1086CT-5#PBF	561
1086	LT1086CT-12#PBF	563
1086	LT1086CT#PBF	547
1086	LT1086CM#PBF	547
1086	LD1086V25	554
1086	LM1086IT-ADJ/NOPB	546
1086	LM1086CS-3.3	571
1086	LM1086IS-3.3	558
1086	LM1086IS-1.8	552
1086	LT1086CT#PBF	571
1086	LM1086CT-3.3	558
1086	TS1086CP-3.3	558
1086	TS1086CZ-3.3	558
1086	LM1086CS-ADJ	547
1086	TS1086CP-2.5	554
1086	LM1086CT-ADJ	547
1086	LM1086CS-3.3	558
1086	TS1086CZ-2.5	554
1086	LM1086CS-5.0/NOPB	561
1086	LM1086CT-5.0/NOPB	561
1086	LT1086CM	547
1086	LD1086DT50	561
1086	LT1086IM-3.3#PBF	558
1086	LT1086IM#PBF	546
1086	LD1086V	547
1086	LD1086V18	552
1086	LM1086IT-5.0/NOPB	561
1086	SP1086V-L	546
1086	LM1086IT-3.3/NOPB	558
1086	SP1086V1-L	546
1086	LD1086V33	558
1086	LT1086CM-3.3#PBF	558
1086	LD1086DT25	554
1089	LMV1089RL	533
1090	LTC1090CN#PBF	281
1091	LTC1091CN8#PBF	281
1093	LTC1093CN#PBF	281
1094	LTC1094CN#PBF	281
1096	LTC1096CS8#PBF	280
1097	LT1097S8#PBF	307
1097	LT1097CN8#PBF	307
1098	LTC1098LCS8#PBF	280
1098	LTC1098CS8#PBF	280
1099	LTC1099CN#PBF	280
10EL89	MC10EL89DG	86
11	OP11EPZ	318
11	MCHC11F1CFNE4	145
11	OP11GPZ	318
11	ATTINY11-6SI	137
110	QT110-DG	511
110	QT110-ISG	511
110	INA110KU	325
110	VFC110AP	437
110	TSH110ILT	304
110	INA110KP	335
110	QT110A-ISG	512
110	XTR110BG	523
110	XTR110KPG4	469
1100	ADUM1100BRZ	456
1100	ADUM1100ARZ	456
1100	HCTL-1100..	457
1100	LTC1100CN8#PBF	336
1100	ADS1100A0IDBVT.	287
1100	ADS1100A2IDBVT.	287
1100	CC1100-RTY1	354
1100	ADS1100A1IDBVT.	287
1100	DS1100Z-50+	279
1100	HFA1100IBZ	307
1100	DS1100Z-100+	279
1100	QT1100A-ISG	512
1101	A1101LUA-T	439
1101	MSP430F1101AIPW	229
1101	MSP430F1101AIDW	229
1101	LT1101CN8#PBF	336
1101	LT1101SW#PBF	336
1101	DRV1101U	445
1101	QT1101-ISG	512
1101	A1101ELHLT-T	439
1101	A1101EUA-T	439
1101	ZXLD1101ET5	442
1102	A1102EUA-T	439
1102	LT1102CN8#PBF	336
1103	QT1103-ISG	512
1104	A1104EUA-T	439

Index by Type for Semiconductor ICs

	Mftrs. List No.	Page
1104	A1104LUA-T	439
11043	MAX11043ATL+	288
1105	LT1105CN8#PBF	472
1105	MSA-1105-STRG	354
1106	QT1106-ISG	512
1106	ALM-1106-BLK	354
1107	LT1107CS8#PBF	472
1107	LT1107IS8#PBF	472
1107	LT1107CS8-12#PBF	472
1107	LT1107CS8-5#PBF	472
1108	TC1108-3.3VDBTR	557
1108	LT1108CS8#PBF	472
1108	LT1108CS8-5#PBF	472
1109	LT1109ACS8-12#PBF	472
1109	LT1109CS8-12#PBF	472
1109	LT1109ACS8	472
1109	LT1109ACS8-12	472
1109	LT1109CS8-12	472
1109	LT1109CS8#PBF	472
1109	LT1109ACS8-5#PBF	472
1109	LT1109ACN8-12#PBF	472
1109	LT1109ACS8#PBF	472
111	OPA111AM	325
111	INA111BP	335
111	INA111BU	335
111	MCP111-450E/TO	259
111	MCP111T-450E/TT	259
111	TSH111ID	304
111	SCANSTA111MT/NOPB	354
111	XTR111AIDRCTG4	523
111	LM111H	428
111	MCP111-290E/TO	259
111	INA111AP.	335
111	MCP111-195I/TO	255
111	MCP111-270E/TO	255
111	TSH111IPT	304
111	XTR111AIDRCT	469
111	111H	435
111	MCP111T-240E/TT	255
111	MCP111T-315E/TT	255
111	INA111AUE4	335
1110	LT1110CS8#PBF	472
1110	LT1110CS8-5#PBF	472
1110	ADS1110A2IDBVT.	287
1110	ADS1110A1IDBVT.	287
1110	ADS1110A0IDBVT..	287
1110	CC1110F32RSP	372
1111	MSP430F1111AIDW	229
1111	MAX1111CEE+	280
1111	CC1111F32RSP	372
1111	LT1111CN8#PBF	472
1111	LT1111CS8#PBF	472
1111	MSP430F1111AIPW	229
1111	ADP1111ARZ-5	561
1111	ADP1111ARZ-3.3	558
1111	LT1111CS8-5#PBF	472
1111	ADP1111ARZ-12	563
1111	ADP1111ARZ	546
1111	ADP1111ANZ-5	561
1111	ADP1111ANZ-3.3	558
1111	ADP1111ANZ-12	563
1111	MCP111T-290E/TT	259
1111	ADP1111ANZ	546
1111	LT1111CN8	472
1111	LT1111CS8	472
1112	HFA1112IPZ	332
1112	HFA1112IBZ	307
1112	ADS1112IDGST.	287
1112	MAX1112CAP+	280
1112	ADS1112IDRCT	283
1112	HFA1112IP	332
1112	LT1112ACN8#PBF	313
1112	MAX1112EAP+	280
1112	LT1112S8#PBF	313
1112	LT1112CN8#PBF	313
1113	LT1113CN8#PBF	326
1114	LT1114S#PBF	320
1114	LT1114CN#PBF	320
1114	LT1114ACN#PBF	320
1115	LT1115CSW#PBF	307
1117	TS1117BCP50 R0	567
1117	REG1117-3.3	557
1117	REG1117-5	561
1117	TS1117BCP33 R0	567
1117	LD1117S25CTR	553
1117	LD1117DT	545
1117	TS1117BCP18 R0	567
1117	TS1117BCP12 R0	567
1117	REG1117A-2.5	554
1117	LM1117MP-2.5	554
1117	REG1117A-1.8	552
1117	REG1117	545
1117	LM1117MP-3.3	557
1117	LM1117S-3.3	557
1117	LD1117S33TR	557
1117	LD1117S25TR-E	554
1117	LT1117IST-5#PBF	561
1117	LT1117CST-5#PBF	561
1117	LT1117CST-3.3#PBF	557
1117	LT1117CST#PBF	545
1117	LD1117STR-E	545
1117	LD1117V50	561
1117	LD1117V25C	554
1117	LD1117V18	552
1117	LD1117DT50C	561
1117	LD1117DT33C	557
1117	LD1117DT33	557
1117	LD1117DT25C	554
1117	LD1117DT25	554
1117	LD1117DT18	552
1117	LD1117AV33	558
1117	LM1117DT-3.3	571
1117	LD1117AV18	552
1117	LD1117AV	546
1117	LM1117MP-ADJ	545
1117	LT1117CM#PBF	545
1117	TLV1117CKTPR	545
1117	LM1117LD-3.3	557
1117	LM1117S-ADJ	545
1117	LM1117IDT-3.3/NOPB	557
1117	LM1117IDT-5.0/NOPB	561
1117	TLV1117-33CDCY	557
1117	LM1117DT-3.3	557
1117	LM1117DT-ADJ	545
1117	LM1117T-3.3	557
1117	LM1117T-ADJ	545
1117	LM1117DT-2.85	555
1117	LM1117T-5.0	561
1117	TS1117CW-2.5	554
1117	LD1117S	545
1117	LD1117S25	554
1117	LD1117V	545
1117	LD1117V33	557
1117	LM1117MP-5.0	561
1117	REG1117FA-2.5KTTT	554
1117	TS1117CW-3.3	558
1117	TS1117CW-ADJ	546
1118	LT1118CS8#PBF	545
1118	LT1118CST-2.5#PBF	553
1118	LT1118CST-5#PBF	561
112	DDC112UK	289
112	SCANSTA112SM/NOPB	354
112	MCP112T-270E/TT	255
112	SCANSTA112VS/NOPB	354
112	MICRF112YMM	354
112	DDC112U.	289
112	LOG112AID	338
112	TSH112IPT	312
112	LMV112SD/NOPB	331
112	PGA112AIDGST	338
112	TSH112ID	312
112	MCP112T-450E/TT	259
112	MCP112T-290E/TT	259
112	XTR112UA	523
112	MCP112-290E/TO	259
112	MCP112-450E/TO	259
1120	LT1120ACS8#PBF	543
1120	LT1120CS8#PBF	543
1120	LT1120CN8#PBF	543
1120	TPS1120D	472
11203	SIP11203DLP-T1-E3	465
11205	DCR011205U	488
1121	LT1121IS8-3.3#PBF	556
1121	LT1121IN8#PBF	544
1121	LT1121CN8#PBF	544
1121	LT1121IST-3.3#PBF	556
1121	LT1121AHVIS8#PBF	543
1121	LT1121AIS8-5#PBF	559
1121	LT1121CN8-3.3#PBF	556
1121	LT1121CST-3.3#PBF	556
1121	LT1121CZ-5#PBF	560
1121	LT1121CST-5#PBF	560
1121	LT1121IS8#PBF	543
1121	LT1121ACS8#PBF	544
1121	LT1121ACS8-3.3#PBF	556
1121	LT1121ACS8-5#PBF	560
1121	LT1121CS8-3.3#PBF	556
1121	LT1121HVCS8#PBF	544
1121	TC1121COA	472
1121	LT1121IST-5#PBF	560
1121	LT1121CS8-5#PBF	560
1121	LT1121CS8#PBF	544
1121	LT1121CN8-5#PBF	560
1121	LT1121CN8-5	560
1121	LT1121CS8	544
1122	LT1122CS8#PBF	307
1122	MSP430F1122IDW	229
1122	MSP430F1122IPW	229
1123	TS1123CX533 C0	566
1123	TS1123CX550 C0	566
1123	TS1123CX512 C0	566
1123	TRF1123IRTMT	354
1123	LT1123CST#PBF	562
1124	LT1124CS8#PBF	313
1124	LT1124CN8#PBF	313
1125	LT1125CSW#PBF	320
1126	LT1126CN8#PBF	313
1127	LT1127CSW#PBF	320
1128	LT1128CN8#PBF	307
1128	LT1128CS8#PBF	307
1129	LT1129CQ-3.3#PBF	557
1129	LT1129CQ-5#PBF	561
1129	LT1129CST-3.3#PBF	557
1129	LT1129CST-5#PBF	561
1129	LT1129IQ#PBF	545
1129	LT1129IQ-5#PBF	561
1129	LT1129IS8#PBF	545
1129	LT1129IS8-5#PBF	561
1129	LT1129IST-3.3#PBF	557
1129	LT1129IST-5#PBF	561
1129	LT1129CS8-5#PBF	561
1129	LT1129CS8-3.3#PBF	557
1129	LT1129CS8#PBF	545
1129	LT1129CT#PBF	545
1129	LT1129CT5#PBF	561
1129	LT1129CQ#PBF	545
1129	LT1229CN8#PBF	313
1129	LT1129CT-3.3#PBF	557
113	REG113NA-3.3/250G4	557
113	TSH113IPT	318
113	REG113NA-5	560
113	TSH113ID	318
113	REG113NA-5/3K	560
113	QT113-ISG	511
113	REG113EA-2.5/2K5	553
113	REG113NA-2.5/3K	553
113	QT113A-ISG	512
1130	HFA1130IBZ	307
1133	LT1133ACN#PBF	449
1134	LT1134ACN#PBF	449
1135	HFA1135IBZ	307
114	INA114BP	335
114	INA114BU	335
114	TSH114IPT	318
114	INA114AUE4	335
114	INA114AP	335
1142	LTC1142CG#PBF	472
1143	LTC1143CS#PBF	472
1144	LTC1144CS8#PBF	472
1144	LTC1144IS8#PBF	472
1146	MAX1146BCUP+	286
1147	LTC1147CS8-3.3#PBF	472
1147	LTC1147LCS8#PBF	472
1147	LTC1147CS8-5#PBF	472
1147	MAX1147BCUP+	286
1147	MAX1147BEUP+	286
1148	LTC1148HVCS#PBF	472
1148	LTC1148CS#PBF	472
1148	MAX1148BCUP+	286
1148	MAX1148BEUP+	286
1149	LTC1149CS#PBF	472
1149	MAX1149BCUP+	286
1149	MAX1149BEUP+	286
1149	LTC1149CN#PBF	472
115	LMV115MG	349
115	QT115-ISG	511
115	LK115D30	555
115	LK115D33	556
115	LK115D50	559
115	XTR115U	523
115	INA115AU	335
115	XTR115UA	523
1150	LTC1150CN8#PBF	328
1150	LTC1150CS8#PBF.	307
1150	IR1150STRPBF	472
1150	IR1150ISTRPBF	472
11501	MAX11501USA+	536
11502	MAX11502USA+	536
11504	MAX11504CUB+	536
1151	LTC1151CSW#PBF	329
1151	LTC1151CN8#PBF	313
11515	DCP011515DBP	488
1152	LTC1152CN8#PBF	328
1152	LTC1152CS8#PBF	328
1152	LTC1152IN8#PBF	328
1152	LTC1152IS8#PBF	307
1153	LTC1153CS8#PBF	460
1154	LTC1154CS8#PBF	460
1155	LTC1155CS8#PBF	472
1156	FSA1156P6	342
1156	LTC1156CSW#PBF	472
1157	FSA1157P6	342
1157	LTC1157CS8#PBF	472
1158	LTC1158CSW#PBF	460
1159	LTC1159CG-5#PBF	472
1159	LTC1159CS#PBF	472
1159	LTC1159CS-5#PBF	472
1159	LTC1159CG-3.3#PBF	472
1159	LTC1159CG#PBF	472
116	XTR116UA	523
116	LMV116MF	304
116	INA116UA	335
116	XTR116U.	332
116	INA116PAG4	335
116	PGA116AIPW	340
1160	TPS61160DRVT	442
1160	LT1160CS#PBF	460
1161	SAF-TC1161-128F66HL	223
1161	TPS61161DRVT	442
1161	LT1161CSW#PBF	460
1162	SAF-TC1162-128F66HL	223
1162	LT1162CSW#PBF	460
1163	LTC1163CS8#PBF	472
1166	SAF-TC1166-192F80HL	223
1166	LT1166CS8#PBF	472
1167	LT1167AIS8#PBF	336
1167	LT1167CS8#PBF.	336
1167	LT1167IS8#PBF	336
1167	LT1167ACS8#PBF	336
1167	LT1167CN8#PBF	336
1167	IR1167ASPBF	472
1167	LT1167AIN8#PBF	336
1168	LT1168CN8#PBF	336
1169	LT1169CN8#PBF	326
117	XTR117AIDRBT	523
117	LM117H	546
117	LM117K STEEL	546
117	PGA117AIPW	340
117	XTR117AIDRBTG4	523
117	INA117P.	335
117	INA117BM	333
117	INA117KUG4	333
1170	LT1170CT#PBF	472
1170	LT1170HVCT#PBF	472
1171	LT1171CT#PBF	472
1171	LT1171IQ#PBF	472
1171	LT1171CT	472
1172	LT1172CN8	472
1172	LT1172CN8#PBF	472
1172	LT1172CS8#PBF	472
1172	LT1173CS8-5#PBF	472
1172	LT1172CT#PBF	472
1173	ADC1173CIMTC	280
1173	LT1173CN8	472
1173	LT1173CS8#PBF	472
1173	LT1173CN8#PBF	472
1174	LTC1174CS8-5#PBF	472
1174	LTC1174CS8#PBF	472
1174	LTC1174CN8#PBF	472
1174	LTC1174CS8-5	472
1174	LTC1174HVCS8#PBF	472
1174	ADS1174IPAPT	287
1174	LTC1174CN8	472
1174	LTC1174CS8-3.3#PBF	472
1175	LT1175IST-5#PBF	550
1175	LT1175IN8#PBF	545
1175	LT1175CST-5#PBF	550
1175	LT1175CN8-ADJ#PBF	545
1175	LT1175CN8#PBF	545
1175	LT1175CQ#PBF	545
1175	LT1175CN8-5#PBF	550
1175	LT1175CS8-5#PBF	560
1175	LT1175CS8#PBF	545
1176	LT1176CSW#PBF	472
1177	OP1177ARZ	307
1178	ADS1178IPAPT	287
1179	LT1179SW#PBF	320
118	INA118UB	335
118	INA118P	335
118	QT118HA-ISG	512
118	QT118H-ISG	511
118	QT118H-DG	511
118	INA118PB	335
118	INA118U	335
1180	LT1180AIN,#PBF	449
1180	LT1180ACSW#PBF	449
1180	LT1180ACN#PBF	449
1181	LT1181ACSW#PBF	449
1181	MAX1181ECM+D	291
1181	LT1181ACN#PBF	449
1182	MAX1182ECM+D	291
1182	LT1182CS#PBF	472
1183	MAX1183ECM+D	291
1184	ADM1184ARMZ	256
1184	LT1184CS#PBF	472
1185	LT1185CT	547
1185	ADM1185ARMZ-1	256
1185	TC1185-1.8VCT713	569
1185	TC1185-3.3VCT713	556
1185	LT1185CT#PBF	547
1185	TC1185-2.5VCT713	553
1185	TC1185-5.0VCT713	569
1186	LT1186FCS#PBF	472
1186	MAX1186ECM+D	291
1187	TC1187VCT713	544
1190	LT1190CS8#PBF	307
1191	LT1191CS8#PBF	307
1192	LT1192CS8#PBF	307
1193	MAX1193ETI+	291
1193	LT1193CN8#PBF	533
1195	LT1195CS8#PBF	307
1196	LTC1196-2ACS8#PBF	280
1196	LTC1196-2BCS8#PBF	280
1196	MAX1196ECM+D	291
1197	MAX1197ECM+D	280
1197	LTC1197LCS8#PBF	281
1197	LTC1197CMS8#PBF	281
1197	LTC1197LCMS8#PBF	281
1198	LTC1198-2BCS8#PBF	280
1198	MAX1198ECM+D	280
1199	LTC1199CS8#PBF	281
1199	LTC1199LCMS8#PBF	281
1199	LTC1199LCS8#PBF	281
12	HT12D	357
12	PIC12F629-I/P	188
12	PIC12CE674-04I/P	200
12	ADC12D040CIVS	282
12	PIC12CE674-04/P	200
12	ADC12DS105CISQ/NOPB	282
12	PIC12CE673-04/P	200
12	PIC12F629-I/P	572
12	PIC12F675-I/P	572
12	ADC12DS080CISQ	282
12	PIC12CE519-04I/SN	200
12	PIC12CE519-04I/P	200
12	ADC12DL040CIVS	282

Index by Type for Semiconductor ICs

	Mftrs. List No.	Page
12	PIC12CE519-04/SM	200
12	HT12F-20SOP	357
12	PIC12CE519-04/P	200
12	PIC12C672-04/SM	200
12	PIC12CE518-04/P	200
12	HT12E-20SOP	357
12	PIC12LC508A-04I/SM	200
12	HT12D-20SOPLF	357
12	PIC12F629-I/SN	572
12	ADC12QS065CISQ	282
12	PIC12C672-04I/P	200
12	PIC12C508A-04I/SM	200
12	PIC12F683-I/SN	188
12	PIC12F508-I/P	188
12	PIC12F683-I/P	188
12	PIC12F675-I/SN	572
12	PIC12F675-I/SN	188
12	PIC12HV615-I/SN	188
12	PIC12F683-I/P	572
12	PIC12C671-04/SM	200
12	HT12A 18 DIP	357
12	PIC12LC672-04I/SM	200
12	PIC12F675-I/P	188
12	HT12E	357
12	PIC12F629-I/SN	188
12	HT12F	357
12	PIC12F508-I/P	572
12	ADC12C170CISQ/NOPB	282
12	PIC12C671-10I/P	200
12	PIC12CE518-04I/SM	200
12	PIC12CE518-04I/P	200
12	PIC12C671-04I/SM	200
12	ADC12V170CISQ/NOPB	282
12	ADC12C105CISQE/NOPB	282
12	MC9S12C32CPBE25	575
12	MC9S12C32CFAE25	574
12	PIC12F510-I/SN	188
12	PIC12F609-I/P	188
12	PIC12F609-I/SN	188
12	VIPER12ADIP-E	469
12	PIC12F615-I/P	188
12	PIC12F615-I/SN	188
12	ADC12DL065CIVS/NOPB	282
12	HT12A-20SOPLF	357
12	PIC12F629-I/MD	188
12	PIC12C508A/JW	200
12	PIC12C509A-04I/P	200
12	PIC12F675-I/MD	188
12	VIPER12AS-E	469
12	PIC12F683-I/MD	189
12	PIC12HV609-I/SN	188
12	PA12A	324
12	PIC12HV615-I/P	188
12	PIC12F635-I/MF	188
12	PA12	324
12	PIC12F683-I/MF	188
12	PIC12C509A/JW	200
12	PIC12C672-10/P	200
12	PIC12C672-04I/SM	200
12	MC9S12C32MPBE25	575
12	PIC12C672-04/P	200
12	PIC12C508A-04I/P	200
12	PIC12CE519-04I/SM	200
12	PIC12C671-10I/SM	200
12	PIC12C672-10/SM	200
12	MC9S12E64CPVE	207
12	PIC12C508-04I/SM	200
12	PIC12C509-04/P	200
12	PIC12C671-04I/P	200
12	PIC12C509-04/SM	200
12	PIC12C671-04/P	200
12	LM12H458CIV/NOPB	282
12	PIC12C509A-04I/SM	200
12	PIC12C509A-04/SN	200
12	PIC12C509A-04/SM	200
12	PIC12C509A-04/P	200
12	PIC12C508A-04I/SN	200
12	PIC12C508A-04/SN	200
12	PIC12F509-I/MC	188
12	PIC12C508A-04/SM	200
12	PIC12C508A-04/P	200
12	PIC12LCE519-04I/SM	200
12	PIC12F510-I/MC	188
12	PIC12C509A-04I/SN	200
12	PIC12F510-I/P	188
12	PIC12CE673-04I/P	200
12	PIC12F509-I/P	188
12	PIC12C672-10I/P	200
12	MC9S12D64CFUE	207
12	MC9S12D64CPVE	207
12	MC9S12D64VPVE	207
12	PDIUSBD12D.112	410
12	PIC12C508-04I/P	200
12	PIC12F629-E/P	188
12	PIC12C671-10/P	200
12	PIC12C508-04/P	200
12	PIC12F675-E/P	188
12	LM12CLK	304
12	MC9S12E64CFUE	207
12	MC9S12DG128CFUE	207
12	MC9S12E128CFUE	207
12	MC9S12E128CPVE	207
12	PIC12F509-I/SN	188
12	PIC12F508-I/SN	188

	Mftrs. List No.	Page
12	PIC12F635-I/P	188
12	PIC12F635-I/SN	188
12	MC9S12C32CFAE25	207
12	MC9S12H256VPVE	207
12	MC9S12H256VFVE	207
12	MC9S12C32CFUE25	207
12	MC9S12C32CPBE25	207
12	MC9S12C32MFAE25	207
12	MC9S12C32VFAE25	207
12	MC9S12A64CPVE	207
12	MC9S12A64CFUE	207
120	MCP120T-270I/TT	255
120	ISO120G	570
120	LF120CPT	563
120	LF120CDT	563
120	LF120ABV	563
120	MCP130T-460I/TT	255
120	MCP120-315HI/TO	259
120	MCP120T-475I/TT.	259
120	ISO120G	337
120	MCP120T-300I/TT	255
120	MCP120-450DI/TO	259
120	MCP120T-315I/TT	259
120	MCP120T-450I/TT	259
120	MCP120-300DI/TO	259
120	MCP120T-475I/TT	259
1200	LCMXO1200E-5TN144C	101
1200	LCMXO1200C-4TN144C	102
1200	LCMXO1200C-4FTN256C	102
1200	MSC1200Y3PFBT	300
1200	LCMXO1200C-3TN144C	102
1200	LCMXO1200C-3FTN256C	102
1200	THAT1200S08-U	334
1200	THAT1200P08-U	334
1200	LCMXO1200C-5TN100C	100
1200	ADUM1200CRZ	456
1200	ADUM1200BRZ	456
1200	ADUM1200ARZ	456
1200	LCMXO1200C-5TN144C	102
1200	LCMXO1200E-4TN144C	102
1200	LCMXO1200E-4FTN256C	102
1200	LCMXO1200E-3FTN256C	101
1200	LCMXO1200E-3TN144C	101
12000	PTH12000WAH	507
12000	PTH12000WAZ	507
12000	PTH12000WAD	507
1201	ADUM1201ARZ	456
1201	A1201ELHLT-T	439
1201	ADUM1201BRZ	456
1201	A1201EUA-T	439
1201	ADUM1201CRZ	456
1201	TLK1201AIRCP	354
1201	MSC1201Y3RHHT	300
1201	TLK1201IRCP	354
1201	ADS1201U	289
12010	ADC12010CIVY	285
12010	PTH12010WAZ	507
12010	PTH12010WAH	507
1202	IP1202PBF	472
12020	PTH12020WAZ	507
12020	PTH12020WAD	507
12020	PTH12020WAH	507
12020	ADC12020CIVY	285
12024	ISL12024IBZ	254
12025	ISL12025IBZ	254
12026	ISL12026IBZ	254
12027	ISL12027IB27AZ	254
1203	LT1203CS8#PBF	307
1203	IP1203PBF	472
12030	PTH12030WAH	507
12030	PTH12030WAH.	507
12030	PTH12030WAZ	507
12038	ADC12038CIWM/NOPB	286
1204	ADG1204YRUZ	340
1204	LT1204CSW#PBF	307
12048	ADC12048CIVF/NOPB	282
1205	LT1205CS#PBF	314
1205	A1205ELHLT-T	439
1205	A1205LUA-T	439
1205	A1205EUA-T	439
12050	PTH12050WAD	507
12050	PTH12050WAZ	507
12050	PTH12050WAH	507
1206	THS1206CDA.	283
1206	ADG1206YRUZ	341
1206	LT1206CR#PBF	307
1206	LT1206CN8#PBF	332
1206	THAT1206S08-U	334
1206	THAT1206P08-U	334
12060	PTH12060WAD	507
12060	PTH12060WAH	507
12060	PTH12060WAZ	507
1207	ADG1207YRUZ	340
1207	IRU1207-33CSPBF	558
1208	ADG1208YRZ	340
1208	ISPPAC-POWR1208-01TN44I	101
1208	ISPPAC-POWR1208-01TN44I	574
1209	ADG1209YRZ	340
121	ADC121S705CIMM	282
121	INA121U	335
121	INA121P....	335
121	INA121PA..	335
121	ADC121C027CIMK	291
121	ADC121S101CIMF	282

	Mftrs. List No.	Page
121	OPA121KU	325
121	ADC121S021CIMF	282
121	MAX121CWE+	286
121	ADC121S051CIMF	282
121	MCP121-450E/TO	259
121	DAC121S101CIMM/NOPB	294
121	MCP121T-475E/TT	259
121	INA121UA	335
121	DAC121C085CIMM/NOPB	294
121	OXU121HP - LQBG	415
121	ADC121C021CIMK	291
121	ADC121S051CISD	282
121	ADC121S101CISD	282
121	ADC121S021CISD	282
121	ADC121S625CIMM	282
1210	ADUM1210BRZ	456
1210	MSC1210Y5PAGTG4	300
1210	A1210EUA-T	439
1210	A1210ELHLT-T	439
1210	DS1210S+	106
1210	LT1210CT7#PBF.	332
1210	LT1210CS#PBF	307
1210	ADS1210P.	289
1210	DS1210+	106
1210	ADS1210U	289
1211	LT1211CS8#PBF	314
1211	DS1211+	106
1211	ADG1211YRUZ	344
1211	LT1211CN8#PBF	314
1211	ADS1211U..	289
1211	ADS1211P.	289
1212	LT1212CN#PBF	320
1212	MMA1212D	520
1212	LT1212CS#PBF	320
1212	ADG1212YRUZ	344
1213	ADS1213E	289
1213	ADG1213YRUZ	344
1213	DS1213D	106
1213	DS1213C	106
1213	DS1213B	106
1213	LT1213CS8#PBF.	314
1213	LT1213CN8#PBF	314
1213	ADS1213U.	289
12138	ADC12138CIN	286
1214	LT1214CS#PBF	320
1215	LT1215CS8#PBF	314
1215	LT1215CN8#PBF	314
1216	NCP1216P133G	472
1216	LT1216CS#PBF	320
1216	ADS1216Y/250	289
1216	DS1216B	106
1216	NCP1216P100G	472
1217	ADS1217IPFBT	289
1217	ADS1217IPFB	289
1218	LT1218LCS8#PBF	307
1218	LT1218CN8#PBF	307
1218	ISL1218IUZ	254
1219	ISL1219IUZ	254
1219	LT1219CN8#PBF	307
122	ISO122PE4	337
122	INA122UA	335
122	ADC122S655CIMM/NOPB	282
122	ISO122JPE4	337
122	INA122U	335
122	MSP430F122IPW	229
122	DAC122S085CIMM	294
122	INA122PA	335
122	ADC122S021CIMM	282
122	ADC122S051CIMM	282
122	MSP430F122IDW	229
122	TPA122D	532
122	ISO122UE4	337
122	ADC122S101CIMM	282
122	TMP122EVM	525
122	TPA122DG4	532
122	ISO122JUE4	337
1220	LT1220CS8#PBF	307
1220	TDUHC122 0F0C	415
1220	DAC1220E	298
1220	DS1220Y-150+	107
1220	DS1220Y-200+	107
1220	ISPPAC-POWR1220AT8-01TN100I	103
1220	LT1220CN8#PBF	307
12201	SIP12201DM-T1-E3	488
12202	SIP12202DM-T1-E3	488
1221	TLK1221RHAT	354
1221	ISL1221IUZ	254
1221	LT1221CN8#PBF	307
1222	ADG1222BRMZ	342
1222	MSP430F1222IPW	229
1222	MSP430F1222IDW	229
1222	LT1222CN8#PBF	307
1223	LT1223CN8#PBF	332
1223	ADG1223BRMZ	342
1223	TRF1223IRTMT	354
1224	LT1224CN8#PBF	307
1224	ADS1224IPWT	289
1225	DS1225AD-200+	107
1225	DS1225Y-150+	107
1225	ADS1225IRGVT	289
1225	DS1225Y-200+	107
1226	ADS1226IRGVT	289
1226	LT1226CN8#PBF	307

	Mftrs. List No.	Page
1227	LT1227CN8#PBF	307
1227	LT1227CS8#PBF	307
1228	LT1228CS8#PBF	307
1228	LT1228CN8#PBF	307
1229	LT1229CS8#PBF	314
123	CAT1232LPV-G	255
1230	DS1230Y-150	107
1230	DS1230Y-120+	107
1230	DS1230Y-100+	107
1230	DS1230Y-200+	107
1230	ADS1230IPW.	289
1230	DS1230Y-150+	107
1231	DS1231-20+	256
1231	DS1231-20	256
1232	MAX1232CPA+	257
1232	MAX1232ESA+	257
1232	MAX1232CPA+	571
1232	LTC1232CS8#PBF	257
1232	DS1232LPS-2+	257
1232	MAX1232EPA+	257
1232	TC1232EOA	518
1232	ADM1232ARNZ	257
1232	DS1232LP+	257
1232	LTC1232CN8.#PBF	257
1232	ADS1232IPW	289
1232	TC1232COA	518
1232	DS1232+	257
1232	TC1232CPA	518
1232	MSP430F1232IDW	229
1232	MAX1232CSA+	257
1232	MSP430F1232IPW	229
1232	ADM1232ANZ	257
1232	ADS1232IPW..	289
1233	DS1233M-5	257
1233	DS1233-5+	257
1233	ADG1233YRUZ	344
1233	DS1233-10+	257
1233	DS1233A-10+	257
1233	TLS1233NE4	533
1234	ADS1234IPW.	289
1234	ADG1234YRUZ	343
1235	LTC1235CSW#PBF	472
1235	SSM2135SZ	533
1236	LT1236ACS8-5#PBF	540
1236	LT1236BIS8-5#PBF	540
1236	DS1236-10+	106
1236	LT1236ACS8-10#PBF	541
1236	LT1236BCS8-5#PBF	540
1236	MAX1236EUA+	283
1236	LT1236CCS8-5#PBF	540
1236	LT1236BCN8-10#PBF	541
1236	ADG1236YRUZ	342
1238	MAX1238EEE+	299
1239	MAX1239EEE+	283
124	ISO124U	337
124	LM124D	318
124	OPA124UE4	325
124	OPA124UAE4	325
124	ADC124S021CIMM/NOPB	282
124	ISO124P	337
124	ISO124U...	337
124	LM124J	318
124	DAC124S085CIMM	294
1240	THAT1240P08-U	335
1240	THAT1240S08-U	335
1240	LS1240A.	354
1240	TC1240AECHTR	472
1240	ADS1240E..	289
1241	MAX1241BCSA+	283
1241	ADS1241E	289
1241	LT1241CS8#PBF	472
1242	LT1242CN8#PBF	472
1242	LT1242CS8#PBF	472
1242	ADS1242IPW	289
1242	A1242EUA-I1-T	439
1243	LT1243CN8#PBF	472
1243	MAX1243BCSA+	281
1243	DS1243Y-120+	107
1243	LT1243CS8#PBF	472
1243	ADS1243IPW	289
1244	ADS1244IDGSTG4	289
1244	LT1244CS8#PBF	472
1245	DS1245Y-100+	107
1245	LT1245CS8#PBF	472
1245	DS1245Y-120+	107
1246	MAX1246BCEE+	283
1246	THAT1246P08-U	335
1246	THAT1246S08-U	335
1246	LT1246CS8#PBF	472
1247	MAX1247BCEE+	283
1248	LT1248CS#PBF	472
1249	LT1249CS8#PBF	472
125	INA125PA	335
125	ZXRE125FFTA	537
125	ZXRE125EFTA	537
125	INA125P	335
125	MAX125CEAX+	300
125	ZXRE125DFTA	537
125	74HCT1G125GW	61
125	ZXRE125CFTA	537
125	TMP125AIDBVT	523
125	INA125UA	335
1250	LTC1250CN8#PBF	338
1250	ADS1250UG4	300

Index by Type for Semiconductor ICs

	Mftrs. List No.	Page
1250	LTC1250CS8#PBF	328
1251	ADS1251U	289
1251	ADS1251UG4	289
1251	LMH1251MT	533
1251	ADUM1251ARZ	456
1252	MCP1252DM-BKLT	169
1252	LT1252CN8	308
1252	LT1252CN8#PBF	308
1252	MCP1252-33X50I/MS	472
1252	MCP1252-ADJI/MS	472
1252	ADS1252UG4	289
1252	LT1252CS8#PBF	308
1253	LT1253CS8#PBF	314
1253	MCP1253-ADJI/MS	473
1253	MCP1253-33X50I/MS	472
1253	ADS1253EG4	289
1254	ADS1254E.	289
1254	LT1254CS#PBF	320
1255	LTC1255CS8#PBF	473
1256	ADS1256IDBTG4	289
1257	LTC1257CS8#PBF	294
1257	LTC1257CN8#PBF	294
1258	LTC1258CS8#PBF	544
1258	ADS1258IRTCTG4	289
1259	LT1259CS#PBF	314
1259	LT1259CN#PBF	314
126	INA126EA	335
126	INA126PA	335
126	INA126U	335
126	INA126UA	335
1260	MMA1260D	520
1260	LT1260CS#PBF	318
1261	LTC1261CS8#PBF	473
1262	LTC1262CS8#PBF	473
1262	TC1262-3.3VDBTR	557
1263	LTC1263CS8#PBF	473
1265	LTC1265CS-5#PBF	473
1265	LTC1265CS-3.3#PBF	473
1265	LTC1265CS#PBF	473
1265	FSCQ1265RTYDTU	473
1266	LTC1266CS#PBF	473
1266	LTC1266CS-3.3#PBF	473
1266	LTC1266CS-5#PBF	473
1267	DS1267-010+	435
1267	DS1267-100+	435
1267	DS1267-050	436
1267	DS1267-100	436
1267	DS1267S-050+	436
1267	DS1267S-100+	436
1267	DS1267S-010+	436
1267	DS1267-050+	435
1268	LT1268CT#PBF	473
1269	LM1269NA/NOPB	533
1269	LT1269CT#PBF	473
127	MAX127BCAI+	299
1270	EPM1270T144C5N	574
1270	LT1270CT#PBF	473
1270	EPM1270T144C3N	91
1270	LT1270ACT#PBF	473
1270	EPM1270T144C5N	91
1271	NCP1271D100R2G	500
1271	NCP1271D65R2G	500
1271	ADS1271IPW	289
1271	ADS1271IPWG4	289
1271	ADS1271IBPW.	289
1272	LTC1272-3CCN#PBF	283
1272	LTC1272-8CCSW#PBF	283
1273	LTC1273BCN#PBF	283
1274	LTC1274CSW#PBF	283
1274	ADS1274IPAPT	289
1275	LTC1275BCN#PBF	283
1276	LTC1276BCN#PBF	283
1276	MAX1276ETC+	291
1277	LTC1277CSW#PBF	283
1278	LTC1278-4CN#PBF	283
1278	ADS1278IPAPT	289
1279	MAX1279BETC+	291
128	ATMEGA128L-8MU	137
128	ATMEGA128-16AU	573
128	ATMEGA128L-8AU	573
128	ADC128S102CIMT	282
128	NAND128W3A2BN6E	122
128	ADC128S022CIMT	282
128	ADC128S052CIMT	282
128	INA128PA	335
128	ATMEGA128-16MU	137
128	INA128P	335
128	INA128UAE4	335
128	ATMEGA128-16AU	137
128	ATMEGA128L-8AU	137
128	INA128U	335
128	DAC128S085CIMT	294
1280	ATMEGA1280V-8AU	138
1280	ATMEGA1280-16AU	138
12800	BUF12800AIPWP	536
1281	ATMEGA1281-16AU	138
1281	ADS1281IPW	289
1281	ATMEGA1281V-8AU	138
1285	LTC1285CN8#PBF	283
1285	LTC1285CS8#PBF	283
1286	LTC1286CN8#PBF	283
1286	ADS1286UAG4	283
1286	ADS1286PA	283
1286	LTC1286CS8#PBF	283

	Mftrs. List No.	Page
1286	ADS1286U	283
12877	DS12887A+	254
1288	LTC1288CS8#PBF	283
1288	LTC1288CN8#PBF	283
12883	GR12883	108
12885	DS12885QN+	254
12887	DS12887+	253
12887	DS12C887A+	254
129	INA129P	335
129	INA129U	335
129	OPA129UE4	325
129	OPA129UBE4	325
129	INA129UAE4	335
1290	LTC1290CCN	300
1290	LTC1290DCN#PBF	283
1290	LTC1290CCN#PBF	283
1290	LTC1290CCSW#PBF	283
1293	LTC1293DCN#PBF	283
1293	LTC1293DCSW#PBF	283
1294	LTC1294CCN#PBF	283
1294	LTC1294DCN#PBF	283
1296	LTC1296BCN#PBF	283
1296	LTC1296DCN#PBF	283
1298	LTC1298CN8#PBF	571
1298	LTC1298CN8#PBF	283
1298	LTC1298CS8#PBF	283
13	ATTINY13V-10SSU	137
13	ATTINY13-20SSU	137
13	ATTINY13-20PU	137
13	ATTINY13-20SU	137
13	ATTINY13V-10PU	137
13	ATTINY13V-10MU	137
13	ATTINY13V-10SU	137
130	MCP130-450DI/TO	259
130	ADR130BUJZ	537
130	OPA130UAE4	325
130	MCP130-475FI/TO	259
130	MCP130T-300I/TT	259
130	MCP130-450HI/TO	259
130	MCP130-300DI/TO	259
130	MCP130-475HI/TO	259
130	MCP130T-315I/TT	259
130	MCP130T-475I/TT	259
130	MCP130T-450I/TT	259
130	MCP130-450DI/TO.	259
130	MCP130-450FI/TO	259
130	MCP130-475DI/TO	259
1300	ADUM1300CRWZ	456
1300	LT1300CN8#PBF	473
1300	LT1300CS8#PBF	473
1300	ADUM1300ARWZ	456
1300	ADUM1300BRWZ	456
1301	A1301ELHLT-T	439
1301	A1301EUA-T	439
1301	ADUM1301ARWZ	456
1301	LT1301IS8#PBF	473
1301	LT1301CS8#PBF	473
1301	LT1301CN8#PBF	473
1301	ADUM1301BRWZ	456
1301	ADUM1301CRWZ	456
1302	LT1302CN8-5#PBF	473
1302	LT1302CN8#PBF	473
1302	LT1302CS8-5#PBF	473
1302	DS1302ZN+	254
1302	DS1302+	253
1302	LT1302CS8#PBF	473
1302	A1302EUA-T	439
1302	DS1302Z+	253
13021	MAX13021ASA+	356
1303	MAX1303BEUP+	287
1303	LT1303CN8#PBF	473
1303	LT1303CN8-5#PBF	473
1303	LT1303CN8-5	473
1303	TC1303BDM-DDBK1	473
1303	LT1303CS8#PBF	473
1303	LT1303CS8-5#PBF	473
1304	LT1304CS8-5#PBF	473
1304	LT1304CS8-3.3#PBF	473
1304	LT1304CS8#PBF	473
1305	LT1305CS8#PBF	473
1305	DS1305+	253
1305	DS1305EN+	254
1305	DS1305E+	253
13050	MAX13050ASA+	426
13052	MAX13052ESA+	426
13052	MAX13052ASA+	426
13053	MAX13053ESA+	426
13053	MAX13053ASA+	426
13054	MAX13054ASA+	426
1306	DS1306EN+	254
1306	DS1306E+	254
1307	LT1307CN8#PBF	473
1307	LT1307CS8#PBF	473
1307	DS1307+	253
1307	DS1307Z+	253
1307	LT1307CN8	473
1307	LT1307BCS8#PBF	473
1307	DS1307ZN+	253
1307	LT1307CS8	473
1308	LT1308ACS8#PBF	473
1308	ADG1308BRUZ	340
1308	LT1308CS8#PBF	473
1308	LT1308BCS8#PBF	473
1309	ADG1309BRUZ	340

	Mftrs. List No.	Page
131	INA131AP	335
131	INA131BP	335
131	MCP131T-450E/TT	259
1310	LT1310EMSE#PBF	473
1310	ADUM1310BRWZ	456
1311	ADG1311YRUZ	344
1312	DS1312S-2+	107
1312	ADG1312YRZ	344
1313	ADG1313YRUZ	344
1313	ADG1313YRZ	344
1314	DS1314S-2+	107
1315	DS1315-5+	253
1316	LT1316CS8#PBF	473
1316	MCP1316T-29LE/OT	259
1316	MCP1316T-46LE/OT	259
1317	MCP1317T-29LE/OT	257
1317	LT1317BCS8#PBF	473
1317	MCP1317T-46LE/OT	257
1317	LT1317CS8#PBF	473
1318	MCP1318T-29LE/OT	259
1318	MCP1318MT-46LE/OT	257
1319	MCP1319MT-29LE/OT	257
1319	MCP1319MT-46LE/OT	257
13191	MC13191FC	356
13192	MC13192FC	356
13193	MC13193FC	356
132	INA132UA	333
132	INA132U	333
132	MAX132CNG+	289
132	OPA132UAE4	325
1320	TC1320EOA	291
1320	MCP1320T-46LE/OT	257
1320	MCP1320T-29LE/OT	257
13201	MC13201FC	385
13202	MC13202FC	385
13203	MC13203FC	385
1321	MCP1321T-29LE/OT	257
1321	TC1321EOA	293
1321	A1321ELHLT-T	439
1321	A1321EUA-T	439
1321	MCP1321T-46LE/OT	257
13211	MC13211	385
13212	MC13212	385
13213	MC13213	385
13214	MC13214	385
1322	A1322EUA-T	439
1322	MCP1322T-46LE/OT	257
1322	MCP1322T-29LE/OT	257
1325	LTC1325CSW#PBF	473
1326	LTC1326CS8#PBF	473
1326	LTC1326CS8-2.5#PBF	473
1326	LTC1326CMS8-2.5#PBF	473
1328	ADAU1328BSTZ	533
1329	LTC1329CS8-10#PBF	291
1329	LTC1329CS8-50#PBF	292
133	INA133UA	333
133	MSP430F133IPM	229
13305	ADM13305-5ARZ	259
13305	ADM13305-18ARZ	259
13305	ADM13305-25ARZ	259
13305	ADM13305-4ARZ	259
13305	ADM13305-33ARZ	259
1334	LTC1334CG#PBF	449
1334	LTC1334IG#PBF	449
1336	LT1336CS#PBF	473
1337	DS1337U+	254
1337	DS1337+	254
1337	NCP1337PG	473
1337	DS1337S+	254
1338	LTC1338CG#PBF	449
1338	DS1338U-33+	254
1339	LT1339CSW#PBF	473
134	INA134PA	532
134	OPA134UA	532
134	INA134UAE4	333
134	DRV134UAE4	532
134	OPA134PAG4	532
134	DRV134PAG4	532
1340	DS1340U-33+	254
1340	DS1340Z-33+	254
1348	LTC1348CSW#PBF	449
1349	LTC1349CG#PBF	449
135	LM135H	523
135	DRV135UA	532
1350	ZXLD1350ET5	442
1351	LT1351CMS8#PBF	308
1352	LT1352CN8#PBF	314
1352	ZXLD1352ET5TA	442
1352	LT1352CS8#PBF	314
1353	LT1353CS#PBF	320
1354	PVD1354NPBF	469
1354	PVA1354NPBF	469
1354	LT1354CS8#PBF	308
1355	LT1355CS8#PBF	314
1355	LT1355CN8#PBF	314
1356	LT1356CN#PBF	320
1356	ZXLD1356DACTC	442
1356	ZXLD1356ET5TA	442
1357	LT1357CN8#PBF	308
1357	LT1357CS8#PBF	308
1357	LT1357CN8	308
1358	LT1358CN8#PBF	314
1358	MAX1358BETL+	299
1359	MAX1359BETL+	300

	Mftrs. List No.	Page
1359	LT1359CN#PBF	320
1360	LT1360CS8#PBF	308
1360	ZXLD1360ET5TA	442
1361	LT1361CN8#PBF	314
1361	LT1361CS8#PBF	314
1362	LT1362CS#PBF	320
1362	ISP1362BD,157	410
1363	LT1363CN8	308
1363	LT1363CS8#PBF	308
1363	LT1363CN8#PBF	308
1364	LT1364CS8#PBF	314
1364	LT1364CN8#PBF	314
1365	LT1365CN#PBF	320
1365	LT1635CN8#PBF	314
1365	MAX1365ECM+	289
1366	ZXLD1366DACTC	442
1366	ZXLD1366ET5TA	442
1366	LT1366CN8#PBF	314
1366	LT1366CS8#PBF	308
1367	MAX1367ECM+	289
1368	LT1368CS8#PBF	314
1368	LT1368CN8#PBF	308
137	OPA137PA	325
137	OPA137PA.	325
137	INA137UA..	333
137	INA137PA	532
137	OPA137UA	325
137	PB137ACV	469
137	INA137UA	333
137	OPA137N/250	304
137	OPA137NA	325
137	OPA137U.	325
1370	LT1370CR#PBF	473
1370	LT1370CT7#PBF	473
1371	DS1371U+	254
1371	LT1371CSW#PBF	473
1371	LT1371CT7#PBF	473
1372	LT1372CS8#PBF	473
1372	LT1372HVCS8#PBF	473
1372	LT1372CN8#PBF	473
1373	LT1373IS8#PBF	473
1373	LT1373CN8#PBF	473
1373	LT1373HVCS8#PBF	473
1373	LT1373CS8#PBF	473
1374	LT1374HVCS8#PBF	473
1374	DS1374U-33+	254
1374	LT1374IR-5#PBF	473
1374	LT1374CS8#PBF	473
1374	LT1374CS8-5#PBF	473
1375	LT1375CS8#PBF	473
1375	LT1375CS8-5#PBF	473
1375	LT1375CN8	473
1375	LT1375CN8#PBF	473
1375	LT1375CN8-5#PBF	473
1375	LT1375HVCS8#PBF	473
1376	LT1376CN8-5#PBF	473
1376	LT1376IN8#PBF	473
1376	LT1376HVCS#PBF	473
1376	LT1376CS8-5#PBF	473
1376	LT1376IN8	473
1376	LT1376CN8#PBF	473
1376	LT1376CS8#PBF	473
1377	LT1377CS8#PBF	473
1377	MAX1377ATP+	283
1379	MAX1379ATP+	283
138	INA138NA/3KG4	518
138	INA138NA/250	469
138	INA138NA/250G4	333
1380	LTC1380IS#PBF	340
1380	LTC1380CS#PBF	340
1381	HT1381-8SOPLF	528
1384	LTC1384CN#PBF	449
1384	LTC1384CSW#PBF	449
1385	LTC1385CG#PBF	449
1385	ADM1385ARSZ	449
1386	LTC1386CS#PBF	449
1387	LTC1387IG#PBF	449
1387	LTC1387ISW#PBF	449
1387	LTC1387CSW#PBF	449
1387	LTC1387CG#PBF	449
1388	DS1388Z-33+	254
1389	LT1389BCS8-1.25#PBF	537
1389	LT1389BCS8-2.5#PBF	539
1389	LT1389BCS8-5#PBF	540
1389	LT1389BCS8-4.096#PBF	540
139	LM139J	430
139	INA139NA/250G4	518
1391	LTC1391CGN#PBF	340
1391	LTC1391IGN#PBF	340
13916	MBC13916NT1	352
1393	MAX1393ETB+T	291
1394	LT1394CS8#PBF	429
1395	LT1395CS8#PBF	308
1395	LT1395CS5#TRMPBF	332
1395	NCP1395ADR2G	492
1395	NCP1395APG	492
1395	A1395SEHLT-T	439
1396	LT1396CMS8#PBF	314
1396	MAX1396ETB+T	291
1396	NCP1396BDR2G	492
1396	NCP1396ADR2G	492
1397	LT1397CS#PBF	320
1398	LT1398CS#PBF	314
1399	LT1399CS#PBF	318

Index by Type for Semiconductor ICs

	Mftrs. List No.	Page
14	ADC14DS080CISQ/NOPB	286
14	ADC14C105CISQE/NOPB	286
14	TLC14CD	438
14	74HCT1G14GW	61
14	ADC14DC105CISQE	286
14	DS14C232CM	447
14	CLC014AJE	532
14	DS14C232TM/NOPB	447
14	DS14C335MSA/NOPB	447
14	ADC14L020CIVY	291
14	DS14C232CN	447
14	DS14C89AN	446
14	DS14C89AM	446
14	DS14C88N	445
14	DS14C88M	445
14	ADC14L040CIVY	291
140	LM140LAH-12	563
140	QT140-ASG	511
140	OXU140CM - LQCG	415
1400	LTC1400CS8#PBF	283
1400	ADUM1400ARWZ	456
1400	ADUM1400CRWZ	456
1400	ADUM1400BRWZ	456
14000	PIC14000-04/SP	200
14001	MC14001BDG	82
14001	MC14001BCPG	82
14001	MC14001UBDG	82
14007	MC14007UBCPG	82
14007	MC14007UBDG	82
14008	MC14008BCPG	82
1401	MCP1401T-E/OT	461
1401	ADUM1401ARWZ	456
1401	ADUM1401BRWZ	456
1401	ADUM1401CRWZ	456
14011	MC14011BCPG	83
14011	MC14011BDG	83
14012	MC14012BDG	83
14012	MC14012BCPG	83
14013	MC14013BCPG	83
14013	MC14013BDG	83
14014	MC14014BCPG	83
14015	MC14015BDG	83
14015	MC14015BCPG	83
14016	MC14016BCPG	83
14016	MC14016BDG	83
14017	MC14017BDG	83
14017	MC14017BCPG	83
14018	MC14018BCPG	83
14018	MC14018BD	83
1402	DS1402D-DR8+	518
1402	ADUM1402ARWZ	456
1402	ADUM1402BRWZ	456
1402	MCP1402T-E/OT	461
1402	ADUM1402CRWZ	456
14020	MC14020BDG	83
14020	MC14020BCPG	83
14021	MC14021BCPG	83
14023	MC14023BDG	83
14023	MC14023BCPG	83
14024	MC14024BCPG	83
14024	MC14024BDG	83
14025	MC14025BCPG	83
14025	MC14025BDG	83
14027	MC14027BCPG	83
14027	MC14027BDG	83
14028	MC14028BCPG	83
14028	MC14028BDG	83
14029	MC14029BCPG	83
1403	THS1403QPHP	286
1403	MCP1403-E/P	461
1403	MCP1403-E/SN	461
1403	STM1403CSNQ6F	257
1403	LTC1403CMSE#PBF	283
1403	MC1403DG	539
1404	MCP1404-E/SN	461
1404	MCP1404-E/P	461
14040	MC14040BDG	83
14040	MC14040BCPG	83
14042	MC14042BCPG	83
14043	MC14043BCPG	83
14043	MC14043BDG	83
14044	MC14044BCPG	83
14044	MC14044BDG	83
14046	MC14046BDWG	83
14046	MC14046BCPG	83
14049	MC14049UBDG	84
14049	MC14049BCPG	83
14049	MC14049UBCPG	83
1405	MCP1405-E/P	461
1405	MCP1405-E/SN	461
14050	MC14050BCPG	84
14050	MC14050BDG	84
14051	MC14051BCPG	84
14051	MC14051BDG	84
14052	MC14052BCPG	84
14052	MC14052BDG	84
14053	MC14053BCPG	84
14053	MC14053BDG	84
1406	MCP1406-E/P	461
1406	LTC1406CGN#PBF	280
1406	MCP1406-E/SN	461
14060	MC14060BDG	84
14060	MC14060BCPG	84
14066	MC14066BCPG	84
14066	MC14066BDG	84
14067	MC14067BDWG	84
14069	MC14069UBCPG	84
14069	MC14069UBDG	84
1407	MAX1407CAI+	287
1407	MCP1407-E/P	461
1407	LTC1407CMSE-1#PBF	283
1407	LTC1407CMSE#PBF	283
1407	MCP1407-E/SN	461
14070	MC14070BDG	84
14070	MC14070BCPG	84
14071	MC14071BDG	84
14071	MC14071BCPG	84
14073	MC14073BCPG	84
14076	MC14076BCPG	84
14077	MC14077BCPG	84
14077	MC14077BDG	84
1408	ADG1408YRUZ	340
14081	MC14081BDG	85
14081	MC14081BCPG	85
14082	MC14082BCPG	85
14082	MC14082BDG	85
1409	LTC1409CSW#PBF	283
1409	ADG1409YRUZ	340
14093	MC14093BDG	85
14093	MC14093BCPG	85
14094	MC14094BCPG	85
14094	MC14094BDG	85
14099	MC14099BDWG	85
14099	MC14099BCPG	85
141	INA141UAE4	335
141	INA141U	335
141	TMP141AIDGKTG4	523
1410	LTC1410CSW#PBF	283
1410	ADUM1410BRWZ	456
14106	MC14106BDG	85
14106	MC14106BCPG	85
1413	LT1413S8#PBF	314
1413	MC1413DG	528
1413	MC1413PG	528
1415	LTC1415CSW#PBF	283
14155	ADC14155CISQ	286
14174	MC14174BCPG	85
1418	LTC1418ACN#PBF	286
1418	LTC1418CN#PBF	286
14185	DS14185WM	451
1419	LTC1419CG#PBF	286
14196	DS14196WM	451
1421	LTC1421CG#PBF	473
1421	MAX1421ECM+	283
1421	MAX1421ECM+D	291
1422	LTC1422CN8#PBF	473
1422	LTC1422CS8#PBF	473
1424	LT1424CS8-9#PBF	473
1424	LT1424CS8-5#PBF	473
1425	LT1425CS#PBF	473
1425	LT1425IS#PBF	473
1426	TC1426CPA	461
1426	TC1426COA	461
1427	TC1427CPA	461
1428	LTC1428CS8-50#PBF	292
143	INA143UA	333
143	INA143U	333
1430	LTC1430CS8#PBF	474
1430	LTC1430CS#PBF	473
1431	TL1431CD	542
1431	TL1431CLPG4	542
1431	TL1431QD....	542
1431	TL1431IZ	542
1431	TL1431ID	542
1431	LT1431CN8#PBF	442
1433	ADG1433YRUZ	345
1433	LTC1433CGN#PBF	474
1434	ADG1434YRUZ	345
1434	LTC1434CGN#PBF	474
1435	LTC1435CS#PBF	474
1436	LTC1436ACGN#PBF	474
1437	LTC1437ACG#PBF	474
1438	LTC1438CG#PBF	474
1440	LTC1440CS8#PBF	429
1440	LTC1440CN8#PBF	429
1440	LTC1440IS8#PBF	429
1441	EPC1441LC20N	574
1441	EPC1441LC20N	96
1441	EPC1441TC32N	96
1441	LTC1441CN8	430
1441	EPC2LC20N	574
1442	LTC1442CS8#PBF	430
1442	LTC1442IS8#PBF	430
1444	MAX1444EHJ+	281
1444	LTC1444CS#PBF	431
1446	MAX1446EHJ+	281
1446	LTC1446LCS8#PBF	294
1446	LTC1446CN8#PBF	294
1446	LTC1446CS8#PBF	294
1448	LTC1448CS8#PBF	294
1448	LTC1448CN8#PBF	294
14490	MC14490PG	85
14490	MC14490DWG	85
14490	MC14490PG	571
145	INA145UA	333
1450	LTC1450CN#PBF	294
145010	MC145010ED	525
145012	MC145012ED	518
145012	MC145012EG	525
14503	MC14503BCPG	85
14504	MC14504BCPG	85
14504	MC14504BDG	85
1451	TL1451ACPWG4	474
1451	TL1451ACD	474
1451	LTC1451CN8#PBF	294
1451	LTC1451CS8#PBF	294
1451	LTC1451IS8#PBF	294
1451	LTC1451CN8#PBF	571
1451	TL1451AQPWRQ1	474
14511	MC14511BDG	85
14511	MC14511BCPG	85
14512	MC14512BCPG	85
14513	MC14513BCPG.	85
14516	MC14516BDG	85
14516	MC14516BCPG	85
14518	MC14518BDWG	85
14518	MC14518BCPG	85
1452	LT1452CN8#PBF	294
1452	MAX1452AAE+	518
1452	LTC1452CN8#PBF	294
14520	MC14520BCPG	85
14521	MC14521BCPG	85
14526	MC14526BCPG	85
14528	MC14528BDG	85
14528	MC14528BCPG	85
1453	LTC1453CN8#PBF	294
1453	LTC1453CS8#PBF	294
14532	MC14532BDG	85
14532	MC14532BCPG	85
14536	MC14536BDWG	85
14536	MC14536BCPG	85
14538	MC14538BDWG	85
14538	MC14538BCPG	85
14538	MC14538BDG	85
1454	LTC1454CN#PBF	294
1454	LTC1454LCN#PBF	294
1454	TL1454ACD	474
145406	TL145406DWE4	452
145406	MC145406D	452
14541	MC14541BDG	85
14541	MC14541BCPG	85
14543	MC14543BCPG	85
14543	MC14543BDG	85
1455	MC1455P1G	528
14551	MC14551BDG	85
14551	MC14551BCPG	85
14555	MC14555BCPG	85
14555	MC14555BDG	85
14556	MC14556BCPG	85
14557	MC14557BCPG	85
1456	LTC1456CN8#PBF	294
14569	MC14569BCPG	86
14569	MC14569BDWG	86
1457	LT1457S8#PBF	326
14572	MC14572UBCPG	86
1458	KA1458	314
1458	MC1458N	314
1458	LM1458H	314
1458	LTC1458CSW#PBF	294
1458	LM1458N	314
1458	MC1458D	314
1458	LM1458M	314
1458	MC1458P	314
14584	MC14584BDG	86
14584	MC14584BCPG	571
14584	MC14584BCPG	86
14585	MC14585BDG	86
14585	MC14585BCPG	86
146	INA146UA	333
1460	LT1460CCMS8-5#PBF	540
1460	LT1460ACS8-5#PBF	540
1460	LT1460ACS8-2.5#PBF	539
1460	LT1460CCMS8-2.5#PBF	539
1460	LT1460BIS8-5#PBF	540
1460	LT1460DCS8-2.5#PBF	539
1460	LT1460HCS3-3#TRMPBF	539
1460	LT1460FCMS8-2.5#PBF	539
1460	LT1460EIS8-2.5#PBF	539
1460	LT1460EIS8-5#PBF	540
1460	LT1460GIZ-5#PBF	540
1460	LT1460FCMS8-5#PBF	540
1461	LT1461DHS8-5#PBF	540
1461	LT1461CCS8-4#PBF	540
1461	LT1461CCS8-5#PBF	541
1461	LT1461AIS8-5#PBF	540
1461	LT1461CCS8-3.3#PBF	539
1462	LT1462CS8#PBF	326
14628	MCP14628-E/SN	465
1463	LT1463CS#PBF	327
1464	LT1464CS8#PBF	326
1465	LT1465CS#PBF	327
1468	LT1468CN8#PBF	308
1469	LT1469IDF-2#PBF	314
147	MSP430F147IPM	229
147	MAX147BCAP+	282
1470	LTC1470CS8#PBF	474
1472	LTC1472CS#PBF	474
1473	LTC1473CGN#PBF	474
1474	LTC1474CS8-5#PBF	474
1474	LTC1474CS8-3.3#PBF	474
1474	LTC1474CS8#PBF	474
1475	LTC1475CS8-5#PBF	474
1475	LTC1475CS8-3.3#PBF	474
1475	LTC1475CS8#PBF	474
14752	MAX14752EUE+	340
14753	MAX14753EUE+	340
1477	LTC1477CS8#PBF	461
1478	LTC1478CS#PBF	474
1479	LTC1479CG#PBF	474
148	INA148UAG4	333
148	LM148J	318
1480	LTC1480IN8	449
1480	LTC1480IS8#PBF	449
1480	LTC1480CS8#PBF	449
1480	LTC1480CN8#PBF	449
1481	LTC1481CN8#PBF	449
1481	MAX1481EUB+	452
1482	MAX1482CSD+	452
1482	LTC1482CS8#PBF	449
1483	MAX1483CSA+	452
1483	LTC1483CN8#PBF	449
1483	LTC1483CS8#PBF	449
1483	LTC1483IN8#PBF	449
1483	MAX1483CPA+	449
1484	LTC1484CMS8#PBF	449
1484	LTC1484IS8#PBF	449
1484	LTC1484CS8#PBF	449
1485	ADM1485ARZ	347
1485	LTC1485CS8#PBF	450
1485	ADM1485JRZ	449
1485	SP1485ECN-L	454
1485	LMS1485M	450
1486	MAX1486CUB+	450
1487	LTC1487CN8#PBF	450
1487	LTC1487CS8#PBF	450
1487	MAX1487CPA+	452
1487	MAX1487CSA+	452
1487	MAX1487ECPA+	452
1487	LMS1487ECM	450
1487	LMS1487ECNA	450
1487	LMS1487CM	450
1487	LMS1487IM	450
1487	LMS1487EIM	450
1487	ADM1487EARZ	450
1487	MAX1487ECSA+	452
1488	MAX1488ECPD+	446
1488	MAX1488ECSD+	452
1488	MC1488PG	446
1489	MC1489APG	446
1489	MAX1489ECPD+	446
1489	MC1489P	446
1489	MC1489PG	446
1489	MC1489P.	446
1489	MC1489AN	446
1490	LT1490ACDD#PBF	314
1490	LT1490IS8#PBF	314
1490	LT1490ACS8#PBF	314
1490	SP1490ECN-L	454
1490	LT1490ACMS8#PBF	314
1490	LT1490AIN8#PBF	314
1490	LT1490ACN8#PBF	314
1490	LT1490CMS8#PBF	314
1490	LT1490AHMS8#PBF	314
1490	LT1490AIMS8#PBF	314
1491	LT1491CS#PBF	320
1491	SP1491ECN-L	454
1491	LT1491ACN#PBF	320
1491	LT1491ACS#PBF	320
1491	LT1491AIN#PBF	320
1492	LT1492CN8#PBF	314
1494	LT1494IN8#PBF	308
1494	LT1494CMS8#PBF	308
1494	LT1494CS8#PBF	308
1495	LT1495CN8#PBF	314
1495	LT1495CS8#PBF	314
1496	LT1496CS#PBF	320
1496	MC1496PG	354
1497	LT1497CS#PBF	314
1498	LT1498CN8#PBF	314
1498	LT1498CS8#PBF.	314
1498	LT1498IS8#PBF	314
1499	LT1499CS#PBF	320
15	DS15EA101SQ/NOPB	353
15	BH15RB1WGUT-E2	566
15	LF15ABDT	551
15	DS15BA101SD/NOPB	333
15	DS15EA101SQE/NOPB	353
15	DS15BR400TVS/NOPB	331
150	QT150-ASG	511
150	ISO150AUG4	518
150	DS25BR150TSD	354
15000	MAX15000AEUB+	495
15006	MAX15006AASA+	551
15007	MAX15007AASA+	551
1501	TLK1501IRCPG4	354
1501	MAX1501ETE+	498
15018	MAX15018BASA+	465
15018	MAX15018AASA+	465
15019	MAX15019AASA+	465
15019	MAX15019BASA+	465
1502	LTC1502CS8-3.3#PBF	474
15022	MAX15022ATI+	562
15023	MAX15023ETG+	544
1503	LTC1503CMS8-1.8#PBF	474
15034	MAX15034AAUI+	561
1504	LTC1504CS8#PBF	474

Index by Type for Semiconductor ICs

	Mftrs. List No.	Page
1504	TLV1504ID	281
1505	LT1505CG#PBF	474
1506	LT1506CS8-3.3#PBF	474
1506	LT1506CS8#PBF	474
1506	LT1506CR#PBF	474
1506	LT1506IS8#PBF	474
1507	LT1507CS8#PBF	474
1507	LT1507CS8-3.3#PBF	474
1507	LT1507CS8	474
1508	MAX1508ETA+T	498
1509	LT1509CSW#PBF	474
1510	LT1510CS8#PBF	474
1510	LT1510IS#PBF	474
1510	LT1510CS#PBF	474
1510	THAT1510S14-U	531
1510	THAT1512S08-U	531
1510	THAT1512P08-U	531
1510	THAT1510W16-U	531
1510	THAT1510S08-U	531
1510	THAT1510P08-U	531
1510	PCI1510ZGU	419
1511	DS1511W+	254
1511	LT1511CSW#PBF	474
1512	LT1512CS8#PBF	474
1512	LT1512CS8	474
1513	ADAU1513ACPZ	528
1513	LT1513CR	474
1513	LT1513CR#PBF	474
1514	LTC1514CS8-5#PBF	474
1515	LTC1515CS8#PBF	474
1516	LTC1516CS8#PBF	474
1516	TDA1516BQ/N2	533
1517	LTC1517CS5-5#TRMPBF	474
1517	TDA1517/N3	533
1517	TPA1517DWP	533
1519	TDA1519B/N2	533
152	TPA152D	532
152	INA152EA/250	333
1520	PCI1520ZHK	420
1520	PCI1520IPDVEP	420
1521	LT1521CST-3.3#PBF	557
1521	LT1521IS8-3.3#PBF	557
1521	LT1521CS8-5	560
1521	LT1521IS8-5#PBF	560
1521	LT1521CS8	544
1521	LT1521CS8-3.3#PBF	557
1521	LT1521CS8-3#PBF	555
1521	LT1521CST-5#PBF	560
1521	LT1521CS8-5#PBF	560
1521	LT1521CS8#PBF	544
1521	TEA1521P/N2.112	474
1521	LT1521IST-3.3#PBF	557
1521	LT1521IST-5#PBF	560
1522	LTC1522CS8#PBF	474
1522	TEA1522P/N2.112	474
1523	TEA1523P/N2.112	474
1523	NCP1523FCT2G	474
1525	MCP1525-I/TO	539
1525	MCP1525T-I/TT	539
1526	NCP1526MUTXG	474
1528	LT1528CQ#PBF	558
1528	LT1528CT#PBF	558
1529	LT1529CQ#PBF	547
1529	LT1529CQ-5#PBF	562
1529	LT1529CQ-3.3#PBF	558
1529	LT1529CT#PBF	547
1529	LT1529CT-3.3#PBF	558
1529	LT1529CT-5#PBF	562
1529	LT1529CT	547
1530	LTC1530CS8#PBF	474
1531	GS1531CBE2	357
1533	LT1533CS#PBF	474
1534	LT1534CS#PBF	474
1534	LT1534CS-1#PBF	474
1535	LTC1535ISW#PBF	347
1535	ISL1535IVEZ	333
1535	ISL1535IRZ	333
1535	LTC1535CSW#PBF	347
1538	MAX1538ETI+	474
1539	ISL1539IVEZ	333
1539	ISL1539IRZ	333
1540	TS1540CP18 R0	567
1540	FAN1540BMPX	558
1540	LTC1540IS8#PBF	429
1540	LTC1540CMS8#PBF	429
1540	TS1540CP33 R0	567
1540	TS1540CP50 R0	567
1541	MCP1541T-I/TT	540
1541	MCP1541-I/TO	540
1541	TLC1541IN	281
1543	TLC1543INE4	281
1543	TLV1543CDWG4	281
1543	TLC1543CN	281
1543	TLC1543CDWG4	281
1549	TLC1549IPE4	281
1549	TLC1549CD	281
1549	TLC1549CP	281
155	INA155UG4	335
155	MSP430F155IPM	229
155	ADC14V155CISQ	286
155	INA155UA	335
1550	LTC1550LCGN#PBF	474
1550	NCP1550SN18T1G	492
1551	MAX1551EZK+T	498

	Mftrs. List No.	Page
1553	LTC1553CSW#PBF	474
1555	MAX1555EZK+T	498
1555	GO1555IXTE3	357
1558	LM1558H	314
1559	GS1559CBE2	357
1560	TDA1560Q/N4	533
1562	NCP1562BDR2G	493
1562	NCP1562BDBR2G	493
1562	NCP1562ADR2G	493
1562	NCP1562ADBR2G	492
1562	LTC1562IG-2#PBF	438
1562	LTC1562CG-2#PBF	438
1563	LTC1563-2IGN#PBF	438
1563	LTC1563-3CGN#PBF	438
1563	LTC1563-2CGN#PBF	438
1563	LTC1563-3IGN#PBF	438
1564	LTC1564IG#PBF	438
1564	LTC1564CG#PBF	438
1565	FSCQ1565RTYDTU	474
1568	LT1568CGN#PBF	438
1568	LT1568IGN#PBF	438
1569	LTC1569IS8-7#PBF	438
1569	LTC1569CS8-7#PBF	438
157	INA157U.	333
1571	LT1571EGN-1#PBF	474
1571	LT1571EGN-2#PBF	474
1571	LT1571EGN-5#PBF	474
1572	LM1572MTC-ADJ	474
1572	LT1572CS#PBF	474
1573	LT1573CS8-2.5#PBF	554
1573	LT1573CS8#PBF	548
1574	LTC1574CS-3.3#PBF	474
1574	LTC1574CS#PBF	474
1575	LT1575CS8#PBF	543
1576	LT1576CS8#PBF	474
1576	LT1576CS8-5#PBF	474
1578	LT1578CS8#PBF	474
1579	LT1579CS#PBF	544
1579	LT1579CS-5#PBF	560
1579	LT1579CS8#PBF	544
158	LM158JG	312
158	LM158H	312
1580	LT1580IT#PBF	548
1580	AD1580BRTZ-R2	537
1580	SPX1580T5-L	548
1580	SPX1580T5-L-2-5	554
1581	LT1581CT7#PBF	548
1582	AD1582ARTZ-R2	539
1584	LT1584CT-3.3#PBF	558
1584	SPX1584AU-L	548
1584	LT1584CT#PBF	548
1585	LT1585CM#PBF	474
1585	LMS1585AIS-3.3/NOPB	558
1585	LT1585CT#PBF	548
1585	LT1585CT-3.3#PBF	559
1585	LT1585CM-3.3#PBF	559
1585	LMS1585AIT-3.3/NOPB	558
1585	SPX1585AU-L	548
1585	SPX1585AT-L	548
1586	MAX1586CETM+	474
1587	LMS1587IS-3.3/NOPB	558
1587	LT1587CM#PBF	548
1587	LT1587CT-3.3#PBF	474
1587	LT1587CM-3.3#PBF	559
1587	LT1587CT-3.3	474
1587	LT1587CT#PBF	474
1587	SPX1587AT-L	547
1587	LMS1587IS-ADJ/NOPB	547
1587	LMS1587CT-3.3/NOPB	558
1590	LTC1590CS#PBF	294
1590	LTC1590CN#PBF	294
1592	LTC1592ACG#PBF	297
1592	LTC1592BIG#PBF	297
1592	LTC1592BCG#PBF	297
1592	ADAU1592ASVZ	528
1592	LTC1592AIG#PBF	297
1594	LTC1594CS	283
1594	LTC1594CS#PBF	283
1594	LTC1594LCS#PBF	294
1595	MAX1595EUA50+	559
1597	LTC1597-1BCG#PBF	297
1597	LTC1597BCN#PBF	297
1597	LTC1597-1BCN#PBF	297
1598	LTC1598LCG#PBF	283
16	PIC16C56A-20/P	201
16	PIC16C55-XTI/P	201
16	PIC16C55-XT/P	201
16	PIC16C54C-20I/SO	201
16	PIC16C62B-20I/SP	201
16	PIC16C63A-20I/SO	201
16	PIC16F874-20I/L	203
16	PIC16F874-20/P	203
16	PIC16C54-XT/SO	201
16	PIC16C54A-04/P	201
16	PIC16C54A-20/P	201
16	PIC16F84-04/P	203
16	PIC16C77-20/L	203
16	PIC16C77-04I/P	203
16	PIC16C74B-20/L	202
16	PIC16C74A-20/P	202
16	PIC16C55-HS/P	201
16	PIC16C74A-10/L	202
16	PIC16C74A-04I/P	202
16	PIC16C74A-04/L	202

	Mftrs. List No.	Page
16	PIC16C73B-20/SO	202
16	PIC16C73A-20/SP	202
16	PIC16C73A-20/SO	202
16	PIC16C73A-04/SP	202
16	PIC16C73A-04/SO	202
16	PIC16C72A-20/SP	202
16	PIC16F84-04/SO	203
16	PIC16F84-10/SO	203
16	PIC16C67/JW	202
16	PIC16C65A-04/P	202
16	PIC16C64A-10/P	201
16	PIC16C64A-04I/P	201
16	PIC16C64A-04/P	201
16	PIC16C63-20I/SP	201
16	PIC16LC711-04I/SO	203
16	PIC16C621-04/P	202
16	PIC16F873-04I/SO	203
16	PIC16F874-20I/PQ	203
16	PIC16C620-04/P	202
16	PIC16C57-RC/P	201
16	PIC16F54-I/SO	188
16	PIC16C711-20/SO	203
16	PIC16C66-20I/SP	202
16	PIC16F874-20I/PT	203
16	PIC16C56-HS/P	201
16	PIC16C558-20/SO	201
16	PIC16C558-20/P	201
16	PIC16C558-04/P	201
16	PIC16C782-I/P	203
16	PIC16F648A-I/SS	189
16	PIC16F874-20I/P	203
16	PIC16C73B-20I/SS	202
16	PIC16C72A-04/SP	202
16	PIC16C73B-04/SO	202
16	PIC16C716-04/P	203
16	PIC16C717/SO	203
16	PIC16C717-I/P	203
16	PIC16C770-I/P	203
16	PIC16C554-04I/P	201
16	PIC16C554-20/P	201
16	PIC16F874-04/PQ	203
16	PIC16C716/JW	203
16	PIC16LF73-I/SP	190
16	PIC16C54-LP/SO	201
16	PIC16C54-HS/P	201
16	PIC16LF74-I/P	191
16	PIC16F873-20I/SP	203
16	PIC16C710-20I/P	203
16	PIC16C71-20I/P	202
16	PIC16F873-20I/SO	203
16	PIC16C71-04/P	202
16	PIC16F876-04/SP	204
16	PIC16F77-I/P	191
16	PIC16F77-I/L	191
16	PIC16F76-I/SP	190
16	PIC16F76-I/SO	190
16	PIC16F74-I/P	191
16	PIC16F73-I/SS	190
16	PIC16F73-I/SP	190
16	PIC16C63A-20I/SP	201
16	PIC16F73-I/SO	190
16	PIC16F737-I/SP	190
16	PIC16F72-I/SS	190
16	PIC16F72-I/SP	190
16	PIC16F72-I/SO	190
16	PIC16F716-I/SS	189
16	PIC16F716-I/SO	189
16	PIC16F716-I/P	189
16	PIC16F688-I/ST	189
16	PIC16F688-I/SL	189
16	PIC16F688-I/P...	189
16	PIC16C65B-04/L	202
16	PIC16C65B-04/P	202
16	PIC16C65B-20I/L	202
16	PIC16C65B-20I/P	202
16	PIC16C66-10/SO	202
16	PIC16F676-I/ST	189
16	PIC16F676-I/SL	189
16	PIC16F871-I/P	191
16	PIC16F871-I/L	191
16	PIC16C621A-20/P	202
16	PIC16C622A-04/SO	202
16	PIC16F870-I/SS	190
16	PIC16F870-I/SP	190
16	PIC16F870-I/SO	190
16	PIC16F84A-20I/P	189
16	PIC16F84A-20/SO	189
16	PIC16C622A-20/P	202
16	PIC16F84A-20/P	189
16	PIC16F84A-04I/SS	189
16	PIC16F84A-04I/SO	189
16	PIC16F84A-04I/P	189
16	PIC16F84A-04/SO	189
16	PIC16C62B-04/SP	201
16	PIC16C62B-20I/SO	201
16	PIC16F84A-04/P	189
16	PIC16F819-I/SS	189
16	PIC16F819-I/SO	189
16	PIC16F819-I/P	189
16	PIC16C63A-04/SO	201
16	PIC16F819-I/ML	189
16	PIC16F818-I/SO	189
16	PIC16F818-I/P	189
16	PIC16F690-I/P	572

	Mftrs. List No.	Page
16	PIC16F77-I/PT	191
16	PIC16F627A-I/SS	189
16	PIC16F627A-I/SO	189
16	PIC16F627A-I/P	189
16	PIC16C72A-04I/SO	202
16	PIC16C72A-20I/SP	202
16	PIC16C73B-20I/SP	202
16	PIC16C745-I/SO	203
16	PIC16C745-I/SP	203
16	PIC16F627A-I/ML	189
16	PIC16F627-20I/P	202
16	PIC16F627-04I/SS	202
16	PIC16F627-04I/SO	202
16	PIC16C74B-04/L	202
16	PIC16C74B-04/P	202
16	PIC16C74A-04I/L	202
16	PIC16C74B-20I/L	203
16	PIC16C76-04/SP	203
16	PIC16C765-I/P	203
16	PIC16F627-04/P	202
16	PIC16F57-I/P	188
16	PIC16C926-I/L	204
16	PIC16C77-04/L	203
16	PIC16C925-I/L	204
16	PIC16C774-I/P	203
16	PIC16C773-I/SP	203
16	PIC16C77-04/P	203
16	PIC16C773-I/SO	203
16	PIC16F676-I/P	189
16	PIC16C66-20/SP	202
16	PIC16C67-04/L	202
16	PIC16C67-04/P	202
16	PIC16C67-20/L	202
16	PIC16C711-04/P	203
16	PIC16C711-04/SO	203
16	PIC16C711-04I/P	203
16	PIC16F648A-I/SO	189
16	PIC16F648A-I/P	189
16	PIC16C711-20/P	203
16	PIC16C712-04/P	203
16	PIC16F630-I/ST	189
16	PIC16F630-I/SL	189
16	PIC16F630-I/P	189
16	PIC16F628A-I/SS	189
16	PIC16F628A-I/SO	189
16	PIC16F628A-I/P	189
16	PIC16F628-20I/SO	202
16	PIC16F628-20I/P	202
16	PIC16F628-20/P	202
16	PIC16F628-04I/P	202
16	PIC16F628-04/SO	202
16	PIC16F628-04/P	202
16	PIC16C74A-20/L	202
16	PIC16C715-20I/P	203
16	PIC16C717-I/SO	203
16	PIC16LF872-I/SO	190
16	PIC16LF871-I/PT	191
16	PIC16LF871-I/L	191
16	PIC16LF84A-04I/SS	189
16	PIC16LF84A-04I/P	189
16	PIC16LF77-I/P	191
16	PIC16LF76-I/SP	191
16	PIC16LF73-I/SO	190
16	PIC16F767-I/SO	191
16	PIC16LF628-04I/SS	202
16	PIC16LF628-04I/SO	202
16	PIC16LF628-04I/P	202
16	PIC16LC716-04I/P	203
16	PIC16LC711-04I/P	203
16	PIC16LC711-04/P	203
16	PIC16LC58B-04I/P	201
16	GAL16V8D25LPN	87
16	GAL16V8D15LPN	87
16	GAL16V8D-15QJN	87
16	GAL16V8D-25QJN	87
16	GAL16V8D-25QPN	87
16	GAL16V8D-7LPN	87
16	GAL16V8D-7LJN	87
16	PIC16HV540-04I/SO	201
16	PIC16HV540-04/P	201
16	GAL16V8D-15LJN	87
16	PIC16F88-I/SO	189
16	PIC16F876-04I/SO	204
16	PIC16F876-20/SO	204
16	PIC16F876-20/SP	204
16	TL16C550CIFN	353
16	TL16C750IPM	353
16	PIC16F877-04/P	204
16	PIC16F877-04/PT	204
16	PIC16F877-20/L	204
16	PIC16F877-20/P	204
16	PIC16F877-20I/L	204
16	PIC16LF877A-I/PT	191
16	PIC16LC505-04/SL	201
16	PIC16LF84-04/P	203
16	PIC16LF877A-I/P	191
16	PIC16LF877A-I/L	191
16	PIC16LF84-04I/P	203
16	PIC16LF876A-I/SS	191
16	PIC16LF84-04I/SO	203
16	PIC16LF876A-I/SP	191
16	PIC16LF876A-I/SO	191
16	PIC16LF874A-I/PT	191
16	PIC16LF874A-I/L	191

Index by Type for Semiconductor ICs

	Mftrs. List No.	Page
16	PIC16LF873A-I/SS	190
16	PIC16LF873A-I/SP	190
16	PIC16LF873A-I/SO	190
16	PIC16LF872-I/SS	190
16	PIC16LF872-I/SP	190
16	PIC16C58B-04/P	201
16	PIC16F87-I/P	189
16	PIC16C58B-20I/P	201
16	PIC16C620A-04/SO	202
16	PIC16C620A-04I/P	202
16	PIC16C620A-04I/SO	202
16	PIC16C621A-04/P	202
16	PIC16F877A-I/PT	191
16	PIC16F877A-I/P	191
16	PIC16F877A-I/L	191
16	PIC16C621A-04I/P	202
16	PIC16F876A-I/SS	191
16	PIC16F876A-I/SP	191
16	PIC16F876A-I/SO	191
16	PIC16F874A-I/PT	191
16	PIC16F874A-I/P	191
16	PIC16F874A-I/L	191
16	GAL16V8Z-15QP	87
16	PIC16F874-04/P	203
16	PIC16F873A-I/SS	190
16	PIC16F873A-I/SP	190
16	PIC16C74A-10/P	202
16	PIC16F873A-I/SO	190
16	PIC16C621A-04I/SO	202
16	PIC16F872-I/SP	190
16	PIC16F872-I/SO	190
16	PIC16F871-I/PT	191
16	GAL16LV8D-5LJN	87
16	GAL16V8D-15QPN	87
16	PIC16C505-04/P	201
16	PIC16C505-04/SL	201
16	PIC16C505-20I/P	201
16	PIC16C505-20I/SL	201
16	PIC16F88-I/P	189
16	PIC16F88-I/ML	189
16	PIC16C54C-04/P	201
16	PIC16F87-I/SS	189
16	PIC16C54C-20/P	201
16	PIC16C55A-04/SO	201
16	PIC16C55A-20I/P	201
16	PIC16F685-I/P	190
16	PIC16F685-I/SS	190
16	PIC16F687-I/P	189
16	PIC16F687-I/SS	190
16	PIC16F689-I/P	190
16	PIC16F689-I/SS	190
16	PIC16F690-I/P	190
16	PIC16F690-I/SS	190
16	PIC16C56A-04I/P	201
16	PIC16C57C-04/SO	201
16	PIC16C57C-20/P	201
16	PIC16C57C-20/SO	201
16	PIC16C57C-20/SP	201
16	PIC16F87-I/SO	189
16	PIC16C554-04/SO	201
16	PIC16LC711-04/SO	203
16	PIC16C711-20I/P	203
16	PIC16C715-04/P	203
16	PIC16C715-20/P	203
16	PIC16C715-20I/SO	203
16	PIC16F777-I/PT	191
16	PIC16F916-I/SS	190
16	PIC16F946-I/PT	191
16	PIC16HV785-I/P	190
16	PIC16HV785-I/SO	190
16	PIC16HV785-I/SS	190
16	PIC16LF88-I/P	189
16	PIC16LF88-I/SO	189
16	PIC16F84-10I/P	203
16	PIC16C57-XT/SP	201
16	PIC16F873-04/SO	203
16	SC16C2550BIA44	417
16	PIC16F84-10/P	203
16	ST16C2550CQ48-F	575
16	ST16C550CQ48-F	575
16	PIC16F83-04/P	203
16	PIC16CE625-04/P	202
16	PIC16F873-04/SP	203
16	PIC16F873-20/SO	203
16	ATMEGA16-16AU	137
16	ATMEGA16-16PU	137
16	PIC16C63A-04/SP	201
16	PIC16C717/P	203
16	PIC16C770/P	203
16	PIC16C771/P	203
16	PIC16LC771-I/SS	203
16	PIC16LF84A-04I/SO	189
16	PIC16F627-04/SO	202
16	PIC16F627-04I/P	202
16	PIC16F872-I/SS	190
16	PIC16F74-I/L	191
16	PIC16F74-I/PT	191
16	PIC16F684-I/ML	189
16	PIC16F685-I/SO	190
16	PIC16F687-I/SO	190
16	PIC16F689-I/SO	190
16	PIC16F737-I/SO	190
16	PIC16LC58B-04I/SO	201
16	PIC16F73-I/ML	190

	Mftrs. List No.	Page
16	PIC16F76-I/SS	190
16	PIC16LF871-I/P	191
16	PIC16F628A-I/ML	189
16	PIC16F818-I/SS	189
16	PIC16F88-I/SS	189
16	PIC16F747-I/P	191
16	PIC16C54A-04/SO	201
16	PIC16F767-I/SP	191
16	PIC16C57-HS/P	201
16	PIC16C74A-04/P	202
16	PIC16F877-04/PT	575
16	PIC16F88-I/P	572
16	PIC16F876-04I/SP	204
16	PIC16F914-I/PT	575
16	PIC16F917-I/PT	575
16	EPCS16SI8N	574
16	PIC16F877A-I/P	572
16	PIC16F877-20I/P	572
16	PIC16F877-20/P	572
16	PIC16F877-04/P	572
16	PIC16F876A-I/SP	572
16	PIC16F876-20I/SP	572
16	PIC16F876-20/SP	572
16	PIC16F876-04/SP	572
16	PIC16F874A-I/P	572
16	PIC16F874-20I/P	572
16	PIC16F874-04/P	572
16	PIC16F873A-I/SP	572
16	PIC16F873-20/SP	572
16	PIC16F876-20I/SO	204
16	SC16C550BIB48	575
16	PIC16F873-04/SP	572
16	SC16C654BIB64	575
16	PIC16F876-20I/SP	204
16	PIC16F877-04/L	204
16	ATMEGA16-16AU	573
16	PIC16F872-I/SP	572
16	PIC16F870-I/SP	572
16	IRAMX16UP60A-2	506
16	IRAMX16UP60A	506
16	PIC16F57-I/SP	188
16	ATMEGA16L-8AU	137
16	ATMEGA16L-8PU	137
16	PIC16F873-20/SP	203
16	PIC16F874-04/L	203
16	PIC16C57-XT/SO	201
16	AD7680BRMZ	287
16	DS16EV5110ASQE	532
16	PIC16C57-XT/P	201
16	PIC16C57-RC/SO	201
16	DS16EV5110SQ/NOPB	532
16	PIC16F785-I/P	190
16	PIC16C56-XT/P	201
16	PIC16F785-I/SO	190
16	PIC16F785-I/SS	190
16	TL16C550CIPTG4	417
16	TL16C550CPTG4	417
16	TL16C752BPTG4	417
16	PIC16F877A-BL	175
16	PIC16F874-04/PT	203
16	PIC16F874-04I/P	203
16	PIC16F874-20/L	203
16	PIC16LC58B-04I/P	572
16	PIC16F874-20I/PT	575
16	PIC16CE624-04/P	202
16	PIC16F876-04/SO	204
16	PIC16F628A-I/SO	572
16	PIC16F676-I/SL	572
16	PIC16F688-I/SL	572
16	PIC16F690-I/SS	572
16	PIC16F737-I/SP	572
16	SC16C754BIB80	417
16	PIC16F73-I/SO	572
16	PIC16F74-I/P	572
16	PIC16F76-I/SP	572
16	PIC16C710-04/P	203
16	PIC16F819-I/SO	572
16	PIC16F84-04/SO	572
16	PIC16F84-10/SO	572
16	PIC16F84A-20/P	572
16	PIC16F870-I/SO	572
16	PIC16F873A-I/SO	572
16	PIC16F873A-I/SS	572
16	PIC16F874A-I/L	572
16	PIC16F876-04/SO	572
16	PIC16F876-20/SO	572
16	PIC16F876-20I/SO	572
16	PIC16F876A-I/SO	572
16	PIC16F876A-I/SS	572
16	PIC16F877-04/L	572
16	PIC16F877A-I/L	572
16	PIC16F88-I/SO	572
16	PIC16C71-20/SO	202
16	PIC16C71-04I/P	202
16	SC16C654BIB64	416
16	SC16C654BIA68	416
16	SC16C652BIB48	416
16	SC16C650BIN40	416
16	SC16C650BIB48	416
16	SC16C650BIA44	416
16	SC16C654DBIB64	416
16	SC16C554DIA68	416
16	SC16C554BIB80	416
16	SC16C550IA44	416

	Mftrs. List No.	Page
16	SC16C550BIN40	416
16	SC16C550BIB48	416
16	SC16C550BIA44	416
16	PIC16C72-04/SP	202
16	TL16C754BFN	416
16	SC16C750BIA44	416
16	SC16C750BIB64	417
16	SC16C2552BIA44	417
16	SC16C2550BIN40	417
16	PIC16C711/JW	203
16	PIC16C73A-04I/SP	202
16	PIC16C73A-10/SP	202
16	PIC16F74-I/PT	575
16	SC16C752BIB48	417
16	SC16C754BIA68	417
16	PIC16C710-20/P	203
16	PIC16F627A-I/P	572
16	PIC16F627A-I/SO	572
16	PIC16F631-I/P	189
16	PIC16F631-I/SO	189
16	PIC16F631-I/SS	189
16	IRAMX16UP60B	506
16	PIC16F677-I/ML	189
16	PIC16F677-I/P	189
16	PIC16F677-I/SO	189
16	PIC16F677-I/SS	189
16	PIC16C54C-04/SO	201
16	PIC16C57C-20I/P	201
16	PIC16C54C-20I/SS	201
16	PIC16C73B-20I/SO	202
16	PIC16C74B-20I/P	203
16	PIC16F627-20I/SO	202
16	PIC16F628-20I/SS	202
16	PIC16F84A-20I/SO	189
16	PIC16F84A-20I/SS	189
16	PIC16C55A-20/SP	201
16	PIC16C57C-04/P	201
16	PIC16C57C-04/SP	201
16	PIC16C57C-04I/P	201
16	PIC16C73B-04/SP	202
16	PIC16C73B-20/SP	202
16	PIC16F873-04I/SP	203
16	PIC16LC54C-04/P	201
16	PIC16C54C-04I/P	201
16	PIC16C54C-04I/SO	201
16	PIC16C55A-04/P	201
16	PIC16C73B-04I/SO	202
16	PIC16C73B-04I/SP	202
16	PIC16C65A-04/L	202
16	PIC16C64A-20/P	201
16	PIC16C64A-04/L	201
16	PIC16C63-20/SP	201
16	PIC16C63-10/SP	201
16	PIC16C63-04I/SO	201
16	PIC16C63-04/SP	201
16	PIC16C63-04/SO	201
16	STP16CPS05MTR	441
16	STP16CP05TTR	441
16	IRAMX16UP60B-2	459
16	PIC16C62A-04I/SP	201
16	PIC16C622A-04I/P	202
16	PIC16C622A-04/P	202
16	PIC16C57C/JW	201
16	SC16C2550BIB48	417
16	PIC16C56A-04/P	201
16	PIC16C620A-04/P	202
16	PIC16C620A-20/P	202
16	PIC16F506-I/P	188
16	PIC16F506-I/SL	188
16	IRAMY20UP60B	506
16	IRAMX20UP60A	506
16	PIC16F610-I/SL	189
16	PIC16F616-I/P	189
16	PIC16F616-I/SL	189
16	ST16C550CQ48-F	416
16	ST16C554DCJ68-F	416
16	PIC16F84-10I/P	572
16	PIC16F84-04/P	572
16	PIC16F819-I/P	572
16	PIC16F818-I/P	572
16	PIC16F73-I/SP	572
16	PIC16F630-I/P	572
16	PIC16F628A-I/P	572
16	PIC16F628-04/P	572
16	PIC16C774-I/P	572
16	PIC16C74B-04/P	572
16	PIC16C74A-10/P	572
16	ST16C450CP40	417
16	PIC16C745-I/SP	572
16	PIC16C711-04/P	572
16	PIC16C71-04/P	572
16	PIC16C65B-04/P	572
16	PIC16C77-20/P	203
16	PIC16C66-04/SO	202
16	PIC16C923-04/L	204
16	STP16CPS05B1R	442
16	PIC16C54A-04I/P	201
16	PIC16F636-I/SL	189
16	PIC16C66-10/SP	202
16	PIC16C66-10I/SP	202
16	PIC16C765/JW	203
16	PIC16LF874A-I/P	191
16	PIC16F505-I/SL	188
16	PIC16LF76-I/SO	191

	Mftrs. List No.	Page
16	PIC16C54C-20I/P	201
16	PIC16C54-LP/P	201
16	PIC16C554-04/P	201
16	PIC16C55-XT/SO	201
16	PIC16C55-RC/P	201
16	PIC16C54-XTI/P	201
16	PIC16C54-XT/P	201
16	ST16C2550CQ48-F	416
16	PIC16F914-I/P	191
16	TL16C554FN	417
16	PIC16LF84A-04/SS	189
16	PIC16F913-I/SS	190
16	PIC16F87-I/ML	189
16	PIC16F913-I/SP	190
16	PIC16F505-I/P	188
16	GAL16V8D-10LPN	87
16	PIC16C74A-20I/P	202
16	PIC16C74B-04I/P	202
16	PIC16C74B-20/P	202
16	PIC16C74B/JW	203
16	PIC16C76-20/SP	203
16	PIC16C63A-20/SP	201
16	PIC16F913-I/SO	190
16	PIC16C711-04I/SO	203
16	PIC16F690-I/SO	190
16	PIC16C773/SP	203
16	PIC16F690-I/ML	190
16	PIC16C64A-04/P	572
16	PIC16C57-XT/P	572
16	PIC16C55-XT/P	572
16	PIC16C54C-04/P	572
16	PIC16C54A-04/P	572
16	PIC16C76-20I/SP	203
16	EPCS16SI16N	96
16	PIC16C54-RC/P	201
16	PIC16C711-20I/P	572
16	TL16C550CFN	353
16	PIC16F59-I/P	188
16	PIC16F54-I/PG	188
16	EPCS16SI8N	96
16	PIC16LF818-I/SO	189
16	PIC16LF628A-I/SS	189
16	PIC16F917-I/PT	191
16	PIC16F917-I/P	191
16	PIC16F916-I/SP	190
16	PIC16F916-I/SO	190
16	PIC16F914-I/PT	191
16	PIC16C77-20I/P	203
16	TL16C752BPTG4	575
16	PIC16F877-20I/PQ	204
16	PIC16F77-I/PT	575
16	PIC16F871-I/PT	575
16	PIC16C71-20/P	202
16	ATMEGA16L-8MU	137
16	PIC16C505-04I/SL	201
16	PIC16C771-I/SO	203
16	PIC16C771-I/P	203
16	PIC16C56-RC/P	201
16	ATMEGA16-16PU	570
16	PIC16F874-04/PT	575
16	PIC16F84A-04/P	572
16	CLC016AJQ.	532
16	CLC016MTC	532
16	PIC16LC71-04/P	202
16	PIC16LF877A-I/PT	575
16	PIC16LF871-I/PT	575
16	PIC16F877-20I/PT	204
16	PIC16F877A-I/PT	575
16	PIC16F877-20I/PT	575
16	PIC16F874A-I/PT	575
16	PIC16F877-04/PQ	575
16	PIC16F877-20/PT	575
16	PIC16F877-20I/PQ	575
16	PIC16F84A-20I/P	572
16	PIC16F877-04/PQ	204
16	ATMEGA16-16MU	137
16	PIC16C55A-04/P	572
16	STP16CP05B1R	442
16	EPC16UC88N	96
16	PIC16C66-04/SP	202
16	ATMEGA16L-8AU	573
16	PIC16F877-20/PT	204
16	PIC16F877-20I/P	204
16	TL16C550CIPTG4	575
16	TL16C550CPTG4	575
160	SMT-160-30-18	526
160	SMT-160-30-92	526
160	SMT-160-30-220	526
1600	ZXLB1600X10	439
16003	ADIS16003CCCZ	518
1601	BD1601MUV-E2	445
1601	MCP1601EV	496
1601	MCP1601-I/MS	474
1601	ADS1601IPFBT	287
1601	ZXLD1601H6	474
1602	ADS1602IPFBT	287
1602	DS1602+	253
1602	MAX1602EEE+	518
1602	DS1602S+	253
1603	MCP1603T-330I/OS	557
1603	MCP1603EV	474
1603	BD1603NUV-E2	445
1604	BD1604MVV-E2	445
1604	BD1604MUV-E2	445

Index by Type for Semiconductor ICs

	Mftrs. List No.	Page
1605	ADS1605IPAPT..	287
1605	LTC1605-1CN#PBF	297
1605	LTC1605CN#PBF	287
1606	MAX1606EUA+	544
1606	ADS1606IPAPT.	287
1606	NCP1606BPG	493
1606	THAT1606Q16-U	334
1606	BD1606MVV-E2	445
1606	NCP1606APG	493
1606	NCP1606BDR2G	493
16060	MAX16060ETE+	259
16061	MAX16061ETP+	259
16062	MAX16062ATG+	259
1608	FM1608-120-SG	108
1608	LTC1608CG#PBF	287
161	SAB-C161S-LM 3V	358
161	ADC161S626CIMM	287
1610	ADS1610IPAPT.	287
1610	MSP430F1610IPM	230
1610	LT1610CS8#PBF	474
1611	LT1611CS5#TRMPBF	474
1611	ADP1611ARMZ-R7	474
1612	LT1612ES8#PBF	474
1612	MCP1612-ADJI/MS	474
1613	LT1613CS5#TRMPBF	474
1614	LT1614CS8#PBF	474
1614	MAX1614EUA+	461
1615	LT1615ES5-1#TRMPBF	474
1615	LT1615IS5#TRMPBF	474
1615	ZXLD1615ET5	474
1615	MAX1615EUK+	474
1615	LT1615ES5#TRMPBF	474
1616	LT1616ES6#TRMPBF	474
1617	MAX1617MEE+	524
1617	LT1617ES5#TRMPBF	474
1618	LT1618EMS#PBF	474
1619	LT1619ES8#PBF	461
1619	LT1619EMS8#PBF	461
162	ATMEGA162-16AU	573
162	ATMEGA162V-8AU	573
162	ATMEGA162V-8PU	137
162	OP162GSZ	304
162	ATMEGA162V-8AU	137
162	ATMEGA162-16PU	137
162	ATMEGA162-16AU	137
1620	DS1620S+	524
1620	DS1620+	524
16201	ADIS16201CCCZ	518
1621	DS1621+	524
1621	LT1621CGN#PBF	308
1621	ADP1621ARMZ	474
1621	Z8F1621AN020SG	164
1621	HT1621B-48DIPLF	439
1621	DS1621S+	524
1622	LTC1622CS8#PBF	474
1624	DS1624S+	524
1624	LTC1624IS8#PBF	474
1624	LTC1624CS8#PBF	474
1625	ADS1625IPAPT.	289
1625	LTC1625CS#PBF	474
1626	MAX1626ESA+	474
1626	DS1626S+	524
1627	LTC1627CS8#PBF	475
1627	MAX1627ESA+	492
1628	LTC1628CG#PBF	475
1629	LTC1629CG#PBF	475
1629	DS1629S+	524
163	INA163UAE4	335
1630	MCP1630RD-NMC1	475
1630	LT1630CS8#PBF	314
1630	MCP1630-E/MS	475
1630	LT1630CN8#PBF	314
163015	DM163015	425
163027	DM163027-4	387
1631	DS1631Z+	525
1631	DS1631U+	525
1632	OPA1632DGN	333
1632	OPA1632D	333
1632	LT1632CS8#PBF	314
1632	LT1632CN8#PBF	314
1634	LT1634BCS8-1.25#PBF	537
1634	LT1634BCS8-5#PBF	541
1634	LT1634BCS8-4.096#PBF	540
1634	LT1634BCS8-2.5#PBF	539
1635	LT1635CS8#PBF	308
1636	LT1636CMS8#PBF	308
1636	LT1636IS8#PBF	308
1636	LT1636CS8#PBF	308
1637	LT1637CS8#PBF	308
1637	LT1637CMS8#PBF	308
1638	LT1638HS8#PBF	314
1638	LT1638CMS8#PBF	314
1638	LT1638CS8#PBF	314
1639	LT1639IS#PBF	320
1639	LT1639CS#PBF	320
164	ATMEGA164P-20AU	137
164	ATMEGA164P-20PU	137
164	ATMEGA164PV-10AU	138
164	SAF-XC164LM-8F40F	222
164	ATMEGA164PV-10PU	138
164	SAF-XC164CM-8F40F	222
1640	LT1640LIS8#PBF	461
1640	LT1640LCS8#PBF	475
1640	LT1640ALCS8#PBF	475
1640	MAX1640EEE+	475
1641	LT1641-2CS8#PBF	461
1641	LT1641-1CS8#PBF	475
164121	DV164121	167
1642	DS1642-100+	107
1643	LTC1643AHCGN#PBF	475
1643	DS1643-100+	107
1644	DS1644-120+	107
1644	MAX1644EAE+	475
1644	LTC1644CGN#PBF	475
1645	LTC1645CS8#PBF	475
1646	LTC1646CGN#PBF	475
1646	THAT1646P08-U	334
1646	THAT1646S08-U	334
1646	THAT1646W16-U	334
1647	DS1647-120+	107
1647	LTC1647-1CS8#PBF	475
1649	MAX1649ESA+	492
1649	LTC1649CS#PBF	475
165	L165V	304
165	SAF-C165-LF	222
165	FSDL0165RN	469
165	SAF-C165-L25F	222
165	ATMEGA165PV-8AU	138
165	L165V	570
165	L165H	304
165	FSQ0165RL	469
165	ATMEGA165P-16AU	138
165	FSQ0165RN	469
1650	LTC1650CS#PBF	297
1650	MCP1650DM-LED1	440
1650	MCP1650R-E/MS	475
1651	MCP1651R-E/MS	475
1652	MCP1652R-E/MS	475
1653	MAX1653ESE+	492
1653	MCP1653R-E/UN	475
1653	MAX1653EEE+	492
1655	LTC1655CS8#PBF	297
1655	MAX1655EEE+	492
16550	PC16550DN	417
16552	PC16552DV	416
1657	LTC1657CN#PBF	297
1658	LTC1658CS8#PBF	297
1658	LTC1658CMS8#PBF	297
1659	LTC1659CMS8#PBF	294
1660	LTC1660IGN#PBF	293
1660	LTC1660CGN#PBF	293
1660	LTC1660CN#PBF	293
1661	LTC1661CN8#PBF	293
1661	LTC1661CMS8#PBF	293
1662	LTC1662CMS8#PBF	293
1663	LTC1663-8IMS8#PBF	293
1663	LTC1663CMS8#PBF	293
1663	LTC1663-8CMS8#PBF	293
1663	LTC1663-1CS5#TRMPBF	293
1665	LTC1665CGN#PBF	292
1665	LTC1665CN#PBF	292
1668	MAX1668MEE+	525
1668	LTC1668IG#PBF	297
1668	LTC1668CG#PBF	297
1669	LTC1669-8CMS8#PBF	293
1669	LTC1669IMS8#PBF	293
1669	LTC1669CMS8#PBF	293
167	SAK-C167CR-L33M	222
167	MSP430F167IPM	229
167	SAK-C167CR-LM HA	222
1670	DS1670E+	254
1671	LT1671CS8#PBF	429
1672	MAX1672EEE+	492
1672	DS1672U-33+	254
1672	DS1672S-33+	254
1673	LT1673CS8#PBF	314
1673	MAX1673ESA+	475
1674	AD1674JNZ	570
1674	MAX1674EUA+	492
1674	AD1674JNZ	283
1674	LT1674CS#PBF	320
1674	AD1674BRZ	283
1674	AD1674KNZ	283
1674	AD1674KRZ	283
1675	LT1675CS8-1#PBF	339
1675	MAX1675EUA+	492
1675	LT1675CMS8-1#PBF	308
1676	LT1676IN8#PBF	475
1676	LT1676CS8#PBF	475
1676	MAX1676EUB+	475
1676	LT1676CN8#PBF	475
1677	MAX1677EEE+	544
1677	LT1677CS8#PBF	308
1678	LT1678IS8#PBF	314
1678	LT1678CS8#PBF	314
1679	LT1679CS#PBF	320
168	INA168NA/250G4	518
168	INA168NA/250	333
168	ATMEGA168-20PU	570
168	ATMEGA168V-10AU	573
168	ATMEGA168-20MU	138
168	ATMEGA168V-10MU	138
168	ATMEGA168-20AU	573
168	ATMEGA168-20AU	138
168	ATMEGA168-20PU	138
168	ATMEGA168V-10AU	138
168	ATMEGA168V-10PU	138
1680	MAX1680ESA+	475
1680	PCM1680DBQG4	299
1680	LT1680CSW#PBF	475
16801	MAX16801AEUA+	440
16801	MAX16801BEUA+	440
16802	MAX16802AEUA+	440
16802	MAX16802BEUA+	440
16803	MAX16803ATE+	440
16804	MAX16804ATP+	444
16805	MAX16805ATP+	440
16806	MAX16806ATP+	440
16807	MAX16807AUI+	440
1681	MAX1681ESA+	492
1682	LTC1682CS8#PBF	475
1682	LTC1682CS8-5#PBF	475
16821	MAX16821BATI+	444
16822	MAX16822AASA+	444
16822	MAX16822BASA+	444
16823	MAX16823ATE+	444
16823	MAX16823AUE+	444
1683	LT1683EG#PBF	475
16832	MAX16832AASA+	444
16832	MAX16832CASA+	444
16834	MAX16834ATP+	444
1684	MAX1684EEE+	509
1685	LTC1685CS8#PBF	347
1685	LTC1685IS8#PBF	347
1685	MAX1685EEE+	492
1685	DS1685S-3+	254
1687	LTC1687IS#PBF	450
1687	DS1687-5+	253
1688	LTC1688CS#PBF	446
1688	LTC1688IS#PBF	446
169	INA169NA/250	518
169	INA169NA/250G4	518
1690	LTC1690CS8#PBF	450
1692	MAX1692EUB+	475
1693	MAX1693EUB+	475
1693	LTC1693-2CS8#PBF	461
1693	LTC1693-1CS8#PBF	461
1696	LTC1696ES6#TRMPBF	475
1697	LTC1697EMS#PBF	475
1698	MAX1698EUB+	445
1698	LTC1698IS#PBF	475
16999	MAX16999AUA25+	550
16999	MAX16999AUA09+	550
16999	MAX16999AUA33+	550
16999	MAX16999AUA18+	550
16999	MAX16999AUA13+	550
16999	MAX16999AUA15+	550
16999	MAX16999AUA11+	550
16999	MAX16999AUA06+	550
16999	MAX16999AUA12+	549
16F54	PIC16F54-I/P	188
16F54	PIC16F54-I/SS	188
16F648	PIC16F648A-I/ML	189
16F684	PIC16F684-I/SL	189
16F684	PIC16F684-I/ST	189
16F684	PIC16F684-I/SL	572
16F684	PIC16F684-I/P	189
16F684	PIC16F684-I/P	572
17	XC17S40XLPDG8C	97
17	PIC17C756A-16/L	204
17	TMP17FSZ	521
17	PIC17C756A-33I/L	204
17	PIC17C44-33I/L	204
17	PIC17C44-16/P	204
17	PIC17C44-16I/P	204
17	PIC17C43-16/P	204
17	PIC17C43/JW	204
17	XC17S30XLPDG8C	97
17	PIC17LC756A-08I/PT	204
17	PIC17C43-16/L	204
17	PIC17C42A-16/P	204
17	PIC17C42A/JW	204
17	PIC17C43-25/P	204
17	PIC17C766-33/L	204
17	PIC17C43-33/L	204
17	PIC17C756A-16I/L	204
17	PIC17C756A-33/L	204
17	PIC17C44-25/P	201
17	PIC17C42A-33/P	204
17	PIC17LC756A-08I/PT	575
17	PIC17C44-33/P	204
17	PIC17C766-33I/L	204
17	PIC17C44-33I/P	204
170	INA170EA	518
170	INA170EA/250G4	518
170	FSQ0170RNA	503
1700	MCP1700T-2502E/MB	553
1700	MCP1700-5002E/TO	569
1700	MCP1700T-3002E/TT	568
1700	MCP1700T-1802E/TT	552
1700	MCP1700-3302E/TO	556
1700	MCP1700T-3302E/TT	556
1700	MCP1700T-5002E/TT	560
1700	LTC1700EMS#PBF	475
1700	MCP1700-3002E/TO	568
1700	MCP1700-1802E/TO	568
1700	MCP1700T-3302E/MB	556
17000	MAX17000ETG+	488
17005	MAX17005ETP+	498
17006	MAX17006ETP+	498
1701	ADAU1701JSTZ	250
17019	MAX17019ATM+	488
1702	PCM1702PG4	299
1702	MCP1702-3002E/TO	568
1702	MCP1702T-1802E/CB	568
1702	MCP1702-5002E/TO	569
1702	MCP1702T-5002E/CB	569
1702	MCP1702-3302E/TO	569
1702	ADAU1702JSTZ	250
1702	MCP1702-1802E/TO	568
1702	MCP1702T-3002E/CB	568
1702	LTC1702CGN	475
1702	MCP1702T-2502E/CB	553
1702	MCP1702T-3302E/CB	569
1702	LTC1702CGN#PBF	475
1703	MCP1703T-1802E/CB	552
1703	MAX1703ESE+	475
1703	MCP1703T-3002E/CB	555
1703	MCP1703T-3302E/CB	556
1703	MCP1703-5002E/DB	560
1703	MCP1703-3302E/DB	556
1703	MCP1703T-5002E/CB	560
1704	PCM1704U-K.	299
1704	DF1704EG4	299
1705	MAX1705EEE+	475
1705	DS1705ESA+	257
1706	DS1706LESA+	257
1706	DS1706SESA+	257
1706	MAX1706EEE+	475
17065	MAX17065ETI+	488
1707	DS1707EPA+	257
1707	ADP1707ACPZ-3.3	558
1707	E-TDE1707BFP	475
1707	DS1707ESA+	257
1707	LTC1707CS8#PBF	475
1708	DS1708ESA+	257
1708	MAX1708EEE+	544
1709	MAX1709ESE+	544
1710	LTC1710CS8#PBF	475
1710	PCM1710U.	300
1710	PCM1710U	300
17101	MAX17101ETJ+	488
1711	LT1711CMS8#PBF	429
1713	LT1713CMS8#PBF	429
1713	LT1713IMS8#PBF	429
1714	LT1714CGN#PBF	430
1715	ADP1715ARMZ-2.5	553
1715	ADP1715ARMZ-3.0	555
1715	ADP1715ARMZ-3.3	557
1715	MAX1715EEI+	548
1715	ADP1715ARMZ-1.8	552
1715	LT1715CMS#PBF.	430
1715	ADP1715ARMZ-1.5	551
1715	ADP1715ARMZ	545
1716	LT1716HS5#TRMPBF	429
1716	LT1716IS5#TRMPBF	429
1716	LT1716CS5#TRMPBF	429
1716	ADP1716ARMZ-1.5	551
1716	LT1716HS5#PBF	429
1716	ADP1716ARMZ-1.8	552
1716	LT1716CS5#PBF	429
1716	ADP1716ARMZ-3.0	555
1716	ADP1716ARMZ-3.3	557
1716	PCM1716E	300
1719	LT1719IS6#TRMPBF	429
1719	LT1719CS6#TRMPBF	429
1719	LT1719CS8#PBF	429
172	MAX172BCNG+	282
172	PVAZ172NPBF	469
172	PVDZ172NPBF	469
172	TPA0172PWPG4	532
1720	MAX1720EUTG	475
1720	LT1720CS8#PBF.	430
1721	DS1721S+	524
1721	LT1721CGN#PBF	431
1721	LT1721CS#PBF	431
1722	DS1722S+	524
1722	LT1722CS8#PBF	308
1723	LT1723CMS8#PBF	314
1723	PCM1723EG4	300
1724	MAX1724EZK33+T	559
1724	MAX1724EZK50+T	559
1724	LT1724CS#PBF	320
1725	LT1725IS#PBF	475
1725	MCP1725-5002E/SN	560
1725	MCP1725-3302E/SN	557
1725	LT1725CS#PBF	475
1726	LTC1726ES8-5#PBF	475
1726	MCP1726EV	568
1726	MCP1726-3302E/SN	569
1726	MCP1726-5002E/SN	569
1726	DS1726U+	524
1726	MCP1726-1802E/SN	568
1727	LTC1727ES8-5#PBF	475
1727	MCP1727-1802E/SN	568
1727	MCP1727-3002E/SN	569
1727	MCP1727-3302E/SN	569
1727	MCP1727-5002E/SN	569
1728	LTC1728ES5-3.3#TRMPBF	475
1730	LTC1730EGN-4#PBF	475
1731	LTC1731EMS8-4.1#PBF	475
1731	LTC1731ES8-8.4#PBF	475
1731	LTC1731EMS8-4.2#PBF	475
1731	LTC1731EMS8-8.2#PBF	475
1731	LTC1731EMS8-8.4#PBF	475
1732	LTC1732EMS-4#PBF	475

Index by Type for Semiconductor ICs

	Mftrs. List No.	Page
1732	LTC1732EMS-4.2#PBF	475
1732	LTC1732EMS-8.4#PBF	475
1733	LTC1733EMSE#PBF	475
1734	LTC1734LES6-4.2#TRMPBF	475
1735	LTC1735CGN#PBF	475
1735	LTC1735CS#PBF	475
1736	LTC1736CG#PBF	475
1736	XC1736EPDG8C	97
1737	LT1737CGN#PBF	475
1737	LT1737CS#PBF	475
1737	MAX1737EEI+	492
1738	LT1738EG#PBF	475
1739	LT1739CFE#PBF	314
1742	MAX1742EEE+	546
1744	PCM1744U	300
1744	MAX1744EUB+	492
1745	MAX1745EUB+	475
175	TMP175AID	523
1751	LTC1751EMS8#PBF	475
17511	MPC17511AEV	458
1753	PCM1753DBQ	300
1754	LTC1754ES6-5#TRMPBF	475
1754	PCM1754DBQ	300
1755	PCM1755DBQ	300
1758	MAX1758EAI+	498
1759	LTC1759CG#PBF	475
1760	ISP1760BE	410
1760	LTC1760CFW#PBF	475
1760	MAX1760EUB+	494
1761	LT1761ES5-BYP#TRMPBF	543
1761	LT1761ES5-5#TRMPBF	559
1761	LT1761ES5-3.3#TRMPBF	556
1761	LT1761ES5-3#TRMPBF	555
1761	LT1761ES5-2.8#TRMPBF	554
1761	LT1761ES5-2.5#TRMPBF	553
1761	LT1761ES5-1.8#TRMPBF	551
1761	LT1761ES5-1.5#TRMPBF	551
1761	LT1761ES5-SD#TRMPBF	543
1762	LT1762EMS8-3#PBF	555
1762	LT1762EMS8-3.3#PBF	556
1762	LT1762EMS8#PBF	544
1762	LT1762EMS8-5#PBF	560
1762	LT1762EMS8-2.5#PBF	553
1763	LT1763CS8-5#PBF	560
1763	LT1763CDE#PBF	545
1763	LT1763CS8#PBF	545
1763	LT1763CS8-2.5#PBF	553
1763	LT1763CS8-1.8#PBF	552
1763	LT1763CS8-3.3#PBF	557
1764	LT1764AEFE#PBF	547
1764	LT1764AEQ#PBF	547
1764	LT1764AEQ-1.5#PBF	551
1764	LT1764AEQ-1.8#PBF	552
1764	LT1764AEQ-2.5#PBF	554
1764	LT1764AEQ-3.3#PBF	558
1764	LT1764EQ#PBF	547
1764	LT1764AET#PBF	547
1765	LT1765EFE-3.3#PBF	475
1765	LT1765EFE-5#PBF	475
1765	XC1765EPDG8C	97
1765	LT1765ES8#PBF	475
1765	LT1765EFE#PBF	475
1766	LT1766EGN-5#PBF	475
1766	LT1766EFE-5#PBF	475
1766	LT1766EFE#PBF	475
1766	LT1766IGN#PBF	475
1766	LT1766EGN#PBF	475
1766	LT1766EGN	475
1767	LT1767EMS8E-5#PBF	475
1767	LT1767EMS8E-3.3#PBF	475
1767	LT1767EMS8E#PBF	475
1767	LT1767EMS8-5#PBF	475
1767	LT1767EMS8-3.3#PBF	475
1767	LT1767EMS8#PBF	475
1768	LT1768CGN#PBF	475
1769	LT1769CGN#PBF	475
177	OPA177GS	304
177	OPA177GPG4	304
177	OP177FPZ	304
177	OP177GPZ	571
177	OP177GPZ	304
177	OP177FSZ	304
177	OP177GSZ	304
1770	PCM1770PW	300
1770	LM1770SMF	475
1770	LM1770TMF	476
1770	LM1770UMF	476
1771	MAX1771ESA+	492
1771	LM1771SSD	476
1771	MAX1771CSA+	492
1771	LM1771TSD	476
1771	LM1771USD	476
1771	LTC1771ES8#PBF	476
1771	LM1771UMM	548
1771	LM1771TMM	548
1771	LM1771SMM	548
1772	MAX1772EEI+	476
1772	LTC1772BES6#TRMPBF	476
1773	LTC1773EMS#PBF	476
1775	LTC1775CS#PBF	476
1775	MAX1775EEE+	492
1776	LT1776CN8#PBF	476
1776	LT1776CS8#PBF	476
1776	MAX1776EUA+	492
1777	LT1777IS#PBF	476
1777	LT1777CS#PBF	476
1778	LTC1778EGN#PBF	476
1779	LTC1779ES6#TRMPBF	476
1779	MAX1779EUE+	544
1780	LT1780ISW#PBF	347
1780	LT1780CSW#PBF	347
1781	LT1781CN#PBF	450
1782	LT1782HS5#TRMPBF	308
1782	LT1782IS5#TRMPBF	308
1782	LT1782IS6#TRMPBF	308
1783	LT1783IS5#TRMPBF	308
1783	LT1783HS5#TRMPBF	308
1785	LT1785AIS8#PBF	450
1785	LT1785ACS8#PBF	450
1785	LT1785CN8#PBF	450
1785	LT1785AIN8#PBF	450
1785	LT1785ACN8#PBF	450
1785	LT1785IS8#PBF	450
1785	LT1785IN8#PBF	450
1785	LT1785CS8#PBF	450
1786	LT1786FCS#PBF	476
1787	LT1787HVCMS8#PBF	332
1787	LT1787CMS8#PBF	332
1787	LT1787HVCS8#PBF	333
1789	LT1789CS8-1#PBF	336
1789	LT1789CS8-10#PBF	336
1790	LT1790BCS6-3#TRMPBF	539
1790	LT1790BCS6-2.5#TRMPBF	539
1790	LT1790BCS6-1.25#TRMPBF	537
1790	MCP1790-5002E/DB	559
1790	MCP1790-3302E/DB	556
1790	LT1790BCS6-3.3#TRMPBF	539
1790	LT1790BCS6-5#TRMPBF	541
1790	MCP1790-3002E/DB	556
1791	LT1791AIS#PBF	450
1791	PCM1791ADB.	300
1791	LT1791CN#PBF	450
1791	MCP1791T-5002E/DC	559
1791	LT1791CS#PBF	450
1791	MCP1791T-3002E/DC	555
1791	LT1791IS#PBF	450
1791	MAX1791EUB+	544
1791	MCP1791T-3302E/DC	556
1792	MAX1792EUA18+	551
1792	MAX1792EUA33+	557
1792	MAX1792EUA15+	551
1792	PCM1792DB	300
1792	LT1792CS8#PBF	325
1793	LT1793CS8#PBF	325
1793	LT1793ACS8#PBF	308
1793	MAX1793EUE25+	552
1794	PCM1794DB	300
1795	LT1795CSW#PBF	314
1795	MAX1795EUA+	544
1796	LT1796CS8#PBF	450
1796	MAX1796EUA+	544
1797	MAX1797EUA+	492
1798	LTC1798CS8-5#PBF	541
1798	LTC1798CS8-3#PBF	539
1798	LTC1798CS8#PBF	544
1799	LTC1799IS5#TRMPBF	349
1799	LTC1799CS5#TRMPBF	349
18	PIC18F8621-I/PT	205
18	PIC18F8620-I/PT	205
18	PIC18F8720-I/PT	205
18	PIC18F452-I/L	573
18	PIC18F2620-I/SP	572
18	PIC18F4321-I/P	193
18	PIC18F4480-I/PT	195
18	PIC18F8520-I/PT	194
18	PIC18LF252-I/SO	573
18	PIC18F4580-I/P	193
18	PIC18F2620-I/SO	572
18	PIC18F8490-I/PT	195
18	PIC18LC452-I/L	204
18	PIC18LF6620-I/PT	204
18	PIC18LF458-I/P	204
18	PIC18F4221-I/PT	193
18	PIC18F2580-I/SO	572
18	PIC18LF458-I/L	204
18	PIC18LF452-I/PT	204
18	PIC18F4620-I/P	573
18	PIC18F2585-I/SO	572
18	PIC18LF2520-I/ML	573
18	PIC18LF452-I/P	204
18	PIC18F258-I/SO	572
18	PIC18LF452-I/L	204
18	PIC18LF2520-I/ML	192
18	PIC18LF258-I/SP	204
18	PIC18F4455-I/P	194
18	PIC18F4455-I/PT	195
18	PIC18F4480-I/P	195
18	PIC18LF252-I/SP	204
18	PIC18LF252-I/SO	204
18	DS18B20+	521
18	PIC18F4220-I/PT	193
18	PIC18F4410-I/PT	193
18	PIC18F4423-I/P	193
18	PIC18F4520-I/P	572
18	PIC18F4550-I/P	195
18	PIC18F4550-I/PT	193
18	PIC18F452-I/P	204
18	PIC18F452-I/L	204
18	PIC18F448-I/PT	204
18	PIC18F8680-I/PT	196
18	PIC18F448-I/P	204
18	PIC18F4431-I/P	194
18	PIC18F4320-I/P	193
18	PIC18F442-I/P	204
18	PIC18F248-I/SP	204
18	PIC18F4320-I/PT	193
18	PIC18F4331-I/PT	194
18	PIC18F442-I/L	204
18	PIC18F6720-I/PT	204
18	PIC18F6680-I/PT	196
18	PIC18F6621-I/PT	204
18	PIC18F6620-I/PT	204
18	PIC18F258-I/SO	204
18	PIC18F4685-I/P	193
18	PIC18F258-I/SP	204
18	PIC18F2431-I/SO	194
18	PIC18F2439-I/SP	204
18	PIC18F4320-I/PT	575
18	PIC18F6525-I/PT	204
18	PIC18F6520-I/PT	193
18	PIC18F4431-I/PT	194
18	PIC18F458-I/PT	204
18	PIC18F458-I/P	204
18	PIC18F458-I/L	204
18	PIC18F4331-I/P	194
18	PIC18F4539-I/P	204
18	PIC18F452-I/PT	204
18	PIC18F4321-I/PT	193
18	PIC18F6527-I/PT	193
18	PIC18F6490-I/PT	195
18	PIC18F6410-I/PT	193
18	DS18S20+	521
18	PIC18F4525-I/PT	193
18	PIC18F4525-I/P	193
18	PIC18F1320-I/P	572
18	PIC18F4680-I/PT	575
18	PIC18F4620-I/PT	575
18	PIC18F4520-I/PT	575
18	PIC18F8585-I/PT	196
18	PIC18LF4550-I/PT	575
18	PIC18F2450-I/SP	194
18	PIC18F4680-I/PT	193
18	PIC18F1320-I/SS	192
18	PIC18F1320-I/SO	572
18	PIC18F2420-I/SP	572
18	PIC18F2520-I/SO	572
18	PIC18LF458-I/PT	204
18	PIC18F4680-I/P	193
18	PIC18F6390-I/PT	195
18	PIC18F86J10-I/PT	194
18	PIC18F6410-I/PT	575
18	PIC18LF8620-I/PT	205
18	PIC18LF6310-I/PT	193
18	PIC18F87J10-I/PT	194
18	PIC18F4525-I/PT	575
18	BH18RB1WGUT-E2	566
18	PIC18F87J60-I/PT	195
18	PIC18F8622-I/PT	194
18	PIC18F8310-I/PT	194
18	PIC18F1230-I/P	194
18	PIC18F67J60-I/PT	195
18	PIC18LF4520-I/PT	575
18	PIC18F4680-I/P	573
18	DS18S20Z+	521
18	PIC18F4220-I/P	193
18	PIC18F448-I/L	204
18	PIC18F67J10-I/PT	194
18	PIC18F66J60-I/PT	195
18	PIC18F66J10-I/PT	193
18	PIC18F65J10-I/PT	193
18	PIC18F252-I/SO	572
18	PIC18F2420-I/SO	192
18	PIC18F2550-I/SO	572
18	PIC18F4220-I/PT	575
18	PIC18F6585-I/PT	575
18	PIC18F2480-I/SP	195
18	PIC18F2480-I/SO	195
18	PIC18F2685-I/SO	193
18	PIC18F2685-I/SP	193
18	PIC18F4221-I/P	193
18	PIC18F2520-I/SP	192
18	PIC18F2520-I/SO	192
18	PIC18F2550-I/SP	194
18	PIC18F2550-I/SO	194
18	PIC18F2580-I/SP	195
18	PIC18LF8720-I/PT	205
18	PIC18F2580-I/SO	195
18	PIC18F4420-I/P	193
18	PIC18F4550-I/P	573
18	PIC18LF6720-I/PT	204
18	PIC18F4420-I/PT	193
18	PIC18F6310-I/PT	193
18	PIC18F4685-I/PT	193
18	PIC18F4620-I/PT	193
18	PIC18F4620-I/P	193
18	PIC18F4520-I/PT	193
18	PIC18F4520-I/P	193
18	PIC18F4520-I/ML	193
18	PIC18F2680-I/SP	193
18	PIC18F2680-I/SO	193
18	PIC18F4550-I/ML	193
18	PIC18F2620-I/SP	192
18	PIC18F1330-I/SS	194
18	PIC18F2620-I/SO	192
18	PIC18F2585-I/SO	192
18	PIC18F2525-I/SP	192
18	PIC18F2525-I/SO	192
18	PIC18F2520-I/SP	572
18	PIC18F2331-I/SP	194
18	PIC18F2525-I/SP	572
18	PIC18F1330-I/P	194
18	PIC18F2420-I/SP	192
18	PIC18F4431-I/PT	575
18	PIC18C452-I/P	204
18	PIC18F6622-I/PT	193
18	PIC18LF6720-I/PT	575
18	PIC18F24J10-I/SP	192
18	PIC18F2523-I/SO	192
18	PIC18LF6620-I/PT	575
18	PIC18LF452-I/PT	575
18	PIC18F2523-I/SP	192
18	PIC18F4450-I/PT	194
18	PIC18F44J10-I/P	193
18	PIC18F44J10-I/PT	193
18	PIC18F6720-I/PT	575
18	PIC18F6680-I/PT	575
18	PIC18F4523-I/P	193
18	PIC18F4523-I/PT	193
18	PIC18F25J10-I/SO	192
18	PIC18F442-I/PT	204
18	PIC18F6621-I/PT	575
18	PIC18F6627-I/PT	575
18	PIC18F25J10-I/SP	192
18	PIC18F2550-I/SP	572
18	PIC18F6722-I/PT	575
18	PIC18F2610-I/SO	192
18	PIC18F45J10-I/P	193
18	PIC18F45J10-I/PT	193
18	PIC18F8722-I/PT	575
18	PIC18LF4620-I/P	193
18	LF18CDT	552
18	PIC18F2221-I/SO	192
18	PIC18F2221-I/SP	192
18	DS18B20U+	525
18	PIC18F4455-I/PT	575
18	PIC18F2321-I/SP	192
18	PIC18F4480-I/PT	575
18	PIC18F4550-I/PT	575
18	PIC18F4580-I/PT	575
18	PIC18F4420-I/PT	575
18	PIC18F2410-I/SP	192
18	PIC18F2423-I/SO	192
18	PIC18F252-I/SP	572
18	PIC18F2423-I/SP	192
18	PIC18F2450-I/SO	194
18	PIC18F1330-I/SO	194
18	PIC18F442-I/PT	575
18	PIC18F258-I/SP	572
18	PIC18F4423-I/PT	193
18	PIC18F24J10-I/SO	192
18	PIC18F1230-I/SO	194
18	PIC18F2431-I/SP	194
18	PIC18F4450-I/P	194
18	PIC18F452-I/P	573
18	PIC18F6585-I/PT	196
18	PIC18F4455-BL	175
18	PIC18F452-BL	175
18	PIC18F458-I/P	573
18	PIC18LF458-I/PT	575
18	PIC18F242-I/SP	572
18	PIC18F242-I/SO	204
18	PIC18F6525-I/PT	575
18	PIC18C252-I/SP	204
18	PIC18F2320-I/SP	192
18	PIC18F4331-I/PT	575
18	PIC18F2320-I/SO	192
18	PIC18F2220-I/SP	192
18	PIC18F458-I/L	573
18	PIC18F448-I/PT	575
18	PIC18F6620-I/PT	575
18	PIC18F6627-I/PT	194
18	PIC18F2220-I/SO	192
18	PIC18C452-I/L	204
18	PIC18F6722-I/PT	194
18	PIC18F1220-I/P	192
18	PIC18F4580-I/PT	193
18	PIC18F1220-I/SO	192
18	PIC18F1320-I/SO	192
18	PIC18F1320-I/P	192
18	PIC18F1320-I/ML	192
18	PIC18F1220-I/SS	192
18	PIC18F4610-I/P	193
18	PIC18F252-I/SP	204
18	PIC18LF4550-I/PT	195
18	PIC18F252-I/SO	204
18	DS18B20Z+	525
18	PIC18LF4520-I/PT	193
18	PIC18F452-I/PT	575
18	PIC18F458-I/PT	575
18	PIC18F6520-I/PT	575
18	PIC18F8627-I/PT	194
18	PIC18F242-I/SP	204
18	PIC18F8722-I/PT	194
18	PIC18F248-I/SO	204
1800	PCM1800E.	300
1800	NCP1800DM41R2G	476

Index by Type for Semiconductor ICs

	Mftrs. List No.	Page
1800	LT1800CS8#PBF	308
1800	LT1800CS5#TRMPBF	308
1801	PCM1801U.	300
1801	LT1801CMS8#PBF	314
1801	DS1801+	436
1801	DS1801S+	436
1802	DS1802S+	436
1802	MCP1802T-1802I/OT	552
1802	PCM1802DBG4	299
1802	LT1802CS#PBF	320
1802	DS1802+	436
1803	DS18030-050	436
1803	DS18030-050+	435
1803	DS18030-100	436
1803	DS1803Z-050+	436
1803	DS1803Z-010+	436
1803	DS18030-100+	435
1803	DS18030-010+	435
1803	LT1803CS5#TRMPBF	308
1804	DS1804-100	436
1804	DS1804Z-100+	435
1804	DS1804U-050+	435
1804	DS1804U-010+	435
1804	LT1804CS8#PBF	314
1804	DS1804C	279
1804	DS1804-010+	436
1804	DS1804-50	436
1804	PCM1804DBG4	299
1804	CDCM1804RGETG4	332
1805	LT1805CS#PBF	320
1806	LT1806CS8#PBF	308
1806	LT1806IS6#TRMPBF	308
1806	LT1806CS6#TRMPBF	308
1806	MAX1806EUA33+	552
1807	LT1807CS8#PBF	314
1807	DS1807+	436
1807	LT1807CMS8#PBF	314
1808	FM1808-70-PG	108
1808	FM1808-70-SG	108
1808	PCM1808PWG4	289
1808	DS1808Z-050+	435
1809	LT1809IS6#TRMPBF	308
1809	LT1809CS8#PBF	308
1810	LT1810CMS8#PBF	314
1810	DS1810-10+	257
1810	DS1810R-10+	257
1811	DS1811R-10+	257
1811	MAX1811ESA+	476
1812	DS1812-10+	257
1812	LT1812CS8#PBF	308
1812	DS1812R-10+	257
1813	DS1813R-15+	257
1813	DS1813-10+	257
1813	LT1813DMS8#PBF	314
1813	DS1813R-10+	257
1813	DS1813R-5+	257
1814	LT1814CS#PBF	320
1815	LM1815N	457
1815	LM1815N.	518
1815	LT1815CS8#PBF	308
1816	STM1816SWX7F	257
1816	STM1816RWX7F	257
1816	LT1816CMS8#PBF	314
1816	LT1816IMS8#PBF	314
1818	STM1818SWX7F	257
1818	STM1818TWX7F	257
1818	LT1818CS8#PBF	308
1818	DS1818R-5+	257
1818	DS1818R-10+	257
1819	LT1819CMS8#PBF	314
1819	LT1819IS8#PBF	314
1819	LT1819CS8#PBF	314
18201	LMD18201T	458
1821	DS1821+	524
1821	ADP1821ARQZ-R7	476
1821	DS1821S+	524
1822	ADP1822ARQZ-R7	476
1823	ADP1823ACPZ	476
1824	MCP1824T-0802E/OT	550
1824	MCP1824ST-1202E/DB	557
1824	MCP1824T-1202E/DC	550
1824	MCP1824T-1202E/OT	550
18245	LMD18245T	571
1825	MCP1825T-ADJE/DC	545
1828	ADP1828YRQZ-R7	476
1829	ADP1829ACPZ	476
1830	MAX1830EEE+	492
1832	DS1832+	257
1832	CAT1832V-G	257
1832	DS1832S+	257
1833	DS1833-5	257
1834	DS1834AS+	257
1835	AD1835AASZ	300
1835	NCP1835BMNR2G	476
1837	AD1837AASZ	300
184	OP184FSZ	304
184	MPC184VMB	255
184	OP184ESZ	304
1840	LTC1840CGN#PBF	457
1840	LTC1840IGN#PBF	457
18400	LMD18400N/NOPB	465
1844	DS1844S-010+	436
1844	LTC1844ES5-1.8#TRMPBF	551
1844	DS1844S-050+	436
1844	DS1844S-100+	436
1844	LTC1844ES5-2.5#TRMPBF	553
1844	LTC1844ES5-3.3#TRMPBF	556
1844	LTC1844ES5-SD#TRMPBF	543
1845	DS1845E-010+	435
1845	DS1845E-050+	435
1846	MAX1846EUB+	476
1847	MAX1847EEE+	492
1850	LTC1850CFW#PBF	281
1851	AD1851NZ	300
1851	TS1851ILT	308
1851	TS1851ID	308
1851	LTC1851CFW#PBF	283
1852	LTC1852CFW#PBF	281
1852	TS1852IN	314
1852	TS1852ID	314
1853	LTC1853CFW#PBF	283
1854	TS1854IN	320
1856	AD1856NZ	300
1856	MAX1856EUB+	494
1857	MAX1857EUA47+	552
1859	DS1859E-050+	524
186	MAX186CCWP+	282
186	MAX186DCPP+	282
186	MAX186DCPP+	571
1860	LTC1860CMS8#PBF	283
1860	LTC1860LCMS8#PBF	283
1861	LTC1861LCMS#PBF	283
1861	LTC1861CMS#PBF	283
1863	LTC1863LIGN#PBF	283
1864	ADP1864AUJZ	476
1864	LTC1864LCMS8#PBF	287
1864	LTC1864CMS8#PBF	287
1865	LTC1865LAIMS#PBF	287
1865	LTC1865IMS#PBF	291
1865	LTC1865LCMS#PBF	287
1865	LTC1865CS8#PBF	287
1865	LTC1865LACMS#PBF	287
1866	AD1866NZ	300
1871	LTC1871EMS#PBF	476
1872	TS1872ID.	314
1872	TS1872ID	314
1872	LTC1872ES6#TRMPBF	476
1872	TS1872IN	314
1873	LTC1873EG#PBF	476
1873	MAX1873REEE+	492
18730	MPC18730EP.	488
1874	TS1874ID	320
1874	MAX1874ETE+	498
1875	LTC1875EGN#PBF	476
1875	LM1875T	533
1876	LTC1876EG#PBF	476
1876	LM1876TF	533
1877	LTC1877EMS8#PBF	476
1877	AD1877JRZ	300
1877	LM1877M-9/NOPB	533
1877	LM1877N-9/NOPB	533
1878	LTC1878EMS8#PBF	476
1879	LTC1879EGN#PBF	476
1880	LT1880CS5#TRMPBF	308
1880	LT1880IS5#TRMPBF	308
1881	LT1881CS8#PBF	314
1881	LM1881N	533
1881	LM1881M	533
1881	LM1881N/NOPB	533
1882	LT1882CS#PBF	320
1883	EL1883ISZ	533
1884	LT1884CS8#PBF	314
1885	LT1885CS#PBF	320
1885	AD1885JSTZ	533
1886	LT1886CS8#PBF	314
1898	MAX1898EUB42+	498
18L08	FM18L08-70-SG	108
19	LM19CIZ	521
1905	TDA1905	533
1908	MAX1908ETI+	498
1909	MAX1909ETI+	498
1910	LT1910ES8#PBF	461
1912	LT1912EDD#PBF	476
1913	LT1913EDD#PBF	476
1919	LM1949N/NOPB	461
192	REF192GSZ	538
192	REF192GPZ	538
1920	LT1920CS8#PBF	336
1920	LT1920CN8#PBF	336
1922	LTC1922EG-1#PBF	476
1925	MAX1925ETC+	498
1926	MAX1926ETC+	498
1929	LTC1929CG#PBF	476
193	OP193FSZ	304
193	INA193AIDBVT.	332
193	INA193AIDBVT	332
193	LM193DR..	429
1930	LT1930ES5#TRMPBF	476
1930	LT1930AES5#TRMPBF	476
1931	LT1931AES5#TRMPBF	476
1931	LT1931ES5#TRMPBF	476
1932	LT1932ES6#TRMPBF	442
1933	LT1933ES6#TRMPBF	476
1934	LT1934ES6#TRMPBF	476
1935	TS1935CX5 RF	567
1935	LT1935ES5#TRMPBF	476
1936	LT1936EMS8E#PBF	476
1937	ZXLD1937ET5	442
1937	LT1937ES5#TRMPBF	442
1937	BD1937G-TR	445
1939	LT1939EDD#PBF	476
194	REF194GPZ	540
1940	LT1940EFE#PBF	476
1941	LT1941EFE#PBF	476
1941	AD1941YSTZ	533
1942	LT1942EUF#PBF	442
1944	LT1944EMS#PBF	476
1945	LT1945EMS#PBF	476
1945	MAX1945REUI+	544
1946	LT1946AEMS8E#PBF	476
1946	LT1946EMS8#PBF	476
1947	MAX1947ETA30+T	476
1947	MAX1947ETA25+T	476
1947	MAX1947ETA33+T	476
1947	LT1947EMS#PBF	476
1947	MAX1947ETA18+T	476
1949	LT1949EMS8#PBF	476
195	INA195AIDBVT	332
195	REF195GPZ	540
1950	LT1950EGN#PBF	476
1951	MAX1951ESA+	492
19515	MAX19515ETM+	282
19516	MAX19516ETM+	282
19517	MAX19517ETM+	282
1952	OXMPCI952-LQAG	416
1952	OX16PCI952-TQAG	416
1953	MAX1953EUB+	548
1954	OXMPCI954-LQAG	416
1954	OX16PCI954-TQA1G	416
1956	LT1956EGN#PBF	476
1956	LT1956EGN-5#PBF	476
1958	OX16PCI958-PQAG	416
1959	LT1959CS8#PBF	476
196	INA196AIDBVT	332
196	OP196GSZ	328
1960	LTC1960CG#PBF	476
1961	LT1961EMS8E#PBF	476
1962	LT1962EMS8-3#PBF	555
1962	LT1962EMS8-5#PBF	562
1962	LT1962EMS8-3.3#PBF	557
1962	LT1962EMS8#PBF	544
1962	LT1962EMS8-2.5#PBF	553
1963	LT1963EST-3.3#PBF	558
1963	LT1963EST-1.8#PBF	552
1963	LT1963EST-1.5#PBF	551
1963	LT1963AEQ#PBF	546
1963	LT1963AEQ-3.3#PBF	558
1963	LT1963AES8#PBF	546
1963	LT1963AES8-3.3#PBF	558
1963	LT1963AEST-1.5#PBF	551
1963	LT1963EQ#PBF	546
1963	LT1963AEQ-1.8#PBF	552
1963	LT1963AEST-1.8#PBF	552
1963	LT1963AEST-3.3#PBF	558
1963	LT1963AES8-2.5#PBF	554
1963	LT1963AES8-1.8#PBF	552
1963	LT1963AEST-2.5#PBF	554
1963	LT1963AET#PBF	546
1963	LT1963AET-1.8#PBF	552
1964	LT1964ES5-SD#TRMPBF	544
1964	LT1964ES5-5#TRMPBF	550
1964	LT1964ES5-BYP#TRMPBF	544
1965	LT1965IDD#PBF	546
1965	LT1965EMS8E#PBF	546
1965	LT1965IMS8E#PBF	546
1965	LT1965EDD#PBF	546
1966	LTC1966CMS8#PBF	437
1967	LTC1967CMS8#PBF	437
1968	LTC1968CMS8#PBF	437
1969	LT1969CMS#PBF	314
197	MAX197BCWI+	299
197	MAX197ACWI+	300
197	MAX197BCNI+	300
1970	AD1970JSTZ	533
1970	LT1970CFE#PBF.	308
1971	LM1971M	533
1973	DS1973+F5	515
1976	LT1976EFE#PBF	476
1976	LT1976IFE#PBF	476
1977	LT1977EFE#PBF	476
1978	MAX1978ETM+	525
198	INA198AIDBVT	332
198	INA198AIDBVTG4	469
1980	LTC1980EGN#PBF	476
1981	LMH1981MT	533
1981	LTC1981ES5#TRMPBF	476
1982	DS1982+F5	515
1982	LMH1982SQE/NOPB	349
1983	LTC1983ES6-5#TRMPBF	476
1990	LT1990CS8#PBF	333
1990	AD1990ACPZ	533
1990	LT1990ACS8#PBF	333
1990	DS1990A-F5+	515
1991	LT1991ACMS#PBF	333
1991	LT1991CMS#PBF	333
1991	LT1991HMS#PBF	333
1992	AD1992ACPZ	533
1992	LTC1992-1CMS8#PBF	333
1992	DS1992L+F5	515
1992	LTC1992HMS8#PBF	333
1992	LTC1992-2HMS8#PBF	333
1992	LTC1992-1HMS8#PBF	333
1992	LTC1992-2CMS8#PBF	333
1992	LTC1992-5CMS8#PBF	333
1992	LTC1992CMS8#PBF	333
1993	LT1993IUD-10#PBF	333
1993	LT1993IUD-4#PBF	333
1993	LT1993IUD-2#PBF	333
1994	LT1994CDD#PBF	333
1994	LT1994CMS8#PBF	333
1994	AD1994ACPZ	533
1994	LT1994IMS8#PBF	333
1994	DS1994L-F5+	515
1995	LT1995CMS#PBF	333
1996	LT1996ACMS#PBF	308
1998	LTC1998CS6#TRMPBF	476
1999	MAX1999EEI+	544
2	LFE2-35E-5FN484C	100
2	LFE2-6E-5TN144C	100
2	LFE2-12E-6TN144C	100
2	EP2C15AF256C8N	93
2	LFE2-70E-5FN900C	100
2	LFE2-50E-5FN484C	100
2	EPC2LC20N	95
2	EPC2TC32N	95
2	EP2C5Q208I8N	93
2	EP2C8Q208I8N	93
2	LFE2-12E-6QN208C	100
2	AD2S1205YSTZ	300
2	AD2S1200YSTZ	573
2	AD2S1200YSTZ	282
2	LFXP2-8E-5TN144C	100
2	EP2C20F256I8N	93
2	LFE2M100E-5FN900C	100
2	EP2C20F484I8N	93
2	EP2C50F484I8N	93
2	LFE2-6E-6TN144C	100
2	LFXP2-5E-5TN144C	100
2	XC2C384-10TQG144C	96
2	TPD2E001DRSR	517
2	LFE2M100E-6FN1152C	100
2	LFXP2-40E-5FN484C	100
2	XC2C64A-7VQG44C	96
2	LFE2M20E-5FN256C	100
2	XC2C256-7VQG100C	96
2	XC2C128-7VQG100C	96
2	LFXP2-5E-5FTN256C	100
2	XC2C384-10FGG324C	96
2	XC2C512-10PQG208C	96
2	EP2C35F672I8N	93
2	LFXP2-8E-5QN208C	100
2	EP2C8T144I8N	93
2	VSUPEV2	259
2	LFE2M70E-6FN900C	100
2	LFXP2-30E-5FN484C	100
2	LFE2M50E-6FN484C	100
2	MR2A16ACYS35	108
2	LFE2M35E-5FN672C	100
2	REF02AU/2K5E4	540
2	BASIC STAMP 2P-40	180
2	REF02HSZ	540
2	AD2S80AJD	300
2	LFE2M70E-5FN900C	100
2	A2SI-L16-G1-ST REV. B	455
2	EP2C20AF256I8N	93
2	LFXP2-8E-5FTN256C	100
2	EP2C35U484I8N	93
2	LFE2M35E-5FN256C	100
2	EP2C15AF484C8N	93
2	LFXP2-40E-5FN672C	100
2	LFE2M50E-5FN900C	100
2	LFE2-20E-6FN672C	100
2	AD2S90APZ	282
2	LFE2-20E-5FN484C	100
2	LFXP2-17E-5QN208C8W	100
2	LFE2-12E-5FN256C	100
2	LFE2-12E-5TN144C	100
2	LFE2-12E-6FN256C	100
2	LFXP2-5E-5QN208C	100
2	LFE2M35E-6FN484C	100
2	A2SI-G1-ST REV. C	455
2	LFXP2-17E-5FN484C8W	100
2	LFXP2-17E-5FTN256C8W	100
2	LFE2-20E-5QN208C	100
2	LFE2M20E-6FN256C	100
2	LFE2-20E-6QN208C	100
2	EP2C15AF256I8N	93
20	LM20BIM7	521
20	STLM20DD9F	521
20	GAL20V8B-25LJN	87
20	CLC020BCQ	532
20	STLM20W87F	521
20	BQ20Z90DBT-V110	469
20	GAL20V8C-7LJN	87
20	GAL20V8B-15LJN	87
20	BQ20Z90DBT-V150	469
20	BQ20Z70PW-V110	469
20	BQ20Z70PW-V150	469
20	VIPER20-E	469
20	GAL20V8B-25QP	87
20	GAL20RA10B-20LP	87
20	VIPER20ADIP-E	469
20	GAL20RA10B-15LP	87
20	SX20AC/SS-G	155
20	GAL20V8B-25LPN	87
20	FSUSB20MUX	410

Index by Type for Semiconductor ICs

	Mftrs. List No.	Page
20	IRAMX20UP60A-2	459
200	MBF200PFW-IKENDI	518
200	OXU200 - LQAG	415
200	ADC08B200CIVS	280
200	OP200GPZ	312
200	OP200GPZ	571
200	L200CV	571
200	GSD200S.	459
2000	BQ2000TSN-B5	476
2000	HY2000	339
2000	TSC2000IPWG4	533
2000	LMK02000ISQ	349
2000	BQ2000SN-B5	476
2000	TPA2000D1PWG4	533
2001	ULN2001A	528
2001	HY2001	339
2001	IRS2001SPBF	467
2001	NCS2001SN1T1G	322
2001	E-ULN2001A	528
2001	NCS2001SQ2T1G	322
2001	TPA2001D1PW.	533
2001	IRS2001PBF	467
2002	BQ2002CSN	476
2002	BQ2002CPN	476
2002	NCS2002SN2T1	322
2002	BQ2002FSN	476
2002	BQ2002ESN	476
2002	BQ2002SNG4	476
2002	BQ2002PNE4	476
2002	ULN2002A	528
2002	BQ2002TSN	476
2002	HY2002	339
2002	IP2002PBF	476
2003	ULN2003ANE4	528
2003	TSC2003IPWG4	533
2003	E-ULQ2003A	528
2003	HY2003	339
2003	E-ULQ2003D1	528
2003	IP2003APBF	476
2003	ULN2003AFWG	528
2003	ULN2003APG	528
2003	E-TDA2003V	533
2003	DS2003CN/NOPB	461
2003	BQ2003SG4	476
2003	ULQ2003A	528
2003	ULN2003ADE4	528
2003	IRS2003SPBF	467
2003	ULN2003AIDG4	528
2003	IRS2003PBF	467
2003	E-ULN2003A	528
2003	ULN2003A	528
2003	DS2003CN	528
2003	BQ2003S-N	476
2003	DS2003CM	528
2004	ULN2004D1013TR	528
2004	ULN2004ADE4	528
2004	IRS2004PBF	467
2004	ULN2004AFWG	528
2004	ULN2004ADRE4	528
2004	BQ2004ESNG4	476
2004	ULN2004AN	528
2004	ULN2004A	528
2004	IRS2004SPBF	461
2004	E-ULQ2004A	528
2004	ULN2004APG	528
2004	E-ULN2004A	528
2004	BQ2004SN	477
2004	HY2004	339
2005	TPA2005D1DRBR.	533
2005	TPA2005D1ZQYR	533
2005	MIC2005-1.2YM6 TR	461
2005	MIC2005-0.5YM6 TR	461
2005	HY2005	339
2006	HY2006	339
2007	HY2007	339
2008	U2008B-MY	457
201	ADG201AKNZ	343
201	MCP201-E/P	447
201	MCP201-I/SN	347
201	MCP201-I/P	347
201	MCP201-E/SN	447
201	ADG201HSJNZ	344
201	DG201BDY-E3	343
201	LM201ADG	322
201	LM201AH	304
201	DG201BDJ	343
201	TSIC201WEB	523
2010	MPX2010GP	510
2010	IR2010SPBF	467
2010	TPA2010D1YZFT	533
2010	IR2010PBF	467
2010	MPXM2010GS	510
2011	IRS2011PBF	461
2011	ADG201AKRZ	344
2011	IR2011SPBF	461
2011	LMV2011MF	308
2011	IRS2011SPBF	533
2011	DG2011DXA-T1-E3	342
2011	IR2011PBF	467
2011	LMP2011MA	308
2011	LMP2011MF	308
2011	LMV2011MA	308
2012	TPA2012D2RTJTG4	533
2012	DG2012DL-T1-E3	342
2012	LMP2012MM	314
2012	LMP2012MA	314
2012	BQ2012SN-D107	477
2012	MSP430F2012IPW	229
20124	IRS20124SPBF	536
2013	BQ2013HSN-A514G4	477
2013	FAN2013MPX	477
20133	LM20133MH	488
2014	LMP2014MT	320
2014	TPS2014D	477
2014	BQ2014SN-D120	477
20144	LM20144MH	488
20145	LM20145MH	488
2015	LMP2015MA	308
2015	LMP2015MF	308
20153	IR20153SPBF	465
2016	MAX2016ETI+	518
2016	UAA2016PG	458
2016	HCTL-2017#PLC	457
2016	UAA2016PG	573
2016	DS2016-100+	104
2016	DG2016DQ-T1-E3	342
2016	TPA2016D2YZHT	533
2017	HCTL-2017-A00	518
2018	SSM2018TPZ	533
2018	SSM2018PZ	533
2018	DG2018DN-T1-E3	345
2019	DG2019DN-T1-E3	345
2019	SSM2019BNZ	533
2019	BQ2019PWG4	477
202	ADSP-TS202SABPZ050	249
202	HIN202EIBNZ	447
202	ADM202JRNZ	447
202	MAX202CPE+	447
202	ADM202EARUZ	447
202	PGA202KP	335
202	HIN202CBZ	447
202	ADM202EARNZ	447
202	MAX202IDG4	448
202	MAX202ECSE+	447
202	HIN202CPZ	447
202	DG202BDJ	343
202	MAX202EESE+	447
202	SP202ECN-L	454
202	SP202ECP-L	454
202	SP202ECT-L	454
202	MAX202ECPE+	447
202	HIN202CB	447
202	MAX202ECWE+	447
202	MAX202CSE+	447
202	SP202EEN-L	454
202	HIN202ECBZ	447
202	HIN202ECPZ	447
202	HIN202ECBNZ	447
202	HIN202CBNZ	447
202	MAX202ESE+	448
202	AD202JY	337
202	ST202CN	448
202	MAX202CWE+	447
202	ST202ECN	448
202	ST202ECDR	347
202	ADM202JNZ	447
202	ADM202EANZ	447
202	LMS202EIM	447
202	ADG202AKNZ	343
2020	DG2020DV-T1-E3	342
2020	TPS2020D	477
2020	HCTL-2021	457
2020	HCTL-2021#PLC	457
2020	ADEL2020ANZ	308
2021	TLE2021IP.	308
2021	TLE2021ID	308
2021	TLE2021AID	308
2021	TLE2021MD	308
2021	TLE2021CDG4	308
2021	MCP2021-330E/SN	347
2021	TLE2021IP	308
2021	TLE2021ACD	308
2021	MCP2021-500E/SN	347
2021	TLE2021CPE4	308
2022	MCP2022-500E/SL	347
2022	TPS2022D	477
2022	TLE2022CPE4	314
2022	MCP2022-330E/SL	347
2022	TLE2022ACDG4	314
2022	TLE2022IPE4	314
2022	TLE2022AIDG4	314
2022	TLE2022AMD	308
2022	TLE2022CDG4	314
2022	BQ2022ALPR	477
2022	TLE2022ID	314
2024	TLE2024CDWG4	320
2024	TLE2024IN	320
2024	TLE2024ACDW	320
2024	TPS2024DG4	461
2024	TLE2024IDW	320
2024	TLE2024CNE4	320
20242	LM20242MH	488
2025	MIC2025-1YM	477
2025	MIC2025-2YM	477
2025	MIC2025-1YM	461
2026	MIC2026-2YM	477
2027	TLE2027CDG4	308
2027	TLE2027ID	308
203	PGA203KP	335
203	ADSP-TS203SABPZ050	249
203	MAX203ECWP+	448
203	LTC203CS#PBF	343
2030	TDA2030V	533
2030	MCP2030-I/P	355
2030	TDA2030H	533
2031	TPA2013D1YZHR	533
2031	BQ2031SN-A5	477
2032	ISPLSI2032E-110LJ44	103
20323	LM20323MHE	488
20323	LM20323MH	488
2033	TPA2033D1YZF	533
20333	LM20333MH	488
20333	LM20333MHE	488
2034	TPS2034D	477
2034	MAX2034CTM+	320
20343	LM20343MH	488
20343	LM20343MHE	488
2036	TUSB2036VF	410
2037	TLE2037ID	308
2037	TLE2037CD	308
204	LS204CN	312
204	SPM0204HE5	530
204	SPM0204HD5	530
204	MAX204CWE+	448
204	PGA204BU	304
204	PGA204AUE4	304
204	AD204JY	337
204	PGA204BP	304
204	PGA204AP.	335
2040	BQ2040SN-C408	477
2040	TDA2040V	533
2040	PCI2040PGE	420
2041	TPS2041AD	477
2041	TPS2041D	477
2042	TPS2042DR	477
2042	TPS2042AD	477
2044	TPS2044BD	477
2045	EL2045CSZ	308
2046	TUSB2046BIRHBT	410
2046	TSC2046IPWG4	533
205	PGA205BU..	304
205	PGA205BU	304
205	PGA205AU	304
205	PGA205AP	335
2050	PCI2050BIPDV	419
2050	LTC2050HVCS6#TRMPBF	308
2050	PCI2050BZHK	419
2050	BQ2050HSN-A508G4	477
2050	LTC2050HVCS5#TRMPBF	308
2050	LTC2050CS5#TRMPBF	308
2050	PCI2050BPDV	419
2050	LTC2050HVCS8#PBF	328
2050	PCI2050BIZHK	419
2050	TDA2050V	533
2050	LTC2050CS8#PBF	328
20503	DCP020503U	488
20505	DCP020505P	488
20505	DCP020505UE4	488
2051	LTC2051HVIMS8#PBF	314
2051	LTC2051HVHS8#PBF	314
2051	LTC2051HVCMS8#PBF	329
2051	LTC2051HVHMS8#PBF	329
2051	LTC2051CDD#PBF	329
2051	LTC2051HMS8#PBF	329
2051	LTC2051CMS10#PBF	329
2051	LTC2051CMS8#PBF	329
20515	DCP020515DP	488
20515	DCP020515DU	488
2052	LTC2052CS#PBF	328
2052	LTC2052HVCS#PBF	320
2053	LTC2053CMS8#PBF	336
2053	LTC2053IMS8#PBF	336
2053	MPXM2053GS	510
2053	LTC2053CMS8-SYNC#PBF	336
2053	LTC2053HMS8#PBF	336
2054	LTC2054CS5#TRMPBF	308
2055	LTC2055CMS8#PBF	329
2055	LTC2055HVHMS8#PBF	329
2055	LTC2055HVCMS8#PBF	329
2055	LTC2055HMS8#PBF	329
2057	BQ2057WSN	477
2057	BQ2057WTSG4	477
2057	BQ2057CSN	477
2057	BQ2057CTSG4	477
2057	BQ2057SN	477
206	TSIC206WEB	523
206	TSIC206WST	523
206	PGA206UA	304
206	INA206AIDG4	469
2060	BQ2060SS-E411G4	477
2060	PCI2060ZHK	419
2060	BQ2060A-E619DBQG4	477
2061	TLE2061CPE4	325
2061	TLE2061CDG4	325
2061	TLE2061IP.	325
2061	TLE2061IP	325
2061	TLE2061ACD	325
2061	TLE2061AID	325
2061	TLE2061ID	325
2062	TLE2062ACDG4	326
2062	TLE2062AIDG4	326
2062	TLE2062CPE4	326
2062	TPS2062D.	477
2062	TLE2062ID	326
2062	TLE2062CDG4	326
2062	TLE2062IPE4	326
2064	TLE2064ID	327
2064	TLE2064CDG4	327
2064	TLE2064IN	327
2064	ISPLSI2064A-100LJN84	103
2064	TLE2064AIDG4	327
2064	E-ULN2064B	528
2064	TLE2064CNE4	327
2064	ULN2064B	528
2064	TLE2064ACDG4	327
2065	TPS2065D.	477
2065	E-ULN2065B	529
2066	TPS2066D	477
2068	ULN2068B	529
2068	E-ULN2068B	529
2069	E-ULN2069B	529
207	SP207ECT-L	454
207	PGA207UA	304
207	ADM207EANZ	448
207	SP207ECA-L	454
207	SP207EHCA-L	454
207	MAX207ECAG+	452
207	INA207AID	469
207	HIN207ECBZ	448
2071	TLE2071CDG4	325
2071	TLE2071ACD	325
2071	TLE2071AID	325
2071	TLE2071CPE4	325
2071	TLE2071IDG4	325
2072	TLE2072CP	326
2072	TLE2072AIDG4	326
2072	TLE2072ACP	326
2072	TLE2072CD	326
2072	TLE2072ACD	325
2072	TLE2072IDG4	326
2074	TLE2074ACN	327
2074	TLE2074CNE4	327
2076	MIC2076-2YM	477
2078	LT2078CS8#PBF	314
2078	LT2078IS8#PBF	314
208	SP208ECA-L	454
208	SP208EEP-L	454
208	HIN208CBZ	448
208	MAX208CWG+	448
208	MAX208ECAG+	452
208	ADM208EANZ	448
208	SPM0208HE5	530
208	HIN208ECBZ	448
208	SPM0208HD5	530
208	SP208EET-L	454
208	MAX208IDBG4	448
208	MAX208CAG+	452
2081	TLE2081ACD	325
2081	TLE2081ID	325
2081	TLE2081CD	325
2082	TLE2082CDG4	326
2082	TLE2082IDG4	326
2082	TLE2082ACD	325
2082	TLE2082CPE4	326
2084	BQ2084DBTG4	477
2084	BQ2084DBT-V143	477
2084	BQ2084DBT-V150	477
20954	IRS20954SPBF	465
20955	IRS20955SPBF	465
21	CLC021AVGZ-5.0	532
210	AD210JN	337
210	AD210AN	337
210	OXU210HP-LQBG	415
210	AD210BN	337
2100	MPX2100AP	510
2100	TSC2100IDAG4	533
2100	LMH2100TM	477
2100	HIP2100IBZ	461
2100	MPX2100DP	510
21009	ISL21009BFB825Z	492
2101	ADSP-2101BPZ-100	247
2101	HIP2101IBZ	461
2101	IR2101PBF	461
2101	IR2101SPBF	461
2101	ACF2101BUE4	518
2101	IRS2101PBF	461
2101	IRS2101SPBF	461
2101	LPC2101FBD48	240
2102	IR2102PBF	461
2102	IR2102SPBF	468
2102	CP2102-GM	416
2102	MPX2102D	510
2102	MPX2202A	510
2102	MPXM2102AS	510
2102	MPX2102GP	510
2102	ADP2102YCPZ-1.8	477
2102	ADP2102YCPZ-3	477
2103	LPC2103FBD48	574
2103	CP2103-GM	410
2103	IR2103SPBF	461
2103	IR2103PBF	461
2103	LPC2103FBD48	240
2103	IRS2103PBF	461
2103	IRS2103SPBF	461
2104	IR2104PBF	461
2104	IR2104SPBF	461

Index by Type for Semiconductor ICs

	Mftrs. List No.	Page
2104	IRS2104PBF	461
2104	IRS2104SPBF	461
2104	LPC2104BBD48.151	574
2104	LPC2104BBD48.151	240
2105	ADP2105ACPZ-1.5	477
2105	ADSP-2105BPZ-80	247
2105	ADP2105ACPZ-1.8	477
2105	LPC2105BBD48.151	574
2105	ADP2105ACPZ	477
2105	ADP2105ACPZ-3.3	477
2105	LPC2105BBD48.151	240
2106	LPC2106BBD48.151	240
2106	IRS2106SPBF	461
2106	ADP2106ACPZ-1.5	477
2106	IR2106PBF	461
2106	ADP2106ACPZ-1.8	477
2106	LPC2106BBD48.151	574
2106	FAN2106MPX	548
2106	ADP2106ACPZ-3.3	477
2106	ADP2106ACPZ	477
2106	IR2106SPBF	461
21060	ADSP-21060LCWZ-160	249
21061	ADSP-21061LKSZ-160	249
21061	ADSP-21061KSZ-160	249
21062	ADSP-21062LKSZ-160	249
21062	ADSP-21062LKBZ-160	249
21062	ADSP-21062KSZ-133	249
21064	IR21064SPBF	465
21064	IR21064PBF	465
21064	IRS21064PBF	465
21064	IRS21064SPBF	465
21065	ADSP-21065LKSZ-240	249
21065	ADSP-21065LCSZ-240	249
21065	ADSP-21065LKCAZ240	249
21065	ADSP-21065LKCAZ264	249
2107	OPA2107AP	314
2107	OPA2107AUE4	326
2107	ADP2107ACPZ	477
2107	ADP2107ACPZ-3.3	477
2107	ADP2107ACPZ-1.8	477
2107	ADP2107ACPZ-1.5	477
2108	IR2108PBF	461
2108	IRS2108PBF	461
2108	IR2108SPBF	461
21084	IR21084PBF	465
21084	IR21084SPBF	465
21084	IRS21084PBF	465
21084	IRS21084SPBF	465
2109	IRS2109PBF	461
2109	IR2109PBF	461
2109	IR2109SPBF	461
21091	IR21091SPBF	468
21091	IR21091PBF	468
21094	IR21094SPBF	465
21094	IRS21094PBF	465
21094	IRS21094SPBF	465
21094	IR21094PBF	465
211	SP211EEA-L	454
211	FSQ211	503
211	OPA211AIDG4	322
211	LM211DG..	428
211	SP211ECA-L	454
211	TPA0211DGNG4	532
211	ADM211EARZ	448
211	DG211BDY-E3	343
211	ADG211AKNZ	343
211	MAX211IDBG4	448
211	ADM211EARSZ	448
211	DG211BDJ	343
211	MAX211ECAI+	448
211	HIN211CAZ	448
211	MICRF211AYQS	354
211	LM211D	428
211	SSM2211SZ	532
211	U211B-MY	457
211	LM211H	428
211	HIN211ECBZ	448
211	DG211CJZ	343
211	HIN211CBZ	448
2110	IRS2110PBF	461
2110	IR2110PBF	570
2110	IR2110PBF	461
2110	IR2110SPBF	461
2110	IRS2110SPBF	461
2110	LM3S2110-IQC25	238
2111	OPA2111KM	326
2111	IRS2111SPBF	461
2111	IRS2111PBF	461
2111	IR2111SPBF	461
2111	TPS2111PWG4	477
2111	IR2111PBF	468
2111	OPA2111KP	314
2111	OPA2111KP.	314
2112	IR2112PBF	468
2112	IRS2112SPBF	461
2112	IR2112SPBF	461
2112	IRS2112PBF	461
21123	CY8C21123-24SXI	140
2113	IRS2113PBF	461
2113	IR2113SPBF	461
2113	IRS2113SPBF	461
2113	IR2113PBF	468
2114	IR2114SSPBF	461
2114	LPC2114FBD64,151	240

	Mftrs. List No.	Page
21141	IR21141SSPBF	465
2117	T2117-3ASY	477
2117	IR2117SPBF	461
2117	IRS2117PBF	461
2117	IRS2117SPBF	461
2117	TC2117-3.3VDBTR	557
2117	IR2117PBF	468
2118	IR2118SPBF	461
2118	IRS2118SPBF	461
2118	IRS2118PBF	461
2118	IR2118PBF	468
2119	LPC2119FBD64,151	240
2119	LPC2119FBD64,151	574
2119	DS2119ME+	453
212	ADG212AKRZ	343
212	ADG212AKNZ	343
212	DG212BDJ	343
212	MCP212XEV-DB	393
212	TPA0212PWP	532
2120	CP2120-GM	428
2121	IR2121PBF	468
21212	DCP021212P	488
21212	DCP021212DP	488
2122	MCP2122-E/SNG	393
2122	MCP2122-E/PG	393
21223	CY8C21223-24SXI	140
2125	IR2125PBF	468
2125	IR2125SPBF	461
2126	EL2126CSZ	308
2126	INA2126UAE4	336
2126	INA2126PA	336
2126	INA2126U	336
21261	ADSP-21261SKSTZ150	249
21262	ADSP-21262SKSTZ200	249
2127	IRS2127SPBF	461
2127	IR2127PBF	468
2127	IR2127SPBF	461
2127	IRS2127PBF	461
21271	IR21271PBF	465
21271	IR21271SPBF	465
2128	IRS2128SPBF	461
2128	IRS2128PBF	461
2128	IR2128SPBF	468
2128	IR2128PBF	468
2128	INA2128U	336
2129	LPC2129FBD64,151	240
213	OP213FSZ	312
213	OP213FPZ	312
213	SP213ECA-L	454
213	SP213EHCA-L	454
213	MICRF213AYQS	446
213	SP213EEA-L	454
213	ADM213EARZ	448
2130	MIC2130-1YTSE	477
2130	IR2130PBF	468
2130	IR2130JPBF	468
2130	OPA2130UA	308
2131	LPC2131FBD64,151	574
2131	OPA2131UJ	325
2131	OPA2131UAE4	326
2131	IR2131JPBF	468
2131	IR2131SPBF	461
2131	LPC2131FBD64,151	240
2132	OPA2132UE4	326
2132	OPA2132UAE4	326
2132	INA2132UAE4	333
2132	LPC2132FBD64,151	240
2132	LPC2132FBD64,151	574
2132	OPA2132PA	326
2132	INA2132U	333
2132	IR2132SPBF	461
21323	CY8C21323-24PVXI	140
21323	CY8C21323-24LFXI	140
2133	IR2133SPBF	461
2133	IR2133JPBF	461
2133	IR2133PBF	468
2134	OPA2134PA.	533
2134	OPA2134PA	308
2134	LPC2134FBD64,151	240
2134	LPC2134FBD64,151	574
2134	OPA2134UAE4	326
2134	INA2134UA	315
2134	OPA2134PA	572
2135	IR2135SPBF	461
2135	IR2135JPBF	468
2136	LPC2136FBD64,151	574
2136	LPC2136FBD64,151	240
2136	IR2136SPBF	461
2136	IR2136PBF	461
21362	ADSP-21362BSWZ-1AA	249
21362	IR21362PBF	465
21362	IR21362SPBF	465
21363	IR21363SPBF	465
21363	ADSP-21363KSWZ-1AA	249
21363	ADSP-21363BSWZ-1AA	249
21363	IR21363JPBF	465
21364	ADSP-21364KSWZ-1AA	249
21364	ADSP-21364BSWZ-1AA	249
21366	IR21366SPBF	465
21368	IR21368SPBF	465
2137	OPA2137UA	326
2138	LPC2138FBD64,151	574
2138	LPC2138FBD64,151	240
2139	LM3S2139-IQC25	238

	Mftrs. List No.	Page
2140	MCP2140DM-TMPSNS	393
2140	MCP2140-I/P	393
2140	MCP2140A-I/SO	393
2140	MCP2140A-I/P	393
2140	MCP2140-I/SO	393
21400	ISL21400IU8Z	492
2141	TLE2141ACD	308
2141	TLE2141AID	308
2141	TLE2141ID	308
2141	TLE2141CPE4	308
2141	SSM2141PZ	533
2141	TLE2141CD	308
2141	EL2141CSZ	445
2141	SSM2141SZ	333
2142	LPC2142FBD64	574
2142	SSM2142SZ	333
2142	TLE2142CDG4	315
2142	TLE2142ACDG4	315
2142	EL2142CSZ	446
2142	TLE2142AID	315
2142	SSM2142PZ	533
2142	TLE2142CP	315
2142	TLE2142ID	315
2142	LPC2142FBD64	240
2143	INA2143U	333
2143	SSM2143SZ	533
2143	SSM2143PZ	533
2144	TLE2144CDWG4	320
2144	TLE2144IDW.	320
2145	MIC2145YMM	477
215	MCP215XDM	393
2153	IR2153SPBF	461
2153	IR2153DPBF	468
2153	IRS2153DSPBF	461
2153	IRS2153DPBF	461
21531	IRS21531DPBF	465
21531	IR21531PBF	468
21531	IR21531SPBF	465
21531	IRS21531DSPBF	465
2155	DS2155LN+	452
2155	IR2155PBF	462
2156	IR2156PBF	462
2156	IR2156SPBF	462
21571	IR21571SPBF	465
21571	IR21571PBF	465
21592	IR21592SPBF	465
21592	IR21592PBF	465
21593	IR21593PBF	465
21593	IR21593SPBF	465
216	SSM2164PZ	528
2161	TLE2161ID	325
2161	IR2161SPBF	477
2161	IR2161PBF	477
2161	TLE2161CD	325
2164	SSM2164SZ	338
2166	SSM2166SZ	533
2166	IR2166PBF	462
2166	IRS2166DSPBF	477
2166	IRS2166DPBF	477
2166	IR2166SPBF	462
2168	MIC2168YMM	566
2168	IRS2168DSPBF	477
2168	IRS2168DPBF	477
217	LM217LD	543
217	INA217AIP	335
217	LM217MDT	545
217	LM217T	546
217	INA217AIDWT	335
217	LM217LZ	543
217	LM217T.	546
2175	IR2175SPBF	462
2175	IR2175PBF	462
2177	OP2177ARMZ-R2	315
2177	MIC2177YWM	477
2177	OP2177ARZ	315
21771	BU21771	521
218	MICRF218AYQS	446
2180	LMH2180SDE	348
2180	THAT2180AL08-U	338
2180	THAT2180BL08-U	338
2180	LMH2180YD	348
2180	THAT2180CL08-U	338
2181	IRS2181PBF	462
2181	IRS2181SPBF	462
2181	ADSP-2181BSTZ-133	247
2181	ADSP-2181BSZ-133	247
2181	THAT2181CL08-U	337
2181	THAT2181BL08-U	337
2181	THAT2181AL08-U	337
2181	ADSP-2181KSZ-160	247
2181	IR2181PBF	462
2181	ADSP-2181KSZ-133	247
2181	IR2181SPBF	462
2181	ADSP-2181KSTZ-133	247
2181	ADSP-2181KSTZ-160	247
21814	IR21814SPBF	465
21814	IR21814PBF	465
21814	IRS21814SPBF	465
2183	IR2183SPBF	462
2183	IRS2183PBF	462
2183	IR2183PBF	462
2183	ADSP-2183KSTZ-210	247
2183	IRS2183SPBF	462
21834	IRS21834PBF	465

	Mftrs. List No.	Page
21834	IRS21834SPBF	465
21834	IR21834SPBF	465
21834	IR21834PBF	465
2184	IRS2184PBF	462
2184	IRS2184SPBF	462
2184	IR2184SPBF	462
2184	ADSP-2184BSTZ-160	247
2184	IR2184PBF	462
21844	IRS21844PBF	465
21844	IRS21844SPBF	465
21844	IR21844SPBF	465
21844	IR21844PBF	465
2185	MIC2185YM	566
2185	ADSP-2185KSTZ-133	247
2185	ADSP-2185KSTZ-115	247
2185	ADSP-2185BSTZ-133	247
21851	IRS21851SPBF	465
2186	IRS2186SPBF	462
2186	ADSP-2186KSTZ-115	248
2186	ADSP-2186KSTZ-133	248
2187	ADSP-2187LBSTZ-210	248
2187	ADSP-2187NKSTZ-320	248
2189	ADSP-2189MKSTZ-300	248
2189	ADSP-2189NBSTZ-320	248
219	INA219AIDCNT	282
2196	MIC2196YM	462
22	GAL22V10D-4LJN	87
22	ISPGAL22V10C-15LJN	87
22	ISPGAL22V10C-10LJN	87
22	GAL22V10D-10QPN	87
22	GAL22V10D-15QPN	87
22	GAL22V10D-25QJN	87
22	GAL22V10D-7LJN	87
22	GAL22V10D-10LJN	87
22	GAL22V10D-25QPN	87
22	GAL22V10D-25LPN	87
22	VIPER22AS-E	469
22	GAL22V10D-15LPN	87
22	GAL22V10D-15LJN	87
22	VIPER22ADIP-E	469
22	TL022CD	312
22	ISPGAL22V10C15LK	87
22	GAL22V10D-7LPN	87
22	TSH22ID	312
22	GAL22V10D-5LJN	87
220	QT220-ISSG	512
220	MAX220CPE+	448
2200	CP2200-GQ	574
2200	TSC2200IPWG4	533
2200	MPX2200AP	510
2200	CP2200-GQ	410
2200	NCS2200AMUT1G	429
2201	TLC2201ACD	308
2201	TLC2201AIDG4	308
2201	TLC2201CDG4	308
2201	TLK2201BIRCP	355
2201	TLK2201AJRZQE	355
2201	TLC2201CP	328
2201	TNETE2201BPHD	355
2201	TNETE2201BPJD	355
2201	CP2201-GM	410
2201	TLC2201IP	328
2201	TLC2201ID	328
2202	TLC2202ACD	315
2202	TLC2202AID	315
2202	MIC2202YMM	566
2202	MPXM2202GS	510
2202	TLC2202CD	315
2202	MPXM2202AS	510
2202	TLC2202ID	329
2202	TLC2202IP	329
2206	TPS2206IDBG4	477
2207	MIC2207YML TR	566
2208	TLK2208BZPV	355
2208	TLK2208AZPV	355
2209	LTC2209IUP#PBF	287
2209	LTC2209CUP#PBF	287
221	ADG221KRZ	344
221	ADG221KNZ	343
221	MAX221EEAE+	453
221	TOP221YN	500
221	TOP221PN	500
221	LMV221SD	338
221	MAX221ECAE+	452
221	FSA221MUX	410
221	MAX221ECUE+	452
2210	SSM2210PZ	529
2210	SSM2210SZ	533
2210	LPC2210FBD144,551	240
22100	AD22100KTZ	525
22100	AD22100ATZ	525
22100	AD22100KRZ	525
22100	AD22100STZ	525
22103	AD22103KTZ	525
22103	AD22103KRZ	525
22105	AD22105ARZ	525
2211	TLV2211CDBVT	308
2211	TPS2211IDB	477
2211	TPS2211AIDB	477
2212	TS2PCIE2212ZAHR	410
2212	LPC2212FBD144,551	240
2213	IR2213SPBF	462
2213	IR2213PBF	462
2214	IR2214SSPBF	468

Index by Type for Semiconductor ICs

	Mftrs. List No.	Page
2214	LPC2214FBD144,557	241
2214	LPC2214FBD144,551	240
22141	IR22141SSPBF	465
2217	LTC2217IUP#PBF	287
2217	LTC2217CUP#PBF	287
2218	TLK2218ZPV	355
222	ADM222ANZ	347
222	MAX222CWN+	448
222	TOP222YN	500
222	TOP222PN	500
222	MAX222CPN+	448
2220	LPC2220FBD144	241
2220	NCS2220AMUT1G	429
2220	LPC2220FBD144,551	240
2220	SSM2220SZ	529
2220	SSM2220PZ	529
2221	TLV2221CDBVT..	308
2221	TLV2221IDBVTG4	308
2227	OPA2227PA.	315
2227	OPA2227PA	315
2227	OPA2227UAE4	315
2227	OPA2227UE4	315
2228	OPA2228PA..	315
2228	OPA2228UA	315
2228	OPA2228U..	315
22285	AD22285-R2	520
223	TOP223YN	573
223	TOP223YN	500
223	TOP223PN	500
2231	TLV2231CDBVR	308
2231	TPS2231PW	355
2231	LMP2231AMAE	323
2231	LMP2231AMFE	323
2231	LMP2231BMFE	323
2231	LMP2231BMAE	323
22313	ISL22313TFU10Z	434
22313	ISL22313UFU10Z	434
22313	ISL22313WFU10Z	434
22316	ISL22316WFU10Z	434
22316	ISL22316UFU10Z	435
22319	ISL22319UFU8Z	434
22319	ISL22319WFU8Z	434
2232	FT2232D/TR	412
2232	LMP2232BMME	323
2232	LMP2232BMAE	323
2232	LMP2232AMME	323
2232	LMP2232AMAE	323
22323	ISL22323UFR16Z	434
22323	ISL22323TFR16Z	434
22323	ISL22323WFR16Z	434
22326	ISL22326WFV14Z	434
22326	ISL22326UFV14Z	434
22329	ISL22329WFU10Z	434
22329	ISL22329UFU10Z	434
2233	SP233ECT-L	454
2233	IR2233SPBF	462
2233	IR2233JPBF	468
2234	OPA2234UA	315
2234	LMP2234AMA/NOPB	330
22343	ISL22343UFV20Z	434
22343	ISL22343WFV20Z	434
22343	ISL22343TFV20Z	434
22346	ISL22346UFV20Z	434
22346	ISL22346WFV20Z	434
22349	ISL22349UFV14Z	434
22349	ISL22349WFV14Z	434
2235	IR2235SPBF	468
2235	IR2235JPBF	468
2237	OPA2237UA	315
2237	OPA2237EA/250G4	308
2238	MIC2238-AAYML TR	477
224	LM224NE4	318
224	TOP224YN	500
224	TOP224PN	500
224	LM224NG	318
224	LM224J	318
224	LM224D	318
224	LM224DG	318
224	LM224N	318
224	LM224AD	318
224	LM224DR2G	322
224	LM224D	318
22400	MIC22400YML TR	488
2241	TLV2241ID	309
2241	OPA2241PAG4	315
2241	OPA2241UA	315
2241	TLV2241IDBVT	309
22414	ISL22414WFU10Z	434
22414	ISL22414UFU10Z	434
22414	ISL22414TFU10Z	434
22415	DCP022415DP	488
22415	DCP022415DU	488
22415	DCP022415DU.	488
22416	ISL22416UFU10Z	434
22416	ISL22416WFU10Z	434
22419	ISL22419WFU8Z	434
22419	ISL22419UFU8Z	434
2242	TLV2242ID	315
22424	ISL22424UFR16Z	434
22424	ISL22424WFR16Z	434
22424	ISL22424TFR16Z	434
22426	ISL22426UFV14Z	434
22426	ISL22426WFV14Z	434
22429	ISL22429UFU10Z	434
22429	ISL22429WFU10Z	434
2244	OPA2244UA	315
2244	OPA2244PA	315
2244	TLV2244ID	320
2244	OPA2244EA/250G4	315
22444	ISL22444TFV20Z	434
22444	ISL22444UFV20Z	434
22444	ISL22444WFV20Z	434
22446	ISL22446UFV20Z	434
22446	ISL22446WFV20Z	434
22449	ISL22449UFV14Z	434
22449	ISL22449WFV14Z	434
225	TOP225YN	500
2250	EL2250CSZ	309
2250	DS2250T-64-16+	428
2250	PCI2250PCMG4	419
2250	PCI2250PGF	419
2252	TLC2252CDRG4	315
2252	TLC2252CDG4	315
2252	TLV2252AIDG4	315
2252	THAT2252L08-U	437
2252	TLV2252IDG4	315
2252	TLC2252AIDG4	315
2252	TLC2252IDG4	315
2254	TLV2254IDG4	320
2254	TLC2254AIDG4	320
2254	TLC2254CDG4	320
2254	TLV2254AID	320
2254	TLC2254CNE4	320
2254	TLC2254IDG4	320
2257	FSA2257MUX	342
2257	FSA2257L10X	342
2257	FSA2257MTCX	342
226	TOP226YN	500
22600	MIC22600YML TR	488
2262	TLC2262CD	315
2262	TLC2262AIDG4	315
2262	TLC2262CP	315
2262	TLV2262IDG4	315
2262	TLC2262AIP	315
2262	TLV2262AID	329
2262	TLC2262IDG4	315
2262	TLV2262QD	315
2264	TLV2264AQD	331
2264	TLV2264AIDG4	320
2264	TLC2264CDG4	320
2264	TLC2264AIDG4	320
2264	TLC2264CN	320
2267	FSA2267AMUX	342
22670	LM22670MRE-5.0	505
22670	LM22670TJE-ADJ/NOPB	547
22670	LM22670TJE-5.0/NOPB	561
22670	LM22670MRE-ADJ	505
22670	LM22670TJE-5.0	505
22670	LM22670TJE-ADJ	505
22670	LM22670MRE-5.0/NOPB	561
22670	LM22670MRE-ADJ/NOPB	547
22670	LM22670MR-ADJ	488
22671	LM22671MRE-ADJ/NOPB	545
22671	LM22671MRE-5.0/NOPB	560
22671	LM22671MRE-ADJ	505
22671	LM22671MRE-5.0	505
22672	LM22672MRE-5.0	505
22672	LM22672MRE-ADJ/NOPB	545
22672	LM22672MRE-ADJ	505
22673	LM22673TJE-5.0/NOPB	562
22673	LM22673MRE-5.0	505
22673	LM22673MRE-ADJ/NOPB	547
22673	LM22673TJE-ADJ	505
22673	LM22673MRE-5.0/NOPB	562
22673	LM22673TJE-ADJ/NOPB	547
22673	LM22673MR-ADJ	488
22673	LM22673TJE-5.0	505
22673	LM22673MRE-ADJ	505
22674	LM22674MRE-ADJ	505
22674	LM22674MR-ADJ	488
22674	LM22674MRE-ADJ/NOPB	545
22674	LM22674MRE-5.0	505
22674	LM22674MRE-5.0/NOPB	560
22675	LM22675MR-ADJ	488
22675	LM22675MRE-ADJ/NOPB	545
22675	LM22675MRE-5.0	505
22675	LM22675MRE-ADJ	506
22675	LM22675MRE-5.0/NOPB	561
22676	LM22676MRE-5.0	506
22676	LM22676MRE-ADJ/NOPB	547
22676	LM22676TJE-ADJ/NOPB	547
22676	LM22676MRE-5.0/NOPB	562
22676	LM22676MR-ADJ	488
22676	LM22676MRE-ADJ	506
22676	LM22676TJE-5.0	506
22676	LM22676TJ-ADJ	488
22676	LM22676TJE-5.0/NOPB	562
22676	LM22676TJE-ADJ	506
22677	LM22677TJE-ADJ	506
22677	LM22677TJE-5.0	506
22677	LM22677TJ-ADJ	488
22677	LM22677TJE-ADJ/NOPB	548
22677	LM22677TJE-5.0/NOPB	562
22678	LM22678TJE-5.0/NOPB	562
22678	LM22678TJE-ADJ/NOPB	548
22678	LM22678TJE-5.0	506
22678	LM22678TJ-ADJ	488
22678	LM22678TJE-ADJ	506
22679	LM22679TJE-ADJ/NOPB	548
22679	LM22679TJ-ADJ	488
22679	LM22679TJE-ADJ	506
22679	LM22679TJE-5.0	506
22679	LM22679TJE-5.0/NOPB	562
2268	FSA2268UMX	342
2268	FSA2268TUMX	342
2269	FSA2269TSL10X	342
2269	FSA2269L10X	342
227	OPA227UA	304
227	OPA227PAG4	304
227	OPA227U	304
227	TOP227YN	573
227	TOP227YN	500
2270	U2270B-MFPY	357
2272	TLC2272AIP	315
2272	TLC2272IDG4	315
2272	TLC2272CD	315
2272	TLC2272AQDR	329
2272	TLC2272AIDG4	315
2272	TLC2272ACP	315
2272	TLC2272CP	315
2272	TLC2272IP	315
2272	TLC2272ACD	315
2272	TLC2272CDR.	315
2274	TLC2274AIDG4	320
2274	TLC2274CNE4	320
2274	TLC2274IDG4	320
2274	TLC2274AQDR	331
2274	TLC2274ACD	320
2274	TLC2274ACN	320
2274	TLC2274AQDRQ1	331
2274	TLC2274QD	320
2274	TLC2274CD	320
2274	TLC2274INE4	320
2277	OPA2277UA	315
2277	OPA2277U	315
2277	OPA2277P	315
2277	OPA2277UA/2K5E4	315
2277	IR2277SPBF	462
22771	IR22771SPBF	465
228	OPA228P	318
228	LMV228TL	354
228	OPA228U	318
2280	LCMXO2280C-5TN144C	102
2280	LCMXO2280E-3TN144C	102
2280	LCMXO2280C-3FTN256C	102
2280	LCMXO2280E-4FTN256C	102
2280	LCMXO2280C-4TN144C	102
2280	LCMXO2280E-3FTN256C	102
2280	LCMXO2280C-3TN144C	102
2280	LCMXO2280C-5TN100C	102
2280	LCMXO2280E-4TN144C	102
22800	CY22800FXC	349
2287	MIC2287CYD5 TR	462
2289	MIC2289-34YML TR	462
2289	MIC2289-15YML TR	442
229	DS229+	452
2290	LPC2290FBD144,551	240
2291	MIC2291YD5 TR	442
2291	ADP2291ARMZ	477
2292	MIC2292-34YML TR	462
2292	LPC2292FBD144,551	240
2292	LPC2292FBD144/01	241
2293	MIC2293C-34YML TR	462
2293	MIC2293-15YML TR	442
2294	LPC2294HBD144,551	240
2297	MIC2297-42YML TR	462
2298	MIC2298-15YML TR	442
2299	MIC2299-15YML TR	442
23	MCP23S08-E/P	410
23	MCP23X17EV	303
23	MCP23X08EV	427
23	MCP23S08-E/SO	410
23	MCP23S08-E/SS	428
23	MCP23S17-E/SO	410
23	TTL-232R-3V3	412
2300	MPX2300DT1	510
23008	MCP23008-E/SO	411
23008	MCP23008-E/P	428
23008	MCP23008-E/SS	357
2301	IR2301SPBF	462
2301	IR2301PBF	462
23016	MCP23016-I/SS	428
23016	MCP23016-I/SP	428
23016	MCP23016-I/SO	428
23017	MCP23017-E/SP	411
23017	MCP23017-E/SO	411
2302	IR2302SPBF	462
2302	IR2302PBF	468
2304	IR2304SPBF	462
2304	IR2304PBF	462
2304	IRS2304PBF	462
2304	IRS2304SPBF	462
2306	LMX2306TM	355
2308	IR2308SPBF	462
2308	IR2308PBF	462
2308	IRS2308SPBF	462
2308	LTC2308CUF#PBF	283
2308	LTC2308IUF#PBF	283
2309	LTC2309IUF#PBF	283
2309	LTC2309CUF#PBF	283
231	MAX231CPD+	448
231	LM231N/NOPB	437
2310	PGA2310UAG4	533
2310	PGA2310PA	533
2311	PGA2311UA.	533
2311	PGA2311PA	533
2313	ATTINY2313V-10SU	138
2313	ATTINY2313V-10PU	138
2313	ATTINY2313-20SU	138
2313	ATTINY2313-20PU	138
2313	ATTINY2313-20SU	570
2316	LMX2316TM	355
23173	BU23173	521
232	ADM232AANZ	347
232	HIN232ACBNZ	448
232	MAX232IN	448
232	NM232DDC	448
232	ICL232CBE	448
232	HIN232ACPZ	448
232	SP232EET-L	454
232	ST232CDR	347
232	SP232EEN-L	454
232	SP232ECT-L	454
232	HIN232IBZ	448
232	HIN232IPZ	448
232	HIN232CBZ	448
232	ADM232AARNZ	448
232	SP232ECP-L	454
232	SP232ECN-L	454
232	FT232BL/TR	412
232	HIN232CPZ	448
232	SP232AET-L	454
232	SP232ACN-L	454
232	SP232ACP-L	454
232	HIN232ECPZ	448
232	SP232ACT-L	454
232	HIN232ECBZ	448
232	SP232AEN-L	454
232	ADM232LJNZ	448
232	MAX232CWE+	448
232	MAX232CSE+	448
232	FT232RQ	412
232	MAX232CPE+	448
232	ICL232CPE	448
232	MAX232EWE+	448
232	US232R-100	412
232	MAX232ESE+	448
232	MAX232EPE+	448
232	MAX232ECWE+	448
232	ST232ABN	448
232	MAX232ECPE+	448
232	MAX232AEWE+	448
232	ICL232CBEZ	448
232	MAX232AESE+	448
232	MAX232AEPE+	448
232	MAX232IDW..	448
232	SP232AEP-L	454
232	MAX232NG4	448
232	MAX232ID	448
232	ST232ECN	448
232	MAX232DW	448
232	MAX232ACPE+	448
232	ADM232LJRZ	448
232	MAX232DG4	448
232	MAX232ECSE+	448
232	ST232CN	448
232	TOP232Y	501
232	FT232RL	412
232	MAX232EESE+	448
232	MAX232EEWE+	448
232	MAX232ACSE+	448
232	MAX232ACWE+	448
2322	TLV2322ID	315
2326	LMX2326TM	355
2326	LMX2326TM/NOPB	355
233	ADM233LANZ	347
233	TOP233YN	501
233	SP233ACP-L	454
233	SP233ACT-L	454
233	ADM233LJNZ	347
233	MAX233ACWP	448
2332	INA2332AIPWRG4	336
2333	OPA2333AIDG4	329
2335	OPA2335AIDG4	315
2335	OPA2335AIDRG4	315
2336	OPA2336P	309
2336	OPA2336E/250G4	315
2336	IRS2336DSPBF	462
2336	IRS2336DJPBF	462
2336	OPA2336UA	329
2336	OPA2336PA.	329
2336	OPA2336EA/250G4	315
2337	OPA2337UA	329
2337	OPA2337PA	329
2338	OPA2338UA	329
2338	OPA2338UA.	329
234	OPA234U.	304
234	MAX234CPE+	448
234	OPA234UAG4	304
234	TOP234YN	501
234	LM234Z	469
2340	OPA2340UA	329
2340	OPA2340EA/250	329
2340	OPA2340PAG4	329
2340	OPA2340EA/250G4	315
2342	OPA2342EA/250	329

Index by Type for Semiconductor ICs

	Mftrs. List No.	Page
2342	OPA2342UA	329
2342	TLV2342ID	315
2343	OPA2343UA	309
2343	OPA2343UA	315
2343	OPA2343EA/250	315
2344	OPA2344UA	315
2344	OPA2344PA	315
2347	OPA2347EA/250G4	315
2348	OPA2348AIDG4	315
2348	OPA2348AIDCNTG4	315
2349	OPA2349UAG4	329
235	LM235Z	469
2350	OPA2350EA/250G4	315
2350	OPA2350UA	329
2350	OPA2350EA/250	329
2350	OPA2350PA	329
2353	OPA2353EA/250	315
2353	OPA2353UA	315
2354	LMX2354TM	355
2354	OPA2354AIDDA	315
2355	LTC2355IMSE-14	291
2356	OPA2356AID	315
2356	LTC2356IMSE-14	291
2357	OPA2357AIDGST..	330
236	TMC236A-PA	460
236	LM236D-2-5..	553
236	TMC236A-PA	575
2361	TLV2361IDBVTE4	309
2361	TLV2361CDBVR	315
2362	TLV2362ID	315
2363	TPS2363PFB	420
2364	OPA2364ID	315
2364	OPA2364AIDG4	315
2364	OPA2364IDGKT.	315
2365	OPA2365AIDG4	315
2366	LTC2366IS6#PBF	284
2366	LTC2366HS6#PBF	283
2366	LTC2366CS6#PBF	283
2366	LTC2366ITS8#PBF	283
2366	LTC2366HTS8#PBF	283
2366	LTC2366CTS8#PBF	283
2367	FSA2367MTCX	343
2369	OPA2369AIDCNTG4	322
2369	OPA2369AIDGKTG4	322
237	LM237KC	546
237	OPA237NA/250	304
2370	TLV2370ID	309
2370	TLV2370IDBVT	309
2371	TLV2371ID	309
2371	TLV2371IDBVT	309
2372	TLV2372ID	315
2372	TLV2372IP	315
2372	TLV2372IDGKG4	315
2374	OPA2374AIDCNT..	330
2374	TLV2374IN	320
2374	OPA2374AIDG4	315
2374	TLV2374IPWG4	320
2374	TLV2374ID	320
2375	TPS2375PWG4	477
2375	TPS2375D	477
23753	TPS23753PW	488
2376	OPA2376AID	315
2376	OPA2376AIDGKT	315
2376	TPS2376DDA-HG4	477
2377	TPS2377D	477
23770	TPS23770PWP	489
2379	OPA2379AID	315
238	SP238ACT-L	454
238	MAX238EWG+	448
238	HIN238CBZ	448
238	HIN238CPZ	448
238	MAX238CNG+	448
238	MAX238CWG+	448
2380	FSA2380MTC	342
2380	OPA2380AIDGKTG4	309
2381	TLV2381ID	309
2381	TLV2381IDBVT	309
2382	TLV2382ID	315
239	LM239NG	431
239	HIN239CPZ	448
239	LM239DG	430
239	LM239D	430
239	LM239J	431
239	TMC239A-SA	460
239	LM239N.	431
239	LM239D	430
239	LM239ADT	430
239	LM239N	430
2392	TPS2392PW	477
24	24LC256-I/P	113
24	24LC64-I/SN	113
24	24LC32A-I/SN	113
24	24LC512-I/P	114
24	PIC24FJ256GA108-I/PT	199
24	24LC64-I/SM	113
24	PIC24FJ256GA110-I/PF	199
24	24AA02T-I/OT	112
24	24LC64-I/P	113
24	24LC512-I/SM	114
24	24LC515-I/SM	114
24	PIC24FJ256GA110-I/PT	199
24	24LC08B/P	112
24	M24C32-WMN6P	113
24	PIC24HJ32GP204-I/ML	199

	Mftrs. List No.	Page
24	24LC256-I/SM	570
24	M24C04-WBN6P	112
24	M24C32-WBN6P	113
24	M24C02-WBN6P	112
24	HT24LC02-8SOPLF	112
24	PIC24HJ32GP202-I/SP	199
24	MRF24J40-I/ML	353
24	PIC24HJ16GP304-I/ML	199
24	M24C01-WBN6	115
24	PIC24HJ16GP304-I/PT	199
24	PIC24HJ32GP202-I/SO	199
24	24AA02-I/SN	112
24	M24M01-RMN6P	114
24	24C02C-I/SN	112
24	MUX24FPZ	339
24	24LC65/SM	113
24	24LC65/P	113
24	24LC04B/SN	112
24	24LC08B/SN	112
24	24AA04T-I/OT	112
24	24LC128-I/SN	113
24	PIC24FJ128GB110-I/PT	199
24	24LC128-I/P	113
24	PIC24FJ128GB110-I/PF	199
24	PIC24FJ128GB108-I/PT	198
24	PIC24FJ128GB106-I/PT	198
24	PIC24FJ128GA110-I/PT	198
24	24LC00/SN	111
24	24LC02BT-I/OT	112
24	FM24C256-G	570
24	FM24C64-G	570
24	FM24CL64-G	570
24	24LC02B/SN	112
24	AT24C64CN-SH-B	113
24	AT24C64C-PU	113
24	AT24C512BN-SH25-B	114
24	AT24C512B-PU25	114
24	AT24C32C-SH-B	113
24	AT24C32C-PU	113
24	24LC32A/SN	113
24	24LC256-I/SN	113
24	24LC256-I/SM	113
24	24LC256-I/P	113
24	PIC24FJ256GA106-I/PT	199
24	PIC24FJ192GB110-I/PT	199
24	24LC16BT-I/OT	113
24	24AA04-I/MS	112
24	24LC32A/P	113
24	24LC16B-I/P	113
24	24LC16B/SN	113
24	24C65T-I/SM	113
24	24AA04-I/P	112
24	24AA04-I/SN	112
24	PIC24FJ192GB110-I/PF	199
24	PIC24FJ192GB108-I/PT	199
24	PIC24FJ192GB106-I/PT	199
24	PIC24FJ192GA110-I/PT	199
24	PIC24FJ192GA110-I/PF	199
24	PIC24FJ192GA108-I/PT	199
24	PIC24FJ192GA106-I/PT	199
24	24LC32A/SM	113
24	NRF24E2G	390
24	PIC24HJ64GP204-I/ML	199
24	NRF24Z1	390
24	NRF24AP1	390
24	24LC04B-I/P	112
24	PIC24HJ128GP204-I/ML	199
24	24LC02B-I/SN	112
24	24LC04B/P	112
24	24AA02-I/P	112
24	PIC24HJ128GP202-I/MM	199
24	PIC24FJ64GB110-I/PT	198
24	PIC24HJ128GP204-I/PT	199
24	PIC24FJ64GB110-I/PF	198
24	PIC24FJ64GB108-I/PT	198
24	24LC65-I/P	113
24	CAT24WC128WI	113
24	CAT24WC64WI	113
24	CAT24WC32WI	113
24	24LC01B/P	112
24	24LC16B/P	113
24	TSH24IN	312
24	PIC24HJ64GP202-I/SP	199
24	PIC24FJ128GA006-I/PT	575
24	PIC24FJ64GA006-I/PT	575
24	PIC24HJ128GP206-I/PT	575
24	PIC24HJ256GP206-I/PT	575
24	PIC24HJ64GP206-I/PT	575
24	PIC24HJ64GP202-I/SO	199
24	PIC24HJ64GP202-I/MM	199
24	PIC24HJ32GP304-I/PT	199
24	PIC24HJ32GP304-I/ML	199
24	PIC24HJ32GP302-I/SP	199
24	PIC24HJ32GP302-I/SO	199
24	PIC24HJ32GP302-I/MM	199
24	PIC24HJ12GP202-I/SS	199
24	PIC24HJ128GP504-I/PT	199
24	PIC24HJ128GP504-I/ML	199
24	PIC24HJ128GP502-I/SP	199
24	PIC24HJ128GP502-I/SO	199
24	PIC24HJ128GP502-I/MM	199
24	M24C08-WMN6P	112
24	24AA01T-I/OT	112
24	PIC24HJ64GP204-I/PT	199

	Mftrs. List No.	Page
24	PIC24HJ64GP502-I/MM	199
24	PIC24HJ64GP502-I/SO	199
24	PIC24HJ64GP502-I/SP	199
24	PIC24HJ64GP504-I/ML	199
24	PIC24HJ64GP504-I/PT	199
24	PIC24FJ32GA004-I/PT	198
24	PIC24FJ64GA002-I/SO	198
24	PIC24FJ64GA002-I/SP	198
24	PIC24FJ64GA004-I/PT	198
24	24AA01-I/SN	112
24	PIC24FJ256GB106-I/PT	199
24	24AA01-I/P	112
24	24AA01-I/MS	112
24	24AA00T-I/OT	111
24	AT24C1024BW-SH25-B	570
24	PIC24HJ32GP204-I/PT	199
24	24AA00-I/SN	111
24	ATTINY24V-10SSU	137
24	PIC24FJ64GB106-I/PT	198
24	PIC24FJ256GB110-I/PT	199
24	PIC24FJ256GB110-I/PF	199
24	CAT24WC16WI	113
24	ATTINY24V-10PU	137
24	M24C64-WMN6P	113
24	PIC24FJ256GB108-I/PT	199
24	M24C64-WBN6P	113
24	24AA02-I/MS	112
24	M24C16-WBN6P	113
24	M24C16-WMN6P	113
24	M24C01-WBN6P	112
24	PIC24FJ32GA002-I/SO	198
24	ATTINY24-20SSU	137
24	M24C01-WMN6P	112
24	M24C02-WMN6P	112
24	ATTINY24-20PU	137
24	PIC24FJ32GA002-I/SP	198
24	M24C04-WMN6P	112
24	M24C08-WBN6P	112
24	FM24CL64-G	108
24	24AA256-I/SN	113
24	PIC24FJ128GA008-I/PT	198
24	PIC24FJ128GA006-I/PT	198
24	24LC256T-I/SN	114
24	FM25CL64-G	108
24	24AA256-I/P	113
24	24AA256-I/MS	113
24	FM24C256-G	108
24	AT24HC02B-PU	112
24	AT24C02B-PU	112
24	AT24C01BN-SH-B	112
24	AT24C04B-PU	112
24	AT24C01B-PU	112
24	24LC00-I/P	111
24	24LC256T-I/SM	113
24	PIC24HJ256GP210-I/PF	199
24	PIC24FJ128GA106-I/PT	198
24	AT24C08B-PU	112
24	FM25CL64-G	570
24	24C02C/P	112
24	24FC1025-I/SM	114
24	24LC01B-I/SN	112
24	24LC08B-I/P	112
24	24LC08B-I/SN	112
24	24LC1025-I/P	114
24	24LC128-I/ST	113
24	24LC128T-I/SN	113
24	PIC24FJ128GA108-I/PT	198
24	AT24C04BN-SH-B	112
24	24LC16B-I/SN	113
24	24AA256-I/MF	113
24	24LC256-I/ST	113
24	24AA512-I/P	114
24	24AA512-I/SM	114
24	24LC64T-I/MC	113
24	PIC24HJ64GP506-I/PT	199
24	24LC64-I/MS	113
24	24LC64-I/ST	113
24	24AA64-I/MS	113
24	24LC64T-I/SN	113
24	PIC24HJ64GP210-I/PF	199
24	PIC24HJ64GP206-I/PT	199
24	24AA512-I/MF	114
24	24AA64-I/P	113
24	24AA64-I/SN	113
24	24AA64T-I/MC	113
24	24AA32AT-I/MC	113
24	PIC24HJ256GP610-I/PT	199
24	24AA32A-I/MS	113
24	24LC512-I/SM	570
24	PIC24HJ64GP510-I/PT	199
24	PIC24HJ256GP210-I/PT	199
24	24AA32A-I/P	113
24	FM24C64-G	108
24	FM24C16A-G	108
24	FM24C04A-G	108
24	AT24C512BN-SH-B	114
24	PIC24FJ128GA010-I/PF	198
24	PIC24FJ128GA010-I/PT	198
24	PIC24HJ256GP610-I/PF	199
24	AT24C256B-PU	113
24	AT24C1024BN-SH25-B	114
24	24LC512-I/P	570
24	AT24C02BN-SH-B	112
24	24AA65/P	113

	Mftrs. List No.	Page
24	PIC24FJ96GA010-I/PF	198
24	PIC24HJ128GP206-I/PT	199
24	PIC24HJ128GP210-I/PF	199
24	PIC24HJ128GP210-I/PT	199
24	24LC08B-I/MS	112
24	PIC24HJ128GP306-I/PT	199
24	24LC04B-I/MS	112
24	24LC512-I/MF	114
24	24LC01B/SN	112
24	24LC02B-I/MS	112
24	24LC00T-I/OT	111
24	24LC00/P	111
24	AT24C1024BW-SH25-B	114
24	PIC24HJ128GP310-I/PF	199
24	PIC24FJ128GA110-I/PF	198
24	24AA08-I/MS	112
24	24AA08-I/SN	112
24	AT24C16BN-SH-B	113
24	AT24C16B-PU	113
24	AT24C128BN-SH-B	113
24	AT24C128B-PU	113
24	24LC32A-I/P	113
24	24LC32A-I/MS	113
24	24LC256-I/MS	114
24	24LC16B-I/MS	113
24	PIC24FJ64GA006-I/PT	198
24	24LC02B/P	112
24	PIC24FJ64GA008-I/PT	198
24	24LC01BT-I/OT	112
24	PIC24FJ64GA010-I/PF	198
24	24LC128-I/MS	113
24	PIC24FJ96GA006-I/PT	198
24	24LC1025-I/SM	114
24	PIC24FJ96GA008-I/PT	198
24	PIC24HJ256GP206-I/PT	199
24	24LC00-I/SN	111
24	24LC014-I/MS	112
24	PIC24HJ128GP510-I/PF	199
24	24LC014-I/P	112
24	PIC24HJ32GP202-I/MM	199
24	24LC014-I/SN	112
24	24FC512-I/SM	114
24	24LC256-I/SN	570
24	24AA16T-I/OT	113
24	24C65/P	113
24	24LC01B-I/MS	112
24	24LC024-I/MS	112
24	AT24C08BN-SH-B	112
24	24AA08T-I/OT	112
24	PIC24HJ128GP310-I/PT	199
24	24AA128-I/MS	113
24	AT24C1024B-PU25	114
24	24C65T/SM	113
24	PIC24HJ128GP506-I/PT	199
24	24C65-I/P	113
24	24LC024-I/SN	112
24	24AA16-I/MS	112
24	24AA16-I/P	113
24	24LC024-I/P	112
24	24AA16-I/SN	113
240	EPM240T100C5N	90
240	EPM240ZM100C6N	91
240	EPM240ZM100C7N	91
240	EPM240ZM68C6N	91
240	EPM240T100C4N	90
240	PA240CC	324
240	QT240-ISSG	512
240	PA240CX	324
240	EPM240ZM68C7N	91
240	EPM240T100C5N	574
2400	CC2400-RTB1	355
2400	ADUM2400CRWZ	456
2400	LTC2400CS8#PBF	289
2400	ADUM2400BRWZ	456
2400	ADUM2400ARWZ	456
24002	BQ24002PWPG4	489
24005	BQ24005PWP	489
2401	LTC2401CMS#PBF	290
2401	DS2401P+	515
2401	TLV2401IDBVT	309
2401	TLV2401CD	309
2401	ADUM2401ARWZ	456
2401	ADUM2401BRWZ.	456
2401	ADUM2401CRWZ	456
2401	DS2401+	515
2401	DS2401Z+	515
24010	BQ24010DRCRG4	489
24018	BQ24018DRCT	489
2402	TLV2402IDG4	315
2402	ADUM2402CRWZ	457
2402	NRF2402G	390
2402	ADUM2402BRWZ	457
2402	ADUM2402ARWZ	456
2402	TLV2402CD	315
2402	LTC2402CMS#PBF	290
2402	SSM2402PZ	342
24025	BQ24025DRCR	489
2404	TLV2404ID	320
2404	LTC2404CG#PBF	290
2405	DS2405Z+	515
2405	DS2405+	515
2406	DS2406P+	342
24070	BQ24070RHLTG4	489
24072	BQ24072RGTT	489

Index by Type for Semiconductor ICs

	Mftrs. List No.	Page
2408	LTC2408CG#PBF	290
24081	BQ24081DRCT	489
24083	BQ24083DRCT	489
24088	BQ24088DRCT	489
2409	DS2409P+	518
241	PA241CE	324
241	MAX241ECAI+	448
241	OPA241PA	304
241	PA241DF	324
241	OPA241UA	304
2410	TPS2410PW	477
2410	LTC2410CGN#PBF	289
2410	LM3S2410-IQC25	238
24100	BQ24100RHLR	489
24103	BQ24103RHLR	489
24105	BQ24105RHLR	489
24108	BQ24108RHLR	489
2411	LTC2411CMS#PBF	290
2411	LTC2411-1CMS#PBF	290
24113	BQ24113ARHLTG4	489
24113	BQ24113RHLR	489
2412	LM3S2412-IQC25	238
24120	BQ24120RHLTG4	489
24123	CY8C24123A-24PXI	140
24123	BQ24123RHLTG4	489
24123	CY8C24123A-24SXI	140
24128	M24128-BWMN6P	113
2413	LTC2413IGN#PBF	289
2414	LTC2414CGN#PBF	290
24150	BQ24150YFFT	489
24151	BQ24151YFFT	489
242	TD242LP	415
242	ADM242ANZ	347
242	LMV242LD	354
242	TOP242PN	501
242	TOP242YN	501
242	TOP242G	501
2420	CC2420-RTB1	355
2420	LTC2420CS8#PBF	298
2420	CC2420Z-RTB1	355
2420	CC2420Z-RTB1	574
24200	BQ24200DGN	489
24202	BQ24202DGN	489
2421	LTC2421CMS#PBF	290
2422	TLV2422ID	315
2422	LTC2422CMS#PBF	290
24223	CY8C24223A-24PVXI	140
2424	LTC2424CG#PBF	290
2425	TLE2425CLP	539
2425	TLE2425CD	518
2425	TLE2425IDG4	518
24256	M24256-BWMN6P	113
24256	M24256-BWMW6G	113
2426	TLE2426ILP	518
2426	TLE2426CD	518
2426	TLE2426CLPE3	518
2426	TLE2426ILP.	518
2426	TLE2426ID	518
2426	TLE2426CP	518
2426	TLE2426IP	518
2428	LTC2428CG#PBF	290
243	TOP243YN	501
243	PA243DF	324
243	RPI243	518
243	TLV2432IDG4	312
2430	DS2430A+	110
2430	LMX2430SLEX	355
2430	CC2430ZF128RTC	374
2430	DS2430AP+	110
2430	CC2430F128RTC	374
2431	LTC2431CMS#PBF	290
2431	CC2431RTC	374
2431	CC2431ZRTC	374
2431	TS2431ILT	541
2432	LM3S2432-IQC50	238
2432	TLV2432CD	320
2433	LTC2433-1CMS#PBF	290
2433	DS2433S+	110
2433	DS2433+	110
2436	LTC2436-1CGN#PBF	290
2436	LTC2436-1IGN#PBF	287
2438	DS2438AZ+	477
24381	BQ24381DSGT	489
244	OPA244NA	304
244	OPA244UA	304
244	OPA244PA	304
244	TOP244YN	501
244	TOP244PN	501
244	LIS244AL	518
2440	LTC2440CGN#PBF.	289
2440	LTC2440IGN#PBF	289
244002	AC244002	178
2442	TLV2442ID	320
2442	TLV2442CDG4	315
2442	LTC2442CG#PBF	290
24423	CY8C24423A-24PXI	140
24423	CY8C24423A-24LFXI	140
245	FT245RQ	412
245	FT245RL	412
245	TOP245YN	501
245	FT245BL/TR	412
245	TOP245PN	501
2450	DS2450S+	299
2451	LTC2451IDDB#PBF	287

	Mftrs. List No.	Page
2451	LTC2451CDDB#PBF	287
24512	M24512-WMW6G	114
2452	TLV2452CD	315
2452	LTC2452CDDB#TRMPBF	287
2452	LTC2452IDDB#TRMPBF	287
2452	TLV2452AID	315
2453	IRS2453DSPBF	462
2453	IRS2453DPBF	462
246	TOP246P	501
246	TOP246PN	501
246	TOP246YN	501
2460	TLV2460CD	309
2460	TLV2460ID	309
2461	TLV2461CDBVT	309
2461	TLV2461ID	309
2462	TLV2462CD	315
2462	TLV2462IDG4	315
2462	TLV2462AID	315
2464	TLV2464IDG4	320
2464	TLV2464CNE4	320
2464	TLV2464CD	320
2464	TLV2464AID	320
2467	FSA2467MPX	342
247	TOP247YN	501
24702	BQ24702PWG4	489
24703	BQ24703PWG4	489
24703	BQ24703PW.	489
24703	BQ24703PW	489
24705	BQ24705RGET	489
2471	TLV2471IDBVT	328
2471	TLV2471CD	309
2472	TLV2472AID	316
2472	TLV2472CD	316
2472	TLV2472ID	316
2473	TLV2473CD	316
2474	TLV2474AIN	320
24745	BQ24745RHDT	489
24751	BQ24751ARHDT	489
24794	CY8C24794-24LFXI	140
248	TOP248YN	501
248	LM248D	318
2480	CC2480A1RTC	355
2480	LTC2480CDD#PBF	290
2480	DS2480B+	445
2481	LTC2481CDD#PBF	290
2482	DS2482S-800+	355
2482	LTC2482CDD#PBF	290
2482	DS2482S-100+	477
2483	LTC2483CDD#PBF	290
2483	ADM2483BRWZ	450
2484	LTC2484CDD#PBF	290
2485	LTC2485CDD#PBF	290
2485	ADM2485BRWZ	450
2486	ADM2486BRWZ	450
2487	LMX2487ESQE	355
24894	CY8C24894-24LFXI	140
24894	CY8C27143-24PXI	140
249	OP249GPZ	326
249	TOP249YN	573
249	TOP249YN	501
2490	TPS2490DGSG4	477
2490	ADM2490EBRWZ	450
24901	BQ24901PW	489
2491	TPS2491DGSG4	477
2492	LTC2492CDE#PBF	289
2498	LTC2498IUHF#PBF	289
2498	LTC2498CUHF#PBF	289
2499	LTC2499CUHF#PBF	289
25	FM25C160-G	108
25	25LC040/SN	116
25	TLC25M2CD	312
25	LF25ABDT	553
25	TLC25L2CD	312
25	25LC320A-I/SN	116
25	25AA020A-I/SN	116
25	25AA020A-I/P	116
25	25AA010A-I/MS	115
25	M25P10-AVMN6P	120
25	25AA010A-I/P	115
25	25AA010A-I/SN	115
25	M25P16-VMF6P	120
25	25LC320A-I/P	116
25	25AA010AT-I/OT	115
25	25LC320A-I/MS	116
25	25LC256-I/P	117
25	25LC160B-I/MS	116
25	25AA040A-I/MS	116
25	25AA020A-I/MS	116
25	M25P05-AVMP6G	120
25	M25P16-VME6G	120
25	M25P20-VMP6G	120
25	25LC080/SN	116
25	25LC160/P	116
25	25LC320/SN	116
25	M25P32-VME6G	120
25	KF25BD	553
25	25AA020AT-I/OT	116
25	DS25BR204TSQ	345
25	M25P40-VMP6TG	120
25	M25P80-VMP6G	120
25	DS25CP152TSQ	345
25	S25FL040A0LMFI001	117
25	S25FL032A0LMFI001	117
25	S25FL128P0XMFI001	117

	Mftrs. List No.	Page
25	S25FL008A0LMFI001	117
25	S25FL016A0LMFI001	117
25	25LC256-I/SN	117
25	S25FL064A0LMFI001	117
25	DS25BR440TSQ/NOPB	331
25	25LC080A-I/MS	116
25	25AA256-I/ST	117
25	25AA320A-I/MS	116
25	25AA320A-I/P	116
25	LM2577T-12/NOPB	563
25	25AA320A-I/SN	116
25	25AA640-I/SN	116
25	25LC040AT-I/OT	116
25	25AA640X-I/ST	116
25	25LC010A-I/P	116
25	25LC040A-I/SN	116
25	25LC040A-I/P	116
25	25LC040A-I/MS	116
25	25LC010A-I/SN	116
25	25LC010AT-I/OT	116
25	DS25CP102TSQ/NOPB	342
25	25LC080A-I/SN	116
25	M25P40-VMN6P	120
25	M25P20-VMN6P	120
25	M25P05-AVMN6P	120
25	25LC020A-I/MS	116
25	25LC020A-I/P	116
25	25LC020A-I/SN	116
25	25LC020AT-I/OT	116
25	ATTINY25-20PU	137
25	ATTINY25-20SU	137
25	CAT25C08VI	116
25	CAT25C64VI	116
25	ATTINY25V-10PU	137
25	ATTINY25V-10SU	137
25	25AA040A-I/P	116
25	M25P80-VMW6G	120
25	25AA040A-I/SN	116
25	25AA040AT-I/OT	116
25	25AA080A-I/P	116
25	25AA080A-I/SN	116
25	25AA080B-I/SN	116
25	25AA160A-I/SN	116
25	25LC1024-I/MF	117
25	25AA160B-I/SN	116
25	LF25CPT	553
25	25LC040/P	116
25	25LC040-I/SN	116
25	25LC160/SN	116
25	25LC160-I/SN	116
25	25LC320/P	116
25	25AA256-I/SN	117
25	25AA256-I/P	117
25	M25P16-VMF6P	571
25	M25P40-VMN6P	571
25	25AA256-I/MF	117
25	25LC1024-I/P	117
25	DS25BR120TSD/NOPB	331
25	M25P80-VMW6G	571
25	25LC1024-I/SM	117
25	DS25CP104ATSQ	344
25	25LC160A-I/SN	116
25	M25P32-VME6G	574
25	DS25BR110TSD/NOPB	331
25	25LC640-I/SN	116
25	25LC640-I/P	116
250	ZRC250F03TA	538
250	MAX250CSD+	448
250	ZRC250F02TA	538
250	TOP250YN	501
250	ZMR250C	553
250	MAX250CPD+	448
250	ZMR250F	553
250	ZRC250F01TA	538
2500	CC2500-RTY1	355
2500	CC2500RTK	355
2500	PGA2500IDBG4	533
25005	LM25005MH	489
25007	LM25007SD	489
25007	LM25007MM	489
25010	LM25010SD	489
25010	LM25010MH	489
25015	BQ25015RHLT	489
2502	DS2502P-E48+	109
2502	DS2502+	515
25037	LM25037MT	465
2505	LMX2505LQ1321	355
2505	MIC2505-2YM	477
25050	MCP25050-I/P	427
250501	DV250501	424
2506	DS2506S+	109
2506	MIC2506YM	477
251	TLC251CPE4	304
251	MAX251CPD+	448
251	OPA251PA	304
251	TLC251CDG4	304
2510	CC2510F32RSP	374
2510	CC2510F8RSP	374
2510	CC2510F16RSP	374
2510	MCP2510-I/ST	424
2510	MCP2510-I/SO	424
2510	MCP2510-I/P	424
2511	CC2511F8RSP	374
2511	CC2511F32RSP	374

	Mftrs. List No.	Page
2511	CC2511F16RSP	374
25115	LM25115MT	489
25115	LM25115AMT	489
25116	LM25116MH/NOPB	489
2514	MIC2514YM5 TR	477
2515	MCP2515-E/SO	427
2515	MCP2515-E/ST	427
2515	MCP2515-I/P	427
2515	MCP2515-I/SO	427
2515	MCP2515DM-PCTL	425
2515	MCP2515-I/ST	427
252	TLC252CD	312
2520	IR2520DPBF	462
2520	IR2520DSPBF	462
2520	CC2520RHDT	355
2521	TLK2521IPAP	410
2524	LM2524DN/NOPB	477
2524	SG2524N	477
2524	UC2524ADWG4	477
2524	SG2524D	477
2524	UC2524ANG4	477
2524	SG2524N.	477
2525	UC2525ANG4	477
2525	SP2525A-2EN-L	261
2526	UC2526ADWG4	477
2526	UC2526ANG4	477
2526	SP2526-1EN-L	261
253	MAX253CSA+	470
253	MAX253CPA+	445
2531	LMX2531LQ1415E	355
2531	LMX2531LQ1742	518
2531	LMX2531LQ1312E	355
2531	LMX2531LQ1515E	355
2532	ISD2532PY	530
2532	LMX2532LQ0967	355
2533	LM3S2533-IQC50	238
254	TOP254YN	501
254	TOP254MN	501
254	TOP254GN	501
254	TOP254PN	501
2540	IRS2540SPBF	462
2540	IRS2540PBF	462
2541	IRS2541PBF	462
2541	IRS2541SPBF	462
2542	TLV2542IDGK	284
2542	TLV2542ID.	284
2543	TLC2543CDWG4	284
2543	TLC2543IN	284
2543	TLC2543IDWG4	284
2543	TLC2543CFNG3	284
2543	TLC2543IDW	284
2543	TLC2543CN	284
2544	MIC2544-1YM	477
2544	MIC2544-2YM	477
2544	OPA2544TG3	316
2548	TLV2548CDWG4	284
2548	TLV2548IPWG4	284
255	TOP255MN	501
255	TOP255GN	501
255	TOP255YN	501
255	TOP255PN	501
2550	CC2550-RTY1	355
2551	MCP2551-I/P	427
2551	MCP2551-E/P	427
2551	MCP2551-I/SN	427
2552	TLC2552IDGKG4	284
2553	TLV2553IDW	284
2556	TLV2556IDW	284
2556	TLV2556IPW.	284
25574	LM25574MT	489
25575	LM25575MH	489
25576	LM25576MH	489
25577	LM2577T-ADJ/NOPB	547
2559	UDN2559B-T	458
256	S29GL256N10FFI020	117
256	NAND256W3A2BN6E	122
256	LCMXO256C-5TN100C	101
256	TOP256YN	501
256	TOP256GN	501
256	TOP256PN	501
256	TOP256MN	501
256	LCMXO256E-4TN100C	101
256	LCMXO256E-3TN100C	101
256	LCMXO256C-4TN100C	101
256	LCMXO256C-3TN100C	101
2560	ATMEGA2560-16AU	138
2560	ATMEGA2560-16AU	573
2560	ATMEGA2560V-8AU	138
2561	ATMEGA2561-16AU	138
2561	ATMEGA2561V-8AU	138
25640	FM25640-G	108
257	TOP257PN	501
257	TOP257GN	501
257	TOP257YN	501
257	TOP257MN	501
2574	LM2574HVM-12/NOPB	563
2574	NCV2574DW-ADJR2G	477
2574	LM2574HVM-3.3/NOPB	557
2574	LM2574M-12/NOPB	563
2574	LM2574N-3.3G	477
2574	LM2574N-ADJ	504
2574	LM2574N12.	504
2574	LM2574M-5.0	504
2574	LM2574HVN-5.0	504

Index by Type for Semiconductor ICs

	Mftrs. List No.	Page
2574	LM2574N-ADJG	549
2574	LM2574M-ADJ	504
2574	LM2574HVN-ADJ	504
2574	LM2574N-3.3	504
2574	LM2574N33.	504
2574	LM2574N-5G	549
2574	LM2574N-12G	549
2574	LM2574HVN-ADJ	571
2574	LM2574HVN-5.0	571
2575	LM2575T-15	504
2575	LM2575T-12	504
2575	LM2575HVS-15/NOPB	564
2575	LM2575HVS-12/NOPB	563
2575	LM2575T-5.0	504
2575	LM2575T-ADJ	504
2575	LM2575HVN-5.0/NOPB	561
2575	LM2575HVT-ADJ	571
2575	LM2575N-5.0	504
2575	LM2575S-5.0	571
2575	LM2575M-ADJ	504
2575	LM2575M-5.0	504
2575	LM2575S-3.3	504
2575	LM2575T-3.3	504
2575	LM2575HVT-12	504
2575	LM2575HVT-15	504
2575	LM2575D2T-015G	549
2575	LM2575S-ADJ	504
2575	LM2575D2T-ADJG	549
2575	TL2575-05IN	477
2575	LM2575S-5.0	504
2575	LM2575T-5.0	571
2575	LM2575HVT-5.0	504
2575	LM2575HVT-5.0	571
2575	LM2575HVT-ADJ	504
2576	LM2576HVS-ADJ	504
2576	LM2576T-5.0	571
2576	LM2576T33.	504
2576	LM2576S-ADJ/NOPB	547
2576	LM2576T-3.3	504
2576	LM2576S-12/NOPB	563
2576	LM2576HVS-3.3/NOPB	558
2576	LM2576T-ADJ	504
2576	LM2576D2T-ADJG	549
2576	LM2576T-5.0	504
2576	LM2576T-12	504
2576	LM2576T-15	504
2577	LM2577T-15	504
2577	LM2577-ADJ	504
2577	LM2577S-15/NOPB	564
2577	LM2577-ADJ	571
2577	LM2577T15.	504
2577	LM2577S-12/NOPB	563
2578	LM2578AM/NOPB	477
2579	LM2597HVM-12/NOPB	563
258	LM258DG	312
258	TOP258GN	501
258	TOP258MN	501
258	TOP258YN	501
258	LM258NG	312
258	LM258D	312
258	LM258AP	312
258	KA258D	312
258	TOP258PN	501
258	KA258	312
2585	LM2585T-ADJ	504
2585	LM2585T50	504
2586	LM2586S-5.0/NOPB	477
2587	LM2587S-ADJ	505
2587	LM2587S-5.0	505
2587	LM2587T-12/NOPB	564
2587	LM2587T-5.0	505
2587	LM2587T-ADJ	505
2587	LM2587T-ADJ	571
2588	LM2588T-ADJ	505
2588	LM2588T-5.0	505
2590	LM2590HVT-ADJ.	478
2590	LM2590HVT-5.0.	478
2590	LM2590HVT-3.3	478
2590	LM2590HVT-5.0	478
2590	LM2590HVT-ADJ	478
2590	LM2590HVS-ADJ.	478
2591	CC2591RGVT	355
2591	LM2591HVT-ADJ	478
2591	LM2591HVT-3.3.	478
2591	LM2591HVT-3.3	478
2591	LM2591HVT-5.0	478
2592	LM2592HVT-ADJ	478
2592	LM2592HVT-5.0	478
2592	LM2592HVT-3.3	478
2592	LM2592HVS-ADJ	505
2592	LM2592HVS-ADJ	571
2592	LM2592HVT-ADJ	571
2593	LM2593HVS-ADJ/NOPB	547
2593	LM2593HVT-ADJ.	478
2593	LM2593HVT-5.0	478
2594	LM2594N-12	505
2594	LM2594M-ADJ	505
2594	LM2594N-ADJ	505
2594	LM2594N-5.0	505
2594	LM2594HVM-ADJ	505
2594	LM2594M-3.3	505
2594	LM2594N-3.3	505
2594	LM2594HVM-12	563
2594	LM2594M-5.0	505

	Mftrs. List No.	Page
2594	LM2594HVN-ADJ	505
2595	LM2595T-3.3	505
2595	LM2595T33.	505
2595	LM2595T-5.0	505
2595	LM2595S12	505
2595	LM2595T-12	505
2595	LM2595S-3.3	505
2595	LM2595S-5.0	505
2595	LM2595S-ADJ	505
2595	LM2595T-ADJ	505
2596	LM2596S-3.3/NOPB	558
2596	LM2596T-ADJ	505
2596	LM2596S-12	505
2596	LM2596S-ADJ	505
2596	LM2596S-ADJ	571
2596	LM2596T33	505
2596	LM2596T-12	505
2596	LM2596T-ADJ	571
2596	LM2596T-5.0	505
2596	LM2596S-5.0	505
2596	LM2596S-3.3	505
2597	LM2597N50.	505
2597	LM2597HVM-3.3	557
2597	LM2597HVM-ADJ.	478
2597	LM2597N-5.0	505
2597	LM2597N-12	505
2597	LM2597N-ADJ	505
2597	LM2597M-3.3	505
2597	LM2597M-5.0	505
2597	LM2597M-ADJ	505
2599	LM2599T-5.0	505
2599	LM2599T50.	505
2599	LM2599T-12	505
2599	LM2599T-ADJ	505
26	DS26LS32ACN	446
26	LM26CIM5-SHA	522
26	DS26LS31CN	445
26	LM26CIM5-NPA	522
26	DS26LS31CM	445
26	DS26C31TN	445
26	ST26C31BN	445
26	AT26DF321-SU	118
26	LM26CIM5-SPA	522
26	SC26C92C1N	417
26	SC26C92A1A	417
26	DS26C31TM	445
26	DS26C32ATM	446
26	AM26LS31CNE4	445
26	LM26LVCISD/NOPB	522
26	LM26CIM5-RPA	522
26	AM26LS32ACN	446
26	AM26LS32ACD	446
26	ATTINY26-16PU	137
26	ATTINY26-16SU	137
26	ATTINY26L-8PU	137
26	ATTINY26L-8SU	137
26	LM26CIM5-PHA	522
26	SP26LV431CN-L	454
26	SP26LV432CN-L	454
26	AM26C31ID	445
26	AM26LS31CD..	445
26	AM26C32CN....	446
26	AM26C31IN	445
26	AM26C31ID.	445
26	DS26LS32CN	446
26	DS26LS32CM	446
26	DS26LS32ACM/NOPB	446
26	AM26C31CD	445
26	AM26C32CD	446
26	AM26LS33ACD	446
26	AM26C32ID	446
26	AM26LS33ACN	446
26	AM26LV31CD	446
26	LM26CIM5-YPE	522
26	AM26LS31CD.	445
26	LM26CIM5-DPB	522
26	TL026CD	333
26	SC26C92C1A	416
26	LM26CIM5-YHA	522
26	LM26CIM5-XPA	522
26	LM26CIM5-TPA	522
26	TLC2654C-8D	328
26	TLC2652AI-8D	328
26	AT26DF161A-SU	118
26	LM26CIM5-VHA	522
26	LM26CIM5-VPA	522
26	AM26LS31CN	445
26	LM26CIM5-HHD	522
26	AT26DF081A-SU	118
2600	LTC2600CGN#PBF.	297
2601	MAX2601ESA+	355
2602	LTC2602IMS8#PBF	297
2602	LTC2602CMS8#PBF	297
2604	LMX2604LQ	355
2604	LTC2604IGN-1#PBF	297
2604	OPA2604AP	572
2604	LTC2604IGN#PBF	297
2604	OPA2604AP.	326
2604	OPA2604AUE4	326
261	ATTINY261V-10PU	138
261	ATTINY261V-10SU	138
261	ATTINY261-20SU	138
261	ATTINY261-20PU	138
2611	LM2611AMF	478

	Mftrs. List No.	Page
2611	LTC2611CDD-1#PBF	297
2611	LTC2611CDD#PBF	297
2611	TDA2611A/N5	533
2612	LTC2612CMS8#PBF	297
2613	DG2613DX-T1-E4	345
2614	LM2614ATL	478
2615	TDA2615/N1	533
2616	LTC2616CDD#PBF	297
2616	DG2616DN-T1-E4	345
2618	DG2618DN-T1-E4	345
2619	LM2619ATL	478
2619	LM2619MTC	478
262	OP262GSZ	312
2620	LTC2620CGN#PBF	294
2620	MAX2620EUA+	355
2620	LM3S2620-IQC25	238
2621	LM2621MM	478
2621	LTC2621CDD#PBF	294
2621	LTC2621CDD-1#PBF	294
2621	LM2621MM...	478
2622	LTC2622CMS8#PBF	294
2622	TLV2622ID	316
26221	BQ26221PW	489
2623	LM2623MM	478
2623	LM2623AMM	478
26231	BQ26231PW	489
2625	UC2625N	478
2626	LTC2626CDD#PBF	294
2626	LTC2626CDD-1#PBF	294
2627	LTC2627CDE#PBF	294
2627	LTC2627CDE-1#PBF	294
2630	LTC2630CSC6-HZ12#PBF	294
2630	LTC2630CSC6-LZ10#PBF	293
2630	LTC2630CSC6-HZ10#PBF	293
2630	LTC2630CSC6-HM12#PBF	294
2630	LTC2630CSC6-LZ12#PBF	294
2630	LTC2630CSC6-LZ8#PBF	292
2630	LTC2630AISC6-LZ12#PBF	294
2630	LTC2630HSC6-HM12#PBF	294
2630	LTC2630HSC6-HZ10#PBF	293
2630	LTC2630HSC6-HZ12#PBF	294
2630	LTC2630HSC6-HZ8#PBF	292
2630	LTC2630HSC6-LM12#PBF	294
2630	LTC2630HSC6-LZ10#PBF	293
2630	LTC2630HSC6-LZ12#PBF	294
2630	LTC2630HSC6-LZ8#PBF	292
2630	LTC2630ISC6-LZ8#PBF	292
2630	LTC2630ISC6-LZ12#PBF	294
2630	LTC2630ISC6-HM12#PBF	294
2630	LTC2630ISC6-HZ10#PBF	293
2630	LTC2630ISC6-LZ10#PBF	293
2630	LTC2630ISC6-HZ12#PBF	294
2630	LTC2630ISC6-HZ8#PBF	292
2630	LTC2630ISC6-LM12#PBF	294
2630	LTC2630CSC6-LM12#PBF	294
2630	LTC2630ACSC6-HM12#PBF	294
2630	LTC2630ACSC6-HZ12#PBF	294
2630	LTC2630AHSC6-HM12#PBF	294
2630	LTC2630AHSC6-HZ12#PBF	294
2630	LTC2630AHSC6-LM12#PBF	294
2630	LTC2630AISC6-LM12#PBF	294
2630	LTC2630AISC6-HZ12#PBF	294
2630	LTC2630AHSC6-LZ12#PBF	294
2630	LTC2630AISC6-HM12#PBF	294
2637	LM3S2637-IQC50	238
2637	UC2637NG4	458
264	TNY264GN	501
264	TNY264PN	501
26400	LM26400YSDE	489
26400	LM26400YMH	489
26400	LM26400YSD	489
2641	LTC2641CS8-16#PBF	297
2641	LTC2641IS8-16#PBF	297
2641	LTC2641CMS8-16#PBF	297
2641	LTC2641IDD-12#PBF	294
2641	LTC2641CDD-16#PBF	297
2641	LTC2641CDD-12#PBF	294
2641	LTC2641IDD-16#PBF	297
2641	LTC2641IMS8-16#PBF	297
2642	LTC2642CDD-12#PBF	294
2642	LM2642MTC	478
2642	LTC2642CDD-16#PBF	297
2642	LTC2642IDD-12#PBF	294
2642	LTC2642IDD-16#PBF	297
2647	LM2647LQ	478
2647	LM2647MTC	478
26480	LM26480SQ-AA	493
265	FSQ0265RN	470
265	FSQ0265RL	470
2650	LM2650M-ADJ	478
2651	LM2651MTC-ADJ	478
2651	LM3S2651-IQC50	238
2652	TLC2652CP.	328
2652	TLC2652ACP	309
2652	TLC2652AC-8D	309
2652	TLC2652C-8DG4	309
2652	TLC2652CP	328
2654	TLC2654IP	328
2654	TLC2654IPE4	328
2655	LM2655MTC-ADJ/NOPB	547
2655	LM2655MTC-3.3/NOPB	558
2657	LM2657MTC	478
266	TNY266PN	501
266	TNY266GN	501

	Mftrs. List No.	Page
2660	LM2660M	478
2661	LM2661M/NOPB	478
2662	LM2662M	478
2664	LM2664M6	478
267	TNY267PN	501
267	TNY267GN	501
267	LM2671M-3.3/NOPB	545
2670	LM2670S-ADJ.	478
2670	LM2670T-ADJ/NOPB	547
2670	LM2670S-3.3/NOPB	558
2671	LM2671LD-ADJ	478
2672	LM2672M-3.3	505
2672	LM2672N-ADJ	505
2672	LM2672N-5.0	505
2672	LM2672M-5.0	505
2672	LM2672M-ADJ	505
2672	LM2672N-ADJ.	505
2673	LM2673S-12	505
2673	LM2673S-ADJ	505
2673	LM2673S-5.0	505
2673	LM2673T-5.0	505
2673	LM2673T-12	505
2673	LM2673SD-5.0/NOPB	561
2673	LM2673T50.	505
2673	LM2673T-ADJ.	505
2673	LM2673T-ADJ	505
2674	LM2674LD-ADJ	478
2674	LM2674N-ADJ	505
2674	LM2674M-ADJ	505
2674	LM2674M-12	563
2674	LM2674N-5.0/NOPB	560
2674	LM2674M-5.0	505
2674	OPA2674I-14DG4	316
2674	OPA2674IDG4	316
2675	LM2675LD-ADJ	478
2675	LM2675N-5.0	505
2675	LM2675M-3.3	505
2675	LM2675M-ADJ	505
2675	LM2675M-5.0	505
2675	LM2675N-ADJ	546
2676	LM2676T50.	505
2676	LM2676T-5.0	505
2676	LM2676SD-5.0	562
2676	LM2676T-12	505
2676	LM2676T-ADJ	505
2676	LM2676T12.	505
2676	LM2676SD-ADJ/NOPB	547
2677	OPA2677H	316
2677	OPA2677U.	316
2677	LM2677S-12/NOPB	564
2677	LM2677S-3.3/NOPB	558
2677	LM2677SD-ADJ/NOPB	548
2677	LM2677T-ADJ	505
2678	LM2678SD-ADJ/NOPB	548
2678	LM2678S-12	505
2678	LM2678T-ADJ	571
2678	LM2678S-ADJ	505
2678	LM2678T-ADJ	505
2678	LM2678T-5.0	505
2678	LM2678T-12	505
2679	LM2679S-5.0	505
2679	LM2679S-ADJ	505
2679	LM2679T-ADJ	505
2679	LM2679S-ADJ	571
268	TNY268GN	501
268	TNY268PN	501
268	MAX268BEWG+	438
2681	SCC2681AC1A44	417
2682	LM2682M/NOPB	478
2682	LM2682M	478
2685	LM2685MTC	478
2686	LM2686MTC	478
2686	LM2686MTC.	478
2687	LM2687MM	478
2690	OPA2690IDG4	316
2691	SCC2691AC1N24	416
2691	SCC2691AC1A28	416
2691	SCC2691AC1D24	417
2692	SCC2692AC1N28	416
2692	SCC2692AC1N40	416
2694	LM2694SD	478
2694	OPA2694ID	316
2694	LM2694MT	478
2695	LM2695SD	478
27	M27C512-15F1	109
27	OP27GPZ	571
27	OP27EPZ	571
27	TLC27M4CN..	330
27	M27C4002-12F1	109
27	M27C256B-15F1	109
27	TLC27L4INE4	318
27	M27C64A-10F1	571
27	TLC27L2BCDG4	312
27	TLC27L2ID	312
27	TLC27L2BID	312
27	TLC27L2AID	312
27	TLC27L2IPE4	312
27	TLC27L7IDG4	312
27	TLC27M2BCDG4	312
27	TLC27M4ACDG4	318
27	TLC27L2ACDG4	312
27	TLC27L4AIDG4	318
27	TLC27M4IDG4	318
27	OP27GSZ	304

Index by Type for Semiconductor ICs

	Mftrs. List No.	Page
27	TLC27L4ACDG4	318
27	TLC27L4IDG4	318
27	TLC27M2IDG4	312
27	M27C512-90F6	571
27	M27C256B-15F1	571
27	M27C1001-45F1	571
27	M27C1001-12F1	571
27	TLC27M2CDG4	312
27	AT27C256R-70PU	570
27	M27C4002-10F1	109
27	M27C4002-80XF1	109
27	M27C801-100F1	109
27	M27C256B-70XF1	109
27	M27C256B-10F1.	109
27	M27C4001-10C1	109
27	M27C512-90F6	109
27	M27C64A-10F1	109
27	M27C801-100B1	109
27	M27W101-80K6	109
27	TS27L2CD	329
27	AT27C020-90JU	109
27	AT27C020-90PU	109
27	OPA27GP.	304
27	AT27C256R-70JU	109
27	TLC27M2ACD	329
27	TLC27M4CD	330
27	AT27C256R-70PU	109
27	TLV27L1ID	304
27	TLC27L2MDRG4	312
27	TLC27M2ACPE4	312
27	TLC27L4BIDG4	318
27	TLC27M7CDG4	312
27	AT27C040-70JU	109
27	LM27CIM5-ZHJ	522
27	AT27C040-70PU	109
27	M27C4002-45XF1	109
27	M27C4001-15F1	109
27	M27C1001-12F1	109
27	M27C1001-45F1	109
27	OP27CJGB	304
27	TLV27L2ID	312
27	HY27US08121A-TPCB	122
27	HY27UF081G2M-TPCB	122
27	HY27UF082G2M-TPCB	122
27	HY27UF084G2M-TPCB	122
27	AT27C080-90JU	109
27	LM27CIM5-1HJ	522
27	AT27C080-90PU	109
27	AT27C512R-45JU	109
27	AT27C512R-45PU	109
27	OP27GPZ	304
27	OP27EPZ	304
27	MCIMX27VOP4A	236
27	TLC27L2CP	329
27	OPA27GUE4	304
27	TLC27M2CP	329
27	TLC27L4CN	330
27	TLC27M4CN	330
27	M27C512-90C1	109
27	AT27C010-45JU	109
27	AT27C010-45PU	109
27	AT27C020-55JU	109
27	TLV27L1IDBVT	304
27	TLC27L2CD	329
27	TLC27L4CD	330
27	AT27C020-55PU	109
270	FSQ0270RNA	503
270	OP270GPZ	312
270	OP270GPZ	571
270	OP270FZ	312
270	OP270EZ	312
2700	LM2700MT-ADJ	478
2700	LM2700LD-ADJ	478
2701	TLK2701IRCP	410
2702	PCM2702EG4	297
2703	OPA2703UA	328
2703	LM2703MF-ADJ	478
2704	PCM2704DB	300
2705	LM2705MF-ADJ	478
2705	OPA2705UA	328
2705	PCM2705DB	300
2706	PCM2706PJTG4	300
2707	LM2707MF	442
271	TLC271CP	328
271	TLC271ACP	304
271	TLC271ACDG4	304
271	TS271CDT	328
271	TS271CN	328
271	TLC271CD	328
271	TLC271BCDG4	305
271	TLC271AIDG4	305
271	TLC271BCPE4	305
271	TLV271CD	304
271	TLC271BIDG4	305
271	TLV271ID	305
271	DG271BCJ-E3	343
271	TLV271IDBVT	305
271	TS271CN.	328
271	TS271CDT.	328
2711	DS2711Z+	498
2712	DS2712E+	478
2712	DS2712Z+	498
2714	UC2714D	462
2714	DS2714E+	498

	Mftrs. List No.	Page
2714	DG2714DL-T1-E3	345
27143	CY8C27243-24PVXI	140
2715	DS2715Z+	478
2715	DG2715DL-T1-E3	345
2716	LM2716MT	478
2716	DG2716DL-T1-E3	345
2717	LM2717MT-ADJ	478
2717	LM2717MT/NOPB	478
272	TLV272IDGKG4	312
272	L272M	312
272	TS272ID	329
272	TLC272ACPE4	312
272	TLV272ID	312
272	TLC272BCDG4	312
272	TLC272CD	329
272	TLC272ACP	312
272	TLC272ID	312
272	TLC272AID	312
272	TLC272BCPE4	312
272	TLC272CP	329
272	TLV272IP	312
272	TLC272IPE4	312
272	TLV272CDG4	312
2722	L2722	316
27222	LM27222M	465
2724	LM2724AM	462
27241	LM27241MTC	489
27243	CY8C27243-24SXI	140
27243	CY8C27443-24PVXI	140
2727	LM2727MTC	478
2731	TLV2731IDBVT	309
2731	TLV2731CDBVT	309
2731	LM2731XMF	478
2731	DG2731DQ-T1-E3	345
2731	LM2731YMF	478
2732	DG2732DQ-T1-E3	345
27321	UCC27321D	465
27321	UCC27321P	465
27322	UCC27322D	465
27322	UCC27322P	465
27323	UCC27323D	465
27324	UCC27324DGN	465
27324	UCC27324P	465
27324	UCC27324D	465
27325	UCC27325D	465
2733	DG2733DQ-T1-E3	345
2733	LM2733YMF	478
2733	LM2733XMF	478
2734	LM2734YQMKE	478
2734	LM2734YMK	478
2734	LM2734YQMK	478
2734	LM2734XQMKE	478
2734	LM2734XQMK	478
2734	LM2734ZQMK	478
2734	LM2734ZQMKE	478
2735	LM2735XQMF	559
2735	LM2735XMF/NOPB	547
2735	OPA2735AIDG4	316
2735	LM2735XMY	478
2736	LM2736YMK	478
2736	LM2736XMK/NOPB	545
2737	LM2737MTC	478
2738	LM2738YMY	564
2738	LM2738XSD/NOPB	546
2738	LM2738YSD/NOPB	546
2738	LM2738XMY	564
274	TLC274ACNE4	318
274	TLC274BCNE4	318
274	TLC274CN	330
274	TLC274CD	330
274	TNY274PN	501
274	TLC274BCDG4	318
274	TLC274BIDG4	318
274	TLC274AID	318
274	TLC274IDG4	318
274	TLC274ACDG4	318
274	TLC274INE4	318
274	TLV274ID	319
274	TLV274IN	319
274	TLC274ID	318
274	MAX274BCWI+	438
2741	DG2741DQ-T1-E3	342
2742	DG2742DQ-T1-E3	342
2742	LM2742MTC/NOPB	478
27423	UCC27423P	465
27424	UCC27424D	465
27424	UCC27424DGN	465
27424	UCC27424P	465
27425	UCC27425D	465
27425	UCC27425P	465
2743	LM2743MTC	478
2743	DG2743DQ-T1-E3	342
2743	OPA2743UA	316
27443	CY8C27443-24PXI	140
27443	CY8C27443-24SXI	140
2745	DS2745U+	478
2745	LM2745MTC	478
2747	LM2747MTC	478
2748	LM2748MTC	478
275	OP275GSZ	312
275	MAX275BCWP+	438
275	TNY275GN	501
275	OP275GPZ	532
275	DS275S+	452

	Mftrs. List No.	Page
275	OP275GPZ	571
2750	LM2750SD-5.0/NOPB	559
2750	LM2750LD-ADJ	478
2750	LM2750LD-5.0	478
27500	BQ27500DRZT	489
2751	LM2751SD-B	442
2751	LM2751SD-A	442
2753	LM2753SD	478
2753	LTC2753AIUK-16#PBF	297
2753	LM2753SD.	442
2754	LM2754SQ.	442
2755	LTC2755AIUP-16#PBF	297
2755	LTC2755IUP-14#PBF	297
2755	LTC2755BCUP-16#PBF	298
2755	LTC2755ACUP-16#PBF	297
2755	LTC2755IUP-12#PBF	294
2755	LTC2755CUP-14#PBF	297
2755	LTC2755CUP-12#PBF	294
2755	LTC2755BIUP-16#PBF	298
2756	DS2756E+	498
2756	LM2756TM	442
276	DS276S+	452
276	TNY276PN	501
2760	LM2760M5	478
2760	TLV2760IDBVT	309
2762	TLV2762CD	316
2764	DS2764BE+	498
27643	CY8C27643-24LFXI	140
27643	CY8C27643-24PVXI	140
27643	CY8C29466-24PXI	140
2765	LM2765M6/NOPB	478
2766	LM2766M6/NOPB	478
2767	LM2767M5	479
277	TLC277CP	312
277	TLC277IDG4	312
277	TNY277GN	501
277	TNY277PN	501
277	OPA277UA	305
277	OPA277UG4	305
277	OPA277P	305
277	OPA277PA.	305
277	TLC277CD	312
2770	TLV2770AID	309
2770	LM2770SD-1215	479
2770	LM2770SD-12157	479
2771	TLV2771ID	309
2771	LM2771SD	479
2772	TLV2772AID	316
2772	TLV2772CD	316
2772	TLV2772IDG4	316
2774	TLV2774AID	320
2774	TLV2774CDG4	320
278	TNY278PN	501
278	TNY278GN	501
2780	DS2780G+	498
2780	DS2780E+	479
2780	LM2780TP	479
2781	LM2781TP	479
2781	DS2781E+	498
2782	DS2782E+	498
2784	DS2784G+	498
2786	DS2786G+	498
2787	LM2787TP	479
2788	85-40	498
2788	LM2788MM-1.5	479
2788	LM2788MM-1.8	479
279	OP279GSZ	312
279	TNY279PN	501
279	TNY279GN	501
279	TLC279ID	319
279	TLC279CDG4	319
2794	LM2794TL	442
27951	LM27951SD	444
27952	LM27952SD	444
27964	LM27964SQ-A	444
27964	LM27964SQ-I	444
27964	LM27964SQA	444
27966	LM27966SQ	440
27966	LM27966SQ.	444
2797	LM2797MM-1.8	479
2798	LM2798MM-2.0	479
2798	LM2798MM-1.8	479
2798	LM2798MM-1.5	479
28	AT28C64B-15PU	110
28	ENC28J60/SS	422
28	ENC28J60/SP	422
28	ENC28J60/SO	422
28	M28W320FCB70N6E	121
28	M28W160CT70N6E	121
28	DS28EA00U+	522
28	CAT28C64BL12	110
28	DS28DG02E-3C+	115
28	OP284EPZ	312
28	AT28C256-15PU	110
28	UCC28C45DG4	469
28	AT28C010-12JU	110
28	SC28L91A1A	417
28	AT28C256-15JU	110
28	SX28AC/SS-G	155
28	SX28AC/DP-G	155
28	ENC28J60-I/SP	422
28	ENC28J60-I/SO	422
28	ENC28J60-I/ML	422
28	SC28L92A1A	417

	Mftrs. List No.	Page
28	AT28C256-15PU	110
28	M28W320FCT70N6E	121
28	AT28C64B-15PU	110
28	AT28C64B-15JU	110
28	BH28RB1WGUT-E2	566
28	SC28C94A1A	416
28	UCC28C43D	469
280	MAX280EWE+	438
280	TNY280GN	501
280	TNY280PN	501
280	ZXCL280E5TA	554
280	ZXCL280H5TA	554
2800	SIP2800DQ-T1-E3	500
2800	UCC2800DG4	479
2801	LTC2801CDE#PBF	347
2801	LTC2801IDE#PBF	347
2801	SIP2801DY-T1-E3	500
2801	UCC2801DG4	479
2801	E-ULN2801A	529
2801	ULN2801A	529
28019	UCC28019DG4	489
28019	UCC28019P	489
2802	UCC2802DG4	479
2802	LTC2802CDE#PBF	347
2802	LTC2802IDE#PBF	347
2802	E-ULN2802A	529
2802	ULN2802A	529
28025	UC28025DWG4	489
2803	LTC2803CDHC#PBF	347
2803	ULN2803APG	529
2803	ULN2804AFWG	529
2803	E-ULN2803A	529
2803	LTC2803IDHC#PBF	347
2803	UCC2803PW	479
2803	ULN2803A	529
2803	ULN2803AFWG	529
2804	UCC2804D.	479
2804	LTC2804IGN-1#PBF	450
2804	UCC2804D	479
2804	ULN2804APG	529
2804	UCC2804NG4	479
2804	ULN2804A	529
2805	UCC2805DG4	479
2806	UCC2806DWG4	479
2806	UCC2806NG4	479
28060	UCC28060DG4	489
2808	UCC2808D-2G4	479
2808	UCC2808D-1G4	479
28083	UCC28083DG4	489
2809	UCC2809D-1G4	479
2809	UCC2809D-2G4	479
281	MAX281AEWE+	438
281	OP281GSZ	312
281	TPIC2810D.	442
281	GR281	108
2811	TPS2811P	462
2812	TPS2812P	462
2812	TPS2812D	462
2813	UCC2813D-2G4	479
2813	UCC2813D-0G4	479
2813	UCC2813DTR-4G4	479
2813	UCC2813D-3G4	479
2813	UCC2813D-4G4	479
2813	UCC2813D-1G4	479
2813	UCC2813D-5G4	479
2813	TPS2813P	462
28136	ISL28136FBZ	311
28138	ISL28138FBZ	311
28158	ISL28158FBZ	311
2817	TPS2817DBVT	462
2819	TPS2819DBVT	462
282	OP282GSZ	326
2820	NCP2820FCT2G	533
2822	TDA2822M	533
2822	OPA2822UG4	316
28220	UCC28220D	489
28221	UCC28221D	489
28225	TPS28225D	465
2825	LM2825N-12	505
2825	UC2825ANG4	479
2825	LM2825N-ADJ	505
2825	LM2825HN-ADJ	505
2825	LM2825N-5.0	505
2825	LM2825N-3.3	505
2825	UC2825ADW	479
2825	UC2825DWG4	479
2825	LM2825N-5.0	571
2825	UC2825ADWG4	479
2827	UC2827N-1	479
28270	ISL28270IAZ	337
28271	ISL28271FAZ	337
28271	ISL28272FAZ	337
28273	ISL28273FAZ	337
28274	ISL28474FAZ	337
28276	ISL28276IAZ	311
28278	ISL28278FAZ	311
28286	ISL28286FUZ	311
28288	ISL28288FUZ	311
28290	ISL28290FUZ	311
28291	ISL28291FUZ	311
283	UCC283T-ADJ	547
283	UCC283T-3	558
283	UCC283TDKTTT-3	558
283	UCC283TDKTTT-ADJ	547

Index by Type for Semiconductor ICs

	Mftrs. List No.	Page
2830	TPS2830D	462
2830	LM2830ZMF.	479
2830	LM2830XMF.	479
2830	LM2830XMF	479
2831	LM2831YMF/NOPB	479
2831	LM2831ZMF	479
2831	LM2831XMF.	479
2831	LM2831ZMF.	479
2832	LM2832XSD/NOPB	547
2832	LM2832XMY	479
2832	LM2832ZMY.	479
2832	LM2832ZMY	479
2832	LM2832YMY	479
2834	TPS2384PJD	575
284	OP284FSZ	312
284	UCC284DP-5G4	550
284	UCC284DP-ADJ	545
2841	ADN2841ACPZ-32	442
2842	E-UC2842BD1	479
2842	UC2842AN	479
2842	UC2842AD8G4	479
2842	UC2842ADG4	479
2842	UC2842AD1	479
2842	UC2842NG4	479
2843	E-UC2843BD1	479
2843	UC2843ANG4	479
2843	UC2843AQD8	479
2843	UC2843BD1G	479
2843	UC2843D8G4	479
2843	UC2843AD	479
2843	TL2843D-8	479
2843	UC2843BNG	479
2843	UC2843NG4	479
2844	E-UC2845BD1	479
2844	UC2844NG4	479
2844	UC2844ANG4	479
2844	UC2844AD8G4	479
2844	UC2844AD	479
2845	UC2845DG4	479
2845	UC2845NG4	479
2845	UC2845AD8G4	479
2845	UC2845ANG4	479
2845	UC2845ADG4	479
2845	UC2845AQD	479
2846	UC2846NG4	479
2846	UC2846DWG4	479
28470	ISL28470FAZ	337
285	LM285BYZ-2.5/NOPB	538
285	LM285M/NOPB	541
285	LM285Z-2.5/NOPB	538
285	OP285GSZ	312
285	LM285Z-2.5G	538
285	LM285M-2.5/NOPB	538
285	LM285Z-1.2G	537
285	LM285LP-2-5..	538
2850	LTC2850HDD#PBF	450
2850	LTC2850IMS8#PBF	450
2850	LTC2850IS8#PBF	450
2851	LTC2851IS8#PBF	450
2851	LTC2851IMS8#PBF	450
2851	LTC2851IDD#PBF	450
2852	LTC2852IMS#PBF	450
2852	LTC2852IDD#PBF	450
2854	UC2854BNG4	479
2854	UC2854NG4	479
2854	LM2854MH-500	548
2854	UC2854BDWG4	479
2854	UC2854ADWG4	479
2854	LM2854MH-1000/NOPB	548
2854	UC2854DWG4	479
2854	LTC2854CDD#PBF	347
2854	LTC2854HDD#PBF	347
2854	LTC2854IDD#PBF	347
2856	LTC2856HMS8-1#PBF	450
2856	LTC2856HMS8-2#PBF	450
2857	LTC2857HMS8-2#PBF	450
2857	LTC2857HMS8-1#PBF	450
2858	LTC2858HMS-1#PBF	450
2858	LTC2858HMS-2#PBF	450
28600	UCC28600D	489
2861	LTC2861CGN#PBF	450
2870	ADN2870ACPZ	445
2871	ADN2871ACPZ	445
2875	UC2875DWPG4	458
2875	UC2875NG4	479
2879	UC2879NG4	458
2889	OPA2889ID	316
2890	OPA2890ID	316
2891	UCC2891D	479
2892	UCC2892D	479
2895	UCC2895DWG4	479
29	S29JL032H90TFI320	121
29	AM29F010B-45JD	118
29	AM29F040B-90JD	118
29	AM29F010B-90JD	118
29	AM29F010B-70JD	118
29	AM29F010B-70PD	118
29	AM29F040B-120PD	118
29	AM29F040B-120JD	118
29	M29DW323DB70N6E	121
29	M29DW323DT70N6E	121
29	AM29F040B-120PD	570
29	M29F080D70N6E	118
29	AT29LV040A-15TU	118

	Mftrs. List No.	Page
29	BH29RB1WGUT-E2	566
29	M29F200BB70N6E	121
29	M29W200BT70N6E	121
29	AM29F010B-70JD	570
29	M29W320DT70N6E	121
29	M29W320ET70N6E	121
29	M29F200BT70N6E	121
29	M29W160EB70N6E	121
29	AT29C010A-70JU	118
29	AM29F080B-90SD.	118
29	AM29F080B-90ED	118
29	AM29F160DB-90EF	121
29	AM29F040B-90PD	118
29	AM29F040B-90JF	118
29	AM29F400BB-55ED	121
29	AM29F400BB-70ED	121
29	AM29F400BT-70ED	121
29	AM29F400BT-90ED	121
29	AM29F800BB-90ED	121
29	AM29F800BB-90SD	121
29	AM29LV040B-70JD	118
29	AM29LV040B-90JD	118
29	AM29LV040B-90ED	118
29	S29AL016D90TFI020	121
29	S29AL016D90TFI010	121
29	S29AL008D90TFI020	121
29	AM29F040B-90ED	118
29	AM29F040B-55JD	118
29	S29AL008D90TFI010	121
29	AT29C020-70JU	118
29	AM29F040B-120JF	118
29	AT29C020-90JU	118
29	AM29F032B-90ED	118
29	AM29F016D-90ED	118
29	AM29F010B-90ED	118
29	S29JL032H90TFI310	121
29	M29W800DT70M6	121
29	S29GL512N10FFI020	117
29	S29GL512N10FFI010	117
29	S29AL004D90TFI010	121
29	S29AL008D70BFI010	121
29	S29AL008D70BFI020	121
29	S29AL016D70BFI010	121
29	S29AL016D70BFI020	121
29	S29GL128P10TFI020	117
29	S29GL128P10TFI010	117
29	M29F400BT70N6E	121
29	M29W640FB70N6E	121
29	M29W800DT70N6E	121
29	S29GL128P10FFI020	117
29	S29GL256P10TFI020	117
29	S29GL256P10TFI010	117
29	AT29C040A-90JU	118
29	AT29C512-70JU	118
29	AT29LV040A-15JU	118
29	AT29LV512-12JU	118
29	S29GL512P11TFI010	118
29	S29GL512P11FFI010	118
29	S29GL512P11FFI020	118
29	S29JL064H90TFI000	121
29	S29GL512P11TFI020	118
29	S29GL01GP12FFI010	118
29	A29040B-70F	118
29	A29F040BL-70F	118
29	A29L160UV-70F	121
29	S29GL01GP12FFI020	118
29	S29GL01GP12TFI010	118
29	S29GL01GP12TFI020	118
290	LM2902DG	322
290	OP290GPZ	571
290	OP290GPZ	312
2900	PCM2900EG4	533
2900	LTC2900-1CMS#PBF	257
2900	LM2900N	320
29000	ISL29000IROZ-T7	438
29002	ISL29002IROZ	511
29003	ISL29003IROZ-T7	511
2901	TS2901CS14 RL	431
2901	LP2901NG4	431
2901	LM2901D.	431
2901	LM2901M	431
2901	LM2901N	431
2901	LM2901DG	431
2901	DAC2904Y/250	297
2901	LM2901PT	431
2901	LM2901N	431
2902	LM2902N	321
2902	LM2902M	320
2902	PCM2902EG4	533
2902	LM2902PT	321
2902	LM2902N.	321
2902	LM2902D	316
2902	LM2902DG	320
2902	LM2902D	320
2902	DEM-PCM2902	303
2903	LM2903PT.	430
2903	LTC2903CS6-A1#TRMPBF	257
2903	LM2903DG	430
2903	LTC2903CS6-D1#TRMPBF	257
2903	LM2903D	430
2903	LM2903NG	430
2903	UC2903DWG4	479
2903	LM2903M	430
2903	LM2903M	430

	Mftrs. List No.	Page
2903	LM2903N	430
2903	LM2903PWR	430
2903	LM2903PT	430
2903	LM2903M/NOPB	430
2904	LM2904NG	316
2904	LM2904PW	316
2904	LM2904D	316
2904	LM2904D	316
2904	LM2904DG	316
2904	LM2904PT.	316
2904	LM2904PT	316
2904	LM2904DT	316
2904	LM2904M/NOPB	316
2904	LM2904M	316
2904	PCM2904DBG4	533
2904	LTC2904ITS8#TRMPBF	257
2905	LTC2905ITS8#TRMPBF	257
2906	UC2906NG4	479
2906	UC2906DWG4	479
2907	LM2907N-8	437
2907	LM2907N	437
2907	LM2907N/NOPB	437
291	OP291GSZ	305
2912	PCM2912PJT	533
2912	LTC2912ITS8-2#TRMPBF	257
2912	LTC2912ITS8-1#TRMPBF	257
29150	MIC29150-3.3WT.	558
29152	MIC29152WT	571
29152	SPX29152U5-L	546
29152	MIC29152WU	566
29152	MIC29152WT	547
29152	SPX29152T5-L	546
29153	SPX29153T5-L	546
2916	UDN2916B-T	458
2917	LM2917N-8	437
2917	LM2917N	437
292	L292	457
2924	LTC2924CGN#PBF	479
2925	REF2925AIDBZTG4	553
2927	LTC2927CTS8#TRMPBF	478
293	L293DNEE4	460
293	LM293AD	429
293	LM293D	429
293	LM293P	429
293	OP293FSZ	305
293	LM293H	429
293	L293N	457
293	L293NEE4	457
293	L293NE.	460
293	L293N	571
2930	LM2930T-8.0	562
2930	LM2930S-5.0	560
2930	LM2930T-5.0	560
29300	MIC29300-12WT	563
29300	MIC29300-3.3WT	558
29302	MIC29302WU	566
29302	SPX29302AU5-L	547
29302	SPX29302T5-L	547
2931	LM2931T-5.0	559
2931	LM2931Z-5.0	559
2931	LM2931AT-5.0	559
2931	LM2931M-5.0	559
2931	LM2931AZ-5.0	559
2931	LM2931AS-5.0/NOPB	559
2931	LM2931CM	543
2931	LM2931AT-5.0G	559
2931	LM2931S-5.0/NOPB	559
2931	LM2931CT	543
2931	LM2931D-5.0G	559
2931	LM2931T-5.0G	559
2931	LM2931CS/NOPB	543
2931	LM2931AT-5.0/NOPB	559
2931	LM2931CTG	543
2931	LM2931CDG	543
2931	LM2931AD-5.0G	559
2932	TLC2932IPWG4	355
2932	TLC2932AIPWG4	355
2933	TLC2933AIPW	355
2933	TLC2933IPWG4	355
2936	LM2936HVBMA-3.3	556
2936	LM2936HVBMA-5.0	559
2936	LM2936M-3.0	555
2936	LM2936M-5.0	559
2936	LM2936MM-3.0	555
2936	LM2936Z-3.0	555
2936	LM2936MP-3.0	555
2936	LM2936MM-5.0	559
2936	LM2936MM-3.3	556
2936	LM2936MP-5.0	559
2936	LM2936BM-3.0.	555
2936	LM2936BM-3.3.	556
2936	LM2936BM-5.0.	559
2936	LM2936DT-3.0.	555
2936	LM2936DT-3.3.	556
2936	LM2936DT-5.0.	559
2936	LM2936HVBMA-3.0	555
2936	LM2936HVMA-5.0	559
2937	LM2937ES-15/NOPB	564
2937	LM2937IMP-8.0/NOPB	562
2937	LM2937ET-12	563
2937	LM2937ES-10/NOPB	563
2937	LM2937ET-5.0	560
2937	TS2937CW-5.0 RP	561
2937	TS2937CM-5.0 C0	561

	Mftrs. List No.	Page
2937	LM2937IMP-15/NOPB	564
2937	TS2937CP-5.0 RO	561
2937	LM2937ES-8.0/NOPB	562
2937	TS2937CZ-5.0 C0	561
2937	LM2937ET-2.5/NOPB	553
2937	LM2937IMP-3.3	557
2937	LM2937IMP-2.5	553
2940	LM2940CS-5.0	561
2940	TS2940CW-3.3 RP	558
2940	TS2940CZ-3.3 C0	558
2940	LM2940S-9.0/NOPB	563
2940	TS2940CP-3.3 C5	558
2940	TS2940CM-3.3	558
2940	LM2940IMP-5.0	561
2940	LM2940T-12.0	563
2940	LM2940CT-15	564
2940	LM2940T-9.0	563
2940	LM2940T-10.0	563
2940	LM2940CT-5.0	571
2940	LM2940S-5.0	571
2940	LM2940CS-9.0	563
2940	REF2940AIDBZT....	539
2940	LM2940CSX-5.0/NOPB	561
2940	LM2940S-10/NOPB	563
2940	LM2940CT-12	563
2940	LM2940T-10.0	571
2940	LM2940LD-8.0	562
2940	LM2940CT-9.0/NOPB	563
2940	LM2940T-8.0	562
2940	LM2940T-5.0	561
2940	LM2940T-5.0	571
2940	LM2940IMP-9.0/NOPB	563
2940	LM2940IMP-10/NOPB	563
2940	LM2940IMP-8.0/NOPB	562
29405	BQ29405DCT3	489
2941	LM2941CT	546
2941	LM2941S	546
2941	LM2941T	546
29414	BQ29414PW	489
29419	BQ29419PW	489
2946	UCC2946PW	257
29466	CY8C29566-24AXI	574
29466	CY8C29566-24AXI	140
29466	CY8C29466-24SXI	140
295	OP295GSZ	312
295	OP295GPZ	329
2950	LM3S2950-IQC50	238
2950	LTC2950ITS8-2#TRMPBF	345
2950	LTC2950ITS8-1#TRMPBF	345
2950	LTC2950IDDB-2#TRMPBF	345
2950	LP2950CZ-5.0	559
2950	LP2950ACZ-5.0	559
2950	LP2950ACZ-3.0/NOPB	555
2950	LTC2950IDDB-1#TRMPBF	345
2950	LP2950CDT-3.3/NOPB	556
2950	LTC2950CTS8-2#TRMPBF	345
2950	TS2950CT-5.0 A3	560
2950	LP2950-50LPRE3	559
2950	UC2950TG3	479
2950	LP2950CZ-3.0	555
2950	LTC2950CDDB-1#TRMPBF	345
2950	LTC2950CDDB-2#TRMPBF	345
2950	LP2950CZ-3.0	555
2950	LTC2950CTS8-1#TRMPBF	345
29502	MIC29502WT	548
29502	SPX29502U5-L	548
29502	SPX29502T5-L	548
29503	SPX29503T5-L	548
29503	SPX29503U5-L	548
29504	BU29504KV-E2	357
2951	LP2951CSD	543
2951	LP2951CM-3.0/NOPB	555
2951	LP2951CSD-3.3	556
2951	LP2951ACSD-3.3	556
2951	LP2951CN-3.0	555
2951	LP2951ACM	543
2951	LTC2951ITS8-2#TRMPBF	345
2951	LTC2951ITS8-1#TRMPBF	345
2951	LTC2951IDDB-2#TRMPBF	345
2951	LTC2951IDDB-1#TRMPBF	345
2951	LTC2951CTS8-2#TRMPBF	345
2951	LTC2951CTS8-1#TRMPBF	345
2951	LTC2951CDDB-2#TRMPBF	345
2951	LP2951CN	543
2951	LP2951CM	543
2951	LP2951ACN	543
2951	LTC2951CDDB-1#TRMPBF	345
2951	TS2951CS-5.0 RL	560
2952	LP2952IM	544
2952	LP2952IN	544
2953	LTC2953IDD-1#PBF	480
2953	LTC2953CDD-2#PBF	479
2953	LTC2953IDD-2#PBF	480
2953	LTC2953CDD-1#PBF	479
2953	LP2953IN/NOPB	544
2953	LP2953IM/NOPB	544
2953	LP2953AIM/NOPB	544
2954	LP2954AIM/NOPB	544
2954	LP2954IM/NOPB	544
2954	LP2954IT	560
2954	LTC2954ITS8-1#TRMPBF	478
2954	LTC2954ITS8-2#TRMPBF	478
2954	LTC2954CTS8-2#TRMPBF	478
2954	LP2954IS	560

Index by Type for Semiconductor ICs

	Mftrs. List No.	Page
2954	LP2954AIS/NOPB	560
2954	LTC2954CTS8-1#TRMPBF	478
2954	LP2954AIT	560
29566	CY8C29666-24PVXI	140
2957	LP2957AIS/NOPB	560
2957	LP2957IS/NOPB	560
296	L296	470
296	OP296GSZ	305
2960	LP2960IM-3.3	557
2960	LP2960AIM-5.0	560
2960	LP2960IM-5.0/NOPB	560
2966	LP2966IMM-2518	565
2966	LP2966IMM-1833	565
2966	LP2966IMM-2830	565
2966	LP2966IMM-3325	565
2966	LP2966IMM-1828	565
2966	LP2966IMM-1830	565
2966	LP2966IMM-1818	552
2966	LP2966IMM-5050	560
2966	LP2966IMM-3636	559
2966	LP2966IMM-3333	556
2966	LP2966IMM-3030	555
2966	LP2966IMM-2518.	553
2966	LP2966IMM-2525	553
2966	LP2966IMM-3030.	555
2966	LP2966IMM-5050.	560
29666	CY8C29866-24AXI	140
2967	LP2967IMM-2833	565
297	MAX297EWE+	438
297	OP297FPZ	312
297	OP297GPZ	312
297	L297/1	457
297	OP297GSZ	312
2974	GS2974ACNE3	357
2975	GS2975ACNE3	357
2978	GS2978CNE3	357
298	LF298M	337
298	L298HN	460
2980	LP2980IM5-3.0	555
2980	LP2980AIM5-5.0	559
2980	LP2980AIM5-3.3	556
2980	LP2980IM5-5.0	559
2980	LP2980AIM5-3.0	555
2980	LP2980IM5-3.3	556
2981	LP2981AIM5-3.0/NOPB	555
2981	LP2981IM5-3.0	555
2981	LP2981IM5-5.0	559
2981	LP2981IM5-3.3	556
2981	LP2981AIM5-3.6/NOPB	559
2981	LP2981IM5-2.5/NOPB	559
2981	LP2981AIM5-2.8/NOPB	554
2981	LP2981A-33DBVTE4	556
2981	LP2981A-30DBVTE4	555
2981	UDN2981A-T	442
2981	LP2981AIM5-5.0	559
2981	LP2981-28DBVTE4	554
2981	LP2981-30DBVTE4	555
2981	UDN2981A-T	573
2981	LP2981IM5-3.0.	555
2981	LP2981-33DBVTE4	556
2982	LP2982IM5-3.0	555
2982	UDN2982A-T	458
2982	LP2982AIM5-5.0/NOPB	559
2982	A2982SLW-T	462
2982	LP2982AIM5-3.0/NOPB	553
2982	LP2982IM5-5.0	559
2985	LP2985AIM5-3.6/NOPB	559
2985	LP2985AIM5-3.5/NOPB	559
2985	LP2985AIM5-2.0/NOPB	553
2985	LP2985IM5-5.0/NOPB.	559
2985	LP2985IM5-2.5	553
2985	LP2985AIM5-3.0	555
2985	LP2985AIM5-2.5	553
2985	LP2985AITP-5.0	560
2985	LP2985IM5-5.0	560
2985	LP2985IM5-2.5.	553
2985	LP2985IM5-3.0.	555
2985	LP2985-18DBVTE4	552
2985	LP2985IM5-3.3	556
2985	LP2985IM5-3.0	555
2985	LP2985A-28DBVT	554
2985	LP2985AIM5-4.5/NOPB	559
2985	LP2985A-33DBVTE4	556
2985	LP2985IM5-2.8/NOPB	554
2985	LP2985IM5-4.5/NOPB	559
2985	LP2985-33DBVTE4	556
2985	LP2985IM5-4.0/NOPB	559
2985	LP2985AIM5-4.0/NOPB	559
2985	LP2985-28DBVTE4	554
2985	LP2985AIM5-3.3	556
2985	LP2985AIM5-5.0	560
2985	LP2985-50DBVTG4	560
2986	LP2986AIM-5.0	560
2986	LP2986AIMM-3.3	556
2987	UDN2987A-6-T	458
2988	LP2988AIM-5.0/NOPB	560
2989	LP2989AILD-3.3/NOPB	557
2989	LP2989AIMM-5.0/NOPB	560
2989	LP2989IM-5.0/NOPB	560
2989	LP2989IMM-3.3/NOPB	557
2989	LP2989IM-2.5	553
2989	LP2989AIM-3.3/NOPB	557
2989	LP2989AIMM-3.3/NOPB	557
2990	LM2990T-5.0	550
2990	LM2990T-12	550
2990	LM2990T-5.2	550
2990	LM2990T-15	549
2991	LM2991S	546
2991	LM2991T	546
2992	LP2992AIM5-5.0/NOPB	560
2992	LP2992IM5-3.0/NOPB	555
2992	LP2992IM5-2.5/NOPB	553
2992	LP2992AIM5-3.0/NOPB	555
2992	LP2992AIM5-2.5/NOPB	553
2992	LP2992AILD-3.3/NOPB	556
2995	LP2995MR	565
2995	LP2995M.	565
2995	LP2995LQ	480
2996	LP2996MR.	565
2996	LP2996M	565
2996	LP2996LQ	480
2997	LP2997MR	565
2998	LP2998MA	568
2998	LP2998MR/NOPB	568
3	HA3-5320-5	337
3	HA3-2425-5	337
3	IP3R18K12	564
3	LFXP3C-5QN208C	100
3	LFXP3C-5TN144C	100
3	LM3S8733-IQC50	238
3	HI3-0201-5Z	343
3	MC3PHACVPE	521
3	MC3PHACVDWE	521
3	HI3-5043-5Z	342
3	XC3S100E-4TQG144C	99
3	AMP03GSZ	333
3	XC3SD1800A-4CSG484C	99
3	XC3S700AN-4FGG484C	99
3	XC3S50AN-4TQG144C	99
3	XC3S50-5TQG144C	99
3	TS3A5018PWG4	343
3	XC3S500E-4FGG320C	99
3	XC3S400AN-4FGG400C	99
3	XC3S400-5TQG144C	99
3	XC3S4000-4FGG676C	99
3	XC3S250E-4FTG256C	99
3	XC3S1200E-4FGG400C	99
3	HA3-5020-5Z	304
3	HI3-0508A-5Z	340
3	HI3-574AKN-5Z	282
3	HI3-0506A-5Z	340
3	HI3-0507A-5Z	340
3	LM3S8970-IQC50	238
3	LM3S8938-IQC50	238
3	LM3S8933-IQC50	238
3	LM3S8930-IQC50	238
3	TS3USB221DRCR	410
3	HI3-0508-5Z	340
3	HI3-0201HS-5Z	343
3	LM3S8738-IQC50	238
3	LM3S8730-IQC50	238
3	LM3S8630-IQC50	238
3	LM3S8538-IQC50	238
3	LM3S8530-IQC50	238
3	LM3S6950-IQC50	238
3	LM3S6753-IQC50	238
3	LM3S6537-IQC50	238
3	LM3S8962-IQC50	238
3	TPD3E001DRSR	517
3	TPD3E001DRLR	517
3	HI3-0509A-5Z	339
3	TS3V330DBQR	532
3	TS3V330D	532
3	HA3-5002-5Z	331
3	TS3A5018DBQR	343
3	TS3V340PWE4	532
3	TS3L110PWE4	410
3	TS3L110DE4	410
3	TS3L110D	410
3	LFEC3E-5TN100C	100
3	LFEC3E-5TN144C	100
3	LFEC3E-5QN208C	100
3	LFXP3E-5TN100C	100
3	LFXP3E-5TN144C	100
3	LFXP3E-5QN208C	100
3	LFXP3C-5TN100C	100
3	HD3-6402R-9Z	416
3	HD3-4702-9	252
3	HA3-4741-5	318
3	IP3R18K05	562
3	HA3-2525-5Z	304
30	DSPIC30F6012A-30I/PT	196
30	DSPIC30F5011-30I/PTG	574
30	DSPIC30F5011-20I/PTG	574
30	DSPIC30F4012-20I/SO	197
30	DSPIC30F4012-20I/SP	197
30	DSPIC30F6015-30I/PT	197
30	DSPIC30F4012-30I/SO	197
30	DSPIC30F2011-20I/ML	196
30	DSPIC30F2011-20I/P	196
30	DSPIC30F4012-30I/SP	197
30	DSPIC30F6015-30I/PT	574
30	DSPIC30F6011A-30I/PT	196
30	DSPIC30F6010A-30I/PT	197
30	DSPIC30F2011-20I/SO	196
30	DSPIC30F2012-20I/ML	196
30	DSPIC30F2012-20I/SP	196
30	DSPIC30F2012-20I/SO	196
30	DSPIC30F5015-30I/PT	197
30	DSPIC30F3014-30I/P	196
30	DSPIC30F2023-30I/ML	196
30	DSPIC30F2020-30I/SP	196
30	DSPIC30F1010-30I/SP	196
30	DSPIC30F1010-30I/SO	196
30	DSPIC30F6014A-30I/PT	196
30	DSPIC30F6013A-30I/PT	196
30	DSPIC30F2011-30I/P	196
30	DSPIC30F2011-30I/SO	196
30	DSPIC30F2012-30I/SO	196
30	DSPIC30F2012-30I/SP	196
30	DSPIC30F2020-30I/SO	196
30	DSPIC30F2023-30I/PT	196
30	DSPIC30F2010-30I/SOG	197
30	DSPIC30F3014-20I/P	196
30	DSPIC30F2010-30I/SPG	197
30	FSUSB30MUX	410
30	DSPIC30F6014A-30I/PF	196
30	LMH0030VS	532
30	DSPIC30F3014-30I/PT	196
30	DSPIC30F5011-30I/PTG	196
30	DSPIC30F5011-20I/PTG	196
30	LE30CZ	555
30	BH30RB1WGUT-E2	566
30	DSPIC30F4013-20E/PT	196
30	CLC030VEC	532
300	TMP300AIDCKT	523
300	ZXSC300E5TA	442
300	TSH300ID	305
300	TSH300ILT	305
300	THAT300P14-U	529
300	THAT300S14-U	529
300	XTR300AIRGWTG4	523
300	ZXCL300E5TA	555
300	QT300-ISG	511
300023	DM300023	174
300027	DM300027	173
3001	ZXGD3001E6TA	467
3001	TPA3001D1PWPG4	533
3001	CS3001-ISZ	338
3001	THS3001IDGNG4	309
3001	THS3001CD	332
3001	MMG3001NT1	352
3001	LMK03001ISQ	349
3001	THS3001ID	332
30011	ZMD30011BAG1-T	411
3002	MMG3002NT1	352
3002	ZXGD3002E6TA	467
3002	LMK03002CISQ	355
3002	CS3002-ISZ	338
3003	MMG3003NT1	352
3003	ZXGD3003E6TA	467
3003	CS3003-FSZ	309
3004	ZXGD3004E6TA	467
3004	TPA3004D2PHPG4	533
3004	CS3004-FSZ	316
3004	MMG3004NT1	352
3004	TPA3004D2PHPG4	575
3005	MMG3005NT1	352
3006	MMG3006NT1	352
3007	MMG3007NT1	352
3008	MCP3008-I/SL	281
3008	MCP3008-I/P	281
3009	LT3009EDC-5#TRMPBF	559
3009	LT3009EDC#TRMPBF	543
301	TPA301D	532
301	OPA301AIDBVT	305
301	LM301ADG	322
301	LMV301MG	305
301	LM301AN	305
301	HCS301-I/SN	394
301	LM301AH	305
301	TSIC301WST	523
3010	LT3010EMS8E#PBF	543
3010	LT3010EMS8E-5#PBF	559
3010	PCM3010DB	533
3011	TLV3011AIDCKT	429
3011	TLV3011AIDBVT	429
3011	LT3011EMSE#PBF	544
3011	CS3011-ISZ	338
3012	LT3012BEFE#PBF	544
3012	LT3012EDE#PBF	544
3012	TLV3012AIDCKT	429
3012	REF3012AIDBZTG4	537
3012	TLV3012AIDBVTG4	429
3012	CS3012-ISZ	338
3013	LT3013EDE#PBF	544
3013	CS3013-FSZ	309
3013	LT3013EFE#PBF	544
3014	CS3014-FSZ	316
3014	LT3014EDD#PBF	543
3016	TL3016CD	429
3016	TL3016ID	429
302	LIS302DL	518
302	LMH0302SQE/NOPB	445
302	LNK302GN	502
3020	OHS3020U	439
3020	LT3020EMS8#PBF	543
3021	LT3021ES8#PBF	545
3021	TS3021ICT	429
3021	LT3021EDH#PBF	545
3021	MCP3021A5T-E/OT	281
3023	LT3023EDD#PBF	543
3023	LT3023EMSE#PBF	543
3024	LT3024EFE#PBF	545
3025	REF3025AIDBZTG4	539
3025	LTC3025EDC-2#TRMPBF	550
3026	LTC3026EDD#PBF	546
3026	LTC3026EMSE#PBF	546
30260	M30260F8AGP#U5A	225
3027	LT3027EMSE#PBF	543
3028	LT3028EFE#PBF	545
30280	M30280FAHP#U5B	225
3029	LTC3209EUF-1#PBF	442
30290	M30290FCHP#U5A	225
303	DG303BDJ-E3	342
303	MAX303ESE+	342
303	DG303BDY-E3	342
303	DG303ACJ+	343
3030	OHS3030U	439
3030	REF3030AIDBZTG4	539
3032	EPM3032ATC4410N	89
3033	LMK03033ISQE/NOPB	349
3033	LMK03033CISQE/NOPB	349
3033	LMK03033CISQ	349
3034	EPM3064ATC4410N	89
3037	IRU3037CSPBF	480
3037	IRU3037ACSPBF	480
3040	OHS3040U	439
3040	REF3040AIDBZTG4	540
3046	LM3046M	529
305	SA305EX	324
3051	ADP3051ARMZ-REEL7	480
3052	PCM3052ARTFG4	533
3054	TP3054N/NOPB	533
3054	CA3054MZ	333
3054	PVA3054NPBF	469
3057	TP3057N/NOPB	300
306	TSIC306WST	523
306	LM306P	428
306	SA306A-FHZ	338
306	SA306-IHZ	338
306	MAX306EWI+	340
306	TSIC306WEB	523
3060	PCM3060PW	533
3061	THS3061D	316
3062	THS3062D	316
30624	M30624FGPGP#U5C	225
3063	NCP3063BDR2G	500
3063	NCP3063PG	480
3063	NCP3063BPG	480
307	MAX307CWI+	340
307	MAX307EWI+	340
3070	TP3070V-G/NOPB	533
3070	MAX3070EESD+	453
3070	SP3070EEN-L	454
3070	ADM3070EARZ	450
3071	ADM3071EARZ	450
3071	SP3071EEN-L	454
3072	ADM3072EARZ	450
3072	SP3072EEN-L	454
3073	ADM3073EARZ	450
3074	ADM3074EARZ	450
3075	LM3075MTC	480
3075	SP3075EEN-L	454
3075	ADM3075EARZ	450
3076	SP3076EEN-L	454
3076	ADM3076EARZ	450
3077	SP3077EEN-L	454
3077	ADM3077EARZ	450
3078	SP3078EEN-L	454
3078	ADM3078EARZ	450
3079	MAX3079EESD+	453
308	MAX308CSE+	340
308	LM308H	305
308	LM308AH	305
308	MAX308CPE+	340
308	DG308BDJ	343
308	DG308BDY-E3	343
3080	MAX3080CSD+	453
3080	MAX3080ECSD+	453
3080	MAX3080CPD+	452
3080	LT3080EDD#PBF	546
3080	LT3080EMS8E#PBF	546
3080	LT3080EST#PBF	546
3080	MAX3080EESD+	453
3082	MAX3082CSA+	450
3082	MAX3082CPA+	450
3083	CA3083Z	529
3085	MAX3085CSA+	450
3085	LT3085EMS8E#PBF	544
3085	MAX3085EESA+	453
3086	MAX3086CSD+	450
3087	MAX3087ECSA+	453
3088	MAX3088EESA+	453
3089	MAX3089CPD+	450
3089	MAX3089ESD+	453
309	DG309BDJ-E3	343
309	PGA309AIPWTG4	518
309	LM309H	561
309	LM309K-STEEL	561
309	MAX309CSE+	339
3091	THS3091D	309
3091	THS3091DDA.	309
3091	THS3091DDA	309
3092	THS3092D	316
3094	TP3094V/NOPB	533

Index by Type for Semiconductor ICs

	Mftrs. List No.	Page
3094	MAX3094EEUE+	452
3095	MAX3095CPE+	446
3095	MAX3095CSE+	452
3096	HFA3096BZ	338
3096	MAX3096EEE+	452
3096	MAX3096ESE+	452
3097	MAX3097ECSE+	452
30F2010	DSPIC30F2010-20I/SP	197
31	MCIMX31VKN5C	236
31	MCIMX31VKN5B	236
31	MCIMX31LVKN5C	236
31	LMH0031VS	532
31	MCIMX31CVKN5C	236
310	SP310EET-L	454
310	ZXSC310E5	442
310	TSH310ID	305
310	QT310-ISG	511
310	TSH310ILT	305
310	TD310ID	460
3100	ADUM3100BRZ	457
3100	LM3100MH	480
3100	MAX3100EEE+	417
3100	VSP3100YG4	524
3100	TPA3100D2PHP	534
3100	MAX3100CEE+	416
3101	HFA3101BZ..	355
3101	IR3101	459
31010	ZMD31010AAG1-T	527
31012	TPS61012DGS	489
3102	CA3102MZ	316
3103	TAS3103DBTG4	534
3103	TPS3103K33DBVT	257
31050	ZMD31050DAG1-T	527
31050	ZMD31050DEG1-T	527
31050	ZMD31050DIG1-T	527
31050	ZMD31050DCG1-T	527
3106	TPS3106K33DBVT	257
311	LM311H	428
311	LM311P..	428
311	FSQ311	470
311	LM311NG	428
311	LM311N	428
311	FSQ311L	470
311	FSDM311	470
311	TPA311DG4	532
311	LM311P	428
311	LP311D	428
311	LM311DG	428
311	LM311NG	432
311	LM311D	428
3110	TPS3110K33DBVT	257
3111	MMH3111NT1	352
3112	REF3112AIDBZTG4	537
3114	TLK3114SCZPV	355
3116	TL3116CD	429
312	DAC312HPZ	294
312	PVT312LSPBF	469
312	MAX312CSE+	343
312	SP312ACT-L	454
312	MAX312CPE+	343
312	PVT312PBF	469
3120	THS3120ID	309
3120	TPA3120D2PWPG4	534
3120	REF3120AIDBZT	538
3121	THS3121ID	309
3122	IL3122E	456
3123	TPA3123D2PWP	534
3125	FST3125M	76
3125	REF3125AIDBZTG4	539
3126	FST3126M	76
3127	HFA3127BZ..	355
3128	EPM3128ATC100-10N	89
3128	EPM3128ATC100-10N	574
3128	HFA3128BZ..	355
313	MAX313CSE+	343
313	MAX313CPE+	343
313	MAX313ESE+	343
3130	CA3130EZ	327
3130	REF3130AIDBZTG4	539
3130	CA3130MZ	327
3130	FHP3130IS5X	309
3130	CA3130AMZ	309
3130	CA3130AE	327
3131	FHP3131IS6X	309
3132	FHP3132IS5X	309
3133	REF3133AIDBZTG4	539
314	MAX314CSE+	343
314	MAX314CPE+	343
3140	MAX3140CEI+	452
3140	CA3140EZ	570
3140	CA3140AEZ	327
3140	REF3140AIDBZTG4	540
3140	CA3140EZ	328
3140	CA3140MZ	328
3150	LM3150MHE	505
3150	LT3150CGN#PBF	480
3150	LM3150	480
3151	LM3151-3.3	480
3151	LM3151MHE-3.3	505
3152	LM3152-3.3	480
3152	LM3152MHE-3.3	505
3152	ISL3152EIBZ	347
3153	LM3153-3.3	480
3153	LM3153MHE-3.3	505
3157	FSA3157P6X	342
316	ADT7316ARQZ	523
3160	MAX3160CAP+	450
3160	MAX3160EAP+	452
3162	MAX3162EAI+	453
3163	NCP3163PWG	500
3163	NCP3163BPWG	500
3163	NCP3163MNR2G	480
317	LM317AEMP	546
317	LM317HVT	546
317	TL317CD	543
317	TL317CLP	543
317	LM317T	571
317	LM317T	571
317	LM317KSTEEL	547
317	KA317TU	546
317	LM317EMP	546
317	LM317MDT	547
317	LM317AMDT	546
317	LM317T	547
317	LM317BTG	546
317	LM317HVKSTEEL	546
317	LM317LD	543
317	LM317MDT	543
317	LM317K	546
317	LM317MDCY.	545
317	KA317TU.	546
317	LM317S	571
317	LM317D2T	546
317	LM317MT	545
317	LM317HVT	571
317	LM317AT	546
317	LM317D2TG	546
317	LM317AT	571
317	LM317LDG	547
317	LM317S	547
3172	MIC3172YM	480
3172	ISL3172EIBZ	347
3179	ISL3179EIBZ	347
3179	ISL3179EFBZ	347
318	LM318M	305
318	LM318P	305
318	LM318H	305
3185	IL3185E	456
319	LM319AM/NOPB	429
319	SP319CF-L	454
319	MAX319CSA+	341
319	MAX319CPA+	341
319	LM319N	430
319	MAX319ESA+	341
319	LM319M	429
319	LM319N	429
3194	FHP3194IM14X	340
32	ATMEGA32-16PU	137
32	ATMEGA32L-8AU	137
32	DS32C35-33IND#	253
32	ATMEGA32L-8PU	137
32	ATMEGA32L-8MU	137
32	STM32F103RDT6	243
32	STM32F103RET6	243
32	STM32F103VCT6	243
32	STM32F103VDT6	243
32	STM32F103VET6	243
32	STM32F103ZCT6	243
32	ATMEGA32L-8AU	573
32	ADVFC32KNZ	437
32	ATMEGA32-16AU	573
32	STM32F103ZDT6	243
32	DS32EV400SQ/NOPB	354
32	VFC32KPG4	437
32	STM32F101ZDT6	243
32	ATMEGA32-16AU	137
32	TL032AID	326
32	TL032ACD	326
32	ATMEGA32-16PU	570
32	STM32F101ZCT6	243
32	STM32F101VET6	243
32	DS32B35-33#	253
32	DS3232S#	253
32	74HCT1G32GW	61
32	STM32F103ZET6	243
32	STM32F101RCT6	243
32	STM32F101RDT6	243
32	STM32F101RET6	243
32	STM32F101VCT6	243
32	STM32F101VDT6	243
32	VFC32KUE4	437
32	XCF32PV0G48C	97
32	LM32CIMT	522
32	DS32B35-33IND#	253
32	XCF32PFSG48C	97
32	DS32C35-33#	253
32	ATMEGA32-16MU	137
32	STM32F103RCT6	243
32	STM32F101ZET6	243
320	TLV320AIC3104IRHBT	532
320	TMS320LF2403APAGA	575
320	ADXL320JCP	518
320	TMS320VC5421PGE200	252
320	LM320T-12	549
320	TMS320C6722RFP200	252
320	TLV320AIC3106EVM	303
320	TMS320VC5509APGE	252
320	TMS320LF2407APGEA	252
320	TLV320AIC32IRHBTG4	532
320	TMS320LF2406APZA	252
320	TMS320LF2403APAGA	252
320	TMS320F2808PZA	252
320	TMS320F2801PZA	252
320	TLV320AIC14IDBTG4	532
320	TMS320VC5409APGE16	252
320	TMS320C6711DZDP200	252
320	TMS320C6418ZTS600	252
320	QT320-ISG	511
320	TMS320VC5402PGE100	252
320	TMS320F28016PZA	252
320	S29GL032A11TFIR30	117
320	S29GL032A11TFIR40	117
320	TMS320C6713BPYP200	252
320	TMS320VC5402APGE16	252
320	TMS320C6720BRFP200	252
320	TMS320C6722BRFP200	252
320	THAT320P14-U	529
320	TMX320DM355ZCE270	251
320	TMX320DM355ZCE216	251
320	TMS320F240PQG4	252
320	TMS320F243PGE	252
320	TMS320C6204ZHK200	252
320	TMS320C6722BRFP250	252
320	VFC320BP	437
320	THAT320S14-U	529
320	TLV320AIC23BIPW	532
320	TLV320AIC10CPFBG4	300
320	TLV320AIC23BPWG4	532
320	MAX320CSA+	343
320	LM320K-15	549
320	LM320K-12	550
320	TLV320AIC23PW	532
320	TMS320VC33PGE-120	252
320	TLV320AIC10IPFBG4	532
320	TLV320AIC26IRHBG4	532
320	TMS320F2809PZA	252
320	TMS320VC549PGE-100	252
320	TMS320F2809GGMA	252
320	TMS320VC5509AGHH	252
320	TMS320F241FN	252
320	TMS320VC5502PGF300	252
320	TMS320VC5416PGE160	252
3200	LTC3200ES6-5#TRMPBF	480
3200	LTC3200EMS8#PBF	480
3200	CAT3200TDI	493
3201	MCP3201-CI/P	284
3201	MCP3201-CI/P	571
3201	THS3201D	309
3201	MCP3201-BI/SN	284
3201	THS3201DBVT..	309
3201	THS3201DGN	309
3201	MCP3201-CI/SN	284
3201	MCP3201-BI/P	284
3202	ADM3202ARWZ	347
3202	ADM3202ANZ	347
3202	THS3202D	316
3202	THS3202DGK	316
3202	THS3202DGN	316
3202	MCP3202-CI/SN	284
3202	LM3202TL	480
3202	ADM3202ARUZ	450
3202	MCP3202-BI/SN	284
3202	MCP3202-CI/P	284
3202	ADM3202ARNZ	450
3203	LM3203TL	480
3203	SP3203ECY-L	454
3204	LM3204TL	480
3204	LTC3204BEDC-5#TRMPBF	480
3204	MCP3204-CI/SL	284
3204	MCP3204-CI/P	284
3205	LM3205TL	480
3206	LTC3206EUF#PBF	442
3207	LM3207TL	480
3208	MCP3208-CI/SL	284
3208	MCP3208-CI/P	284
321	LMV321IDCKTE4	305
321	FSDH321	470
321	LM321MF	305
321	FSQ321L	470
321	LMV331IDCKTE4	428
321	FSQ321	470
321	ADXL321JCP	518
321	LMV321IDBVR	305
321	TSV321ID	305
321	LMV321RILT	305
321	LMV321ILT	305
321	LMV321M5	305
321	LMV321M5/NOPB	305
321	TS321CX5 RF	305
321	INA321EA/250G4	336
321	INA321E/250G4	335
3210	TUSB3210PM	410
3210	CY3210-PSOCEVAL1	139
3210	CY3210-EXPRESSDK	139
3210	CY3210-MINIPROG1	139
3211	LM3211MT-ADJ	480
3212	UPSD3212C-40T6	163
3212	A3212ELHLT-T	439
3212	UPSD3212C-40T6	575
3213	A3213EUA-T	439
3214	LTC3214EDD#PBF	442
3215	LTC3215EDD#PBF	442
3216	LTC3216EDE#PBF	442
322	ADXL322JCP	518
322	INA322EA/250	336
322	PVT322PBF	469
3220	REF3220AIDBVTG4	538
3220	LTC3220EPF#PBF	442
3220	SP3220EBEA-L	454
3220	SP3220ECA-L	454
3220	SP3220EBCY-L	454
3220	SP3220EEA-L	454
3220	SP3220EBCA-L	454
3220	SP3220EUEA-L	454
3221	Z8F3221AN020SG	164
3221	MAX3221EAE+	450
3221	MAX3221IDBE4	450
3221	MAX3221ECAE+	450
3221	ICL3221CAZ	450
3221	ICL3221ECVZ	450
3221	MAX3221CPWE4	450
3221	MAX3221CDBE4	450
3221	ICL3221ECAZ	450
3221	MCP3221DM-PCTL	303
3221	MAX3221EEAE+	450
3221	MAX3221IDB.	450
3221	ICL3221EIAZ	450
3221	MAX3221IPWG4	450
3221	MAX3221CUE+	453
3221	MCP3221A5T-I/OT	286
3221	MAX3221EIPWG4	450
3221	ICL3221CVZ	450
3221	MAX3221EUE+	453
3221	MCP3221A5T-E/OT	284
3221	MAX3221CAE+	450
3222	ADM3222ANZ	450
3222	ICL3222CPZ	450
3222	SP3222EEA-L	454
3222	SP3222ECY-L	454
3222	MAX3222ECDB	450
3222	SP3222ECA-L	454
3222	MAX3222EAP+	453
3222	ADM3222ARSZ	347
3222	SP3222EBCY-L	454
3222	ICL3222CAZ	450
3222	ICL3222CBZ	450
3222	MAX3222CPW	450
3222	ADM3222ARUZ	450
3222	MAX3222EIPWG4	450
3222	IL3222E	456
3222	MAX3222EEUP+	453
3222	MAX3222EEAP+	453
3222	MAX3222CPN+	450
3222	MAX3222ECUP+	453
3223	ICL3223CAZ	450
3223	MAX3223EAP+	450
3223	MAX3223CPP+	446
3223	MAX3223EEAP+	452
3223	MAX3223CAP+	450
3223	MAX3223EIDBG4	450
3223	MAX3223ECAP+	453
3223	MAX3223EEUP+	453
3223	SP3223EEA-L	454
3223	SP3223EEY-L	454
3223	MAX3223CDB	450
3223	MAX3223ECPWG4	450
3223	ICL3223CPZ	450
3223	SP3223ECA-L	454
3224	LM3224MM-ADJ	480
3224	MAX3224EEAP+	453
3224	MAX3224ECAP+	451
3225	MAX3225CAP+	453
3225	ICL3225ECAZ	451
3225	MAX3225ECAP+	452
3225	ICL3225ECPZ	451
3225	ICL3225ECP	451
3225	REF3225AIDBVTG4	539
3226	MAX3226EEAE+	453
3226	MAX3226ECAE+	453
3227	ICL3227ECAZA	451
3227	MAX3227EIDBG4	451
323	LM323KSTEEL	562
323	LT323AT#PBF	562
323	MAX323CPA+	342
3230	REF3230AIDBVTG4	539
32300	32300	224
3231	DS3231SN#	254
3232	SP3232EEN-L	455
3232	ST3232CTR	451
3232	ICL3232CBNZ	451
3232	DS3232SN#	254
3232	ICL3232CBZ	451
3232	SP3232EEA-L	455
3232	ICL3232CVZ	451
3232	SP3232ECY-L	455
3232	SP3232EBCA-L	454
3232	SP3232EBCN-L	454
3232	ICL3232CPZ	451
3232	SP3232ECT-L	455
3232	SP3232ECP-L	455
3232	SP3232ECN-L	455
3232	SP3232ECA-L	454
3232	SP3232EBCY-L	454
3232	ICL3232ECAZ	451
3232	ICL3232ECV-16Z	451
3232	ICL3232EIV-16Z	451

Index by Type for Semiconductor ICs

	Mftrs. List No.	Page
3232	MAX3232CDE4	451
3232	MAX3232CDBE4	451
3232	MAX3232ECDG4	451
3232	MAX3232ECUP+	453
3232	MAX3232EUE+	452
3232	MAX3232EEUP+	453
3232	MAX3232ECWE+	451
3232	MAX3232ESE+	451
3232	MAX3232ECAE+	451
3232	MAX3232CWE+	451
3232	MAX3232CSE+	451
3232	MAX3232CPWG4	451
3232	MAX3232IPW	451
3232	MAX3232ECDBG4	451
3232	SP3232EEY-L	455
3232	MAX3232CPE+	451
3232	MAX3232EIDBG4	451
3232	MAX3232EIDWG4	451
3232	TRSF3232EID	451
3232	MAX3232CDR	451
3232	SP3232EUCN-L	455
3232	ICL3232CAZ	451
3232	FHP3232IM8X	316
3232	MAX3232EIPWG4	451
3232	SP3232EUCP-L	455
3233	REF3233AIDBVTG4	539
3234	UPSD3234A-40T6	163
3234	UPSD3234A-40U6	163
3234	UPSD3234BV-24U6	163
3234	DS3234S#	254
3237	MAX3237EAI+	453
3237	MAX3237EEAI+	453
3237	MAX3237EIDB	347
3237	MAX3237EIPW	451
3238	MAX3238CAI+	452
3238	MAX3238EEAI+	452
3238	MAX3238EAI+	451
3238	SP3238ECA-L	455
3238	SP3238EEA-L	455
3239	SP3239ECA-L	455
324	LM324APW	319
324	LM324AM	319
324	ATMEGA324P-20AU	138
324	LM324AD	319
324	LM324AN	319
324	LM324M	319
324	LM324D	319
324	LP324M	319
324	ATMEGA324P-20PU	138
324	LM324PW	319
324	LMV324M	319
324	LP324N	319
324	LMV324IPWR	319
324	LM324N	319
324	FIN324CMLX	347
324	LM324AN	319
324	ATMEGA324PV-10PU	138
324	LM324DG	319
324	LM324ADG	322
324	LM324NG	319
324	LM324N	319
324	LMV324ID	319
324	LMV324ID	319
324	LM324AN	571
324	LM324N	571
324	TSV324ID	319
324	LP324M.	319
324	LPV324IPWG4	319
324	LPV324IDE4	319
324	LPV324M/NOPB	319
324	LPV324DE4	319
324	LM324AN/NOPB	319
324	LP324MT/NOPB	319
324	LM324N..	319
324	LM324ANG	319
324	LM324N	319
324	ATMEGA324PV-10AU	138
324	LP324D	319
3240	A3240EUA-T	439
3240	CA3240AEZ	328
3240	REF3240AIDBVTG4	540
3240	CA3240EZ	328
3241	MAX3241ECAI+	451
3241	MAX3241EEAI+	453
3241	MAX3241CWI+	452
3243	MAX3243EIDB	451
3243	MAX3243ECDW	451
3243	MAX3243ECDB	451
3243	ICL3243CBZ	451
3243	SP3243EBEY-L	455
3243	SP3243EBCA-L	455
3243	SP3243EEA-L	455
3243	SP3243EET-L	455
3243	SP3243EUCA-L	455
3243	MAX3243CAI+	453
3243	MAX3243EIPWG4	451
3243	MAX3243ECAI+	451
3243	MAX3243EIDW	451
3243	MAX3243CPWR	451
3243	MAX3243CDB.	451
3243	ICL3243CAZ	451
3244	MAX3244ECAI+	453
3245	MAX3245CAI+	452
3245	A3245LUA-T	439
3245	A3245EUA-T	439
3249	SP3249ECY-L	455
325	MAX325CSA+	341
325	ATMEGA325-16AU	138
325	MAX325CPA+	342
325	ATMEGA325V-8AU	138
3250	ATMEGA3250V-8AU	138
3250	ATMEGA3250-16AU	138
3254	MAX3245EEAI+	452
3256	EPM3256ATC144-10N	574
3256	EPM3256ATC144-10N	89
3257	FST3257M	76
326	INA326EA/250G4	336
3260	CA3260EZ	328
3260	CA3260AEZ	309
327	INA327EA/250	336
3272	MAX3272AETP+	518
328	MAX328CWE+	340
328	AD7328BRUZ	282
3280	A3280EUA	439
3280	A3280EUA-T	439
3281	GR3281	108
3281	GR3281-H	108
3281	GR3281-7	108
3281	A3281ELHLT-T	439
3281	A3281EUA-T	439
3282	A3282EUA-T	439
3282	A3282LLHLT-T	439
3285	IL3285E	456
3285	BQ3285LFSS-A1	257
3289	MIC3289-24YD6 TR	462
329	LM329DZ...	541
329	CDC329AD..	253
3290	A3290KUA-T	439
3291	A3291KUA-T	439
3292	MAX3292ESD+	453
33	DSPIC33FJ32GP204-I/PT	197
33	DSPIC33FJ32MC202-I/MM	198
33	DSPIC33FJ32MC202-I/SO	198
33	DSPIC33FJ32MC202-I/SP	198
33	DSPIC33FJ32MC204-I/ML	198
33	DSPIC33FJ32MC204-I/PT	198
33	LF33CV	557
33	DSPIC33FJ128GP310-I/PT	197
33	DSPIC33FJ128GP710-I/PT	197
33	DSPIC33FJ128MC510-I/PT	198
33	DSPIC33FJ128MC710-I/PT	198
33	DSPIC33FJ32GP204-I/ML	197
33	DSPIC33FJ32GP202-I/SP	197
33	DSPIC33FJ32GP202-I/SO	197
33	DSPIC33FJ32GP202-I/MM	197
33	DSPIC33FJ16MC304-I/PT	198
33	DSPIC33FJ16MC304-I/ML	198
33	DSPIC33FJ16GP304-I/PT	197
33	DSPIC33FJ16GP304-I/ML	197
33	DSPIC33FJ64MC706-I/PT	198
33	DSPIC33FJ64MC506-I/PT	198
33	DSPIC33FJ64GP708-I/PT	197
33	DSPIC33FJ32GP302-I/SO	197
33	DSPIC33FJ128GP706-I/PT	197
33	DSPIC33FJ128MC706-I/PT	198
33	DSPIC33FJ256GP506-I/PT	574
33	DSPIC33FJ32GP302-I/MM	197
33	DSPIC33FJ128MC804-I/PT	198
33	DSPIC33FJ128MC804-I/ML	198
33	DSPIC33FJ128MC802-I/SP	198
33	DSPIC33FJ128MC706-I/PT	574
33	DSPIC33FJ128GP706-I/PT	574
33	LE33CZ	556
33	KF33BD	557
33	DSPIC33FJ128MC802-I/SO	198
33	DSPIC33FJ64MC710-I/PT	198
33	DSPIC33FJ64MC510-I/PT	198
33	DSPIC33FJ64GP710-I/PT	197
33	DSPIC33FJ64GP310-I/PT	197
33	DSPIC33FJ256MC710-I/PT	198
33	DSPIC33FJ256MC710-I/PF	198
33	DSPIC33FJ256MC510-I/PT	198
33	DSPIC33FJ256GP710-I/PT	197
33	DSPIC33FJ256GP510-I/PT	197
33	DSPIC33FJ64GP802-I/MM	197
33	DSPIC33FJ64GP204-I/PT	197
33	DSPIC33FJ128MC802-I/MM	198
33	DSPIC33FJ128MC204-I/ML	198
33	DSPIC33FJ128MC202-I/MM	198
33	DSPIC33FJ128GP804-I/PT	197
33	DSPIC33FJ64GP204-I/ML	197
33	DSPIC33FJ64GP202-I/SP	197
33	DSPIC33FJ64GP202-I/SO	197
33	DSPIC33FJ64GP202-I/MM	197
33	DSPIC33FJ32MC304-I/ML	198
33	DSPIC33FJ32MC302-I/SP	198
33	DSPIC33FJ32MC302-I/SO	198
33	DSPIC33FJ32MC302-I/MM	198
33	DSPIC33FJ32GP304-I/PT	197
33	DSPIC33FJ32GP304-I/ML	197
33	DSPIC33FJ32GP302-I/SP	197
33	DSPIC33FJ128GP202-I/MM	197
33	DSPIC33FJ128GP204-I/ML	197
33	DSPIC33FJ128GP802-I/MM	197
33	DSPIC33FJ128GP802-I/SO	197
33	DSPIC33FJ128GP802-I/SP	197
33	DSPIC33FJ128GP804-I/ML	197
33	DSPIC33FJ64GP706-I/PT	197
33	DSPIC33FJ64GP306-I/PT	197
33	DSPIC33FJ64GP206-I/PT	197
33	DSPIC33FJ256GP506-I/PT	197
33	DSPIC33FJ128MC708-I/PT	198
33	DSPIC33FJ128MC506-I/PT	198
33	DSPIC33FJ128GP708-I/PT	197
33	DSPIC33FJ128GP306-I/PT	197
33	DSPIC33FJ128GP206-I/PT	197
33	DSPIC33FJ12MC202-I/SS	198
33	DSPIC33FJ64MC804-I/PT	198
33	DSPIC33FJ64MC804-I/ML	198
33	DSPIC33FJ64MC802-I/SP	198
33	DSPIC33FJ64MC802-I/SO	198
33	DSPIC33FJ64MC802-I/MM	198
33	DSPIC33FJ64MC204-I/PT	198
33	DSPIC33FJ64MC204-I/ML	198
33	DSPIC33FJ64MC202-I/SP	198
33	DSPIC33FJ64MC202-I/SO	198
33	DSPIC33FJ64MC202-I/MM	198
33	DSPIC33FJ64GP804-I/PT	197
33	DSPIC33FJ64GP804-I/ML	197
33	DSPIC33FJ64GP802-I/SP	197
33	DSPIC33FJ64GP802-I/SO	197
33	LF33ABV	557
33	LF33CDT	557
33	LF33ABDT	557
330	TSH330ID	305
330	ZSM330C.	255
330	ZSM330C	255
330	ADXL330KCPZ	518
330	ZXCL330H5TA	556
330	ZRC330F03TA	539
330	FSAV330MTCX	343
330	VN330SP-E	460
330	ZXCL330E5TA	556
330	LM330T-5.0/NOPB	559
330	ZLDO330T8	557
330	ZRC330F01TA	539
3300	ADP3300ARTZ-3.3RL7	556
3300	ADG3300BRUZ	521
3300	ADUM3300BRWZ	457
3301	MCP3301-CI/SN	286
3301	ADUM3301BRWZ	457
3301	ADUM3301CRWZ	457
3301	ADUM3301ARWZ	457
3301	MCP3301-BI/SN	286
3301	MCP3301-CI/P	286
3302	LM3302N	431
3302	MCP3302-CI/P	286
3302	MCP3302-CI/SL	286
3303	MC3303DG	321
3303	MC3303DG	322
3303	MC3303PG	322
3303	MC3303D	321
33033	MC33033PG	458
33035	MC33035PG	458
33039	MC33039DG	458
3304	ADG3304BRUZ	521
3304	MCP3304-CI/P	286
3304	MCP3304-CI/SL	286
3305	TPS3305-25DG4	257
3305	TPS3305-25DGNG4	257
3305	TPS3305-18DG4	257
3305	TPS3305-18DGNG4	257
3305	TPS3305-33D	257
3306	TPS3306-18D	257
3306	FSTD3306L8X	76
33063	MC33063ADG	489
33063	MC33063AP1G	489
33063	MC33063AD	489
33063	MC33063APE4	489
33063	MC33063ADE4	489
33064	MC33064P-5G	259
33064	MC33064D-5G	489
3307	TPS3307-25D	257
3307	TPS3307-25DGNG4	257
3307	TPS3307-33DGNG4	257
3307	TPS3307-18DGN	257
3307	TPS3307-18DG4	257
3307	TPS3307-33D	257
33072	MC33072PG	318
33074	MC33074DG	322
33074	MC33074PG	322
33077	MC33077PG	322
33077	MC33077DG	322
33077	MC33077DG	318
33078	MC33078PG	536
33078	MC33078DG	536
33078	MC33078N	536
33079	MC33079DG	536
33079	MC33079PG	536
3308	CS3308-CQZ	534
3308	ADG3308BRUZ	518
331	LMV331IDBVR	428
331	LM331N	437
331	LM331AN	437
331	SP331CT-L	454
331	SP331ET-L	454
331	INA331IDGKT	336
331	TL331IDBVRG4	428
331	LMV331M5	428
3310	LM3310SQ	480
3310	CS3310-KSZ	338
3311	MAX3311EEUB+	453
3311	ADM3311EARUZ	451
3311	LM3311SQ	480
3311	ADM3311EARSZ	451
3312	REF3212AIDBVTG4	537
3312	UPSD3312DV-40T6	163
3312	UPSD3312D-40T6	575
3312	UPSD3312D-40T6	163
33129	MC33129EFR2	525
3313	IR3313SPBF	342
3313	MAX3313ECUB+	453
3314	IR3314SPBF	342
3315	IR3315SPBF	342
33151	MC33151DG	465
33151	MC33151PG	465
33152	MC33152DG	465
33152	MC33152PG	466
33153	MC33153PG	466
33153	MC33153DG	466
33161	MC33161DG	259
33163	MC33163DWG	489
33163	MC33163PG	489
33164	ZM33164G TA.	259
33164	MC33164P-5G	259
33164	MC33164P-3G	259
33164	MC33164D-5G	489
33164	ZM331643CL	259
331643	ZM331643GTA.	259
331643	ZM331643CL.	259
33166	MC33166TG	489
33166	MC33166D2TG	489
33167	MC33167TG	489
33167	MC33167D2TG	489
33171	MC33171DG	311
33171	MC33171N	311
33171	MC33171PG	311
33172	MC33172PG	318
33172	MC33172DT	318
33172	MC33172DG	318
33174	MC33174N	322
33174	MC33174DG	322
33174	MC33174PG	322
33178	MC33178PG	318
33179	MC33179PG	322
3318	MAX3318EIPW	355
3318	CS3318-CQZ	534
332	FSAV332QSC	532
332	SP332ET-L	454
332	FSAV332MTC	532
332	LM7332MA	312
332	INA332AIDGKT..	336
332	LM7332MME	312
33201	MC33201PG	311
33201	MC33201DG	311
33202	MC33202PG	318
33202	MC33202DG	318
33204	MC33204PG	322
33204	MC33204DG	322
3325	REF3325AIDBZT	480
3325	REF3325AIDCKT	539
33262	MC33262PG	489
33262	MC33262DG	489
33272	MC33272APG	318
33274	MC33274ADG	322
33274	MC33274APG	322
333	MAX333ACWP+	343
333	MAX333CPP+	343
333	INA333AIDGKT	336
333	ADG333ABRSZ	343
333	ADG333ABNZ	344
333	OPA333AIDCKTG4	329
333	OPA333AIDBVTG4	329
333	OPA333AIDG4	329
3331	ADP3331ARTZ-REEL7	544
3333	UPSD3333D-40U6	163
3333	UPSD3333DV-40U6	163
3333	UPSD3333D-40T6	163
3334	ADP3334ARZ	545
3334	UPSD3334DV-40U6	163
33340	MC33340DG	489
33342	MC33342DG	489
3336	ADP3336ARMZ-REEL	543
33363	MC33363BDWG	489
3338	ADP3338AKCZ-5-R7.	561
3338	ADP3338AKCZ-3.3RL7.	558
3338	ADP3338AKCZ-2.5RL7.	554
3338	CA3338EZ	292
334	LM334Z	470
334	LM334H	470
334	LM334S8#PBF	470
334	LM334M	470
334	LM334Z	470
334	OPA334AIDBVTG4	305
334	SP334CT-L	454
334	LM334Z/NOPB	470
335	OPA335AID	305
335	LM335H	523
335	OPA335AIDBVTG4	305
335	LM335Z	523
335	MAX335CNG+	344
335	LM335D	523
335	MAX335CWG+	344
335	LM335Z	523
3350	FHP3350IMTC14X	534
33501	MC33501SNT1G	322

Index by Type for Semiconductor ICs

	Mftrs. List No.	Page
33503	MC33503SNT1G	322
3351	LM3351MM/NOPB	480
3354	LM3354MM-3.7	480
3354	PVA3354NPBF	469
3354	LM3354MM-1.8	480
3354	UPSD3354DV-40U6	163
3354	PVA3354N	469
3354	UPSD3354D-40U6	163
3355	OPA3355EA/250	318
3355	LM3355MM-4.1	480
3357	TS5A3357DCUTG4	345
3357	FSA3357K8X	342
336	OPA336NA/3KG4	305
336	LM336M-2.5	538
336	LM336Z	538
336	OPA336UA	328
336	OPA336NA/250G4	305
336	OPA336N/250G4	305
336	LM336Z-2.5	538
336	OPA336NA	305
336	LM336BM-5.0	540
336	LM336BZ-5.0	540
336	LM336Z-5.0	540
336	LM336M-5.0/NOPB	540
33661	MCZ33661EFR2	411
33661	MCZ33661EF.	411
337	LM337LZ	543
337	KA337TU	546
337	KA337TU.	546
337	LM337D2TG	546
337	LM337LM	543
337	LM337IMP	546
337	LM337TG	546
337	INA337AIDGKT	336
337	LM337KC	546
337	LM337T	571
337	LM337SP	546
337	OPA337NA/250G4	305
337	OPA337UAG4	328
337	LM337KSTEEL	546
337	LM337K	546
3370	LM3370SD-4221	480
3370	LM3370SD-3013	480
3370	LM3370SD-3021	480
3370	LM3370SD-3416	480
3370	LM3370SD-3806	480
33780	MCZ33780EG.	411
338	LM338T	548
338	MAX338CSE+	340
338	LM338K	548
338	LM338KSTEEL	548
3380	MAX3380EEUP+	453
3380	MAX3380ECUP+	453
3381	MAX3381ECUP+	452
3384	FST3384WM	76
3387	MAX3387EEUG+	453
33879	MC33879EK	466
33884	MCZ33884EG.	411
33886	MC33886VW	458
33889	MCZ33889BEG.	427
33889	MCZ33889DEG.	427
33897	MCZ33897AEF	427
33897	MCZ33897EF	427
339	LMV339MT/NOPB	431
339	LMV339M	431
339	LM339DG	431
339	LM339AD	431
339	LM339D	431
339	LM339AN	431
339	LM339M	431
339	LP339M	431
339	LM339N	431
339	TLC339CN	431
339	LMV339IPW.	431
339	TLC339CD..	431
339	LM339AN	431
339	LM339NG	431
339	LM339PW	431
339	LP339D	431
339	TS339CD	431
339	LMV339M.	431
339	LM339N	431
339	LM339AN	431
339	LM339DBR	431
339	LM339N	431
339	LP339N	431
339	LM339AM	431
33972	MC33972EW	466
33975	MC33975EK	466
339794	MC33794EK	515
33989	MCZ33989EG.	427
33990	MCZ33990EF.	411
33999	MC33999EK.	444
34	TL034ACD	327
34	TL034AID	327
34	BR34L02FV-WE2	112
34	BR34E02FVT-WE2	112
34	LM34CZ	522
34	DS34C87TM/NOPB	445
34	DS34C86TM	446
34	DS34C87TM	446
34	LMH0034MA/NOPB	354
340	LM340T-12	571
340	LM340T-15	571

	Mftrs. List No.	Page
340	OPA340NA/3KG4	305
340	THAT340P14-U	529
340	LM340MP-5.0	561
340	TSH340ID	532
340	LMH0340SQE	347
340	LM340LAZ-5.0/NOPB	559
340	VN340SP-E	460
340	LM340K-5.0	561
340	THAT340S14-U	529
340	LM340K-15	564
340	LM340K-12	563
340	LM340S-5.0	561
340	LM340S-12	563
340	OPA340UA	328
340	OPA340PA	305
340	LM340T-5.0	561
340	LM340AT-5.0	561
3400	SI3400-E1-GM	480
3400	ADUM3400ARWZ	457
3400	ADUM3400CRWZ	457
3400	ADUM3400BRWZ	457
3401	ADUM3401CRWZ	457
3401	ADUM3401BRWZ	457
3401	ADUM3401ARWZ	457
3401	TLV3401IDBVT	309
3401	LM3401MM	480
3401	SI3401-E1-GM	480
3401	LTC3401EMS#PBF	480
34018	MC34018EC	536
3402	LM3402HVMM	442
3402	ADUM3402CRWZ	457
3402	ADUM3402BRWZ	457
3402	LTC3402EMS#PBF	480
3402	ADUM3402ARWZ	457
3403	MC3403D	321
3403	MC3403PG.	322
3403	MC3403DG	322
3403	MC3403N	321
3403	MC3403DG	321
3403	MC3403NE4	321
3403	MC3403D	321
3404	LM3404HVMR	480
3404	LM3404MA	442
3404	LTC3404EMS8#PBF	480
3405	LTC3405AES6-1.8#TRMPBF	480
3405	LM3405AXMY	442
3406	LTC3406BES5#TRMPBF	480
3406	LTC3406ABES5#TRMPBF	480
3406	LTC3406ES5#TRMPBF	480
3406	LM3406HVMH/NOPB	442
3406	LM3406MH/NOPB	442
3406	LTC3406ES5-1.5#TRMPBF	480
3406	LTC3406ES5-1.8#TRMPBF	480
34060	MC34060APG	489
34063	MC34063ADE4	489
34063	MC34063AP	489
34063	MC34063APE4	490
34063	KA34063A	489
34063	MC34063ECD	490
34063	KA34063ADTF	489
34063	MC34063ABD	489
34063	MC34063ECN	490
34063	MC34063AP1G	489
34063	MC34063EBN	490
34063	KA34063A.	489
34063	MC34063ACN	489
34063	MC34063ABN	489
34063	MC34063ADG	489
34064	MC34064P-5G	259
34064	MC34064D-005G	259
3407	LM3407MY	493
3407	LTC3407IDD-2#PBF	546
3407	LTC3407IMSE-2#PBF	546
34071	MC34071PG	322
34071	MC34071ADG	322
34072	MC34072DG	318
34072	MC34072ADG	322
34072	MC34072PG..	322
34072	MC34072DG	322
34074	MC34074ADG	322
34074	MC34074DG	322
34074	MC34074DG	322
341	LM341T-15/NOPB	564
341	LM341T-12/NOPB	560
341	LM341T-5.0/NOPB	560
341	TSH341ID	305
341	TSH341ILT	305
341	OPA341UA	305
341	LMV341MG	305
3410	LM3410YSD	441
3410	LM3410XSD	441
3410	TUSB3410IVF	410
3410	LM3410XMF/NOPB	442
3410	LM3410XMY/NOPB	442
3410	LM3410YMF/NOPB	442
3410	LM3410YMY/NOPB	442
3411	LTC3411EMS#PBF	480
3411	LTC3411EDD#PBF	480
3411	LM3411M5-5.0/NOPB	559
3411	LM3411AM5-5.0/NOPB	559
3412	LTC3412AEUF#PBF	480
3412	LTC3412EFE#PBF	480
34129	MC34129EF	525
3413	LTC3413EFE#PBF	480

	Mftrs. List No.	Page
3414	LTC3414EFE#PBF	480
34151	MC34151PG	466
34152	MC34152PG	466
3416	LTC3416EFE#PBF	480
3418	LTC3418EUHF#PBF	480
342	LMV342MM	319
342	LMV342MA.	319
342	LMV342MM.	319
342	LMV342MA/NOPB	312
342	OPA342UA	305
3420	LM3420M5-4.2	480
3420	LT3420EMS#PBF	480
3420	CA3420EZ	309
3421	LTC3421EUF#PBF	480
3421	MCP3421A0T-E/OT	289
3421	MCP3421A1T-E/CH	289
3421	LM3421MH	442
3421	MCP3421A0T-E/CH	289
3421	MCP3421EV	442
3422	UPSD3422E-40U6	163
3422	A3422EKA	439
3422	UPSD3422EV-40T6	163
3422	UPSD3422EV-40U6	163
3422	A3422EKA-T	439
3423	LM3423MH	442
3423	MC3423P1G	480
3423	A3423LK-T	439
3425	MCP3425A0T-E/CH	287
3425	LTC3425EUH#PBF	480
3425	A3425EK-T	439
3425	A3425LK-T	439
3426	LTC3426ES6#TRMPBF	480
3427	LTC3427EDC#TRMPBF	480
3429	LTC3429ES6#TRMPBF	480
343	TSH343ID	532
343	OPA343UA	305
343	OPA343NA/250G4	305
3430	LT3430IFE#PBF	480
3430	LM3430SD	480
3430	FHP3430IMTC14X	534
3430	LT3430EFE#PBF	480
3431	TS3431CILT	541
3431	LT3431EFE#PBF	480
3432	LM3432SQ	480
3433	UPSD3433E-40U6	163
3433	LM3433SQ	442
3433	UPSD3433EV-40T6	163
3433	LT3433EFE#PBF	480
3434	LT3434EFE#PBF	480
3434	UPSD3434EV-40U6	163
3434	UPSD3434E-40T6	163
3434	UPSD3434EV-40T6	163
3435	LT3435EFE#PBF	480
3436	LT3436EFE#PBF	480
3437	LT3437EFE#PBF	480
3439	LT3439EFE#PBF	480
344	OPA344NA/250G4	305
344	TSH344ID	532
344	OPA344UA	305
344	OPA344PA	305
344	OPA344PA.	305
344	LMV344MT	319
3440	LTC3440EMS#PBF	480
3441	LTC3441EDE#PBF	480
3442	LTC3442EDE#PBF	480
3443	LTC3443EDE#PBF	480
3448	LTC3448EMS8E#PBF	480
345	OPA345NA/250	328
3450	FHP3450IMTC14X	534
3453	LTC3453EUF#PBF	442
3454	LTC3454EDD#PBF	442
3455	LTC3455EUF#PBF	480
3458	LTC3458EDE#PBF	481
346	LM346N	319
346	LMH0346SQE/NOPB	349
3460	LT3460ES5#TRMPBF	481
3460	SI3460-D01-GM	481
3461	LT3461AES6#TRMPBF	481
3461	LT3461ES6#TRMPBF	481
3462	LT3462ES6#TRMPBF	481
3463	LT3463EDD#PBF	481
3463	LT3463AEDD#PBF	481
3464	LT3464ETS8#TRMPBF	481
3465	LT3465ES6#PBF	443
3465	LT3465ES6#TRMPBF	443
3465	LT3465AES6#TRMPBF	443
3466	LT3466EFE#PBF	443
3467	LT3467AES6#TRMPBF	481
3467	LT3467ES6#TRMPBF	481
34671	MC34671AEPR2	490
34673	MC34673AEPR2	490
34674	MC34674AEPR2	490
3468	LT3468ES5#TRMPBF	481
347	LF347N	327
347	LF347N	327
347	OPA347PA	305
347	OPA347NA/250	305
347	LF347BN	327
347	LF347D	319
347	LF347N	327
347	LF347D	327
3470	LP3470IM5-2.63/NOPB	257
3470	LT3470ETS8#TRMPBF	481
3470	LT3470ITS8#TRMPBF	481

	Mftrs. List No.	Page
3470	LP3470IM5-3.08/NOPB	257
34702	MC34702EK	490
3471	MAX3471CUA+	451
3471	MAX3471EUA+	452
3471	LT3471EDD#PBF	481
3472	TL3472CDE4	309
3472	TL3472CD	309
3473	LT3473EDD#PBF	481
3474	TL3474ID	321
3474	LT3474EFE#PBF	443
3474	TL3474AID	321
3475	LM3475MF	481
3475	LT3475EFE#PBF	443
3477	LT3477EFE#PBF	481
3477	LM3477AMM	482
3477	LM3477MM	481
3478	LM3478MM	482
3478	LT3478IFE#PBF	443
3479	LT3479EFE#PBF	481
348	LM348M	319
348	OPA348AID	305
348	LM348N	319
348	OPA348AIDBVTG4	305
348	LM348N	319
348	LM348N	319
348	LM348D	319
348	NCP348MTTXG	493
348	LM348M.	319
3480	TS3480CX50 RF	566
3480	LM3480IM3-5.0	559
3480	LT3480EMSE#PBF	481
3480	LT3480EDD#PBF	481
3481	LT3481HDD	481
3481	LT3481EMSE#PBF	481
3481	LT3481HMSE	481
3482	LT3482IUD#PBF	481
3483	SP3483CN-L	455
3483	ADM3483EARZ	451
3483	MAX3483ECSA+	453
3483	SP3483EN-L	455
3483	ADM3483ARZ	451
3483	MAX3483CPA+	451
3485	LM3485MM	482
3485	SP3485EN-L	455
3485	ADM3485ARZ	451
3485	SP3485CN-L	455
3485	MAX3485CPA+	451
3485	MAX3485CSA+	453
3485	MAX3485ECSA+	453
3485	MAX3485EESA+	453
3485	MAX3485ESA+	453
3485	ADM3485EARZ	451
3486	DS3486N	446
3486	ADM3486EARZ	451
3486	MC3486D..	446
3486	MAX3486EESA+	453
3486	LT3486EFE#PBF	481
3486	MC3486NE4	446
3486	DS3486M	446
3487	DS3487M.	446
3487	MC3487NE4	446
3487	DS3487N	446
3487	MC3487D	446
3487	LT3487EDD#PBF	481
3488	MAX3488EESA+	453
3488	ADM3488EARZ	451
3488	LM3488MM	481
3488	ADM3488ARZ	451
3489	LM3489MM	482
349	OPA349UAG4	328
349	OPA349NA	305
3490	LTC3490ES8#PBF	443
3490	MAX3490ESA+	452
3490	SP3490CN-L	455
3490	LM3490IM5-3.3/NOPB	556
3490	ADM3490EARZ	451
3490	LM3490IM5-12/NOPB	563
3490	LM3490IM5-15/NOPB	564
3490	ADM3490ARZ	451
3490	MAX3490EESA+	453
3491	MAX3491ESD+	453
3491	ADM3491EARZ	451
3491	SP3491EN-L	455
3491	TLV3491AIDBVTG4	429
3491	ADM3491ARZ	451
3491	MAX3491EESD+	453
34914	LM34914SD	546
34920	MC34920EI	458
3493	LT3493EDCB#TRMPBF	481
3493	ADM3493ARZ	451
34940	MC34940EG	510
3495	LM3495MTC	481
3496	LT3496IUFD#PBF	443
35	LM35CAZ	522
35	LM35CZ	522
35	LM35DZ	522
35	LM35DH	522
35	LM35CAH	522
35	LM35DM	522
350	LM350T	547
350	LM350T	547
350	TD350ID	460
350	MAX350EAP+	339
350	OPA350UA	328

Index by Type for Semiconductor ICs

	Mftrs. List No.	Page
350	OPA350PA..	328
350	LM350TG	547
350	LM350KSTEEL	547
350	OPA350EA/250G4	305
350	TSH350ID	305
3500	LM3500TL-21	443
3500	PCM3500EG4	534
3500	LT3500EMSE#PBF	481
3501	LT3501EFE#PBF	481
3501	LT3501IFE#PBF	481
3501	LM3501TL-16	443
3501	DS3501U+	436
3502	LM3502SQ-35	443
3502	LM3502SQ-25	443
3502	LM3502ITL-35	443
3502	LT3502AIDC#TRMPBF	481
3502	LM3502ITL-44	443
3502	LM3502SQ-16	443
3502	TLV3502AIDG4	430
3502	LM3502SQ-44	443
3502	LT3502EMS	481
3502	LM3502ITL-16	443
3502	LM3502ITL-25	443
3503	LM3503SQ-44	443
3503	LM3503ITL-35	443
3503	LM3503SQ-35	443
3503	LM3503SQ-25	443
3503	LM3503ITL-25	443
3503	LM3503ITL-16	443
3503	LT3503EDCB#PBF	481
3503	LM3503SQ-16	443
3505	LT3505EDD#PBF	481
3505	LT3505EMS8E#PBF	481
3505	LT3505IMS8E#PBF	481
3507	LT3507EUHF#PBF	494
3508	SP3508CF-L	455
3508	LT3508IFE#PBF	481
3508	LT3508EUF#PBF	481
3509	LM3509SDE	443
3509	LM3509SD	443
351	CDC351DB..	253
351	LF351N	325
351	TD351IN	460
351	MAX351CSE+	343
351	TD351ID	460
3510	LT3510EFE#PBF	481
3510	TPS3510PE4	257
3517	DG3517DB-T5-E1	342
3518	LT3518EFE#PBF	443
3518	LT3518EUF#PBF	443
3518	LT3518IUF#PBF	443
3519	LM3519MK-20	443
352	TD352ID	460
352	TD352IN	460
352	TLC352IDG4	430
352	RPI-352	518
3520	LM3520SD	443
3523	LTC3523EUD#PBF	494
3523	LTC3523EUD-2#PBF	494
3524	SG3524N	481
3524	UC3524ADWG4	481
3524	UC3524AN	573
3524	SG3524D	481
3524	LM3524DN	481
3524	UC3524AN	481
3524	SG3524N	481
3524	SG3524N..	481
3525	UC3525ANG4	481
3525	LM3525M-H	462
3525	UC3525ADWG4	481
3525	LM3525M-L	462
3525	LTC3525ESC6-3.3#TRMPBF	481
3525	LTC3525ESC6-5#TRMPBF	481
3525	SG3525AN	481
3526	UC3526ADWG4	481
3526	LTC3526BEDC#TRMPBF	481
3526	UC3526AN	481
3526	UC3526NG4	481
3526	UC3526DW	481
353	LF353DG4	326
353	LF353N	312
353	LF353N	326
353	LF353D	319
353	LF353M	326
353	OPA353NA/250	305
353	LF353P	326
353	OPA353UA	305
3530	LTC3530EMS#PBF	481
3531	LTC3531EDD#PBF	481
3533	LTC3533EDE#PBF	481
3538	LTC3538EDCB#TRMPBF	481
3538	DG3538DB-T5-E1	342
3539	DG3539DB-T5-E1	342
3539	LTC3539EDCB#TRMPBF	547
354	MAX354EWE+	340
354	OPA354AIDBVTG4	305
3540	DG3540DB-T1-E1	342
3541	TLC3541ID	286
3541	BH3541F-E2	537
3543	LTC3543EDCB#PBF	481
3544	TLC3544IDW	286
3544	BH3544F-E2	537
3544	TLC3544CDW..	297
3545	LTC3545EUD#PBF	481
3547	BH3547F-E2	537
3547	LTC3547EDDB-1#PBF	481
3547	LTC3547EDDB#PBF	481
3548	TLC3548IPW.	287
3548	TLC3548IDW	286
355	OPA355NA/3KG4	305
355	LM335AZ	523
355	MAX335EWG+	344
355	MCP355XDM-TAS	303
355	OPA355NA/250G4	305
355	LM335Z/NOPB	523
3550	MCP3550-50E/SN	289
3550	MCP3550-50E/MS	289
3551	MCP3551-E/SN	289
3551	MCP3551DM-PCTL	303
3551	MCP3551-E/MS	289
3551	LM3551SD	443
3552	LM3552SD	443
3553	MCP3553-E/MS	289
3553	MCP3553-E/SN	289
3555	LTC3555EUFD#PBF	481
3557	LM3557SD-2	443
3557	LTC3557EUF#PBF	481
3559	LTC3559EUD#PBF.	481
356	LF356N	571
356	LF356H	325
356	LF356N	325
356	LMH0356SQE	349
356	OPA356AIDBVT	328
356	LF356M	325
3568	LTC3568EDD#PBF	481
357	OPA357AIDBVTG4	305
3570	LM3570SD	443
3570	LT3570EFE#PBF	481
3570	UCC3570N	481
35701	UCC35701N	490
35701	UCC35701N.	490
35701	UCC35701D	490
35702	UCC35702D	490
3573	UC3573NG4	481
3574	TLC3574IDW..	297
3576	LTC3576EUFE-1#PBF	481
3576	LTC3576EUFE#PBF	481
3578	TLC3578IDW	286
3578	LM3578AN	481
3578	LM3578AM	481
358	LM358N	571
358	LM358AN	312
358	LM358DT	312
358	LM358H/NOPB	312
358	LM358NG	313
358	TSV358ID	312
358	LPV358D.	312
358	LM358AM	313
358	LM358AN	313
358	LM358P.	312
358	LM358D.	312
358	LM358DG	313
358	LM358M	313
358	LM358N	313
358	MAX358CWE+	340
358	LM358N	313
358	KA358A	312
358	LMV358ID	312
358	LMV358IPT	312
358	LMV358M	313
358	LM358AP	312
358	LM358D	312
358	LPV358IDE4	313
358	LM358PW	313
358	LPV358DE4	313
358	LM358AD	313
358	LMV358ID	313
3580	LT3580EMS8E#PBF	481
3580	LT3580EDD#PBF	481
3580	LT3580IDD#PBF	481
3580	LT3580IMS8E#PBF	481
3585	IL3585E	456
3590	LT3590EDC#PBF	443
3590	LM3590MF	443
3591	LT3591EDDB#TRMPBF	443
3593	LT3593EDC#TRMPBF	443
3593	LT3593ES6#TRMPBF	443
3595	LM3595LD	443
3598	LT3598IUF#PBF	443
3598	LT3598EUF#PBF	443
36	DS36C278TN	447
36	TMP36FSZ	522
36	DS36C279TM	447
36	TMP36GT9Z	522
36	DS36C278TM	447
36	TMP36GSZ	522
36	TMP36GRTZ-REEL7	522
36	DS28DG02G-3C+	116
36	DS36C280TM	447
36	DS36C200M	345
360	HCS360-I/SN	394
360	LM360M/NOPB	428
360	ADR360AUJZ-REEL7	538
361	LM361N	428
361	OPA361AIDCKTG4	328
361	ADCMP361YRJZ	428
361	ADR361AUJZ-REEL7	538
3610	UC3610N	481
3619	TPS3619-33DGKG4	257
362	LNK362PN	502
362	LNK362GN	502
3620	TPS3620-33DGKR	481
3625	UC3625Q	458
363	OPA363ID	305
363	LNK363PN	502
363	ADR363AUJZ-REEL7	539
363	LNK363GN	502
3636	CAT3636HV3-T2	443
3637	UC3637N	458
3637	UC3637DW	458
3637	UC3637DW.	458
3638	UC3638DWG4	458
3638	UC3638NG4	458
364	OPA364IDBVT	305
364	LNK364PN	502
364	ADR364AUJZ-REEL7	540
364	OPA364AIDBVTG4	305
364	LNK364GN	502
364	OPA364ID	305
3643	CAT3643HV3-T2	443
3644	CAT3644HV3- T2	443
3645	MAX3645EEE+	518
3646	MAX3646ETG+	443
3647	LM3647IM	481
365	ADR365AUJZ-REEL7	540
365	OPA365AIDBVTG4	305
365	MAX365CSE+	343
365	OPA365AIDG4	305
3656	MAX3656ETG+	443
3658	LM3658SD-B	481
3658	LM3658SD-A	481
3658	LM3658SD	481
366	AD7366BRUZ	282
366	ADR366AUJZ-REEL7	539
3668	LM3668SD-3.3	481
3668	MAX3668EHJ+	443
367	AD7367BRUZ	286
3670	LM3670MF-1.8	481
3670	LM3670MF-ADJ	481
3670	LM3670MF-3.3/NOPB	557
3671	LM3671MF-3.3/NOPB	557
3671	LM3671MF-ADJ	481
3671	LM3671MF-1.875	481
3671	LM3671MF-1.5	481
3671	LM3671MF-1.25	481
3674	LM3674MF-ADJ	481
3674	CY3674	411
3676	DS36276M/NOPB	451
3677	LM3677TL-2.5	482
3677	LM3677TL-1.8	482
3677	LM3677TL-1.3	481
3677	LM3677TL-1.5	482
368	LM3687TL-1812/NOPB	470
3680	LT3680IMSE#PBF	548
3680	LT3680EMSE#PBF	548
3680	LT3680EDD#PBF	548
3680	LT3680IDD#PBF	548
3680	DS3680N.	509
3684	LT3684IDD#PBF	482
3684	CY3684	414
3684	LT3684EMSE#PBF	482
3685	LT3685EMSE#PBF	482
3686	CY3686	414
3687	LM3687TL-1815/NOPB	482
3691	DS3691M	446
3692	OPA3692IDG4	318
3693	LT3693EMSE#PBF	482
3695	DS3695AM	347
3695	DS3695TN/NOPB	451
3695	DS3695N	347
36950	DS36950V/NOPB	451
3696	DS3696N	451
3696	DS3696N.	451
37	CY37064P44-125AXC	574
37	CY37064P44-125AXC	88
37	OPA37GP.	304
37	OPA37GU	304
37	CY37064P100-125AXC	88
37	OP37EPZ	304
37	OP37GSZ	304
37	CY37128P100-100AXC	88
37	OP37GPZ	304
370	FSQ0370RNA	503
3701	TLV3701IP	309
3701	TLV3701IDBVT	309
3701	LTC3701EGN#PBF	482
3701	TLV3701CDBVT	309
3702	TS3702IDT	430
3702	TS3702ID	430
3702	TLC3702CD	430
3702	TLC3702CP	430
3702	TLV3702IDGKG4	316
3702	TLC3702CDG4	430
3702	TLC3702IPE4	430
3703	LTC3703EGN#PBF	482
3703	LTC3703EG#PBF	482
370333	TRF370333IRGET	357
3704	LM3704YCMM-308	257
3704	LM3704YBMM-360	257
3704	LM3704YAMM-308	257
3704	TLC3704MDR	431
3704	LM3704XCMM-308/NOPB	257
3704	LTC3704EMS#PBF	482
3704	TLC3704ID	431
3704	TLC3704CN	431
3704	LM3704YCMM-232	257
3705	UC3705N	462
3705	TPS3705-50DG4	257
3705	UC3705NG4	462
3706	UC3706NG4	462
3707	TPS3707-33D	257
3707	LTC3707EGN#PBF	482
3707	UC3707NG4	462
3708	LTC3708EUH#PBF	482
3708	UC3708NG4	462
3709	UC3709NG4	462
3709	LTC3709EUH#PBF	482
3710	LM3710YQMM-232	257
3710	UC3710NG4	462
3710	UC3710TG3	462
3710	LT3710EFE#PBF	482
37102	MIC37102YM	545
3714	LTC3714EG#PBF	482
3714	UC3714D	462
3716	LTC3716EG#PBF	482
3717	TEA3717DP	458
3717	UC3717ANG4	458
3717	E-PBL3717A	458
3718	LTC3718EG#PBF	355
3718	E-TEA3718DP	458
3719	LTC3719EG#PBF	482
372	TS372CN.	430
372	TLC372CP	430
372	TS372CN	430
372	TS372CD	430
372	TLC372IDG4	430
3722	LM3722IM5-4.63	258
3722	LM3722IM5-3.08	258
3722	LM3722EM5-3.08	260
3722	LM3722IM5-2.32	257
3722	LM3722EM5-4.63	260
3722	LM3722EM5-2.32	260
3722	LTC3722EGN-2#PBF	482
3723	LM3723IM5-3.08	258
3723	LM3723IM5-2.32	258
3723	LTC3723EGN-1#PBF	482
3723	LM3723IM5-4.63.	258
3723	LM3723EM5-2.32	260
3723	LM3723IM5-2.32...	258
3723	LM3723EM5-3.08	260
3723	LM3723EM5-4.63	260
3724	LM3724EM5-4.63	260
3724	LM3724EM5-2.32	260
3724	LM3724EM5-3.08	260
3724	LM3724IM5-2.32	258
3724	LT3724EFE#PBF	482
3724	LM3724IM5-4.63	258
3724	LM3724IM5-3.08	258
3727	LTC3727EG#PBF	482
3728	LTC3728EG#PBF	482
3729	LTC3729EG#PBF	482
37300	MIC37300-3.3WR	558
37302	MIC37302WU	547
37302	MIC37302WR	547
3731	LTC3731HG#PBF	482
3731	LTC3731CG#PBF	482
3732	LTC3732CG#PBF	482
37321	UCC37321D	466
37321	UCC37321P	466
37322	UCC37322P	466
37322	UCC37322D	466
37323	UCC37323P	466
37324	UCC37324P	466
37324	UCC37324D	466
37325	UCC37325P	466
3734	LTC3734EUH#PBF	482
3735	MAX3735AETG+	443
3736	LTC3736EGN#PBF	482
3736	LTC3736EUF#PBF	482
3737	LTC3737EGN#PBF	482
3738	MAX3738ETG+	443
3738	LTC3738CUHF#PBF	482
374	TLC374CDG4	431
374	TLC374CNE4	431
374	TLC374IDG4	431
374	OPA374AIDBVTG4	305
3740	LT3740EDHC#PBF	482
3740	MAX3740AETG+	355
3742	LT3742EUF#PBF	482
3743	LM3743MM-1000	482
3743	LM3743MM-300	482
3747	MAX3747AEUB+	443
375	TNY375PN	501
3750	LT3750EMS#PBF	482
3755	LT3755EUD#PBF	443
3755	LT3755EMSE#PBF	443
3756	LT3756EMSE#PBF	443
376	OPA376AIDBVTG4	305
376	OPA376AID	305
376	TNY376PN	501
377	TNY377PN	501
3770	UC3770ANG4	458
3770	LTC3770EG#PBF	482
3773	LTC3773EG#PBF	482
3778	LTC3778EF#PBF	482
378	TNY378PN	501

Index by Type for Semiconductor ICs

	Mftrs. List No.	Page
3780	LTC3780EG#PBF	482
3780	LTC3780EUH#PBF	482
3780	LTC3780IG#PBF	482
3780	LTC3780IUH#PBF	482
3781	LT3781EG#PBF	482
3782	LT3782EFE#PBF	482
3783	LTC3783EFE#PBF	443
3783	LTC3783EDHD#PBF	443
3785	LTC3785EUF#PBF	482
379	OPA379AIDG4	305
379	TNY379PN	501
379	OPA379AIDBVT	305
38	UCC38C44DG4	469
38	UCC38C43DG4	469
38	UCC38C42DG4	469
380	LM380N-8	532
380	TNY380PN	501
380	OPA380AIDG4	305
380	LM380N	532
3800	UCC3800DG4	482
3800	IR3800MTR1PBF	548
3800	IR3800AMTR1PBF	548
3800	LT3800EFE#PBF	482
3800	UCC3800N	482
3801	IR3801MTR1PBF	548
3801	TPS3801K33DCKRG4	258
3801	UCC3801N	482
3802	IR3802MTR1PBF	548
3802	IR3802AMTR1PBF	548
3802	LTC3802EGN#PBF	482
3802	UCC3802N	482
3802	UCC3802DG4	482
3803	UCC3803N.	482
3803	LTC3803ES6#TRMPBF	482
3803	UCC3803N	482
3803	UCC3803DG4	482
3803	TPS3803-01DCKRG4	482
3804	UCC3804DG4	482
3804	UCC3804N	482
3804	UCC3804PW	482
3805	UCC3805DG4	482
3805	UCC3805N	482
3806	UCC3806N	482
3806	LTC3806EDE#PBF	482
3807	TPS3807A30DCKTG4	258
3808	UCC3808AD-1G4	482
3808	TPS3808G01DBVTG4	258
3808	TPS3808G01DBVT	258
3808	UCC3808N-2G4	482
3808	LTC3808EGN#PBF	482
3808	UCC3808D-1.	482
3808	UCC3808D-2	482
3808	UCC3808D-1	482
3808	UCC3808N-1	482
38084	UCC38084PW	490
3809	TPS3809K33DBVTG4	258
3809	UCC3809D-1	482
3809	TPS3809I50DBVTG4	258
3809	TPS3809I50QDBVRQ1	258
3809	TPS3809I50DBVT..	258
3809	TPS3809L30DBVT	258
3809	TPS3809K33DBVRG4	258
3809	TPS3809I50DBVRG4	258
3809	LTC3809EMSE-1#PBF	482
3809	LTC3809EDD-1#PBF	482
3809	LTC3809EMSE#PBF	482
3809	TPS3809I50DBVT	258
3809	TPS3809K33DBVT	258
3810	IR3810MTR1PBF	548
3811	IR3811MTR1PBF	548
3812	LM3812M-7.0/NOPB	482
3812	IR3812MTR1PBF	548
3813	TPS3813L30DBVT	258
3813	UCC3813PW-3	482
3813	TPS3813K33DBVT	258
3813	TPS3813I50DBVT	258
3813	UCC3813D-3	482
3813	LTC3813EG#PBF	483
3813	UCC3813D-3.	483
3815	MAX3815CCM+D	534
3817	UCC3817D	483
3818	FMS3818KRC	534
3818	UCC3818N	483
3818	UCC3818D	483
382	UC382TDTR-ADJ	547
3820	IR3820MTR1PBF	548
3820	IR3820AMTR1PBF	548
3820	TPS3820-33DBVT	258
3820	TPS3820-50DBVT	258
3821	IR3821MTR1PBF	548
3821	IR3821AMTR1PBF	548
3822	IR3822MTR1PBF	548
3822	LM3822MM-2.0	483
3822	IR3822AMTR1PBF	548
3823	UC3823ANG4	483
3823	UC3823NG4	483
3823	TPS3823-33DBVTG4	258
3823	TPS3823-50DBVTG4	258
3824	LM3824MM-2.0	483
3824	TPS3824-33DBVRG4	258
3824	TPS3824-50DBVTG4	258
3824	TPS3824-33DBVTG4	258
3825	LT3825EFE#PBF	483
3825	UC3825N	483

	Mftrs. List No.	Page
3825	UC3825DWG4	483
3825	TPS3825-50DBVT	258
3825	UC3825AN	483
3828	TPS3828-50DBVT	258
3828	TPS3828-33DBVT	258
383	UCC383TDKTTT-3	558
383	UCC383T-ADJ	547
383	UCC383TDKTTT-ADJ	547
38300	MIC38300HYHL TR	547
3832	LTC3832EGN#PBF	483
3835	LTC3835IGN-1#PBF	483
3836	TPS3836K33DBVT	258
3836	TPS3836J25DBVT	258
3836	TPS3836E18DBVT	258
3836	TPS3836L30DBVT	258
3836	TPS3836H30DBVT	258
3837	TPS3837K33DBVT	258
3838	TPS3838J25DBVT	258
3838	TPS3838E18DBVT	258
3838	TPS3838K33DBVT	258
3838	TPS3838L30DBVT	258
384	UCC384DP-ADJG4	545
384	LM384N	532
3842	E-UC3842BN	483
3842	UC3842AD8	483
3842	UC3842N	483
3842	TL3842P	483
3842	UC3842NG4	483
3842	UC3842AN	483
3842	UC3842AD	483
3842	KA3842B	483
3842	UC3842AD8	483
3843	E-UC3843BN	483
3843	UC3843ADG4	483
3843	UC3843AN	483
3843	TL3843D-8	483
3843	UC3843DG4	483
3843	UC3843N	483
3843	TL3843P	483
3843	UC3843D8	483
3843	UC3843AD8	483
3843	KA3843B	483
3844	TL3844D-8	483
3844	UC3844AN	483
3844	UC3844AD	483
3844	UC3844BD1G	483
3844	UC3844NG4	483
3844	TL3844P	483
3844	UC3844AD8	483
3844	UC3844BDG	483
3845	UC3845DG4	483
3845	UC3845NG4	483
3845	UC3845ADG4	483
3845	TL3845P	483
3845	UC3845D8	483
3845	UC3845AD8	483
3845	UC3845AN	483
3845	LT3845EFE#PBF	483
3845	UC3845D8G4	483
3845	E-UC3845BN	483
3846	UC3846N	483
3846	UC3846DW	483
385	LM385BM-2.5/NOPB	538
385	LM385BXZ-2.5/NOPB	538
385	LM385BYZ-1.2/NOPB	537
385	LM385BZ-1.2G	537
385	LM385BZ-2.5/NOPB	538
385	LM385M-2.5/NOPB	538
385	SP385ECT-L	454
385	SP385EEA-L	454
385	LM385M3-1.2	537
385	LM385BZ-1.2/NOPB	537
385	LM385M3-2.5	538
385	LM385BYZ/NOPB	541
385	LM385D-2.5G	538
385	LM385BXZ	541
385	LM385Z-1.2G	537
385	LM385Z	542
385	LM385BD-2-5	538
385	LM385BD-1-2	537
385	LM385Z-1.2	537
385	LM385M-1.2	537
385	LM385Z-2.5	538
385	LM385Z-2.5G	538
385	LM385M	542
385	LM385LP-1-2	537
385	SP385ECA-L	454
38500	LP38500SD-ADJ/NOPB	546
38500	LP38500TS-ADJ/NOPB	546
38502	LP38502SD-ADJ/NOPB	546
3851	LTC3851IGN#PBF	483
3851	LTC3851EGN#PBF	543
3851	LTC3851EUD#PBF	483
3851	LP38513S-1.8	553
3852	LP3852EMPX-1.8	552
3852	LP3852EMP-1.8	552
3852	LP3852ES-2.5	554
3852	LP3852ES-3.3	558
3852	LP3852ET-2.5	554
3852	LP3852ET-3.3	558
3852	LP3852ET-5.0	561
3852	UC3852NG4	483
3852	LP3852EMP-3.3/NOPB	558

	Mftrs. List No.	Page
3852	LP3852EMP-2.5/NOPB	554
3853	UC3853N	483
3853	LP3853ES-2.5	554
3853	UC3853DG4	483
3853	LP3853ET-1.8	552
3853	LP3853ES-5.0/NOPB	561
3853	LP3853ES-3.3/NOPB	558
3853	LP3853ES-1.8	552
3853	LP3853ET-3.3	558
3854	UC3854ADWG4	483
3854	UC3854BDWG4	483
3854	UC3854DWG4	483
3854	UC3854N	483
3854	UC3854AN	483
3854	UC3854BN	483
3855	UC3855BN	483
3855	LP3855EMP-2.5/NOPB	554
3855	LP3855EMP-3.3	558
3855	LP3855ES-ADJ/NOPB	546
3855	LP3855EMP-ADJ	547
3855	UC3855ANG4	483
3855	UC3855BDWG4	483
3855	LP3855EMP-5.0	561
3855	LP3855ES-1.8	552
3855	LP3855ET-2.5	554
3855	LP3855ES-3.3	558
3855	LP3855ET-1.8	552
3856	UC3856NG4	483
3856	LP3856ET-1.8	552
3856	LP3856ES-ADJ	547
3856	LP3856ES-5.0	562
3856	LP3856ES-3.3	558
3856	LP3856ES-2.5/NOPB	554
3856	LP3856ES-1.8	552
3856	LP3856ET-2.5	554
3856	LP3856ET-5.0	562
386	LM386M-1/NOPB	532
386	LM386N-4	532
386	LM386N-3	532
386	MSA-0386-BLKG	354
386	LM386N-1	532
386	LM386M-1	532
3862	LTC3862EFE-1#PBF	483
3862	LTC3862HGN#PBF	483
3862	LTC3862HUH#PBF	483
3862	LTC3862EGN#PBF	483
3862	LTC3862EFE#PBF	483
3862	LTC3862IUH#PBF	483
3862	LTC3862IGN#PBF	483
3869	MAX3869EHJ+	443
38690	LP38690SD-ADJ	546
38690	LP38690DT-2.5	554
38690	LP38690DT-5.0	561
38690	LP38690SD-2.5/NOPB	554
38690	LP38690DT-2.5/NOPB	554
38690	LP38690DT-3.3	558
38690	LP38690SD-3.3/NOPB	557
38690	LP38690SD-5.0/NOPB	561
38691	LP38691SD-5.0/NOPB	560
38691	LP38691DT-2.5	553
38691	LP38691DT-5.0	561
38691	LP38691DT-1.8	552
38691	LP38691SD-ADJ	545
38691	LP38691SD-3.3/NOPB	557
38691	LP38691DT-3.3/NOPB	557
38692	LP38692SD-ADJ/NOPB	545
38692	LP38692MP-5.0	561
38692	LP38692MP-1.8	552
38692	LP38692MP-2.5	554
38692	LP38692MP-ADJ	546
38692	LP38692MP-3.3	558
38693	LP38693SD-3.3/NOPB	557
38693	LP38693SD-ADJ/NOPB	545
38693	LP38693MP-ADJ/NOPB	545
38693	LP38693MP-5.0	561
38693	LP38693MP-3.3	557
38693	LP38693MP-2.5	553
38693	LP38693MP-1.8	552
3871	LP3871EMP-2.5	554
3871	LP3871EMP-3.3	557
3871	LP3871ES-3.3	557
3871	LP3871ET-5.0	561
3872	LP3872EMP-2.5	554
3872	LP3872ET-1.8	552
3872	LP3872EMP-3.3	558
3872	LP3872EMPX-2.5	554
3872	LP3872ES-3.3	558
3873	LP3873ET-5.0	562
3873	LP3873ET-3.3	558
3873	LP3873ES-2.5/NOPB	554
3873	LP3873ES-1.8	552
3873	LP3873ES-3.3	558
3873	LP3873ET-2.5	554
3873	LP3873ES-5.0	562
3874	LP3874ET-5.0	561
3874	LP3874ET-1.8	552
3874	LP3874EMP-5.0	561
3874	LP3874EMP-3.3	557
3874	LP3874ES-ADJ	545
3874	LP3874EMP-ADJ/NOPB	545
3874	LP3874EMP-2.5/NOPB	553
3875	LP3875EMP-ADJ	547
3875	LP3875EMP-2.5	554
3875	LP3875ET-1.8	552

	Mftrs. List No.	Page
3875	LP3875ET-2.5	554
3875	LP3875ET-3.3	558
3875	UC3875NG4	483
3875	LP3875ES-ADJ	547
3875	LP3875ET-ADJ	547
3875	LP3875EMP-3.3/NOPB	558
3875	LP3875ES-2.5/NOPB	554
3875	LP3875ES-3.3/NOPB	558
3875	UC3875DWPG4	458
3876	LP3876ES-ADJ	547
3876	LM3876T.	534
3876	LP3876ET-ADJ	547
3876	LP3876ES-3.3	558
3876	LP3876ET-3.3	558
3876	LP3876ES-2.5/NOPB	554
3876	LP3876ET-5.0	562
3876	LM3876T	534
3878	LP3878SD-ADJ/NOPB	545
3878	LP3878MR-ADJ	545
3879	UC3879DWG4	458
3879	LP3879MR-1.0	550
3879	LP3879MR-1.2	550
3880	LM3880MF-1AB.	483
3880	LM3880MF-1AB	483
3880	LM3880MF-1AA	483
3881	LP3881ET-1.8	552
3881	LP3881EMR-1.5	551
3881	LP3881EMR-1.8	552
3881	LP3881ET-1.5	551
3881	LP3881EMR-1.2	551
3881	LP3881ET-1.2	551
3881	LP3881ES-1.5	551
3881	LP3881ES-1.2	551
3881	LM3881MM	483
3882	LP38851T-ADJ	483
3882	LP3882EMR-1.5	551
3882	LP3882EMR-1.8	552
3882	LP3882ES-1.2	551
3883	LP3883ES-1.2	551
3883	LP3883ES-1.5	551
3883	LP3883ES-1.8	552
38841	LP38841MR-ADJ	545
38841	LP38841S-0.8	550
38841	LP38841S-1.2	551
38841	LP38841T-0.8	550
38841	LP38841T-1.2	551
38841	LP38841T-1.5	551
38842	LP38842T-1.2	551
38842	LP38842T-0.8	550
38842	LP38842S-1.5	551
38842	LP38842S-1.2	551
38842	LP38842MR-ADJ	546
38843	LP38843T-1.5	551
38843	LP38843T-1.2	551
38843	LP38843T-0.8	550
38843	LP38843S-1.2	551
38853	LP38853S-ADJ	547
38853	LP38853MR-ADJ	547
38853	LP38853T-ADJ	547
38855	LP38855S-1.2	551
38855	LP38855S-0.8	550
38856	LP38856S-0.8	550
38856	LP38856S-1.2	551
38856	LP38856T-0.8	550
38856	LP38856T-1.2	551
38858	LP38858S-0.8	550
38858	LP38858S-1.2	551
38859	LP38859S-0.8	550
38859	LP38859T-1.2	551
38859	LP38859S-1.2	551
38859	LP38859T-0.8	550
3886	LM3886T	534
3886	LM3886TF	534
3886	LM3886TF	571
3889	UCC3889N	483
3889	UCC3889N.	483
3891	LP3891ES-1.5	551
3891	LP3891ES-1.8	552
3891	LP3891ET-1.2	551
3891	LP3891ET-1.5	551
3891	LP3891ES-1.2	551
3891	LP3891EMR-1.8	552
3891	LP3891EMR-1.5	551
3891	LP3891ET-1.8	552
3891	LP3891EMR-1.2	551
3892	LP3892ET-1.8	552
3892	LP3892ET-1.5	551
3892	LP3892ET-1.2	551
3892	LP3892ES-1.8	552
3892	LP3892ES-1.2	551
3892	LP3892EMR-1.8	552
3892	LP3892EMR-1.5	551
3892	LP3892EMR-1.2	551
3893	LP3893ET-1.8	553
3893	LP3893ET-1.5	551
3893	LP3893ET-1.2	551
3893	LP3893ES-1.8	552
3893	LP3893ES-1.5	551
3893	LP3893ES-1.2	551
3895	UCC3895N	484
3895	UCC3895DW	484
390	AD1582ARTZ-REEL7	538
3900	LM3900N..	321
3900	LM3900D	321

Index by Type for Semiconductor ICs

	Mftrs. List No.	Page
39002	UCC39002PE4	490
3901	LTC3901EGN#PBF	484
3902	UC3902N	484
3902	UC3902DG4	484
3903	UC3903N	484
3905	LP3905SD-00.	484
3905	MCP3905A-I/SS	516
3906	UC3906N	484
3906	MCP3906A-I/SS	516
3907	UC3907NG4	484
3909	MCP3909-I/SS	516
3909	UC3909N	484
391	ADR391BUJZ-R2	553
39100	MIC39100-3.3WS	557
39101	MIC39101-2.5YM	554
39102	MIC39102YM	566
3911	UCC3911DP-1	484
3911	UCC3911DP-4	484
3914	LM3914N-1	571
3916	LM3916N-1	443
392	LM392P	305
392	LM392M	305
392	LM392N	305
392	MAX392CSE+	343
392	LM392M.	305
393	LM393NG	430
393	TLC393CDG4	430
393	LMV393IPW	430
393	TLC393IDG4	430
393	LM393N	430
393	TLC393CP	430
393	TLC393IPE4	430
393	LM393P	430
393	LM393N	430
393	LM393D	430
393	TS393CD	430
393	LM393M	430
393	LMV393ID	430
393	LM393AD	430
393	LM393PWG4	430
393	LM393DG.	430
393	LMV393M.	430
3930	A3930KJP-T	458
39300	MIC39300-2.5WU	554
3931	A3931KJP-T	458
3931	LP3931ISQ	439
3936	A3936SED-T	458
3936	LP3936SL	439
394	LM394CH	528
394	MAX394CWP+	343
394	LM394H	528
3940	LM3940IMP-3.3	484
3940	LM3940IT-3.3	484
3943	LP3943ISQ	439
3944	LP3944ISQ	439
3947	LP3947ISD-09	484
3947	LP3947ISD-51	484
395	LM395T	528
395	LP395Z/NOPB	460
395	LP395Z	528
3950	A3950SLP-T	458
3950	LP3950SL	439
3952	UCC3952DP-1	484
3953	A3953SB-T	458
3953	A3953SLB-T	458
3955	A3955SB-T	458
3955	A3955SLB-T	458
3957	UCC3957M-3	484
3959	A3959SB-T	458
396	MAX396CAI+	340
396	MAX396CWI+	340
3961	LP3961EMP-1.8	552
3961	LP3961EMP-5.0/NOPB	561
3961	LP3961ET-1.8.	552
3961	LP3961EMP-2.5	554
3961	LP3961EMP-3.3	557
3961	LP3961ET-3.3.	557
3961	LP3961ET-3.3	557
3961	LP3961ET-1.8	552
3961	LP3961ES-3.3	557
3961	LP3961ES-2.5	554
3961	LP3961ES-1.8	552
3962	LP3962EMP-1.8	552
3962	LP3962EMP-3.3/NOPB	558
3962	LP3962EMP-1.8.	552
3964	LP3964ES-2.5	554
3964	LP3964ES-3.3	557
3964	LP3964EMP-1.8	552
3964	LP3964EMP-3.3	557
3964	LP3964ET-2.5.	554
3964	LP3964EMP-ADJ	484
3964	LP3964ET-2.5	554
3964	LP3964ET-3.3.	557
3964	LP3964ES-1.8	552
3964	LP3964ET-3.3	557
3964	LP3964EMP-2.5	554
3964	LP3964ES-ADJ	545
3966	A3966SLB-T	458
3967	A3967SLB-T	458
397	LM397MF	428
3970	LP3970SQ-45	484
3970	LP3970SQ-44	484
3970	LP3970SQ-35	484
3970	LP3970SQ-31	484

	Mftrs. List No.	Page
3971	LP3971SQ-F211	484
3971	LP3971SQ-D510	484
3971	LP3971SQ-B410	484
3971	LP3971SQ-W416	484
3972	LT3972EDD#PBF	484
3977	A3977SED-T	458
3977	A3977SLP-T	458
3979	A3979SLP-T	458
398	LF398H	337
398	LF398N	337
398	LF398AN	337
3980	A3980KLP-T	458
3981	LP3981IMM-3.3/NOPB	557
3981	LP3981IMM-2.5/NOPB	553
3981	LP3981ILD-3.3/NOPB	557
3981	LP3981ILD-2.5/NOPB	553
3982	LP3982ILD-ADJ/NOPB	544
3982	LP3982IMM-2.5.	553
3982	LP3982IMM-2.5	553
3982	A3982SLB-T	458
3982	LP3982IMM-3.0	555
3982	LP3982IMM-3.3	557
3982	LP3982IMM-3.0.	555
3982	LP3982IMM -1.8	552
3982	LP3982IMM - ADJ	544
3982	LP3982ILD-3.3/NOPB	557
3983	A3983SLP-T	458
3983	LP3983ITL-1.8	551
3983	LP3983ITL-2.5	553
3984	A3984SLP-T	458
3984	LP3984IMF-3.1/NOPB	555
3985	LD3985M25R	553
3985	LD3985M18R	551
3985	LP3985ITL-2.7	554
3985	LP3985IM5-2.8/NOPB	554
3986	LP3986TL-2626	554
3986	LP3986TL-2525	553
3988	LP3988IMF-3.3/NOPB	556
3988	LP3988IMF-2.5/NOPB	553
3988	LP3988IMF-3.0/NOPB	555
3988	LP3988ITL-1.85	553
3990	LP3990TL-1.8	552
3990	LP3990MF-3.3/NOPB	556
3990	LP3990TL-2.8	554
3990	LP3990MF-1.2	551
3990	LP3990TL-1.5	551
3990	LP3990TL-1.35	551
3990	LP3990MF-2.8	555
3990	LP3990MF-2.5	553
3990	LP3990TL-0.8	550
3990	LP3990MF-1.5	551
3990	LP3990MF-1.8	551
3990	LP3990TL-1.2	551
3991	LP3991TL-2.8	555
3991	LP3991TL-1.2	550
3991	LP3991TL-1.5	551
3992	LP3992IMF-1.5	551
3995	A3995SEV-T	459
3995	LP3995ILD-1.5	551
3995	LP3995ILD-1.8	552
3995	LP3995ITL-2.85	555
3995	LP3995ILD-2.8.	554
3995	LP3995ITL-1.8	552
3995	LP3995ITL-2.1	553
3995	LP3995ITL-3.0	555
3995	LP3995ILD-2.8	554
3996	LP3996SD-3308	565
3996	LP3996SD-3033	565
3996	LP3996SD-3030	565
3996	LP3996SD-3333	565
3996	LP3996SD-2828	565
3996	LP3996SD-0833	565
3997	LP3997MM-3.3/NOPB	556
3999	LP3999ITL-1.8	552
3999	LP3999ITL-2.4	553
3999	LP3999ITL-2.8	554
4	M4A5-192/96-10VNC	102
4	MAT04FPZ	528
4	TMP04FT9Z	521
4	M4A3-128/64-10VNC	102
4	SMP04EPZ	337
4	SMP04ESZ	337
4	TMP04FSZ	521
4	AMP04EPZ	335
4	M4T32-BR12SH6	106
4	NB4N441MNG	353
4	NB4L6254FAG	349
4	M4-128N/64-15JC	102
4	MCP4XXXDM-DB	432
4	M4A5-128/64-10YC	102
4	ASI4UC-G1-ST	455
4	TLC04ID	438
4	XC4VFX20-10FFG672C	98
4	XC4VFX12-10FFG668C	98
4	TPD4E001DRSR	517
4	M4T28-BR12SH1	106
4	M4A5-256/128-10YC	102
4	EPCS4SI8N	95
4	M4A5-32/32-10VNC	102
4	M4A5-64/32-10JNC	102
4	M4A5-64/32-10VNC	102
4	M4A5-128/64-10VNC	102
40	FSUSB40L10X	410
40	LMH0040SQE	345

	Mftrs. List No.	Page
40	LM40CIMT	522
400	TMP400AIDBQT	523
400	OP400GSZ	319
400	OP400GPZ	319
400	OP400GPZ	571
400	OP400FY	319
400	ZXSC400E6	442
400	OP400HPZ	319
400	ZRC400F01TA	540
400	OP400HSZ	319
400	ZXSC400E6TA	442
400	ZRC400A02	540
4000	ADA4000-2ARZ	326
4000	ADA4000-1ARZ	325
4000	ADA4000-4ARZ	327
40000	TPS40000DGQ	490
40002	TPS40002DGQG4	490
40007	TPS40007DGQ	490
40007	TPS40007DGQG4	490
40009	TPS40009DGQ	490
40009	TPS40009DGQG4	490
4001	HEF4001BT	82
4001	THS4001ID	309
4001	LTC4001EUF-1#PBF.	484
4001	CD4001BM	82
4001	LTC4001EUF#PBF	484
4001	CD4001BCM	82
4001	HEF4001BP	82
4001	THS4001CD	309
4001	CD4001BE	82
4002	HEF4002BP	82
4002	LTC4002ES8-8.4#PBF	484
4002	LTC4002EDD-4.2#PBF	484
4002	LTC4002EDD-8.4#PBF	484
4002	ADF4002BCPZ	355
4002	ADF4002BRUZ	355
4002	HEF4002BT	82
4004	TPS40040DRBT	484
40051	TPS40051PWP	490
40054	TPS40054PWPG4	490
40055	TPS40055PWPG4	490
40057	TPS40057PWPG4	490
4006	LTC4006EGN-2#PBF	484
4006	MPXV4006DP	511
40060	TPS40060PWPG4	490
4007	LTC4007EUFD-1#PBF	484
4007	HCF4007UBEY	82
4007	CD4007UBE	82
4007	LTC4007EGN#PBF	484
40071	TPS40071PWPG4	490
40075	TPS40075RHLT	490
40077	TPS40077PWP	490
4008	LTC4008EGN#PBF	484
4009	LTC4009CUF#PBF	484
401	NRF401G	390
401	DRV401AIDWPG4	457
401	CMP401GSZ	431
401	DRV401AIRGWTG4	457
4010	HCF4010M013TR	83
4010	LTC4010CFE#PBF	484
40100	TPS40100RGET	490
40103	HCF40103BEY	86
40106	HEF40106BP	86
40106	CD40106BM	86
40106	CD40106BCM	86
40106	CD40106BCN	86
40106	CD40106BE	86
40106	HCF40106BEY	86
40106	HEF40106BT	86
40107	HCF40107BEY	86
40107	CD40107BE	83
4011	HEF4011UBP	83
4011	CD4011BCM	83
4011	HEF4011BT	83
4011	CD4011BE	83
4011	HEF4011BP	83
4011	LTC4011CFE#PBF	484
4011	MCP4011-103E/SN	436
4011	MCP4011-503E/SN	436
4011	MCP4011-502E/SN	436
4011	NUD4011DR2G	440
4011	LMK04011BISQE	349
4011	THS4011CD	309
4012	THS4012ID	316
4012	THS4012CD	316
4012	CD4012BE	83
40120	TPS40120PW	490
4013	HCF4013BM1	83
4013	HEF4013BT	83
4013	CD4013BM	83
4013	CD4013BE	83
4013	CD4013BCN	83
4013	CD4013BCM	83
4013	HEF4013BP	83
40131	TPS40131RHBT	490
40131	TPS40131RHBTG4	490
40132	TPS40132RHBT	490
40140	TPS40140RHHT	490
40147	CD40147BE	86
4015	CD4015BE	83
4015	HEF4015BP	83
4015	HCF4015BEY	83
4015	TLK4015IZPV	355
4016	CD4016BCM	83

	Mftrs. List No.	Page
4016	CAT4016W-T1	443
4016	CAT4016Y-T2	443
4016	MAX4016ESA+	316
4016	CD4016BE	83
4016	HEF4016BP	83
4016	CD4016BCN	83
4017	HEF4017BT	83
4017	HEF4017BP	83
4017	HCF4017M013TR	83
4017	CD4017BE	83
40174	CD40174BE	86
4018	MAX4018ESD+	318
40180	TPS40180RGETG4	490
40190	TPS40190DRCT	490
40192	TPS40192DRCTG4	490
40193	TPS40193DRCT	490
40195	TPS40195PW	490
402	MCP402XEV	432
4020	CD4020BE	83
4020	HEF4020BP	83
4020	HIP4020IBZ	458
4020	MAX4020ESD+	323
4020	HCF4020BEY	83
40200	TPS40200EVM-001	504
40200	TPS40200DG4	490
4021	THS4021ID	309
4021	CD4021BCN	83
4021	HEF4021BP	83
4021	CD4021BCM	83
4021	MCP4021-502E/SN	436
4021	HCF4021BEY	83
4021	MCP4021-103E/SN	436
4022	THS4022ID	316
40222	TPS40222DRPT	490
40222	TPS40222DRPTG4	490
4023	HEF4023BP	83
4024	HEF4024BP	83
40244	HEF40244BP	86
4025	HEF4025BP	83
40257	CD40257BE	84
4027	CD4027BE	83
4027	HEF4027BT	83
4027	HCF4027BEY	83
4027	HEF4027BP	83
4028	HEF4028BP	83
4028	HCF4028BEY	83
403	DG403CY+	342
403	NRF403G	390
403	DG403DYZ	342
403	DG403DJ-E3	342
4030	LM4030AMF-4.096	540
4030	LM4030BMF-4.096	540
4030	LM4030CMF-4.096	540
4030	LM4030CMF-2.5/NOPB	538
4030	HEF4030BP	83
4030	HEF4030BT	83
4030	LM4030BMF-2.5/NOPB	538
4031	THS4031IDGN	309
4031	LMK04031BISQE	349
4031	THS4031ID	309
4031	THS4031CD	309
4032	LC4032ZC-75TN48C	102
4032	THS4032CD	316
4032	THS4032ID	316
4032	LC4032V-75TN48C	102
4032	LC4032V-75TN44C	102
4032	LC4032V-75TN44C	574
4033	LMK04033BISQE	349
4038	MAX4038EUA+	316
4039	MAX4039EUB+	316
404	OPA404BG	319
404	OPA404AG	319
404	OPA404KU	319
404	OPA404KPG4	327
4040	HEF4040BP	83
4040	LM4040DIZ-4.1	540
4040	LM4040DIZ-10.0	541
4040	LM4040EIM3-2.5/NOPB	538
4040	LM4040DIZ-5.0	541
4040	LM4040AIM3-5.0	541
4040	LM4040DIZ-2.5	539
4040	LM4040AIM3-2.5	539
4040	LM4040D50FTA	541
4040	LM4040BIM7-2.0	538
4040	LM4040CIZ-10.0/NOPB	541
4040	LM4040BIM7-2.5	539
4040	LM4040CIM7-2.5/NOPB	538
4040	LM4040DIM3-5.0	541
4040	CD4040BE	83
4040	LM4040CIZ-5.0/NOPB	541
4040	LM4040DIM3-2.5	539
4040	LM4040CIM3-10.0/NOPB	541
4040	LM4040DEM3-5.0/NOPB	540
4040	LM4040CIZ-2.5/NOPB	538
4040	HEF4040BT	83
4040	LM4040CIM3-8.2/NOPB	541
4040	LM4040D25FTA	541
4040	LM4040D30IDBZTG4	539
4040	LM4040C50FTA	541
4040	LM4040BIZ-4.1/NOPB	540
4040	LM4040BIZ-10.0/NOPB	541
4040	LM4040AIZ-10.0/NOPB	541
4040	LM4040DEM3-2.5/NOPB	538
4040	LM4040C25FTA	541

Index by Type for Semiconductor ICs

	Mftrs. List No.	Page
4040	LM4040EIM3-2.0	538
4040	LM4040AIM3-8.2/NOPB	541
40401	ZR40401F2.5TA	539
40401	ZR40401F41TA	540
40401	ZR40401R5	541
4041	LM4041AIZ-1.2/NOPB	537
4041	LM4041DFTA	541
4041	LM4041CIM7-1.2/NOPB	537
4041	LM4041CEM3-ADJ/NOPB	541
4041	LM4041EIM3-1.2/NOPB	537
4041	ZXRE4041CFTA	537
4041	LM4041CIM7-ADJ/NOPB	541
4041	LM4041EEM3-1.2/NOPB	537
4041	LM4041DEM3-1.2/NOPB	537
4041	LM4041CEM3-1.2/NOPB	537
4041	LM4041CIZ-1.2/NOPB	537
4041	LM4041DIM3-1.2	537
4041	LM4041DIZ-ADJ	541
4041	LM4041DIZ-1.2	537
4041	LM4041CIZ-ADJ/NOPB	541
4041	ZXRE4041DFTA	537
4041	LM4041DIM3-ADJ/NOPB	541
4041	LM4041CFTA	541
4042	THS4042CD	316
4042	HCF4042BEY	83
4042	MAX4042EUA+	316
4043	HEF4043BP	83
4043	CD4043BE	83
4044	HEF4044BP	83
4045	RX-4045SAAA	253
4046	HEF4046BP	83
4046	CD4046BE	83
4046	HEF4046BT	83
4047	CD4047BE	83
4047	HEF4047BT	83
4047	CD4047BCN	83
4047	HEF4047BP	83
4049	CD4049UBE	83
4049	CD4049UBCM	83
4049	HEF4049BP	83
4049	CD4049UBCN	83
4049	HEF4049BT	83
405	MICRF405DEV1-433	402
405	MICRF405YML	354
4050	HCF4050BEY	84
4050	LTC4050EMS-4.1#PBF	484
4050	CD4050BE	84
4050	LM4050BIM3-2.5/NOPB	539
4050	CD4050BCMX	84
4050	HEF4050BP	84
4050	LM4050AEM3-2.5/NOPB	538
4050	LM4050AEM3-5.0/NOPB	540
4050	LM4050AIM3-10/NOPB	541
4050	LM4050CIM3-4.1/NOPB	540
4050	HEF4050BT	84
4050	CD4050BCN	84
4050	PTN04050CAZ	507
4050	PTN04050CAD	507
4050	PTN04050AAZ	507
4050	PTN04050AAD	507
4051	LM4051CIM3-ADJ	542
4051	LM4051AIM3-ADJ	542
4051	LM4051AIM3-1.2	537
4051	LM4051BEM3-1.2/NOPB	537
4051	CD4051BE	84
4051	LM4051BIM3-1.2	537
4051	LM4051BIM3-ADJ	542
4051	LM4051CIM3-1.2	537
4051	MAX4051AESE+	339
4051	CD4051BM	84
4051	HEF4051BP	84
4051	HEF4051BT	84
4051	CD4051BCM	84
4051	HCF4051BEY	84
4051	MAX4051AEEE+	340
4051	MAX4051ACSE+	340
4051	MAX4051CSE+	340
4051	CD4051BCN	84
4052	CD4052BE	84
4052	HEF4052BT	84
4052	HCF4052BEY	84
4052	HEF4052BP	84
4052	LTC4052EMS8E-4.2#PBF	484
4052	MAX4052ACEE+	339
4052	CD4052BCN	84
4052	MAX4052ACSE+	340
4052	MAX4052EEE+	340
4052	CD4052BCM	84
4053	HEF4053BP	84
4053	CD4053BCN	84
4053	LTC4053EDD-4.2#PBF	484
4053	CD4053BE	84
4053	CD4053BCM	84
4053	CD4053BM	84
4053	MAX4053ACSE+	339
4053	HEF4053BT	84
4053	LTC4053EMSE-4.2#PBF	484
4058	LTC4058EDD-4.2#PBF	484
4058	LTC4058XEDD-4.2#PBF	484
4059	HEF4059BP	84
406	MAX406BCSA+	306
406	ATMEGA406-1AAU	138
406	MAX406ACPA+	328
406	ADG406BNZ	340
406	DG406DYZ	340
406	DG406DJ	341
406	DG406DJZ	340
4060	CD4060BCM	84
4060	LTC4060EFE#PBF	484
4060	HEF4060BT	84
4060	HCF4060M013TR	84
4060	HCF4060BEY	84
4060	HEF4060BP	84
4060	CD4060BE	84
4060	CD4060BCN	84
4061	LTC4061EDD#PBF	484
4061	LTC4061EDD-4.4#PBF	484
4062	THS4062ID	316
4062	LTC4062EDD#PBF	484
4062	THS4062CD	316
4063	LTC4063EDD#PBF	484
4064	LC4064V-75TN44C	574
4064	LC4064V-75TN44C	102
4064	LC4064ZC-75TN100C	102
4064	LC4064ZC-75TN48C	102
4064	LC4064V-75TN48C	102
4064	LTC4064EMSE#PBF	484
4065	LTC4065EDC-4.4#TRMPBF	484
4065	LTC4065LEDC#TRM	484
4065	LTC4065EDC#TRMPBF	484
4066	CD4066BCN	84
4066	CD4066BCM	84
4066	CD4066BE	84
4066	HEF4066BP	84
4066	HEF4066BT	84
4067	HEF4067BP	84
4068	HEF4068BP	84
4068	LTC4068EDD-4.2#PBF	484
4069	CD4069UBCN	84
4069	HEF4069UBT	84
4069	HCF4069UBEY	84
4069	CD4069UBE	84
4069	LTC4069EDC-4.4#TRM	484
4069	HEF4069UBP	84
407	DG407DJ	340
407	ADG407BPZ	340
407	ADG407BNZ	340
407	MAX407CSA+	313
407	DG407DYZ	340
4070	HEF4070BP	84
4070	HEF4070BT	84
4070	CD4070BM	84
4070	PTH04070WAZT	507
4070	CD4070BE	84
4071	HEF4071BT	84
4071	HEF4071BP	84
4071	CD4071BE	84
4072	HEF4072BP	84
4072	HCF4072BEY	84
4073	HEF4073BP	84
4073	CD4073BE	84
4075	LTC4075HVXEDD#PBF.	484
4075	LTC4075EDD#PBF	484
4075	HCF4075BEY	84
4075	HEF4075BP	84
4076	LTC4076EDD#PBF	484
4077	HCF4077BEY	84
4077	LTC4077EDD#PBF	484
4077	CD4077BM	84
4077	HEF4077BP	84
4078	LTC4078EDD#PBF	484
408	DG408DJZ	340
408	ADG408BRZ	344
408	ADG408BRUZ	344
408	DG408DY	340
408	DG408LDY-E3	340
408	DG408DJ-E3	340
408	ADG408BNZ	340
408	DG408DYZ	340
4080	HIP4080AIPZ	462
4080	HIP4080AIBZ	462
4080	MAX4080TASA+	332
4081	HIP4081AIPZ	462
4081	HIP4081AIPZ	570
4081	HEF4081BT	85
4081	HEF4081BP	85
4081	CD4081BM	85
4081	THS4081ID	309
4081	HIP4081AIBZ	462
4081	CD4081BE	85
4082	HEF4082BP	85
4082	HIP4082IPZ	462
4082	THS4082CDG4	316
4082	HIP4082IBZ	462
4083	HIP4083ABZ	462
4086	HIP4086APZ	458
4086	HIP4086ABZ	462
409	ADG409BNZ	339
409	DG409LDY-E3	339
409	DG409DY-E3	339
409	ADG409BRZ	339
409	DG409DJZ	339
409	DG409DYZ	339
4090	LTC4090EDJC#PBF	484
4093	HEF4093BP	85
4093	CD4093BE	85
4093	CD4093BCN	85
4093	CD4093BCM	85
4093	HEF4093BT	85
4093	EL4093CSZ	534
4094	HCF4094M013TR	85
4094	HEF4094BT	85
4094	HEF4094BP	85
4094	CD4094BE	85
4096	DIT4096IPW.	534
4096	LTC4096EDD#PBF	484
4098	CD4098BE	85
4098	LTC4098EPDC#PBF	559
4099	HCF4099BEY.	85
4099	HCF4099BEY	85
41	M41T00M6E	106
41	M41T56MH6E	107
41	M41T56M6E	107
41	M41ST85WMX6	106
41	M41T82RM6E	107
41	M41ST87WMX6	106
41	M41T11MH6E	106
41	M41T00SM6E	253
41	LM41CIMT	522
41	M41T94MQ6E	107
41	M41T62Q6F	253
41	M41T83SQA6F	253
41	M41T11M6E	106
41	M41T81SM6E	253
410	MAX410ESA+	306
410	TFP410PAP	354
4100	MPXA4100A6U	511
4100	LTC4100EG#PBF	484
4100	MPX4100A	510
4100	MIC4100YM	462
4101	LTC4101EG#PBF	484
4101	MPX4101A	516
4101	MIC4101YM	462
41010	MCP41010-E/P	436
41010	MCP41010-E/SN	436
41010	MCP41010-I/SN	436
41010	MCP41010-I/P	433
4102	MIC4102YM	462
4103	MIC4103YM	462
4104	TPD4104AK(LB2,Q)	458
4104	HEF4104BP	85
4104	MIC4104YM	462
4104	PCM4104PFBTG4	300
4105	TPD4105AK(LB2,Q)	458
41050	MCP41050-I/P	433
41050	MCP41050-I/SN	436
41050	MCP41050-E/SN	436
4106	MAX4106ESA+	338
4107	MAX4107ESA+	309
4108	ADF4108BCPZ	355
411	ADT7411ARQZ	523
411	DG411DYZ	343
411	DG411DY-E3	343
411	LF411CD	324
411	ADG411BRZ	343
411	Z8F0411HH020SG	164
411	LF411CN	326
411	DG411LDY-E3	343
411	DG411DJZ	343
411	LF411ACN	325
4110	LTC4110EUHF#PBF	484
41100	MCP41100-E/SN	436
41100	MCP41100-E/P	436
4111	TPD4111K(LB2,Q)	458
41111	SIP41111DYP-T1-E3	466
41111	SIP41111DY-T1-E3	466
4112	MAX4112ESA+	332
4112	TPD4112K(LB2,Q)	458
4113	ADF4113HVBRUZ	355
4115	MPXA4115AC6U	511
4115	MPX4115A	511
4115	MPX4115AP	511
4115	MPXV4115V6U	510
4115	MPXA4115A6U	511
4115	MPX4115AS	511
412	DG412DJZ	343
412	DG412LDY-E3	343
412	DG412DJ-E3	343
412	ADG412BRZ	343
412	LF412CD	313
412	DG412DY+	343
412	PVT412LPBF	469
412	PVT412SPBF	469
412	DG412DYZ	343
412	LF412CD.	313
412	MAX412ESA+	322
412	DG412CUE+	342
412	ADG412BNZ	344
412	MAX412CSA+	313
412	DG412DY	343
4120	LM4120IM5-5.0	541
4120	MIC4120YME	463
4120	LM4120AIM5-4.1	540
4120	LM4120AIM5-2.0	538
4120	LM4120AIM5-3.0	539
4120	LM4120AIM5-3.3	539
4120	THS4120IDGN	333
4120	LM4120AIM5-2.5	539
4120	LM4120IM5-1.8	537
4120	LM4120IM5-2.0	538
4120	LM4120IM5-3.0	539
4120	LM4120AIM5-5.0	541
4120	LM4120IM5-4.1	540
4120	LM4120AIM5-1.8	537
4120	LM4120IM5-3.3	539
4121	LM4121AIM5-1.2/NOPB	537
4121	THS4121ID	333
4121	LM4121AIM5-ADJ/NOPB	541
4122	MAX4122EUK+T	328
4125	LM4125AIM5-2.0	538
4125	LM4125AIM5-4.1	540
4125	LM4125IM5-2.5	539
4126	MIC4126YME	463
4126	MAX4126ESA+	309
4127	MIC4127YME	463
4128	LC4128ZC-75TN100C	102
4128	LM4128AMF-4.1/NOPB	540
4128	LM4128AMF-2.5/NOPB	538
4128	LM4128BMF-2.5/NOPB	539
4128	LC4128V-75TN100C	102
413	DG413DY	343
413	ADG413BRZ	343
413	ADG413BNZ	343
413	DG413DJ-E3	343
413	DG413DYZ	343
413	DG413LDY-E3	343
413	DG413DJZ	343
413	DG413DY+	343
4130	THS4130ID	333
4130	OPA4130UA.	321
4130	THS4130CD	333
4131	OPA4131UA	325
4131	OPA4131NA.	321
4131	THS4131ID	333
4131	MAX4131ESA+	323
4131	OPA4131PAG4	327
4131	THS4131CDG4	333
4131	OPA4131NA	321
4131	THS4131CDGN	333
4132	LM4132BMF-2.5	539
4132	LM4132BMF-2.0	538
4132	LM4132AMF-4.1	540
4132	LM4132AMF-2.5	539
4132	LM4132AMF-2.0	538
4132	MAX4132ESA+	323
4132	LM4132CMF-2.0	538
4132	LM4132BMF-4.1	540
4132	LM4132DMF-2.5	539
4132	OPA4132UA	327
4132	LM4132DMF-4.1	540
4132	LM4132EMF-2.0	538
4132	LM4132EMF-2.5	539
4132	LM4132EMF-4.1	540
4132	LM4132DMF-2.0	538
4132	LM4132CMF-4.1	540
4132	LM4132CMF-2.5	539
4132	LM4132AMF-3.0/NOPB	539
4132	LM4132AMF-4.1/NOPB	540
4132	LM4132AMF-3.3/NOPB	539
4134	OPA4134UAE4	321
4136	RC4136N	321
4137	OPA4137PA	327
4137	OPA4137UA.	321
414	PVU414PBF	469
414	MAX414ESD+	319
414	PVU414	469
4140	LM4140ACM-4.1	540
4140	LM4140BCM-1.0	537
4140	LM4140BCM-1.2	537
4140	LM4140BCM-2.0	538
4140	LM4140BCM-2.5	539
4140	LM4140BCM-4.1	540
4140	LM4140CCM-1.0	537
4140	LM4140CCM-1.2	537
4140	LM4140ACM-1.0	537
4140	LM4140ACM-1.2	537
4140	LM4140ACM-2.0	538
4140	THS4140ID	333
4140	LM4140CCM-2.0	538
4140	LM4140CCM-2.5	539
4140	LM4140ACM-2.5	539
4140	LM4140CCM-4.1	540
4141	THS4141ID	334
4141	THS4141CD	334
4150	LTC4150CMS#PBF	484
4151	THS4151ID	334
4156	ADF4156BRUZ	355
4157	FSA4157P6	342
4157	FSA4157AP6	342
4157	FSA4157P6X	342
4159	FSA4159P6X	342
4162	MAX4162ESA+	322
4165	MAX4165EUK+	309
417	DG417LDY-E3	341
417	DG417DJ-E3	341
4172	MAX4172ESA+	309
4174	FAN4174IP5X	309
4177	OP4177ARUZ	321
4177	OP4177ARZ	309
418	DG418LDY-E3	341
418	DG418DJ-E3	341
419	ADG419BRMZ	341
419	DG419DY	341
419	DG419LDY-E3	341
419	ADG419BRZ	341
419	DG419CY+	341

Index by Type for Semiconductor ICs

	Mftrs. List No.	Page
419	DG419DJ-E3	341
419	ADG419BNZ	344
4190	SRC4190IDB	534
4192	DIX4192IPFBG4	534
4192	SRC4192IDB	534
4193	SRC4193IDB	534
42	CS42L52-CNZ	302
42	FSUSB42UMX	410
42	CS42L51-CNZ	302
42	OP42GPZ	304
42	OP42GSZ	304
42	UAF42AP	438
42	OP42FZ	324
42	IS42S32800B-7TL	109
42	IS42S16160B-7TL	109
42	UAF42AUE4	438
42	IS42S16100C1-7TL	109
42	IS42S16400D-7TL	109
420	AD420ARZ-32	297
420	AD420ANZ-32	297
420	ADR420ARZ	538
420	RCV420JP	518
420	RCV420KPG4	523
4200	MAX4200ESA+	332
4200	MPX4200A	510
4201	CAT4201TD-GT3	443
42010	MCP42010-I/P	436
42010	MCP42010-E/P	436
42010	MCP42010-E/SL	436
4202	CS4202-JQZ	300
4202	PCM4202DBR	300
4202	PCM4202DBTG4	289
4203	MAX4203ESA+	332
4204	PCM4204PAPT	300
42050	MCP42050-E/SL	436
42050	MCP42050-E/P	436
4208	MAX4208AUA+T	336
4208	MAX4208AUA+	336
4209	MAX4209HAUA+T	336
421	ADR421ARZ	538
421	AD421BRZ	297
421	AD421BNZ	354
4210	LTC4210-2CS6#TRMPBF	463
4210	LTC4210-1IS6#TRMPBF	463
4210	LTC4210-1CS6#TRMPBF	463
42100	MCP42100-E/SL	436
42100	MCP42100-E/P	436
42100	MCP42100-I/P	436
4211	LTC4211CMS#PBF	484
4211	THS4211D	309
4211	LTC4211CS8#PBF	484
4212	MAX4212EUK+	309
4214	LTC4214-1CMS#PBF	484
4214	LTC4214-2CMS#PBF	484
4218	LTC4218CDHC-12#PBF	484
4218	LTC4218IDHC-12#PBF	484
422	Z8F0422PJ020SG	164
422	DPA422GN	502
422	DPA422PN	502
422	PVT422PBF	469
422	TMP422AIDCNT	523
422	LMV422MM	313
422	IL422E	456
4220	IP4220CZ6	518
4220	LT4220CGN#PBF	484
4221	THS4221D	309
4221	LTC4221CGN#PBF	484
4222	PCM4222PFBG4	289
4222	THS4222DGN.	316
4223	LTC4223IGN-1#PBF	484
4223	LTC4223IDHD-1#PBF	484
4223	LTC4223CGN-1#PBF	484
4223	LTC4223CDHD-1#PBF	484
4227	OPA4227UA	321
4227	OPA4227PAG4	321
4228	OPA4228PA	321
4228	OPA4228UA	321
423	DPA423G	502
423	DPA423PN	502
423	DPA423R-TL	502
423	DPA423GN	502
423	ADR423ARZ	539
4230	LTC4230CGN#PBF	484
4233	MAX4233AUB+	323
4234	OPA4234UG4	321
4236	MAX4236EUT+T	309
4236	MAX4236BESA+	309
4237	MAX4237EUT+T	309
4237	MAX4237AESA+	323
4238	CAT4238TD-GT3	443
424	DPA424PN	502
424	DPA424GN	502
4240	CAT4240TD-GT3	443
4240	TLE4240G	443
42406	CS42406-CQZ	302
4241	OPA4241UA	321
4241	TLE4241GM	443
4241	LTC4241CGN#PBF	484
42418	CS42418-CQZ	302
4242	TLE4242G	443
4243	PT4243A	484
42438	CS42438-CMZ	302
4244	OPA4244EA/250	321
4244	LTC4244CGN#PBF	484

	Mftrs. List No.	Page
42448	CS42448-CQZ	302
4245	CS4245-CQZ	302
4245	CS4245-CQZ	574
425	DPA425P	502
425	DPA425GN	502
425	DPA425PN	502
425	ADR425ARZ	540
4250	MPX4250AP	510
4250	MAX4250EUK+	309
4250	MPX4250GP	510
4250	MPX4250A	510
4250	MPX4250DP	510
4250	LT4250LCS8#PBF	484
4250	LM4250CN	309
4250	MPXA4250AC6U	510
4251	OPA4251UA	321
42518	CS42518-CQZ	574
4252	MAX4252EUA+	322
4252	LTC4252-2CMS#PBF	484
4252	LTC4252A-2CMS#PBF	484
4252	LTC4252A-1CMS#PBF	484
42526	CS42526-CQZ	302
42528	CS42528-CQZ	574
42528	CS42528-CQZ	302
4253	MAX4253EUB+	316
4255	LTC4255CG#PBF	485
4256	LC4256V-75TN100C	102
4257	LTC4257CS8#PBF	485
4257	LTC4257IS8#PBF	485
4258	LTC4258CGW#PBF	485
426	TC426COA	460
426	TC426CPA	460
4260	LTC4260CUH#PBF	485
4260	LTC4260CGN#PBF	485
4263	LTC4263CS#PBF	485
4264	TS4264GCW50 RP	566
4267	LTC4267IDHC-3#PBF	485
4267	LTC4267IGN-3#PBF	485
4267	LTC4267CGN-3#PBF	485
4267	LTC4267CDHC-3#PBF	485
4268	LTC4268CDKD-1#PBF	485
4268	LTC4268IDKD-1#PBF	485
4270	CS4270-CZZ	302
4271	CS4271-CZZ	302
4271	THS4271D	309
4272	CS4272-CZZ	302
4272	CS4272-DZZ	302
4275	THS4275D	309
4277	OPA4277UA	321
4277	OPA4277PA	321
4278	MAX4278ESA+	332
428	TMC428-PI 24	460
428	ADG428BNZ	340
428	TMC428-I	460
4281	THS4281D	309
4287	BQ4287MT-SB2	253
42888	CS42888-CQZ	302
4289	MAX4289EUT+T	309
4290	CFPT-9301 FX A 13.0000MHZ	268
4299	CS4299-JQZ	300
43	REF43GPZ	538
43	CS43L21-CNZ	302
43	CS43L22-CNZ	302
430	MSP430F135IPM	575
430	MSP430P315SIDL	229
430	MSP-FET430PIF	228
430	MSP-FET430UIF	228
430	MSP-FET430U80	227
430	MSP430FW427IPM	230
430	MSP430F157IPM	575
430	MSP430F169IPM	575
430	MSP430FW425IPM	229
430	MSP430F1612IPM	575
430	MSP430FW423IPM	229
430	MSP430FG4619IPZ	230
430	MSP430F1121AIPW	229
430	MSP430F157IPM	229
430	MSP-FET430U64	227
430	MSP430F413IPM	229
430	MSP430F123IPW	229
430	MSP430F169IPM	230
430	MSP430F123IDW	229
430	MSP430F1612IPM	230
430	MSP430F149IPM	575
430	MSP-FET430U28	228
430	MSP-FET430U14	227
430	MSP430F2013IPW	229
430	MSP430F437IPN	230
430	MSP430F1121IDW	229
430	MSP430F449IPZ	230
430	MSP430FG4619IZQWT	230
430	MSP430F149IPM	229
430	MSP430FG4617IZQWT	230
430	MSP430F425AIPM	229
430	MSP430F437IPZ	230
430	MSP430F4260IDL	229
430	MSP430F1132IPW	229
430	MSP430F1121IPW	229
430	FSAV430QSC	532
430	MSP430F135IPM	229
430	MSP430F4260IRGZT	229
430	MSP430F423AIPM	229
430	FSAV430MTC	532
430	MSP430FG439IPN	230

	Mftrs. List No.	Page
430	MSP430FG4616IPZ	230
430	MSP430FG4616IZQWT	230
430	MSP430F2252TRHAT	229
430	MSP430F2252TDA	229
430	MSP430FG4617IPZ	230
4300	LTC4300A-1CMS8#PBF	463
4301	THAT4301P20-I	521
4302	NCP4302ADR2G	493
4302	NCP4302BDR2G	493
4302	THS4302RGTR	309
4302	ADA4302-4ACPZ-R2	355
4307	LTC4307IMS8-1#PBF	463
4308	LM4308SQ	347
4308	LM4308GR	347
4309	LTC4309IGN#PBF	347
4309	LTC4309IDE#PBF	347
431	TS431ACT	538
431	TL431BCDG	542
431	TLV431IDBVT.	541
431	TS431BCT	538
431	TS431ACX	538
431	ZTL431AFFTA	548
431	TS431ACS	538
431	LM431ACM/NOPB	542
431	TL431AIDBVT	542
431	FAN431ZXA	470
431	TL431AIZT	542
431	TL431AIP	542
431	LMV431IM5	542
431	FAN431LZXA	470
431	FAN431AZXA	470
431	LM431BCM3/NOPB	542
431	ZHT431F01TA	261
431	ZTL432AFFTA	548
431	TL431ACD	539
431	TL431AIDBZTG4	542
431	ZR431F005TA	542
431	TL431BQDBVTE4	542
431	ZR431LF01TA	542
431	TL431BQDBZTG4	542
431	TL431CP	543
431	TL431BQDCKTE4	542
431	TL431BQDE4	542
431	TL431CDBZRG4	542
431	TL431CLP	542
431	LM431ACM3	542
431	TL431CPSRG4	543
431	TL431ACLP	542
431	TL431AID	542
431	TL431AILP	542
431	TLV431BCDBVTE4	542
431	TL431ACDG4	542
431	TL431CD	542
431	TL431CLPME3	543
431	LM431AIM3	542
431	TLV431CLPE3	542
431	TLV431ACDBVTE4	542
431	TL431CLP..	542
431	TL431QDBZTG4	543
431	TLV431CDBV	470
431	TL431ACZ	539
431	TL431IPKG3	543
431	TL431IDBZTG4	543
431	TL431QDBVT	543
431	LMV431CZ.	542
431	LMV431CM5	542
431	LMV431ACM5	542
431	LM431BCM3	542
431	TL431CDG4	542
431	LMV431IZ	542
431	TL431ACDBVRG4	542
431	TL431ACD	542
431	TL431BCDBVTE4	542
431	LMV431CZ	542
431	TL431BCDBZTG4	542
431	TL431BCDCKTE4	542
431	TL431BCDE4	542
431	TL431BCPE4	542
431	TL431BIDBVTE4	542
431	TL431BIDBZTG4	542
431	TL431BIDCKTE4	542
431	LMV431ACZ	542
431	TL431BIDE4	542
431	TL431BIPE4	542
431	TLV431BQDBZTG4	542
431	TLV431BQDCKTE4	542
431	TLVH431ACDCKTE4	542
431	TLV431ACDBVR	542
431	TLV431ACDBVRG4	542
431	ZR431F01TA	542
431	TLV431AIDBVR	542
431	TLV431AIDBVRE4	542
431	TLVH431BCDBVTE4	542
431	TLVH431BCDBZTG4	542
431	TL431CPKG4	543
431	TL431ID	543
431	ADR431BRZ	538
431	TLVH431BIDBZTG4	542
431	ADR431ARZ	538
431	TLVH431BQDBZTG4	542
431	TLVH431CDBVTE4	542
431	TLVH431CDCKTE4	542
431	TLVH431IDCKTE4	542
431	TLVH431QDCKTE4	542

	Mftrs. List No.	Page
431	LM431AIZ/NOPB	542
431	TL431CLPG	542
431	LM431AIM	542
431	ZR431F	542
431	TLV431AID	470
431	TL431BIPKG3	542
431	TL431BILPE3	542
431	ZR431CL	542
431	TL431BCPKG3	542
431	TL431AILPME3	542
431	TL431AILPM	542
431	TL431CDBVRE4	542
431	TL431CDG	542
431	TL431CDE4	542
431	TLV431BCDBZTG4	542
431	ZR431LF02TA	542
431	ZR431LC01	542
431	LM431ACZ	542
431	TL431CZ	539
431	TLV431BCDCKTE4	542
431	TL431IPKG4	543
431	ZR431LF02TA.	542
431	TLV431BIDBZTG4	542
431	TLV431BIDCKT	542
431	TLV431BQDBVTE4	542
431	TL431ILP	543
4310	ADA4310-1ARHZ	451
431000	UPD431000AGW-70LL-A	104
431000	UPD431000AGW-70LL-A	573
4311	PGA4311U	534
4314	HA4314BCBZ	340
432	LM432MA.	313
432	TL432BCDBZTG4	543
432	TL432BIDBZTG4	543
432	TL432AIDBVR	543
432	TL432AIDBZT	543
432	TL432IDBVR	543
43256	UPD43256BGU-70LL-A	573
43256	UPD43256BGU-70LL-A	104
433	ADR433ARZ	539
433	ADR433BRZ	539
433	ADG433BRZ	344
433	ADG433ABRZ	344
433	FSAV433MTC	532
4330	NCP4330DR2G	493
4330	CS4330-KS	298
4331	CS4331-BS	298
4332	EL4332CSZ	339
4334	CS4334-KSZ	302
4335	CS4335-KSZ	302
4336	OPA4336EA/250G4	321
4338	CS4338-KSZ	302
434	ADR434ARZ	539
4340	OPA4340EA/250G4	321
4340	CS4340-KSZ	299
4340	OPA4340UA	321
4340	CS4340-CZZ	302
4341	CS4341-CZZ	302
4341	CS4341A-KSZ	300
4342	OPA4342UA	331
4342	OPA4342UAG4	331
4342	OPA4342EA/250	321
4343	OPA4343UA	321
4344	OPA4344UAG4	321
4344	CS4344-CZZ	302
4345	CS4345-CZZ	302
4347	OPA4347UA..	321
4348	CS4348-CZZ	302
43485	ISL43485IBZ	451
4349	CS4349-CZZ	302
435	ADR435ARZ	540
4350	OPA4350EA	321
4350	CS4350-CZZ	302
4350	OPA4350UA	331
4350	LTC4350CGN#PBF	485
4351	CS4351-CZZ	302
4351	LT4351CMS#PBF	485
4352	LTC4352CMS#PBF	518
4352	CS4352-CZZ	302
4352	LTC4352IDD#PBF	518
4352	LTC4352CDD#PBF	518
4352	LTC4352IMS#PBF	518
4353	OPA4353UA	321
4354	OPA4354AID	321
4355	LTC4355IS#PBF	463
4357	LTC4357IDCB#TRMPBF	463
4357	LTC4357CDCB#PBF	485
4357	LTC4357CMS8#PBF	485
4357	LTC4357IMS8#PBF	485
4357	LTC4357IDCB#PBF	485
436	ADG436BNZ	344
436	ADG436BRZ	344
4360	CS4360-KZZ	302
4361	CS4361-CZZ	302
4362	CS4362A-CQZ	302
4364	OPA4364AID.	331
4364	OPA4364AIPWT	331
437	MSP430FG437IPN	230
4376	OPA4376AIPW	321
438	AY0438/P	439
438	AY0438-I/P	442
4385	CS4385-CQZ	574
4385	CS4385-CQZ	302
4390	MAX4390EUK+T	323

Index by Type for Semiconductor ICs

	Mftrs. List No.	Page
4391	CS4391A-KZZ	302
4392	CS4392-KZZ	302
4392	SRC4392IPFBG4	355
4392	MAX4392ESA+	323
4392	SRC4392IPFB	534
4396	CS4396-KSZ	299
4397	CS4397-KSZ	302
4398	CS4398-CZZ	302
4399	CS4339-KSZ	300
44	ATTINY44-20PU	137
44	MC44BC375UEF	532
44	ZXSC440X8	469
44	ATTINY44-20SSU	137
44	ATTINY44V-10PU	137
44	ATTINY44V-10SSU	137
44	MIC44F18YMME	460
44	MIC44F19YMME	460
440	ADR440ARMZ	538
440	ADR440BRZ	538
440	ADR440ARZ	538
440	AD7440BRMZ	281
4402	DS4402N+	300
4404	DS4404N+	300
441	DG441DYZ	343
441	DG441DJZ	343
441	ADG441BRZ	343
441	DG441DJ-E3	343
441	ADR441BRZ	538
441	DG441DY-E3	343
441	DG441LDY-E3	343
441	ADR441ARZ	538
441	ADR441ARMZ	538
441	ADG441BNZ	344
4410	MAX4410EUD+	534
4411	ADA4411-3ARQZ	534
4411	LTC4411ES5#TRMPBF	463
4412	CS4412A-CNZ	534
4412	LTC4412ES6#TRMPBF	463
4412	LTC4412IS6#TRMPBF	463
4412	ADA4412-3ARQZ	534
4413	LTC4413EDD#PBF	463
4415	LTC4414EMS8#PBF	485
4417	ADA4417-3ARMZ	534
442	LF442CN	326
442	DG442DY-E3	343
442	DG442LDY-E3	343
442	DG442DJZ	343
442	LF442ACN/NOPB	313
442	DG442DYZ	343
4420	TC4420COA	463
4420	TC4420EPA	463
4420	TC4420CPA	463
4420	MAX4420ESA+	439
4420	MAX4420CSA+	463
4420	MIC4420YM	463
4420	MIC4420YN	463
4420	TC4420EOA	463
4421	TC4421AVAT	463
4421	TC4421CPA	463
4421	TC4421AVOA	463
4422	MIC4422YM	467
4422	MIC4422YN	463
4422	TC4422CPA	463
4422	TC4422CPA	573
4422	TC4422AVAT	463
4422	TC4422AVOA	463
4422	TC4422EPA	463
4423	TC4423CPA	463
4423	MIC4423YM	467
4424	TC4424EPA	463
4424	TC4424CPA	463
4424	TC4424AVOA	463
4424	MIC4424YM	463
4424	TC4424AVPA	463
4424	MIC4424YN	463
4425	MIC4425YN	463
4426	MIC4426YM	463
4426	TC4426ACPA	463
4426	TC4426ACOA	463
4426	TC4426AEOA	463
4426	IR4426PBF	463
4426	MIC4426YN	463
4426	MIC4428YN	463
4426	IR4426SPBF	463
4426	TC4426EOA	463
4426	TC4426CPA	463
4426	TC4426COA.	463
4427	MAX4427ESA+	439
4427	TC4427COA	463
4427	MIC4427YM	463
4427	MIC4427YN	463
4427	TC4427AEOA	463
4427	IR4427PBF	463
4427	TC4427MJA	463
4427	MIC4427ZM	463
4427	TC4427AEPA	463
4427	IR4427SPBF	463
4427	TC4427EOA	463
4427	TC4427CPA	463
4428	TC4428CPA	463
4428	TC4428ACPA	463
4428	TC4428EOA	463
4428	IR4428PBF	463
4428	TC4428ACOA	463

	Mftrs. List No.	Page
4428	IR4428SPBF	463
4429	TC4429CPA	463
4429	TC4429COA	463
4429	MIC4429YN	463
443	ADR443ARZ	539
443	ADR443ARMZ	539
443	ADR443BRZ	539
4431	LM4431M3-2.5	539
4431	TS4431ILT	537
4431	TC4431VOA	463
4431	TC4431COA	463
4431	TC4431VPA	463
4431	TC4431VOA713	463
4432	TC4432EOA	463
4432	TC4432VOA713	463
4432	TC4432VPA	463
4436	TS4436ICT	537
444	DG444DY-E3	343
444	DG445DY-E3	344
444	LF444CM/NOPB	306
444	DG444DYZ	344
444	ADR444ARMZ	540
444	ADG444BRZ	344
444	ADR444BRZ	540
444	LF444CN	327
444	ADR444ARZ	540
4440	LTC4440EMS8E#PBF	355
4440	LTC4440ES6#TRMPBF	463
4441	LTC4441EMSE#PBF	463
4443	LTC4443IDD#PBF	463
4444	LTC4444EMS8E#PBF	463
4446	SP4446EK-L	509
4447	LTC4447IDD#PBF	463
4447	MAX4447ESE+	445
445	DG445DYZ	344
445	OPA445AUG4	326
445	ADR445BRZ	540
445	ADR445ARZ	540
445	OPA445BM	306
445	ADR445ARMZ	540
445	OPA445AU	325
445	OPA445AP...	325
4451	MIC4451YN	463
4451	TC4451VPA	463
4451	TC4451VOA	463
4452	MIC4452YM	463
4452	TC4452VAT	463
4452	TC4452VOA	463
4458	CFPT-9301 FX A 20.0000MHZ	268
4460	MAX4460ESA+	336
44600	CS44600-CQZ.	536
4468	TC4468CPD	463
4468	MIC4468ZN	463
4468	TC4468COE	463
4469	MIC4469YN	463
4469	MIC4469YWM	463
4469	TC4469COE	463
4469	TC4469CPD	463
447	MSP430F447IPZ	230
447	DG447DV-T1-E3	341
4470	MAX4470EUK+T	309
4477	MAX4477AUA+	316
4479	CFPT-9301 FX A 10.0000MHZ	268
448	DG448DV-T1-E3	341
4480	CFPT-9301 FX A 12.8000MHZ	268
44800	CS44800-CQZ.	536
4481	CFPT-9301 FX A 16.0000MHZ	268
4482	CFPT-9301 FX A 16.3840MHZ	268
4486	CFPT-9301 FX A 24.5535MHZ	268
4487	CFPT-9301 FX A 26.0000MHZ	268
4488	CFPT-9301 FX A 32.7680MHZ	268
4489	MAX4489AUA+	316
449	DG449DS-T1-E3	341
4490	A4490EES-T	485
4491	CFPT-9301 FX A 40.0000MHZ	268
4492	CFPT-9301 FX A 50.0000MHZ	268
45	AT45DB642D-CNU	119
45	AT45DCB008D	119
45	AT45DB021D-SSU	119
45	M45PE40-VMP6G	120
45	AT45DB041D-SSU	119
45	M45PE10-VMN6P	120
45	AT45DB321D-SU	119
45	M45PE20-VMN6P	120
45	M45PE20-VMP6G	120
45	AT45DB081D-SSU	119
45	AT45DB081D-SU	119
45	AT45DB161D-SU	119
45	AT45DB161D-TU	119
45	AT45DB321D-TU	119
45	AT45DCB002D	119
45	LM45CIM3	522
45	AT45DB041D-SU	119
45	AT45DB321D-SU	570
45	AT45DB642D-TU	573
45	AT45DB642D-TU	119
45	ATTINY45V-10SU	137
45	AT45DB011D-SH	119
45	ATTINY45-20SU	137
45	ATTINY45-20PU	137
45	ATTINY45V-10PU	137
45	AT45DCB004D	119
45	LM45BIM3	522
45	M45PE80-VMP6G	120

	Mftrs. List No.	Page
450	FSAV450MTC	532
450	FSAV450QSC	532
4500	THS4500ID	334
4501	THS4501ID	334
4501	TLC4501ACD	309
4501	TLC4501CD	309
4501	EL4501IUZ	534
4502	TLC4502ACD	316
4502	TLC4502CDG4	316
4502	THS4502IDGN	334
4502	THS4502ID	334
4503	THS4503ID	334
4503	THS4503IDGN	334
45048	AD45048ARZ	318
4505	THS4505D	334
4509	THS4509RGTT	334
451	ADG451BNZ	344
451	DG451EQ-T1-E3	344
451	DG451EY-T1-E3	344
451	ADG451BRZ	344
451	ADG451BRUZ	344
4510	CD4510BE	349
4511	HEF4511BT	85
4511	EL4511CUZ	534
4511	HEF4511BP	85
4511	CD4511BE	85
4511	HCF4511BEY	85
4514	HEF4514BT	85
4514	HEF4514BP	85
4516	HEF4516BP	85
4516	HCF4516BEY	85
4518	CD4518BE	85
4518	HEF4518BP	85
45180	45180	155
452	MAX452CPA+	328
452	DG452EY-T1-E3	344
452	DG452EQ-T1-E3	344
452	OPA452TA	338
452	OPA452TA-1	306
452	ADG452BNZ	344
452	ADG452BRZ	344
4520	HEF4520BT	85
4520	HEF4520BP	85
4520	CD4520BE	85
4521	MAX4521CSE+	344
4521	HEF4521BP	85
4521	HEF4521BT	85
4522	MAX4522CSE+	344
4523	MAX4523CSE+	344
4524	MAX4524CUB+	340
4525	CS4525-CNZ	534
4526	HEF4526BP	85
4528	HEF4528BP	85
4528	HEF4528BT	85
453	OPA453TA	306
453	DG453EQ-T1-E3	344
453	DG453EY-T1-E3	344
453	ADG453BRZ	344
453	ADG453BRUZ	344
453	ADG453BNZ	344
4532	HCF4532BEY	85
4533	MAX4533CAP+	344
4538	HEF4538BT	85
4538	HEF4538BP	85
4538	HCF4538M013TR	85
4538	CD4538BCN	85
454	DG454EY-T1-E3	344
454	DG454EQ-T1-E3	344
4541	CD4541BE	85
4541	HCF4541M013TR	85
4541	CD4541BCN	85
4541	CD4541BCMX	85
4541	TLC4545ID.	287
4541	TLC4541ID	287
4541	TLC4545ID	287
4541	HEF4541BP	85
4541	HEF4541BT	85
4543	CD4543BE	439
4543	HEF4543BP	85
4543	EL4543IUZ	446
4544	MAX4544ESA+	339
4545	MAX4545CAP+	355
4549	LM4549BVH/NOPB	534
455	DG455EQ-T1-E3	344
455	DG455EY-T1-E3	344
4550	LM4550BVH/NOPB	534
4555	HCF4555BEY.	85
4555	HEF4555BP	85
4556	HCF4556BEY.	85
4556	HCF4556BEY	85
4556	LTC4556EUF#PBF	355
4558	MC4558CD	316
4558	RC4558D	316
4558	RC4558P	316
456	DG456EQ-T1-E3	344
456	DG456EY-T1-E3	344
4562	LM4562HA/NOPB	534
457	MAX457CPA+	329
4581	EL4581CSZ	534
4581	TL4581D	316
4584	EL4584CN	534
4585	HCF4585BEY	86
4585	HEF4585BP	86
4585	EL4585CSZ	355

	Mftrs. List No.	Page
4600	LTM4600EV#PBF	503
4600	LTM4600HVEV#PBF	503
4600	LTM4600HVIV#PBF	503
4600	LTM4600IV#PBF	503
4600	HA4600CBZ	534
4601	THS4601ID	325
4601	LTM4601IV#PBF	485
4601	LTM4601EV#PBF	485
4602	LTM4602EV#PBF	485
4604	LTM4604EV#PBF	485
4605	LTM4605EV#PBF	485
4606	LTM4606IV#PBF	485
4606	LTM4606EV#PBF	485
461	TS461CD	306
461	TS461CLT	306
461	TS461CLT.	306
461	ATTINY461-20PU	138
461	ATTINY461-20SU	138
461	ATTINY461V-10PU	138
461	ATTINY461V-10SU	138
461	TS461CD.	306
4612	LTM4612EV#PBF	485
4612	LTM4612IV#PBF	485
4614	MAX4614CSD+	340
4615	CY4615B	411
4619	MAX4619CPE+	343
462	OP462GSZ	319
462	TS462CN	313
462	TS462CD	313
4639	MAX4639EUE+	340
464	TS464CN	319
464	TS464CD	319
4640	CY4640	412
4659	MAX4659EUA+	342
4661	MAX4661CAE+	344
4663	LM4663MT	534
4664	LM4664ITL	534
4665	LM4665MM	534
4665	LM4665ITL	534
4667	LM4667MM	534
4668	LM4668LD	534
467	OP467GSZ	319
467	OP467GPZ	319
467	ADG467BRZ	344
467	DG467DV-T1-E3	341
4670	LM4670SD	534
4670	LM4670ITL	534
4673	LM4673SD	534
4673	LM4673TM	534
4674	LM4674SQ/NOPB	534
468	DG468DV-T1-E3	341
4680	LM4680SD	534
4680	MIC4680YM	566
4682	MIC4682YM	485
4684	LMS4684ITL	342
4684	LMS4684LD	342
470	OP470GPZ	319
470	OP470GSZ	319
470	OP470GPZ	571
4702	LM4702CTA	534
4702	LM4702BTA/NOPB	534
471	OP471GPZ	319
4720	MIC4720YMME	485
4721	MIC4721YMM	485
4723	MIC4723YML TR	485
4724	CD4724BCN	86
4725	MCP4725A0T-E/CH	294
4731	LM4731TA/NOPB	534
4755	LM4755TS/NOPB	534
4755	LM4755T/NOPB	534
476	AD7476AYRMZ	282
476	SCANSTA476TSD	470
4765	LM4765T/NOPB	534
4766	LM4766T	534
4766	LM4766TF/NOPB	534
478	MAX478CSA+	313
4780	LM4780TA	534
4789	ADA-4789-BLKG	355
48	M48Z35Y-70MH1E	107
48	M48T58-70PC1	107
48	ATMEGA48V-10PU	137
48	M48T58Y-70MH1E	107
48	M48Z128Y-70PM1	107
48	M48T12-70PC1	107
48	M48Z35AV-10PC1	107
48	M48T59Y-70MH1E	107
48	M48Z129V-85PM1	107
48	M48T37Y-70MH1E	107
48	M48T86MH1E	107
48	M48T35Y-70MH1E	107
48	M48T08Y-10MH1E	107
48	SX48BD-G	155
48	M48T35AV-10PC1	107
48	M48T59Y-70PC1	107
48	M48T58Y-70PC1	107
48	M48T02-70PC1	107
48	M48Z35Y-70PC1	107
48	M48Z02-70PC1	107
48	ATMEGA48-20PU	137
48	ATMEGA48-20AU	137
48	SX48BD-G	575
48	ATMEGA48-20AU	573
48	ATMEGA48V-10AU	573
48	M48T08-150PC1	107

Index by Type for Semiconductor ICs

	Mftrs. List No.	Page
48	M48T201Y-70MH1E	107
48	M48T02-200PC1	107
48	M48T86MH1	107
48	ATMEGA48V-10MU	137
48	ATMEGA48-20MU	137
48	M48Z18-100PC1	571
48	M48Z08-100PC1	571
48	M48T08-100PC1	571
48	M48T201V-85MH1E	107
48	ATMEGA48V-10AU	137
48	M48Z12-150PC1	107
48	M48Z58Y-70PC1	107
48	M48Z58-70PC1	107
48	M48Z02-200PC1	107
48	M48T35Y-70PC1	107
48	M48T18-150PC	107
48	M48T18-100PC1	107
48	M48T08-150PC	107
48	M48T12-200PC1	107
48	M48T12-150PC1	107
48	M48Z18-100PC1	107
48	M48Z08-100PC1	107
48	M48Z02-150PC1	107
48	M48T08-100PC1	107
48	M48T02-150PC1	107
48	M48T512Y-70PM1	107
48	M48T128Y-70PM1	107
480	TS3480CX33 RF	566
4800	FAN4800IM	498
4800	MAX4800ACCM+	344
4800	ML4800CP	485
4800	ML4800IS	485
4800	ML4800IP	498
4802	MAX4802ACCM+	344
4802	BQ4802LYDW	258
4802	LM4802BLQ	534
4802	MAX4802CQI+	344
4803	FAN4803CP1	498
4803	FAN4803CP2	498
481	SP481ECN-L	454
481	MAX481ECSA+	448
481	OP481GSZ	319
481	SP481EEN-L	454
481	MAX481ECPA+	448
4810	FAN4810M	485
4810	FAN4810N	498
4811	LM4811MM	534
4811	LM4811MM.	534
4812	ML4812CP	485
4818	BU4818G-TR	254
482	OP482GPZ	319
482	OP482GSZ	319
4821	ML4821CS	485
4821	ML4821CP	498
4821	MCP4821-E/P	294
4821	MCP4821-E/SN	294
4822	MCP4822-E/P	294
4822	MCP4822-E/SN	294
4822	FAN4822IM	485
4824	ML4824CP1	498
4824	ML4824IS1	485
4824	ML4824CP2	498
4824	ML4824IP1	498
4824	ML4824CS1	485
4825	BU4825G-TR	254
4826	ML4826CP2	498
4826	MIC4826YMM	439
4827	MIC4827YMM	439
4828	BU4828G-TR	254
4829	BU4829G-TR	254
483	MAX483ECPA+	448
483	SP483EEN-L	454
483	MAX483EPA+	448
483	MAX483EESA+	453
483	ADM483EARZ	449
483	SP483ECN-L	454
483	ADM483EANZ	448
483	MAX483ESA+	448
483	MAX483ECSA+	448
483	SP483ECP-L	454
483	MAX483CPA+	448
483	ADM483ARZ	347
4830	BU4830G-TR	254
4830	MIC4830YMM	438
4831	BU4831G-TR	254
4832	MIC4832YMM	438
4833	BU4833G-TR	254
4838	LM4838ITL	534
4838	LM4838LQ	534
4838	LM4838MTE	534
4838	LM4838MT	534
4839	LM4839MTE	534
4839	LM4839MT	534
4839	LM4839LQ	534
484	OP484FSZ	319
484	OP484ESZ	319
484	OP484FPZ	306
4840	LM4840LQ	534
4840	LM4840MT	534
4840	LM4840MH	534
4841	ML4841CP	498
4841	ADA4841-2YRZ	316
4841	ADA4841-2YRMZ	316
48410	LM48410SQ	536
48411	LM48411TL/NOPB	536
4845	LM4845ITL	534
485	ADM1485JNZ	347
485	SP485RCN-L	454
485	ADM485ANZ	347
485	ST485BDR	347
485	MAX485ECSA+	449
485	MAX485ESA+	449
485	SP485EMN-L	454
485	DS485M	449
485	SP485EEP-L	454
485	SP485EEN-L	454
485	ADM485JNZ	449
485	MAX485CPA+	449
485	ADM485ARZ	449
485	IL485E	456
485	LTC485IN8.#PBF	449
485	LTC485CN8#PBF	449
485	MAX485EESA+	453
485	NM485DC	449
485	LTC485CS8#PBF	449
485	MAX485ECPA+	449
485	LMS485EIM	449
485	ST485CDR	347
485	SP485ECP-L	454
485	SP485ECN-L	454
485	ADM485EARZ	449
485	SP485REN-L	454
485	IL485WE	456
485	LMS485IM	449
485	LMS485CNA	449
485	ST485ERBN	449
485	LMS485CM	449
485	MAX485CSA+	449
485	DS485N	449
485	ST485CN	449
485	ADM485JRZ	449
4850	ADA4850-2YCPZ-R2	316
4851	ADA4851-2YRMZ	316
4851	ADA4851-4YRUZ	321
4851	ADA4851-1YRJZ-R2	309
4851	ADA4851-1YRJZ	309
48510	LM48510SD	536
48511	LM48511SQ/NOPB	536
4853	ADA4853-3YRUZ	529
48555	LM48555TL	536
4857	LM4857ITL	534
4860	LM4860M	534
4861	ADA4861-3YRZ	318
4861	TPA4861D	534
4861	LM4861M	534
4862	LM4862M/NOPB	534
4864	LM4864MM	534
4864	LM4864M.	534
4865	LM4865M	534
4866	LM4866MTE	534
4866	LM4866MT	534
4866	LM4866LQ	534
487	MAX487CSA+	449
487	MAX487ECSA+	449
487	LTC487CN#PBF	446
487	SP487CT-L	454
487	LTC487CSW#PBF	446
487	MAX487ECPA+	453
487	ADM487EARZ	449
487	MAX487CPA+	449
4871	TS4871ID	534
4871	LM4871MM/NOPB	534
4872	LM4872ITP	535
4875	LM4875M	535
4879	LM4879SD	535
4879	LM4879ITL	535
4879	LM4879ITP	535
4879	LM4879MM	535
488	MAX488CPA+	449
488	MAX488EESA+	449
488	SP488CT-L	454
488	ADM488ANZ	445
488	MAX488ECSA+	449
488	MAX488CSA+	449
4880	LM4880M	535
4882	LM4882M	535
48820	LM48820TM/NOPB	536
4886	MAX4886ETO+	535
48860	LM48860TL	536
4889	LM4889MA	535
4889	LM4889ITL	535
4889	LM4889MM	535
489	MAX489CSD+	449
489	LTC489CSW#PBF	446
489	MAX489EESD+	453
489	MAX489ESD+	453
489	LTC489CN#PBF	449
489	MAX489CPD+	449
489	ADM489ARZ	449
4890	LM4890M/NOPB	535
4890	LM4890MM/NOPB	535
4890	LM4890ITP	535
4893	LM4893MM	535
4893	LM4893ITL	535
4893	LM4893MA	535
4899	ADA4899-1YRDZ	309
48LC16	MT48LC16M16A2P-7E:D	109
48LC16	MT48LC16M16A2P-75:D	109
48LC2	MT48LC2M32B2P-6:G	109
48LC32	MT48LC32M8A2P-7E:D	109
48LC4	MT48LC4M32B2P-6:G	109
48LC8	MT48LC4M16A2P-7E:G:G	109
48LC8	MT48LC8M16A2P-7E:G	109
48LC8	MT48LC8M16A2P-75:G	109
49	AT49BV040B-TU	122
49	AT49BV160D-70TU	122
49	AT49BV160DT-70TU	122
49	AT49BV163D-70TU	122
49	AT49BV163DT-70TU	122
49	AT49BV320D-70TU	122
49	AT49BV320DT-70TU	122
49	AT49BV322D-70TU	122
49	AT49BV322DT-70TU	122
49	AT49BV642D-70TU	122
49	AT49BV642DT-70TU	122
490	SP490EEN-L	454
490	OP490GSZ	319
490	SP490ECN-L	454
490	MAX490EESA+	449
490	MAX490ESA+	449
490	OP490GPZ	319
490	SP490EEP-L	454
490	MAX490CSA+	449
490	LTC490IN8#PBF	449
490	LTC490CS8#PBF	449
490	LTC490CN8#PBF	449
4900	LM4900MM	535
4900	LM4900M	535
4901	LM4901MM	535
4902	LM4902MM	535
4903	LM4903MM	535
4905	LM4905MM	535
4905	LM4905LQ	535
4906	LM4906MM	535
4908	LM4908MA	535
4908	LM4908MM	535
491	SP491EEP-L	454
491	OP491GPZ	306
491	MAX491ECSD+	449
491	LTC491CS#PBF	449
491	LTC491IS#PBF	449
491	SP491EN-L	454
491	LTC491IN#PBF	449
491	LTC491CN#PBF	449
491	MAX491EESD+	452
491	SP491ECN-L	454
491	MAX491ESD+	453
491	MAX491CSD+	449
4911	GS4911BCNE3	357
4915	BU4915G-TR	255
4915	GS4915INE3	357
49150	MIC49150WR	566
4918	BU4918G-TR	255
4919	LM4919MM	535
492	MAX492CSA+	313
492	MAX492CPA+	313
4921	MCP4921-E/P	294
4921	MCP4921-E/SN	294
4922	MCP4922-E/SL	294
4922	ADA4922-1ARDZ	334
4922	MCP4922-E/P	294
4925	BU4925G-TR	255
49270	LM49270SQ	536
4928	BU4928G-TR	255
4929	BU4929G-TR	255
4930	BU4930G-TR	255
49300	MIC49300WR	566
4931	BU4931G-TR	255
4931	L4931CD50	560
4931	L4931CD33	557
4933	BU4933G-TR	255
4935	A4935KJP-T	459
49350	LM49350RL	536
49350	LM49350RL/NOPB	536
4938	LM4938MH	535
494	TL494CN	470
494	TL494CDG4	470
494	TL494IDG4	470
494	TL494ING4	470
4940	L4940V5	561
4940	L4940V85	562
4941	ADA4941-1YRZ	334
4941	LM4941SD	535
4941	L4941BDT	561
4941	L4941BV	561
4941	LM4941TM	535
4947	LM4947TL	535
495	SP495CT-L	454
495	OP495GPZ	319
495	MAX495CPA+	306
4950	LM4950TA	535
4950	LM4950TS	535
4950	LM49450SQ/NOPB	535
4951	LM4951SD	535
4952	LM4952TS	535
496	OP496GSZ	330
4960	LM4960SQ	535
4960	E-L4960	485
49600	LME49600TS/NOPB	536
4961	LM4961LQ	535
4962	L4962/A	485
497	OP497GSZ	319
497	OP497GPZ	319
497	TL497ACN	470
497	OP497FPZ	319
497	TL497ACD..	545
4970	L4970A	485
4971	E-L4971D	485
49710	LME49710MA/NOPB	536
49710	LME49710HA	536
49710	LME49710MA	536
4972	L4972A	485
49720	LME49720MA/NOPB	536
49720	LME49720MA	536
49720	LME49720HA	536
49722	LME49722MA/NOPB	537
49725	LME49725MA	537
4974	L4974A	485
49740	LME49740NA	536
49740	LME49740MA	536
49743	LME49743MT/NOPB	537
4975	L4975A	485
4978	E-L4978D	485
4978	E-L4978	485
4980	LM4980SD	535
4981	L4981B	485
4981	L4981BD	485
4981	E-L4981A	485
4981	LME49810TB	535
49811	LME49811TB/NOPB	537
49860	LME49860MA	536
49860	LME49860NA	536
49870	LME49870MA/NOPB	537
4990	TS4990ID	535
5	M5M51008DFP-70H#BT	104
5	TS5A23160DGSTG4	342
5	TMP05AKSZ-500RL7	521
5	XC5VLX30T-1FFG665C	98
5	XC5VLX20T-1FFG323C	98
5	TMP05BRTZ-500RL7	521
5	TS5V330DE4	532
5	TS5V330D	532
5	TS5L100PWE4	410
5	TS5L100PW	410
5	R5F21134DFP#U0	575
5	R5F21114DFP#U0	575
5	XC5VFX30T-1FFG665C	98
5	XC5VFX70T-1FFG665C	98
5	XC5VLX30-1FFG676C	98
5	R5F61657N35FTV	227
5	XC5VLX50-1FFG676C	98
5	R5F211B4NP#U0	225
5	R5F21134DFP#U0	225
5	XC5VLX85-1FFG676C	98
5	R5F21114DFP#U0	225
5	XC5VLX110-1FFG676C	98
5	XC5VLX50T-1FFG1136C	98
5	XC5VLX85T-1FFG1136C	98
5	TS5A3159DCKR.	341
5	XC5VLX110T-1FFG1136C	98
5	XC5VLX155T-1FFG1136C	98
5	XC5VSX35T-1FFG665C	98
5	XC5VSX50T-1FFG665C	98
5	KA5M0965QTU	469
5	TS5A3159AYZPR	532
5	TS5A3159DCKTE4	341
5	TS5A3159DCKT	341
5	TS5A3159DBVTE4	341
5	TS5A3159DBVRE4	341
5	TS5A3159DBVR	341
5	TS5L100DE4	410
5	SAP5SC-B-G1-T	455
5	TS5A23159DGST	341
5	SAP5SC-A-G1-T	455
5	TS5A23166DCURE4	342
50	KF50BD	560
50	LF50CV	560
50	LE50CZ	559
50	LF50ABP	560
50	LF50ABDT	560
50	LM50CIM3	522
50	LM50BIM3	522
50	LE50ABD	559
50	LF50CP	560
50	FM50S3X	522
50	VIPER50A-E	469
500	TC500CPE	287
500	LNK500PN	502
500	ZLDO500T8	560
500	ZRB500F01TA	540
500	ZMR500FTA	559
500	TC500ACPE	287
500	MAX500ACPE+	291
500	ZRB500F03TA	540
500	ZRB500F02TA	540
5000	LM5000-3MTC	485
5000	LM5000SD-3/NOPB	485
5001	TL5001CD	485
5001	LM5001SD	485
5001	TL5001AIP	485
5001	TL5001CDR	485
5001	TL5001CP	485
5001	TL5001CD.	485
5001	LM5001MA/NOPB.	545
5001	TL5001QDG4	485
5001	TL5001ACD	485

Index by Type for Semiconductor ICs

	Mftrs. List No.	Page
5001	LM5001MA	485
5002	LM5002MA	485
5004	MPXV5004DP	511
5004	MPXV5004GC7U	511
5005	LM5005MH	485
5005	NCP5005SNT1G	443
5006	NCP5006SNT1G	443
5007	LM5007SD/NOPB	485
5007	NCP5007SNT1G	443
5007	LM5007MM	485
5008	NCP5008DMR2G	441
5008	LM5008SD/NOPB	485
5008	LM5008MM	485
5009	LM5009MM	486
5009	LM5009SDC/NOPB	544
5010	MP5010GN	537
5010	LM5010MH/NOPB	485
5010	LM5010AMH	485
5010	LM5010SD	485
5010	LM5010ASD/NOPB	546
5010	MPX5010DP	511
5010	NCP5010FCT1G	441
5014	MIC5014YM	463
5020	LM5020MM-1	485
5020	LM5020MM-2	485
5020	MIC5020YM	463
5020	REF5020AIDG4	538
5021	MIC5021YN	463
5021	LM5021NA-2	485
5021	LM5021NA-1	485
5021	LM5021MM-2	485
5021	LM5021MM-1	485
5022	LM5022MM	485
5025	REF5025AIDG4	539
5025	LM5025MTC	485
5025	LM5025AMTC	485
5026	FAN5026MTC	498
5026	LM5026MT	485
5026	LM5026SD	486
503	SP503EF-L	454
5030	REF5030AIDG4	539
5030	LM5030MM	485
5032	LM5032MTC	485
50325	FSB50325T	506
50325	FSB50325	506
5033	MAX5033DASA+	545
5033	FAN5033MPX	485
5033	LM5033MM	485
5035	LM5035MH/NOPB	486
5035	LM5035ASQ/NOPB	486
504	MAX504CSD+	281
5040	REF5040AIDG4	540
5040	ADR5040BRTZ	538
5040	ADR5040ARTZ	538
5041	LM5041MTC	485
5041	PT5041N	508
5041	LM5041AMTC	485
5043	IH5043CPE+	342
5043	X5043PZ	258
5045	REF5045AIDG4	540
505	MICRF505YML	354
505	ATSTK505	133
505	SP505ACF-L	454
5050	MPX5050GP	511
5050	MPX5050DP	511
5050	REF5050AIDG4	541
506	TSIC506FST	523
506	MICRF506YML	354
506	ADG506AKRZ	341
506	TSIC506FEB	523
506	MPC506AP	341
506	ADG506AKNZ	341
5063	AD5063BRMZ	298
5068	LM5068MM-1	485
5068	LM5068MM-3	485
5068	LM5068MM-4	486
5069	LM5069MM-2	486
5069	LM5069MM-1	486
507	TS507IDT	306
507	TS507ILT	306
507	ADG507AKRZ	340
507	ADG507AKPZ	340
507	ADG507AKNZ	340
507	MPC507AUG4	340
507	MPC507AP.	340
507	TS507CD	306
507	TS507ID	306
5070	LM5070MTC-50	486
5070	MAX5070BASA+	486
5070	LM5070MTC-80/NOPB	486
5071	LM5071MT-80/NOPB	486
5072	LM5072MH-50	486
5072	LM5072MH-80	486
5073	LM5073MH	486
508	ADG508AKRZ	341
508	MPC508AUG4	341
508	ADG508FBNZ	340
508	SP508CF-L	454
508	ADG508AKNZ	340
5080	PVI5080NPBF	467
5080	LM5080MM	486
5086	MAX5086BATE+	543
5087	MAX5087BATE+	543
509	ADG509AKNZ	339
509	DG509ADY+	339
509	DG509ACWE+	339
509	DG509ACJ+	339
509	MPC509AP	339
509	MPC509AUG4	339
509	ADG509FBRNZ	339
5093	MAX5093BATE+	560
5093	MAX5093AATE+	556
5094	MAX5094BASA+	486
5094	MAX5094AAUA+	486
5098	MAX5098AATJ+	486
5099	MAX5099ATJ+	486
51	MCF51QE32LH	212
51	MCF51QE64CLH	212
51	SAP51C-A-G1-T	455
51	SAP51C-B-G1-T	455
51	PA51A	324
51	MCF51QE128CLH	212
51	MCF51QE128CLK	212
51	MCF51QE32CLH	212
51	TL051ACD	324
51	PA51	324
51	MCF51QE96CLK	212
51	MCF51QE96CLH	212
510	MAX510BCWE+	280
510	ADR510ARTZ-R2	537
5100	MPX5100DP	510
5100	LM5100M	463
5100	LM5100CMA	463
5100	LM5100ASD	463
5100	LM5100BMA	463
5100	LM5100AM	463
5100	MPX5100A	510
5100	MPX5100D	510
5100	MPX5100AP	510
5100	TPS5100IPW	486
5100	LM5100CSD	463
5100	RPI5100	518
5100	LM5100BSD	463
5101	LM5101CMA	464
5101	LM5101ASD	464
5101	LM5101M	464
5101	LM5101AM	464
5101	LM5101BMA	464
5101	LM5101BSD	464
5101	LM5101CSD	464
5101	PT5101N	508
5101	PT5101C	508
5101	PT5101A	508
5101	CS5101A-BL8Z	302
5102	TPS5102IDBTG4	486
5102	PT5102N	508
5102	PT5102C	508
5102	PT5102A	508
5102	CS5102A-BLZ	302
5103	TPS5103IDB	486
5104	LM5104M	464
5104	LM5104SD/NOPB	464
5105	LM5105SD	464
5106	NCP5106BPG	467
5106	NCP5106BDR2G	467
5106	NCP5106APG	467
5106	NCP5106ADR2G	467
5106	LM5106MM	464
5107	LM5107MA	464
5109	LM5109AMA/NOPB	464
5109	LM5109SD	464
5109	LM5109BMA	464
511	LPV511MG	306
511	QT511-ISSG	512
5110	LM5110-2M	464
5110	LM5110-2SD	464
5110	LM5110-1M	464
5111	LM5111-4MY/NOPB	464
5111	LM5111-2M/NOPB	464
5111	LM5111-1M	464
5111	NCP5111PG	467
5111	LM5111-1MY	464
5111	LM5111-2MY	464
5111	LM5111-3MY	464
5111	NCP5111DR2G	467
51116	TPS51116PWPG4	490
51117	TPS51117PWG4	490
5112	TPS51124RGET	486
5112	LM5112SD/NOPB	464
5112	LM5112MY	464
51120	TPS51120RHBTG4	490
51124	TPS51124RGETG4	490
5113	CAT5113VI-10	435
5113	CAT5113VI-00	435
5113	CAT5113V-10	518
5114	CAT5114VI-10	435
5114	CAT5114VI-00	435
5115	LM5115AMT	486
5116	MAX5116EEE+	299
5116	LM5116MH	486
512	HCS512/SO	354
512	NAND512W3A2CN6E	122
512	TS512IN	313
5120	TPS5120DBTG4	486
5120	ADS5120CGHK	281
513	LT1513-2CR#PBF	470
5134	MAX5134AGTG+	298
514	MAX514ACNG+	294
51427	TPS51427RHBT	490
515	SAF-C515C-8EM	151
515	MAX515ESA+	281
5150	TVP5150APBS	535
5150	TVP5150AM1ZQC	535
5150	TVP5150AM1PBS	535
5157	FSA5157P6X	342
5160	AD5160BRJZ10-RL7.	435
5160	AD5160BRJZ5-R2.	432
5161	AD5161BRMZ5	432
5161	AD5161BRMZ50	432
5161	AD5161BRMZ10	432
5161	AD5161BRMZ100	432
5162	AD5162BRMZ100	432
5165	AD5165BUJZ100-R2	432
5166	EL5166ISZ	309
517	MAX517ACSA+	291
517	MAX517ACPA+	291
517	MAX517BCPA+	291
5170	AD5170BRMZ50	433
5170	AD5170BRMZ100	432
5170	EL5170ISZ	445
5171	AD5171BRJZ5-R2	433
5171	EL5171ISZ	445
5171	AD5171BRJZ50-R2	433
5171	AD5171BRJZ10-R2	433
5171	AD5171BRJZ100-R2	433
5172	AD5172BRMZ100	433
5172	AD5172BRMZ50	433
5172	EL5172ISZ	446
5174	EL5174ISZ	445
518	MAX518BCSA+	280
5181	NCP5181PG	467
5181	NCP5181DR2G	467
5183	MAX5183BEEI+	293
5184	MAX5184BEEG+	293
5185	MAX5185BEEI+	293
5189	MAX5189BEEI+	292
519	MAX519ACPE+	291
519	MAX519ACSE+	291
5190	MAX5190BEEG+	292
5191	MAX5191BEEI+	292
52	TL052ACD	326
52	TL052AID	326
520	LNK520P	502
5200	MIC5200-3.3YM	556
52004	BU52004GUL-E2	439
5204	AD5204BRZ100	433
5204	AD5204BRZ10	433
5205	MIC5205YM5 TR	566
5205	MIC5205-2.5YM5 TR	553
5205	MIC5205-3.3YM5 TR	556
5206	MCF5206ECAB40	216
5206	MCF5206EAB40	216
5206	MCF5206EAB54	216
5207	MCF5207CVM166	213
5209	MIC5209YM	566
521	MAX521ACPP+	291
5210	EL5210CSZ	309
5211	MCF5211CAE66	213
5211	MCF5211CAE66	575
5212	MCF5212CAE66	213
5213	MCF5213CAF66	213
5213	MCF5213CAF80	213
5213	LMS5213IM7-3.0.	555
5214	LMS5214IMG-3.3.	556
5214	LMS5214IMG-3.0.	555
5216	MCF5216CVM66	216
5219	MIC5219YM5 TR	566
522	MAX522CSA+	299
5220	AD5220BNZ100	433
5220	EL5220CYZ	309
5220	AD5220BRZ10	433
52210	MCF52210CEP66	214
52211	MCF52211CAF80	214
52211	MCF52211CAE66	214
52211	MCF52211CEP66	214
52232	MCF52232CAF50	215
52236	MCF52236CAF50	215
5225	EL5225IRZ	439
5227	AD5227BUJZ100-R2	433
5227	AD5227BUJZ10-R2	433
5227	AD5227BUJZ50-R2	433
52277	MCF52277CVM160	215
5228	AD5228BUJZ50-R2	433
5228	AD5228BUJZ10-R2	433
5228	AD5228BUJZ100-R2	433
5231	ADS5231IPAGG4	284
5231	AD5231BRUZ100	433
5231	AD5231BRUZ10	435
5232	MCF5232CVM150	216
5232	MCF5232CAB80	213
5232	ADS5232IPAGG4	284
5235	AD5235BRUZ250	433
5235	AD5235BRUZ25	433
5235	MIC5235YM5 TR	566
524	AD524BD	336
524	AD524CD	336
524	AD524AD	336
5240	ADUM5240ARZ	457
5241	AD5241BRZ100	433
5241	AD5241BRZ10	433
5241	AD5241BRZ1M	433
5241	ADUM5241ARZ	457
5242	ADUM5242ARZ	457
5242	AD5242BRZ10	433
5242	AD5242BRZ1M	433
5242	AD5242BRZ100	433
5243	AD5243BRMZ100	433
5245	AD5245BRJZ10-R2	435
5249	MCF5249LAG120	216
5249	MCF5249VM140	216
525	MAX525BCAP+	299
525	MAX525ACAP+	299
5250	MAX5250BCAP+	299
5252	AD5252BRUZ100	433
5252	AD5252BRUZ50	433
5252	AD5252BRUZ10	433
5252	AD5252BRUZ1	433
5253	MCF5253VM140	213
5253	AD5253BRUZ50	433
5253	AD5253BRUZ100	433
5253	AD5253BRUZ10	433
5253	AD5253BRUZ1	433
5254	AD5254BRUZ50	433
5254	AD5254BRUZ1	433
5254	AD5254BRUZ10	433
5254	AD5254BRUZ100	433
52543	MGA-52543-BLKG	357
5255	MIC5255-2.5YM5 TR	553
5255	MIC5255-3.3YM5 TR	556
5255	AD5255BRUZ25	433
5255	AD5255BRUZ250	433
5258	MAX5258EEE+	299
5258	AD5258BRMZ1	433
5258	AD5258BRMZ50	433
5258	AD5258BRMZ10	433
5258	LMS5258MF-1.2	551
5258	MIC5258-1.2YM5 TR	550
5258	AD5258BRMZ100	433
5259	AD5259BRMZ50	433
5259	AD5259BRMZ100	433
5259	AD5259BRMZ5	433
5259	MAX5259EEE+	299
5259	AD5259BRMZ10	433
526	AD526AD	338
526	SP526CF-L	454
526	MAX526CCWG+	299
526	ADG526AKNZ	341
526	AD526JNZ	338
5260	AD5260BRUZ200	433
5260	CA5260MZ	316
5260	AD5260BRUZ20	433
5261	TAS5261DKD	535
5262	AD5262BRUZ200	433
5263	AD5263BRUZ200	433
5263	AD5263BRUZ50	433
5265	MIC5265-2.5YD5 TR	553
5265	MIC5265-3.3YD5 TR	556
5268	MIC5268-1.2YM5 TR	550
527	MAX527DCWG+	299
5270	MCF5270AB100	213
5270	MCF5270CVM150	216
5270	MCF5270VM100	216
5270	ADS5270IPFP	284
5271	MCF5271CVM100	216
5271	ADS5271IPFP	284
5271	MCF5271CVM150	216
5271	MCF5271CAB100	213
5272	MCF5272VM66	216
5272	MCF5272VM66R2	216
5272	MCF5272CVM66	216
5274	MCF5274VM166	216
5275	MCF5275CVM166	213
5275	MCF5275LCVM166	216
528	ADG528AKNZ	340
528	MAX528CPP+	299
5280	MCF5280CVM66	216
5280	AD5280BRUZ20	433
5282	MCF5282CVM66	216
5282	AD5282BRUZ200	433
5290	AD5290YRMZ10	433
5290	AD5290YRMZ100	433
5290	AD5290YRMZ50	433
53	CS53L21-CNZ	302
53	VIPER53DIP-E	469
530	ZSM530GTA	255
5300	AD5300BRMZ	292
5300	AD5300BRTZ-500RL7	292
5301	SP5301CN-L	455
5301	SP5301CY-L	455
5301	AD5301BRMZ	292
5302	AD5302ARMZ	292
5304	NCP5304PG	467
5304	NCP5304DR2G	467
5304	AD5304BRMZ	292
5305	AD5305BRMZ	292
5306	AD5306BRUZ	292
5307	MCF5307AI90B	216
5307	MCF5307AI66B	216
5308	AD5308BRUZ	292
531	ADSP-BF531SBBCZ400	247
531	LPV531MK	328
531	ADSP-BF531SBSTZ400	247
531	MAX531AESD+	299
531	MAX531BCSD+	294
531	MAX531ACSD+	299
5310	EN5310DC	504

Index by Type for Semiconductor ICs

	Mftrs. List No.	Page
5310	AD5310BRMZ	293
5311	AD5311BRMZ	293
5311	DAC5311IDCKT	292
5312	AD5312BRMZ	293
5314	AD5314BRMZ	293
5315	AD5315BRMZ	293
5316	AD5316BRUZ	293
5317	AD5317BRUZ	293
532	MAX532BCWE+	299
532	MAX532ACWE+	294
532	AD532JD	341
532	ADSP-BF532SBSTZ400	247
532	ADSP-BF532SBBCZ400	247
532	MAX532BCPE+	294
5320	AD5320BRMZ	294
5320	AD5320BRTZ-500RL7.	298
5321	AD5321BRMZ	294
5322	ADL5322ACPZ	355
5322	AD5322BRMZ	294
5323	ADL5323ACPZ	355
5324	AD5324BRMZ	294
5325	AD5325BRMZ	294
5327	AD5327BRUZ	294
5328	AD5328ARUZ	295
5328	MCF5328CVM240	216
5328	AD5328BRUZ	295
5329	MCF5329CVM240	216
533	ADSP-BF533SBBZ500	247
533	ADSP-BF533SBBCZ500	247
5330	AD5330BRUZ	292
5330	FAN5330SX	443
5330	CS5330A-KSZ	289
5330	EN5330DC	504
5331	AD5331BRUZ	293
5332	FAN5332ASX	443
5332	AD5332BRUZ	292
5333	AD5333BRUZ	293
5333	FAN5333ASX	443
5333	FAN5333BSX	443
5334	AD5334BRUZ	292
5336	AD5336BRUZ	293
5336	FAN5336MPX	486
5338	AD5338ARMZ	293
5339	AD5339ARM	295
534	MAX534AEEE+	291
534	AD534LD	341
534	AD534KD	341
534	ADSP-BF534BBCZ-4B	247
534	AD534JD	341
534	AD534JH	341
5340	CS5340-CZZ	302
5340	AD5340BRUZ	295
5341	CS5341-CZZ	302
5341	AD5341BRUZ	295
5342	CS5342-CZZ	302
5343	AD5343BRUZ	295
5343	CS5343-CZZ	302
5344	CS5344-CZZ	302
5344	AD5344BRUZ	295
5346	AD5346BRUZ	292
5347	AD5347BRUZ	293
535	ADSP-BF535PBBZ-200	247
535	DG535DJ-E3	341
5350	FAN5350MPX	486
5351	CS5351-KSZ	302
5351	CS5351-KZZ	302
536	MAX536BCWE+	299
536	ADSP-BF536BBCZ-3A	247
536	AD536AJH	437
536	AD536AJD	437
5360	EN5360DC	504
5360	AD5360BCPZ	298
5360	CS5360-BS	289
5361	CS5361-KZZ	302
5361	CS5361-KSZ	302
5361	AD5361BSTZ	287
5361	AD5361BCPZ	287
5362	AD5362BSTZ	287
5362	AD5362BCPZ	287
5363	AD5363BCPZ	297
5366	CS5366-CQZ	302
5368	CS5368-CQZ	574
5368	CS5368-CQZ	302
537	ADSP-BF537BBCZ-5A	247
5370	AD5370BCPZ	298
5372	AD5372BSTZ	298
5373	MCF5373LCVM240	216
5374	ADL5374ACPZ-R7	355
5378	AD5378ABCZ	297
538	DG538ADJ-E3	340
538	MAX538BCPA+	299
538	AD538AD	341
538	MAX538BCSA+	299
538	MAX538BESA+	299
5381	CS5381-KSZ	302
5381	CS5381-KZZ	302
5382	AD5382BSTZ-5	297
5383	AD5383BSTZ-5	295
5387	ADL5387ACPZ-WP	355
539	MAX539BCPA+	299
539	MAX539BCSA+	299
5390	AD5390BSTZ-5	297
5390	AD5390BSTZ-3	297
5390	AD5390BSTZ-5	573
5390	ADL5390ACPZ	355
5391	AD5391BSTZ-5	295
5391	AD5391BSTZ-3	295
5391	AD5391BCPZ-5	295
5391	AD5391BSTZ-5	573
54	TC54VN4302EZB	469
54	TC54VN2702EZB	469
54	TC54VN2702ECB713	469
54	TC54VC2702ECB713	255
54	TC54VN3002ECB713	255
54	TL054ACD	327
540	TLC540IN	280
54000	ISL54000IRTZ	531
54001	ISL54001IRTZ	531
54002	ISL54002IRTZ	531
54003	ISL54003IRTZ	531
54004	ISL54004IRTZ	531
54005	ISL54005IRTZ	531
54006	ISL54006IRTZ	531
5401	PT5401A.	486
5401	PT5401A	486
54010	TPS54010PWP	490
5402	MAX5402EUA+	435
5405	AD5405YCPZ	295
54050	ISL54050IRUZ-T	343
54056	ISL54056IRUZ-T	343
5406	BA5406	537
5407	MCF5407CAI220	217
5407	MCF5407CAI162	216
5407	MCF5407AI220	216
5407	MCF5407AI162	216
541	TLC541IFNG3	280
541	DG541DJ-E3	344
541	TLC541INE4	280
541	OPA541AP	306
541	OPA541SM	306
541	OPA541AM	306
541	OPA541BM	306
541	TLC541IDW	280
5410	TPS5410DG4	486
54110	TPS54110PWPG4	490
5413	MAX5413EUD+	435
5414	TAS5414TDKDQ1G4	535
5415	AD5415YRUZ	295
5417	BA5417	537
5419	CAT5419YI-10	435
542	TLC542CDWG4	280
542	MAX542CCSD+	297
542	TLC542INE4	280
542	DG542DJ-E3	342
5420	TPS5420DG4	486
5420	TPS5420D	547
54200	ISL54200IRZ	341
54206	ISL54206AIRTZ	343
5421	BD5421EFS-E2	537
5424	ADS5424IPJYG4	286
5424	AD5424YCPZ	292
5424	AD5424YRUZ	292
5426	AD5426YRMZ	292
5428	AD5428YRUZ	292
54283	TPS54283PWPG4	492
54286	TPS54286PWPG4	492
5429	AD5429YRUZ	292
543	MAX543BCPA+	299
5430	TPS5430DDAG4	486
5431	TPS5431DDAG4	486
54310	TPS54310PWPG4	259
54310	TPS54310PWP	490
54312	TPS54312PWP	490
54314	TPS54314PWP	490
54315	TPS54315PWP..	490
54316	TPS54316PWP	490
5433	AD5433YRUZ	293
5433	AD5433YCP	293
5433	ADS5433IPJYG3	286
54331	TPS54331D	547
54350	TPS54350PWPG4	490
54352	TPS54352PWPG4	490
54355	TPS54355PWPG4	490
54356	TPS54356PWPG4	490
54357	TPS54357PWPG4	490
54383	TPS54383PWPG4	492
54386	TPS54386PWPG4	492
5439	AD5439YRUZ	293
544	OPA544T.	325
5440	AD5440YRUZ	293
5441	AD5441BRMZ	295
5443	AD5443YRMZ	295
5444	AD5444YRMZ	295
5445	AD5445YRUZ	295
5445	AD5452YRMZ	295
5446	AD5446YRMZ	297
5447	AD5447YRUZ	295
5449	AD5449YRUZ	295
5450	MM5450YN	443
5450	MM5450YV	443
5450	TPS5450DDA	486
5451	CS5451A-ISZ	302
5452	MM5452N	439
5452	MM5452V	439
5453	MM5453N/NOPB	439
5453	MM5453N	571
5453	MM5453N	439
54550	TPS54550PWP	466
5460	CS5460A-BSZ	464
5461	CS5461A-ISZ	503
54610	TPS54610PWP	490
54612	TPS54612PWP	490
54613	TPS54613PWPG4	490
54614	TPS54614PWP	490
54615	TPS54615PWPG4	490
54616	TPS54616PWPG4	490
5463	ADS5463IPFPG4	284
5463	CS5463-ISZ	516
5464	CS5464-ISZ	516
5466	CS5466-ISZ	503
5467	CS5467-ISZ	516
547	OPA547FKTWT..	306
547	OPA547T	333
547	MAX547BCQH+D	299
547	OPA547F/500G3	306
547	OPA547T	306
5472	MCF5472VR200	217
5475	MCF5475VR266	217
5478	MAX5478EUD+	435
548	TLC548CP	280
548	AD548JRZ	325
548	AD548KNZ	325
548	OPA548T	306
548	OPA548TG3	306
548	TLC548CD	280
548	OPA548FKTWTG3	306
5481	MAX5481EUD+	436
5481	M5481B7	443
5482	MAX5482EUD+	436
5482	M5482B7	443
5483	MM5483N/NOPB	439
5483	MAX5483EUD+	436
5484	MAX5484EUD+	436
549	AD549KHZ	306
549	AD549LH	338
549	TLC549IDG4	280
549	OPA549T	306
549	AD549JH	338
549	OPA549SG3	306
549	TLC549IP	280
549	TLC549CD	280
549	TLC549CP	280
550	MAX550ACUA+	299
5500	ADL5500ACBZ-P2	355
5500	MPX5500DP	510
5500	ADS5500IPAP.	287
5500	ADS5500IPAPG4	573
55001	ISL55001IBZ	311
55002	ISL55002IBZ	311
55004	ISL55004IBZ	311
55005	ISL55005IEZ	332
55007	ISL55007IEZ	332
55008	ISL55008IEZ	332
55009	ISL55009IEZ	332
5501	CS5501-BSZ	287
55010	ISL55010IEZ	332
55011	ISL55011IEZ	332
5502	LT5502EGN#PBF	355
5503	LT5503EFE#PBF	355
5505	LTC5505-2ES5#PBF	355
5505	CS5505-ASZ	287
5505	LTC5505-1ES5#PBF	355
5506	CS5506-BSZ	289
5506	LT5506EUF#PBF	355
5507	LTC5507ES6#PBF	355
5507	CS5507-ASZ	287
5508	LTC5508ESC6#PBF	355
5508	CS5508-BSZ	302
5509	CS5509-ASZ	302
551	TLC551CD	527
551	OPA551PAG4	306
551	OPA551FAKTWTG3	306
551	TLC551CP	527
551	OPA551UA	306
551	LMV551MF	306
5511	CS5511-ASZ	287
5511	LT5511EFE#PBF	355
55110	ISL55110IVZ	466
5512	LT5512EUF#PBF	355
5513	MAX5513EUA+	299
5514	LT5514EFE#PBF	309
55141	ISL55141IVZ	431
5515	MAX5515ETC+	299
5515	LT5515EUF#PBF	355
5516	LT5516EUF#PBF	355
5516	CS5516-ASZ	302
5517	LT5517EUF#PBF	355
5519	LT5519EUF#PBF	355
552	LMV552MM	313
552	OPA552PA	306
552	OPA552UA	306
5520	LT5520EUF#PBF	355
5520	CS5520-BSZ	302
5521	CS5521-ASZ	302
5521	LT5521EUF#PBF	355
5522	ADS5522IPAPG4	284
5522	ADS5522IPAPG4	573
5522	LT5522EUF#PBF	355
5522	CS5522-ASZ	302
5523	CS5523-ASZ	302
5524	LT5524EFE#PBF	309
5524	CS5524-ASZ	302
5525	MAX5525ETC+	299
5525	LT5525EUF#PBF	355
5525	CS5525-ASZ	302
5526	LT5526EUF#PBF	355
5526	LP5526TL	443
5526	CS5526-BSZ	302
5527	LT5527EUF#PBF	355
5527	LP5527TL	443
5528	CS5528-ASZ	302
5528	LT5528EUF#PBF	355
5529	CS5529-ASZ	302
5530	ADL5530ACPZ	355
5530	CS5530-ISZ	302
5530	LTC5530ES6#PBF	355
5530	AD5530BRUZ	295
5531	LTC5531ES6#PBF	355
5531	ADL5531ACPZ-R7	355
5531	CS5531-ASZ	302
5531	AD5531BRUZ	297
5532	NE5532AD	316
5532	CS5532-ASZ	302
5532	NE5532D	316
5532	KA5532	316
5532	CS5532-BSZ	302
5532	LTC5532ES6#PBF	355
5532	NE5532AD8G	322
5532	NE532ANG	322
5532	SA5532NG	322
5532	SE5532AD8G	322
5532	SE5532NG	322
5532	NE5532P	316
5532	NE5532AP	316
5532	AD5532ABCZ-1	297
5532	AD5532ABCZ-3	297
5532	AD5532ABCZ-5	297
5533	LTC5533EDE#PBF	355
5533	CS5533-ASZ	302
5534	NE5534DG	322
5534	NE5534ANG	322
5534	NE5534NG	322
5534	NE5534P	309
5534	NE5534AP	309
5534	NE5534ADG	322
5534	SA5534ADG	322
5534	SA5534ANG	322
5534	SE5534ANG	322
5534	LT5534ESC6#PBF	355
5534	CS5534-ASZ	302
5534	CS5534-BSZ	302
5534	NE5534AD	309
5534	NE5534D	309
5535	MAX5535ETC+	299
5535	TLV5535IPW	280
5535	LTC5535ES6#PBF	356
5536	TPS55386PWP	486
5536	LTC5536ES6#PBF	356
5538	TPS55383PWP	486
5540	TLC5540INS	280
5540	TLC5540INS.	280
5541	MAX5541CSA+	298
5542	AD5542CRZ	298
5542	AD5542LRZ	298
5542	ADS5542IPAPG4	573
5543	AD5543BRZ	298
5544	MAX5544CSA+	286
5544	MAX5544ESA+	286
5545	ADS5545IRGZTG4	286
5546	AD5546BRUZ	298
5546	LT5546EUF#PBF	356
5546	ADS5546IRGZTG4	286
5547	ADS5547IRGZTG4	286
5547	AD5547BRUZ	298
5548	MAX5548ETE+	292
555	LM555CN/NOPB	527
555	TS555CN	528
555	SA555PG4	528
555	SA555D	528
555	LMC555CN	528
555	NE555D	528
555	NE555P	528
555	LM555CN	528
555	TLC555ID	527
555	KA555D.	528
555	TLC555CP	528
555	MPC555LFMVR40	217
555	TLC555CD	528
555	TLC555IP	528
555	TLC555CDR	528
555	LMC555CM	528
555	SE555P.	527
555	TLC555IDG4	528
555	LM555CMM/NOPB	527
555	LMC555CMM	528
5550	CS5550-ISZ	302
5550	LP5550SQ	486
5551	AD5551BRZ	297
5553	AD5553CRMZ	297
5553	ADS5553IPFPG4	286
5554	AD5554BRSZ	297
5556	MAX5556ESA+	300
5557	LT5557EUF#PBF	356
5558	LT5558EUF#PBF	356
556	TLC556CN	528
556	TLC556CD	528

Index by Type for Semiconductor ICs

	Mftrs. List No.	Page
556	NE556NG4	528
556	TS556IN	528
556	TLC556IN	528
556	TS556CN	528
556	LM556CN	528
556	LM556CM	528
556	TS556CN.	528
556	NE556N	528
556	TLC556IDG4	528
556	NE556D	528
5560	LT5560EDD#PBF	356
5566	CS5566-ISZ	289
5568	LT5568EUF#PBF	356
557	AD557JNZ	291
557	AD557JNZ	570
5570	AD5570WRSZ	298
5571	DAC5571IDBVTG4	292
5571	LT5571EUF#PBF	356
5571	CS5571-ISZ	302
5572	LT5572EUF#PBF	356
5574	LM5574MT	486
5575	LM5575MH	486
5575	LT5575EUF#PBF	356
5576	LM5576MH	486
558	AD558JNZ	570
558	AD558KNZ	291
558	AD558JNZ	291
5581	CS5581-ISZ	287
5582	AD5582YRVZ	295
5583	AD5583YRVZ	293
55851	SY55851AUKG	87
55857	SY55857LKG	87
55858	SY55858UHG	87
55858	SY55858UHG	575
56	MC56F8145VFGE	210
56	MC56F8013VFAE	210
56	MC56F8014VFAE	210
56	LM56CIM.	522
56	MC56F8367MPYE	211
56	PCM56P	299
56	MC56F8356MFVE	210
56	MC56F8355MFGE	210
56	MC56F8323MFBE	210
56	MC56F8123VFBE	210
56	MC56F8323VFBE	210
56	DSP56F802TA60E	210
56	LM56BIMM	522
56	MC56F8013VFAE	574
56	MC56F8323VFBE	574
56	DSP56F801FA80E	210
56	MC56F8322MFAE	210
56	LM56BIM	522
56	LM56CIM	522
56	MC56F8366MFVE	211
56	MC56F8366VFVE	211
56	SA56EX	324
56	MC56F8365VFGE	211
56	MC56F8357VPYE	211
56	MC56F8346VFVE	210
56	MC56F8335VFGE	210
560	ZSM560GTA	255
5601	FAN5601MP18X	486
5601	FAN5601MP13X	486
5601	UC5601DWPG4	410
5601	AD5601BKSZ-500RL7	292
5603	NCP5603MNR2G	441
5604	TLV5604CD	293
5604	NCP5604AMTR2G	440
5604	TLV5604IPW.	293
5604	NCP5604BMTR2G	440
5606	TLV5606ID	293
5606	TLV5606CD.	293
5607	FAN5607HMPX	439
5608	TLV5608IDW	293
5608	NCP5608MTR2G	440
561	ADCMP561BRQZ	430
561	ADSP-BF561SBBZ600	247
561	OPA561PWPG4	306
5610	ISPPAC-CLK5610AV-01TN48I	103
5610	FAN5610MPX	439
5610	TLV5610IDW	295
5611	FAN5611MPX	443
5611	FAN5611S7X	439
5611	AD5611AKSZ-500RL7	293
5612	NCP5612MUTBG	443
5612	FAN5612S7X	439
5613	FAN5613MPX	439
5614	TLV5614CD	295
5614	TLV5614ID	295
5614	FAN5614S7X	439
5615	TLC5615IDG4	293
5615	TLC5615IP	293
5615	TLC5615CDG4	293
5615	TLC5615CP	293
5616	TLV5616CP	295
5616	FAN5616MPX	439
5616	TLV5616CDG4	284
5617	FAN5617MPX	443
5617	TLV5617ACD.	293
5617	TLV5617AID	293
5618	TLV5618AID	295
5618	TLV5618AIP	295
5619	TLV5619CDW.	295
5619	TLV5619CPW	295
5619	TLV5619IPW..	295
5619	TLV5619IDW	295
562	ADCMP562BRQZ	430
562	LNK562PN	502
562	LNK562GN	502
5620	TLC5620CN	292
5620	TLC5620CD	292
5620	TLV5620ID	292
5620	ISPPAC-CLK5620AV-01TN100C	103
5620	AD5620CRMZ-2	295
5620	TLC5620IN	292
5620	ISPPAC-CLK5620AV-01TN100I	103
5620	TLV5620CD	292
5620	TLV5620CN	292
5621	TLV5621ID	292
5621	AD5621AKSZ-500RL7	295
5623	AD5623RBRMZ-3	295
5623	AD5623RBRMZ-5	295
5623	TLV5623ID	292
5624	AD5624BRMZ.	295
5624	AD5624RBRMZ-3	295
5624	AD5624RBRMZ-5	295
5624	AD5624BRMZ	295
5625	AD5625BRUZ	295
5625	AD5625RBRUZ-2	295
5625	TLV5625CDG4	292
5625	TLV5625ID	292
5626	TLV5626ID	292
5626	AD5626BRMZ	295
5627	AD5627BRMZ	295
5627	AD5627RBRMZ-2	295
5628	AD5628BRUZ-2	295
5628	TLV5628CDW	292
5628	TLC5628CDWG4	292
5628	TLC5628CN	292
563	ADCMP563BRQZ	430
563	LNK563PN	502
563	LNK563GN	502
5630	UCC5630AMWPTRG4	410
5630	TLV5630IDW	295
5630	TLV5630IPWG4	295
5631	TLV5631IDW	293
5632	FAN5632MPX	486
56321	DSP56321VL275	252
5636	TLV5636ID	295
5637	TLV5637ID	293
5637	TLV5637CD	293
56371	DSPB56371AF180	250
5638	TLV5638ID	295
5638	TLV5638CD	295
564	LNK564PN	502
564	ADCMP564BRQZ	430
5641	AD5641AKSZ-500RL7	297
5641	THS5641AIDWG4	292
5642	LM5642MH/NOPB	486
5642	LM5642MTC	535
5642	LM5642XMT	486
5643	AD5643RBRMZ-5	297
5643	AD5643RBRMZ-3	297
5644	AD5644RBRMZ-5	297
5644	AD5644RBRMZ-3	297
5645	AD5645RBRUZ	298
5647	AD5647RBRMZ	298
5648	AD5648ARUZ-2	297
565	NCP565MNADJT2G	546
565	LM565CN	354
565	FSDM0565REWDTU	503
565	NCP565MN33T2G	558
565	NCP565MN12T2G	551
565	NCP565D2T33G	558
565	NCP565D2TG	549
565	NCP565D2T12G	549
566	NCP566ST18T3G	549
566	ADCMP566BCPZ	430
566	NCP566ST12T3G	549
5660	HI5660IBZ	292
5660	HI5660IB	292
5661	NCP5661MN12T2G	551
5661	NCP5661MN33T2G	558
5661	MAX5661GCB+	298
5662	AD5662ARMZ-1	298
5662	AD5662BRMZ-1	298
5662	NCP5662DS12R4G	549
5662	NCP5662DS18R4G	549
5662	NCP5662DS30R4G	549
5663	NCP5663DS15R4G	549
5663	AD5663ARMZ	298
5663	AD5663BRMZ	298
5663	AD5663BRMZ-1	298
5663	AD5663RBRMZ-3	298
5663	AD5663RBRMZ-5	298
5664	AD5664ARMZ	298
5664	AD5664BRMZ	298
5664	AD5664RBRMZ-3	298
5664	AD5664RBRMZ-5	298
5665	AD5665RBRUZ-2	298
5665	AD5665BRUZ	298
5665	FAN5665UCX	486
5666	AD5666BRUZ-1	298
5666	AD5666BRUZ-2	298
5667	AD5667BRMZ	298
5667	AD5667RBRMZ-2	298
5668	AD5668ARUZ-2	298
567	LMC567CM/NOPB	532
567	ADCMP567BCPZ	430
567	LMC567CN	532
567	LM567CN	532
5672	DAC5672IPFBG4	297
5678	AD5678BRUZ-2	298
5678	AD5678BRUZ-1	298
56858	DSP56858FVE	209
5687	DAC5687IPZPG4	298
569	AD569JNZ	297
569	OPA569AIDWPG4	306
57	SA57-IHZ	338
57	SA57A-FHZ	338
570	EPM570T100C5N	574
570	EPM570ZM144C7N	91
570	EPM570ZM144C6N	91
570	EPM570ZM100C6N	91
570	EPM570T100C4N	91
570	NE570DG	358
570	EPM570ZM256C7N	91
570	EPM570F256C5N	91
570	EPM570F256C4N	91
570	EPM570ZM256C6N	91
570	EPM570ZM100C7N	91
570	EPM570T100C5N	91
5700	MPX5700AP	510
5700	MPX5700D	510
5700	MPX5700DP	510
5700	MPX5700GP	510
5700	MPX5700GS	510
5700	MPX5700A	510
5700	MPX5700AS	510
5706	TAS5706PAP	535
571	TLV571IDW	280
571	SA571DG	358
572	SA572NG	358
574	AD574AKNZ	282
574	AD574AJNZ	282
574	AD574AKD	283
574	AD574AJNZ	570
574	HI3-574AJN-5Z	283
574	ADS574JE	283
574	ADS574KPG4	283
5742	MAX5742AUB+	299
5742	MAX5742EUB+	299
5760	HI5760BIBZ	293
5760	HI5760BIB	293
5764	AD5764CSUZ	298
5767	HI5767/6CBZ	281
5767	HI5767/6CB	281
5780	AU5780AD,112	410
579	RPI-579N1	518
5790	AU5790D,118	427
5790	AU5790D14	427
58	HN58C256AP85E	110
58	PB58A	324
58	PB58	324
58	HN58C256AFP10-E	110
580	AD580JH	538
5800	MIC5800YN	529
5801	MIC5801YN	529
5801	A6801SA-T	529
581	AD581JH	541
5810	NCP5810DMUTXG	443
5812	HI5812JIPZ	284
5820	MAX5820LEUA+	299
5821	MIC5821YN	445
5821	A6821SA-T	529
584	AD584KNZ	541
584	AD581KH	541
584	AD584JNZ	541
5841	A6841SA-T	529
5841	MIC5841YWM	445
5842	MIC5842YN	445
585	AD585AQ	337
5853	MAX5853ETL+	299
586	AD586KNZ	540
586	AD586JRZ	540
586	AD586JNZ	540
586	AD586MNZ	540
587	AD587JNZ	541
587	AD587JRZ	541
5873	MAX5873EGK+D	295
588	AD588JQ	541
5891	MAX5891EGK+D	298
5891	MIC5891YN	445
590	AD590KF	523
590	AD590JF	523
590	AD590MF	523
590	AD590JH	523
590	AD590LH	523
590	AD590MH	523
5900	LP5900TL-2.5/NOPB	553
5900	LP5900TL-3.0/NOPB	555
5900	LP5900TL-3.3/NOPB	556
5900	LP5900SD-3.3	556
5900	LP5900TL-1.8	552
5900	LP5900SD-3.0	555
5900	LP5900SD-2.8	555
5900	LP5900SD-1.5	551
5900	LP5900SD-2.5	553
5900	LP5900SD-2.2	553
5900	LP5900SD-2.0	553
5900	LP5900SD-1.8	551
5900	LP5900TL-1.9	486
591	DRV591VFP..	470
591	DRV591VFP	470
5911	TLC59116IPWR	443
59111	ISL59111IIZ	332
5916	TLC5916IN	443
592	AD592CNZ	523
592	AD592ANZ	523
592	NE592D14G	537
592	NE592D8G	537
592	NE592N14G	537
592	NE592N8G	537
5920	TLC5920DLG4	443
5921	TLC5921DAPG4	443
5922	TLC5922DAPG4	443
5923	TLC5923DAP	443
5923	TLC5923RHBT	443
5923	TLC5923DAPG4	443
5924	TLC5924RHBT	443
593	DRV593VFPR.	470
593	DRV593VFPR	470
5930	AD5930YRUZ	437
5932	AD5932YRUZ	437
5933	AD5933YRSZ	519
5934	AD5934YRSZ	284
594	AD594AQ	523
594	TL594CN	470
594	TL594IN..	470
594	TL594CD	470
594	TL594CPW	470
594	TL594CDE4	470
5940	TLC5940NTG4	443
5941	TLC5941PWPG4	443
5942	TLC5942PWP	443
5944	TLC5944RHBT	444
5944	TLC5944PWPR	444
59446	ISL59446IRZ	339
59448	ISL59448IAZ	339
5945	TLC5945PWP	444
5946	MAX5946AETX+	421
5946	TLC5946RHBT	444
595	AD595AD	523
595	AD595CQ	523
595	AD595AQ	523
5951	LP5951MG-1.3.	556
5951	LP5951MG-1.8	552
5951	LP5951MG-2.5	553
5951	LP5951MG-2.8	554
5951	LP5951MF-3.3	556
5951	LP5951MF-3.0	555
5951	LP5951MF-2.8	555
5951	LP5951MF-2.5	553
5951	LP5951MF-2.0	553
5951	LP5951MF-1.3	551
5951	LP5951MF-1.8	551
5951	LP5951MF-1.5	551
5952	LP5952TL-1.4	551
5952	LP5952TL-1.2	550
5952	LP5952TL-1.6	551
5952	LP5952TL-1.8	552
5952	LP5952TL-2.0	553
5952	LP5952TL-0.7	550
5954	MAX5954AETX+	421
5957	MAX5957AETN+	421
5957	CLC5957MTD	291
5958	MAX5958AETN+	421
5959	MAX5959AECS+	421
596	AD596AHZ	524
5960	HI5960IBZ	297
5960	MAX5960LECS+	421
5961	MAX5961ETM+	258
597	AD597ARZ	524
597	AD597AHZ	524
5970	E-L5970D	486
5972	E-L5972D	486
5973	E-L5973D	486
5973	E-L5973AD	486
598	TL598CN	470
598	TL598CD.	470
598	AD598AD	518
598	AD598JRZ	518
5990	LP5990TM-2.8	554
5996	LP5996SD-0833	565
5996	LP5996SD-3333	565
5996	LP5996SD-3308	565
5996	LP5996SD-3033	565
5996	LP5996SD-3030	565
5996	LP5996SD-2828	565
5996	LP5996SD-1525	565
6	MCP6S22DM-PICTL	331
6	MCP6S92-E/SN	335
6	MCP6S93-E/UN	335
6	MCP6S26-I/SL	335
6	MCP6S21-I/P	338
6	MCP6S22-I/SN	338
6	MCP6S28-I/P	338
6	LFXP6C-5QN208C	100
6	LFXP6C-5TN144C	100
6	LFXP6E-5QN208C	100
6	LFXP6E-5TN144C	100
6	LFEC6E-5TN144C	100
6	LFEC6E-5QN208C	100
6	LFECP6E-5QN208C	100
6	LFECP6E-5TN144C	100
6	MCP6S92-E/P	335

Index by Type for Semiconductor ICs

Mftrs. List No.	Page
6 MCP6S91-E/SN	335
6 MCP6S91-E/P	335
6 MCP6S91-E/MS	335
6 MCP6V08-E/SN	304
6 MCP6V07-E/SN	312
6 MCP6V06-E/SN	304
6 MCP6V03-E/SN	304
6 USBLC6-2SC6	410
6 MCP6V02-E/SN	312
6 MCP6V01-E/SN	304
6 TPIC6C596PWR	255
6 TPIC6A259DWG4	255
6 MCP6S92T-E/MS	329
6 TPD6E001RSFR	518
6 TPIC6B595N	255
6 B6TS-08NF-003 DEFAULT	515
6 B6TW-S04LT	515
6 B6TW-S08NF	515
6 B6TS-04LT-002 DEFAULT	515
6 MCP6S2XEV	338
6 MCP6S28-I/SL	338
6 MCP6S22-I/P	338
6 MCP6S21-I/SN	338
6 MCP6G04-E/SL	330
6 MCP6G02-E/SN	329
6 CLC006AJE.	532
6 MCP6G01T-E/SN	328
6 MCP6G01T-E/OT	328
6 SW06GPZ	343
6 A6B595KLW-T	458
6 NB6N11SMNG	345
60 LF60CV	562
60 LF60CDT	562
60 PA60EU	324
60 DS60R+	522
60 LM60BIM3	522
60 LM60CIZ	522
60 LM60BIZ	522
60 LM60CIM3	522
600 DS600U+	525
600 ADCMP600BRJZ-R2	428
600 AD600JNZ	532
600 MICRF506DEV1	402
600 MICRF600Z	354
6000 LT6000IDCB#PBF	310
60002 ISL60002BIH311Z	492
60002 ISL60002DIH312Z	492
60002 ISL60002BIH318Z	492
60002 ISL60002CAH333Z	492
6001 MCP6001UT-I/OT	328
6001 MCP6001T-I/OT	328
6001 MCP6001T-I/LT	328
6001 MCP6001RT-I/OT	328
6001 LT6001IMS8#PBF	316
6001 MCP6001T-E/OT	328
6002 MCP6002-I/MS	330
6002 MCP6002-I/P	316
6002 MCP6002-I/SN	321
6002 THS6002IDWP	451
6002 MAX6002EUR+T	553
6002 MAX6002EUR+	539
6002 LT6002IGN#PBF	321
6002 MCP6002-E/P	330
6002 MCP6002-E/SN	330
6003 LT6003IS5#PBF	310
6004 HIP6004ECBZ	486
6004 MCP6004-I/P.	321
6004 MCP6004-I/SL.	321
6004 LT6004IMS8#PBF	310
6004 MCP6004-E/P	331
6004 HIP6004BCBZ	486
6004 MCP6004-E/SL	331
6004 MAX6004EUR+	540
6004 MCP6004T-I/SL	321
6004 MCP6004-I/ST	331
6005 LT6005IGN#PBF	310
601 ADG601BRTZ-REEL7	341
601 ADG601BRMZ	344
601 MCP601-I/P	328
601 ADCMP601BKSZ-R2	428
601 MCP601T-I/OT	328
601 MCP601-I/SN	328
601 DRV601RTJT	532
6010 LT6010ACS8#PBF	310
6010 LT6010CS8#PBF	310
6011 LT6011CMS8#PBF	316
6011 LT6011ACS8#PBF	316
6011 LT6011CS8#PBF	316
60110 TPS60110PWPG4	490
6012 LT6012CS#PBF	321
6012 MAX6012AEUR+T	555
6012 LT6012ACS#PBF	321
6012 THS6012CDWP.	445
6012 THS6012CDWP	445
6012 PVX6012PBF	469
6013 LT6013ACS8#PBF	310
6013 LT6013CS8#PBF	310
60131 TPS60131PWPG4	490
6014 HT6014-18DIPLF	347
6014 LT6014ACS8#PBF	316
6014 LT6014CS8#PBF	316
6014 LT6014IS8#PBF	316
60140 TPS60140PWPG4	490
60160 QT60160-ISG	512
60161 QT60161B-ASG	575
60161 QT60161B-ASG	511
60168 QT60168-ASG	512
60168 QT60168-ASG	575
602 OPA602AUE4	325
602 SA602AD	354
602 ADCMP602BRMZ	428
602 MCP602-I/SN	329
602 ADG602BRMZ	344
602 SA602AN	354
602 OPA602BP	325
602 OPA602AP	306
60200 TPS60200DGSG4	490
6021 MCP6021T-E/OT	310
6021 MCP6021-I/SN	310
6021 MCP6021-E/SN	328
6021 MCP6021-E/P	328
6022 THS6022IPWP.	445
6022 THS6022CPWP..	445
6022 THS6022IPWP	445
6022 MCP6022-I/SN	316
6022 MCP6022-E/P	330
6022 MCP6022-E/SN	330
6022 MCP6022-I/P	330
6023 MCP6023-I/SN.	310
60230 TPS60230RGTTG4	444
60231 TPS60231RGTTG4	444
6024 MCP6024-I/SL	321
6024 MCP6024-I/P	321
6024 MCP6024-E/P	331
6024 MCP6041T-I/OT	328
6024 MCP6024-E/SL	331
60240 QT60240-ISG	512
60248 QT60248-ASG	512
60248 QT60248-ASG	575
60252 TPS60252RTET	444
6026 HT6026	357
6029 MAX6029ESA25+	538
603 AD603ARZ	338
603 AD603AQ	354
603 MCP603-I/SN	328
603 PKS603PN	502
603 ADCMP603BCPZ-R2	428
603 MCP603-I/P	328
6031 MCP6031-E/SN	310
6032 MCP6032-E/SN	316
60326 QT60326-ASG	575
60326 QT60326-ASG	511
6034 HT6034-18DIPLF	357
6034 MCP6034-E/SL	321
6034 LMC6034IM/NOPB	321
6035 LMC6035IM	330
6036 LMC6036IM	331
604 PKS604FN	502
604 MAX604CSA+	545
604 MAX604ESA+	545
604 PKS604YN	502
604 OPA604APG4	325
604 ADG604YRUZ	339
604 PKS604PN	502
604 AD604ANZ	338
604 OPA604AU	532
604 ADCMP604BKSZ-R2	428
604 SA604AD	354
604 MCP604-E/SL	330
604 AD604ARZ	338
604 MCP604-I/P	330
604 MCP604-I/SL	330
60400 TPS60400DBVT	490
60401 TPS60401DBVT	490
60402 TPS60402DBVT	490
6041 MCP6041-I/SN	328
6041 MCP6041-I/P	328
6042 LMC6042AIM	330
6042 MCP6042-I/SN	330
6042 LMC6042IM	316
6042 LMC6042IN	316
6042 MCP6042-I/P.	330
6043 MCP6043-I/P	310
6043 MCP6043-I/SN	310
6044 MCP6044-I/P	331
6044 LMC6044AIN/NOPB.	331
6044 MCP6044-I/SL	331
6044 LMC6044IN	321
6044 LMC6044IM	321
60486 QT60486-ASG	512
60486 QT60486-ASG	575
605 AD605ANZ	333
605 SA605D	354
605 ADCMP605BCPZ-R2	428
605 AD605BRZ	338
605 PKS605PN	502
605 PKS605YN	502
6054 BH6054GU-E2	445
6056 BH6056GU-E2	445
606 OPA606KPG4	325
606 MCP606T-I/OT	306
606 MCP606-I/SN	328
606 AD606JNZ	338
606 PKS606PN	502
606 PKS606YN	502
606 ADCMP606BKSZ-R2	428
606 PKS606FN	502
606 MCP606-I/P	328
6061 LMC6061AIM	328
6062 LMC6062IN	330
6062 BD6062GU-E2	445
6062 LMC6062AIM/NOPB	330
6062 LMC6062IM	330
6064 LMC6064IN	321
6064 LMC6064IM/NOPB	331
6066 BD6066GU-E2	445
6066 BD6066EKN-E2	445
6067 BD6067GU-E2	445
6069 BH6069GU-E2	445
607 PKS607YN	502
607 MCP607-I/SN	328
607 ADCMP607BCPZ-R2	428
607 AD607ARSZ	354
607 MCP607-I/P	329
6071 BD6071HFN-TR	445
6072 BD6072HFN-TR	445
6078 LTC6078HMS8#PBF	330
6078 LTC6078CMS8#PBF	330
6078 LTC6078AHMS8#PBF	330
6078 LTC6078IDD#PBF	316
6078 LTC6078IMS8#PBF	316
6078 LTC6078ACMS8#PBF	330
6079 LTC6079CDHC#PBF	321
6079 LTC6079CGN#PBF	331
6079 LTC6079IGN#PBF	321
608 MAX608ESA+	545
608 AD608ARZ	354
608 ADG608BRZ	340
608 ADG608BNZ	340
608 MCP608-I/SN	328
608 MAX608EPA	470
608 ADCMP608BKSZ-R2	428
6081 LTC6081IMS8#PBF	316
6081 LMC6081IN/NOPB	310
6081 LTC6081CDD#PBF	330
6081 LTC6081CMS8#PBF	330
6081 LTC6081HMS8#PBF	330
6081 LTC6081IDD#PBF	330
6081 LMC6081AIM	329
6081 BD6081GU-E2	445
6081 BD6081GVW-E2	445
6082 LMC6082IM	330
6082 LTC6082IGN#PBF	331
6082 LTC6082IDHC#PBF	331
6082 LMC6082AIM	330
6082 LTC6082HGN#PBF	331
6082 LTC6082CGN#PBF	331
6082 LTC6082CDHC#PBF	331
6082 LMC6082AIN	330
6084 LMC6084IM	331
6084 LMC6084AIM	321
609 ADG609BRZ	339
609 ADG609BNZ	339
609 MCP609-I/SL	319
609 ADCMP609BRMZ	428
609 MCP609-I/ST..	319
609 MCP609-I/P	330
61 XC61FC2712MR	255
61 XC61CN4502NR	255
61 IS61LV5128AL-10KLI	104
61 XC61CC4502MRN	469
61 XC61CN2702NR	255
61 XC61CC2002NRN	469
61 XC61CC2002MRN	469
61 XC61CC4502NRN	469
61 LM61BIM3/NOPB	522
61 XC61CN3002MRN	469
61 XC61CN3002NRN	469
61 XC61FC4512MR	255
61 IS61LV6416-10TLI	104
61 IS61LV25616AL-10TL	104
61 XC61FN4512MR	255
61 LM61BIZ/NOPB	522
61 XC61CN4502MRN	255
61 IS61LV256AL-10JLI	104
61 XC61FN2712MRN	255
61 XC61CN2002NR	255
61 XC61CC2702MR	255
61 IS61LV5128AL-10TLI	104
61 XC61CN2002MR	255
61 XC61CC3002NR	255
61 TL061IP	324
61 XC61CN2702MRN	255
61 IS61C256AL-12JLI	104
61 IS61LV51216-10TLI	105
61 LM61CIM3	522
61 LM61BIM3	522
61 XC61CC3002MR	255
61 XC61CC2702NR	255
610 MICRF610Z	354
610 IL610-3E	456
610 IL610-1E	456
610 IL610-2E	456
610 IL610A-1E	456
610 IL610A-2E	456
610 IL610A-3E	456
6100 LT6100CMS8#PBF	332
6100 LT6100IMS8#PBF	332
6100 LT6100HMS8#PBF	332
6100 TPA6100A2D	535
61000 TPS61000DGSG4	490
61006 TPS61006DGS	490
6101 LTC6101HVACS5#TRMPBF	332
6101 LTC6101HVAHMS8#PBF	332
6101 MPXH6101A6U/6T1	510
61010 TPS61010DGS	490
61010 TPS61010DGSG4	490
61016 TPS61016DGS	490
6102 LTC6102IMS#PBF	332
6102 LTC6102CMS8#PBF	332
6102 LTC6102HMS#PBF	332
6102 LTC6102HVIMS8#PBF	332
61020 TPS61020DRCRG4	490
61024 TPS61024DRCRG4	490
61026 TPS61026DRCTG4	490
61029 TPS61029DRCT	491
61029 TPS61029DRCTRG4	491
6103 LTC6103IMS8#PBF	332
61030 TPS61030RSARG4	491
61030 TPS61030PWPG4	491
61032 TPS61032PWPRG4	491
6104 LTC6104CMS8#PBF	332
6104 LTC6104IMS8#PBF	332
6104 LTC6104HMS8#PBF	332
61041 TPS61041DBVR	491
61042 TPS61042DRBRG4	444
61045 TPS61045DRBTG4	440
6105 LT6105CMS8#PBF	332
61050 TPS61050DRCT	444
61054 TPS61054DRCT	444
61055 TPS61055DRCT	444
61059 TPS61059DRCTG4	444
6106 LT6106HS5#PBF	333
6106 LT6106CS5#TRMPBF	332
6106 LT6106HS5#TRMPBF	333
6108 XC6108C27AMR	486
6108 XC6108N27AMR	486
61080 TPS61080DRCTG4	491
61081 TPS61081DRCTG4	491
61087 TPS61087DRCT	548
61090 TPS61090RSARG4	491
611 ADV611JSTZ	532
611 ADG611YRUZ	344
611 IL611A-3E	456
611 IL611A-2E	456
611 IL611A-1E	456
611 IL611-1E	456
611 IL611-2E	456
611 LM611IM/NOPB	306
611 IL611-3E	456
6110 LM3S6110-IQC25	238
61100 TPS61100PWG4	491
6111 TPA6111A2D	535
6111 TPA6111A2DGN.	535
6115 MPXA6115AC6U	510
6115 MPXH6115AC6U	511
6115 MPXH6115A6U	511
61150 TPS61150ADRCT	444
6116 IDT6116SA45PDG	104
61180 TPS61180RTET	444
612 IL612-2E	456
612 IL612-3E	456
612 ADG612YRUZ	344
612 IL612A-3E	456
612 SA612AD	354
6120 MAX6120ESA+	550
6120 MAX6120EUR+T	537
6120 TPA6120A2DWPG4	535
61200 TPS61200DRCTG4	491
61200 TPS61200DRCT	491
61201 TPS61201DRCT	491
61202 TPS61202DRCT	491
6121 SP6121CN-L	508
6122 ADS6122IRHBTG4	279
6123 ADS6123IRHBTG4	279
6123 SP6123EN-L	508
6124 ADS6124IRHBTG4	279
6125 ADS6125IRHBTG4	279
6126 MAX6126AASA25+	538
613 DG613DJ	344
613 DG613DJ.	344
613 ADG613YRUZ	344
6130 AMMP-6130-BLKG	353
6132 SP6132HEU-L	508
6132 LM6132BIM	316
6132 LM6132AIM	316
6133 SP6133ER1-L	486
6134 LM6134BIN	321
6134 SP6134EU-L	508
6134 LM6134AIM	321
6134 LM6134BIM	321
6134 SP6134HEU-L	486
6136 SP6136ER1-L	486
6138 SP6138ER1-L	486
6139 SP6139EU-L	508
614 SA614AD	354
6141 MCP6141-I/P	310
6141 MCP6141-I/SN	310
6141 FMS6141CS	535
6141 MAX6141ESA+	540
6142 LM6142BIN	317
6142 MCP6142-I/SN	317
6142 LM6142BIM	317
6142 LM6142AIM	317
6142 LM6142BIN	571
6142 MCP6142-I/P	317

Index by Type for Semiconductor ICs

	Mftrs. List No.	Page
6143	MCP6143-I/SN	310
6143	MCP6143-I/P	310
6144	LM6144BIN	321
6144	MCP6144-I/P	321
6144	MCP6144-I/SL	321
6145	MAX6145EUR+T	540
6149	ADS6149IRGZT	286
6152	LM6152ACM/NOPB	316
6154	LM6154BCM.	321
616	BH616UV8010TIG55	105
616	BS616LV1010EIP70	104
616	BS616LV1611FIP55	105
616	BS616LV8017EC-55	105
616	BS616LV1611TIG55	105
616	BS616LV2016EIP55	104
616	BS616LV8017ECP55	105
616	BS616LV4017AIP55	104
616	BS616LV8016FIP55	105
616	BS616LV8017FIP55	105
616	ATS616LSGTN-T	457
616	BS62LV1600EIP55	105
616	BS616LV4017EIP55	104
616	BH616UV8011AIG55	105
616	BS616LV8017EIP55	105
616	BH616UV1611AIP55	105
616	BS616LV4017ECP55	104
616	MCP616-I/P	328
616	MCP616-I/SN	328
617	LM3S617-IQN50	238
617	MCP617-I/P	329
617	MCP617-I/SN	329
6171	LM6171AIM/NOPB	310
6171	LM6171BIN	310
6171	LM6171BIM	310
6171	LM6171BIN/NOPB	310
618	MCP618-I/P	328
618	MCP618-I/SN	328
618	LM3S618-IQN50	238
618	MAX618EEE+	492
6181	LM6181IN/NOPB	310
6181	LM6181IM.	535
6181	LM6181IM	535
6181	LM6181IN	310
619	MCP619-I/P	330
619	ADG619BRMZ	344
619	MAX619ESA+	470
619	MCP619-I/SL	330
619	MAX619CPA+	470
6190	MAX6190AESA+	537
6192	MAX6192AESA+	538
62	BS62LV1600ECP55	105
62	IS62WV25616BLL-55TLI	104
62	BS62LV1027PIP55	104
62	ST62T20CM6	160
62	ST62T03CM6	160
62	ST62T01CM6	160
62	ST62T00CM6	160
62	BS62LV256PIP55	104
62	ST62T62CB6	160
62	ST62T09CB6	160
62	ST62T01CB6	160
62	ST62T00CB6	160
62	ST62T08CB6	160
62	ST62T03CB6	160
62	BS62LV4006PIP55	104
62	ST62T60CM6	160
62	ST62T25CB6	160
62	ST62T15CB6	160
62	ST62T10CB6	160
62	ST62T10CM6	160
62	ST62T20CB6	160
62	ST62T25CM6	160
62	ST62T60CB6	160
62	ST62T65CB6	160
62	ST62T65CM6	160
62	XC62FP5002PR	560
62	XC62FP5002MR	560
62	XC62FP3302PR	556
62	XC62FP3302MR	556
62	XC62FP3002PR	555
62	XC62FP3002MR	555
62	BS62LV4006PCP55	104
62	TL062ACP	324
62	TL062BCD	324
62	BS62LV1027SCP55	104
62	BS62LV8001ECP55	105
62	IS62C1024AL-35QLI	104
62	IS62C256AL-45ULI	104
62	BS62LV1027PCP55	104
62	BS62LV256SCP70	104
62	BS62LV256PCP70	104
62	ST62E65CF1	160
62	BH62UV1601AIG55	105
62	BH62UV8001AIG55	105
62	ST62T52CB6	160
62	BS62LV1027STIP55	104
62	BS62LV1027SIP55	104
62	BS62LV256SIP55	104
62	BS62LV8001EIP55	105
62	BS62LV8001FIP55	105
62	BS62LV4006TIP55	104
62	BS62LV4006STIP55	104
62	ST62E25CF1.	160
62	BS62LV4006SIP55	104
62	BS62LV4006EIP55	104
62	BS62LV256TIP55	104
62	BS62LV2006TIP55	104
62	BS62LV2006STIP55	104
62	BS62LV2006SIP55	104
62	ST62T15CM6.	160
62	BS62LV1027TIP55	104
620	AD620BNZ	336
620	AD620BRZ	336
620	AD620ARZ	336
620	MICRF620DEV1	402
620	MICRF620Z	354
620	ADG620BRMZ	345
620	AD620ANZ	336
620	AD620ANZ	570
6200	LT6200CS8-5#PBF	310
6200	LT6200CS8-10#PBF	310
6200	LT6200CS8#PBF	310
6200	LT6200CS6#TRMPBF	310
62000	TPS62000DGS	491
62003	TPS62003DGS	491
62007	TPS62007DGSG4	491
6201	XC6201P332MR	556
6201	XC6201P332PR	557
6201	E-L6201PS	464
6201	XC6201P502MRN	560
6201	L6201	458
6201	XC6201P182PRN	552
6201	XC6201P252MRN	553
6201	XC6201P502PRN	560
6201	SP6201EM5-L-1-5	551
6201	SP6201EM5-L-1-8	552
6201	SP6201ER-L-3-3	556
6201	SP6201EM5-L-ADJ	544
6201	SP6201EM5-L-2-5	553
6201	SP6201EM5-L-5-0	560
6201	SP6201EM5-L-3-3	556
6201	SP6201EM5-L-2-85	555
6201	XC6201P302PR	555
6201	XC6201P182MR	552
6201	XC6201P252PR	553
6201	XC6201P302MR	555
6202	XC6202P502PR	560
6202	XC6202P502MR	560
6202	XC6202P332PR	556
6202	L6202	458
6202	XC6202P332MR	556
6202	E-L6202	458
6202	LT6202CS8#PBF	310
6202	XC6202P302PR	555
6202	XC6202P302MR	555
62020	TPS62020DGQ	491
6203	LT6203CS8#PBF	317
6203	E-L6203	458
6203	TPA6203A1ZQVR	535
6203	XC6203E502PR	560
6203	XC6203E332PR	557
6203	SP6203EM5-L-3-3	557
6203	SP6203ER-L-3-3	557
6203	LT6203CMS8#PBF	317
6204	XC6204B272MR	554
6204	LT6204CS#PBF	321
6204	XC6204B252MR	553
6204	XC6204B182MR	552
62040	TPS62040DGQ	491
62042	TPS62042DGQ	491
62044	TPS62044DGQ	491
62046	TPS62046DGQ	491
6205	L6205N	464
6205	SP6205ER-L-ADJ	545
6205	SP6205EM5-L-ADJ	545
6205	SP6205ER-L-3-3	557
6205	SP6205EM5-L-3-0	555
6205	SP6205EM5-L-3-3	557
6205	SP6205ER-L-2-85	555
62050	TPS62050DGS	491
62050	TPS62050DGSG4	491
62051	TPS62051DGS	491
62054	TPS62054DGS	491
62056	TPS62056DGSG4	491
62056	TPS62056DGS	491
6206	XC6206P182PR	567
6206	XC6206P182MR	567
6206	XC6206P252MR	567
6206	L6206D	458
6206	XC6206P302MR	567
6206	XC6206P302PR	567
6206	LT6206CMS8#PBF	317
6206	XC6206P332PR	567
6206	XC6206P502PR	567
6206	XC6206P502MR	567
6206	L6206N	458
6206	XC6206P332MR	567
6207	ISL6207CBZ	464
6207	LT6207CGN#PBF	321
6208	L6208N	458
6208	L6208D	458
621	AD621BNZ	336
621	ADG621BRMZ	345
621	AD621ANZ	336
621	AD621ARZ	336
6210	XC6210B302MR	555
6210	XC6210B122MR	550
6210	XC6210B152MR	551
6210	XC6210B152PR	551
6210	XC6210B122PR	551
6210	XC6210B302PR	555
6210	XC6210B252PR	553
6210	XC6210B182PR	552
6210	XC6210B282PR	554
6210	XC6210B282MR	555
6210	XC6210B252MR	554
6210	XC6210B332PR	557
6210	XC6210B182MR	552
6210	XC6210B332MR	557
62100	TPS62100D.	491
62103	TPS62103D	491
6211	LT6211CMS#PBF	317
6211	LM6211MF	535
6211	MIC6211YM5 TR	310
6211	TPA6211A1DGNG4	535
62110	TPS62110RSATG4	491
6212	BD6212FP-E2	458
6213	SP6213EC5-L-5-0	559
6215	XC6215B122NR	551
6215	XC6215B152NR	551
6215	XC6215B182NR	552
6215	XC6215B252NR	553
6215	XC6215B282NR	554
6215	XC6215B302NR	555
6215	XC6215B332NR	556
6215	XC6215B502NR	560
6216	XC6216DC02JR	567
6216	XC6216D502JR	567
6216	XC6216C202MR	567
6216	XC6216D332JR	567
6216	XC6216C202PR	567
6216	XC6216D302JR	567
6216	XC6216DC02FR	567
6216	XC6216D502FR	567
6216	XC6216D332FR	567
6216	XC6216D302FR	567
6216	XC6216DC02PR	567
6216	XC6216D502PR	567
6216	XC6216D332PR	567
6216	XC6216D302PR	567
6216	XC6216B302MR	567
6216	XC6216B332MR	567
6216	XC6216B502MR	567
6216	XC6216BC02MR	567
6217	XC6217B282MR	554
6217	XC6217B332MR	557
6217	XC6217B302MR	555
6217	XC6217B252MR	553
6217	XC6217B182MR	552
6219	E-L6219	458
6219	XC6219B182MR	567
6219	XC6219B302MR	567
6219	XC6219B332MR	567
6219	XC6219B502MR	567
622	AD622ANZ	336
622	AD622ARZ	336
622	ADG622BRMZ	345
6220	LT6220CS8#PBF	310
6220	LT6220CS5#TRMPBF	310
62200	TPS62200DBVT	491
62200	TPS62200DBVTG4	491
62203	TPS62203DBVT	491
62205	TPS62205DBVT	491
6221	LT6221CS8#PBF	317
6221	XC6221B332MR	568
6221	XC6221B302MR	568
6221	XC6221B282MR	568
6221	XC6221B252MR	568
6221	XC6221B182MR	568
6221	XC6221B152MR	568
6221	XC6221B122MR	568
6222	SP6222EK-L	543
6222	LT6222CGN#PBF	321
62220	TPS62220DDCTG4	491
62222	TPS62222DDCTG4	491
62223	TPS62223DDCTG4	491
62227	TPS62227DDCTG4	491
6223	SP6223EK-L	544
6225	MAX6225AESA+	538
6225	MAX6225BESA+	538
6225	MAX6225BCSA+	486
6226	BD6226FP-E2	458
62260	TPS62260DDCTG4	491
62263	TPS62263DRVT	553
6228	L6228N	458
6228	L6228D	458
6229	L6229N	458
6229	L6229D	458
62291	TPS62291DRVT	557
62293	TPS62293DRVT	552
623	AD623ARZ.	336
623	ADG623BRMZ	345
623	AD623ANZ	570
623	AD623ARMZ	336
623	AD623ANZ	336
6230	LT6230CS6#TRMPBF	310
6230	LT6230CS6-10#TRMPBF	310
62302	TPS62302DRCR	491
62304	TPS62304YZDT	491
6231	SP6231ER-L-3-3	557
6231	MCP6231-E/P	310
6231	MCP6231-E/SN	310
6231	LT6231CS8#PBF	317
6232	MCP6232-E/SN	317
6232	MCP6232-E/P	317
62320	TPS62320YZDT	491
6233	LT6233CS6#TRMPBF	310
623308	A623308A-70SF	104
623308	A623308M-70SF	104
623308	A623308A-70SF	570
6234	L6234	458
6234	LT6234CS8#PBF	317
6234	MCP6234-E/SL	321
6234	MCP6234-E/P	321
6235	L6235N	458
6235	L6235D	458
624	AD624AD	336
624	AD624ADZ	336
624	AD624BD	336
6240	LTC6240HVCS8#PBF	310
6240	LTC6240CS8#PBF	310
62400	TPS62400DRCTG4	491
62401	TPS62401DRCTG4	491
62403	TPS62403DRCTG4	491
6241	MAX6241AESA+	540
6241	LTC6241CS8#PBF	330
6241	MAX6241BESA+	540
6241	LTC6241HVCS8#PBF	330
6241	MCP6241-E/SN	329
6241	LTC6241HVIS8#PBF	317
6242	MCP6242-E/SN	317
6242	MCP6242-E/P	317
6242	LTC6242HVCGN#PBF	331
62421	RTC-62421A	253
62423	RTC-62423A	253
6244	LTC6244IMS8#PBF	317
6244	MCP6244-E/P	321
6244	MCP6244-E/SL	321
625	AD625KNZ	336
625	AD625CD	336
625	AD625JNZ	336
6250	MPXH6250A6U/6T1	510
6250	MAX6250ACSA+	540
6250	MAX6250AESA+	540
6250	MAX6250BCSA+	540
6250	MAX6250BESA+	492
6251	ISL6251HRZ	486
6252	ISL6252HRZ	498
6252	ISL6252AHAZ	498
6252	ISL6252AHRZ	498
6252	ISL6252HAZ	498
6256	ISL6256HRZ	498
6256	ISL6256HAZ	498
6256	ISL6256AHRZ	498
6256	ISL6256AHAZ	498
6257	ISL6257HRZ	486
626	AD626ANZ	333
626	AD626BNZ	333
6264	CY6264-70SNXC	104
6264	CY6264-70SNXC	570
6269AIRZ	ISL6269AIRZ	495
6269BIRZ	ISL6269BIRZ	495
6269IRZ	ISL6269IRZ	495
627	AD627BNZ	336
627	OPA627APG4	325
627	OPA627AM	325
627	OPA627BM	325
627	OPA627AUE4	325
627	AD627BRZ	336
627	AD627ARZ	336
627	AD627ANZ	336
627	OPA627SM	325
627	OPA627BP	325
6271	MMA6271QT	520
6271	MCP6271-E/P	310
6271	MCP6271-E/SN	310
6272	MCP6272-E/SN	317
6272	MCP6272-E/P	317
6274	MCP6274-E/SL	321
6274	MCP6274-E/P	321
6275	A6275ELW-T	445
6276	A6276ELW-T	445
6277	A6277ELW-T	445
6278	A6278ELW-T	444
6279	A6279ELW-T	444
628	LM628N6	457
628	MAX628CSA+	460
628	AD628ARMZ	333
628	AD628ARZ	333
6281	MMA6281QT	520
6281	MCP6281-E/SN	310
6281	MCP6281-E/P	310
6282	MCP6282-E/SN	317
6282	MCP6282-E/P	317
6282	A6282EES-T	445
6283	MCP6283-E/SN	310
6284	MCP6284-E/SL	321
6284	MCP6284-E/P	321
6285	A6285EET-T	445
629	AD629BNZ	333
629	AD629BRZ	333
629	LM629M-8	457
629	LM629N6	457
629	LM629M-6	457
629	AD629ARZ	333
629	AD629ANZ	333

Index by Type for Semiconductor ICs

	Mftrs. List No.	Page
629	MAX629ESA+	470
6291	MCP6291RT-E/OT	310
6291	MCP6291-E/P	310
6291	MCP6291-E/SN	310
6291	MCP6291T-E/OT	310
6292	MCP6292-E/P	317
6292	ISL6292-2CR4Z	486
6292	MCP6292-E/SN	317
6293	MCP6293-E/P	310
6293	MCP6293-E/SN	310
6294	MCP6294-E/SL	321
6294	MCP6294-E/P	321
6295	ISL6295CVZ	332
6299	ISL6299AIRZ	332
63	LM63CIMA	522
63	LM63DIMA	522
630	AD630JNZ	354
630	AD630KNZ	354
630	MAX630CSA+	545
6300	MPXH6300A6U	510
63000	TPS63000DRCRG4	491
6301	MAX6301CUA+	258
6301	MAX6301ESA+	258
6301	MAX6301CPA+	258
63010	TPS63010YFFT	444
63011	TPS63011YFFT	444
63012	TPS63012YFFT	444
6302	PT6302N.	508
6302	PT6302N	508
6302	PT6302C	508
6302	PT6302A	508
6304	PT6304A	508
6304	PT6304C	508
6304	PT6304N	508
631	MAX631ACPA+	470
631	AD7631BSTZ	289
631	MAX631ACPA	470
631	MAX631ACSA+	545
6311	DAC6311IDCKT	293
6315	STM6315RBW13F	258
632	MAX632ACSA+	545
632	MAX632ACPA+	545
6321	LMH6321TS	332
6321	LMH6321MR	332
6324	FDC6324L	486
6325	MAX6325ESA+	486
6325	MAX6325CSA+	539
6326	MAX6326UR29+	258
633	AD633JRZ	341
633	ADG633YRUZ	345
633	AD633ANZ	341
633	AD633JNZ	341
634	AD7634BSTZ	289
634	BUF634U	332
634	BUF634TG3	332
634	634SS2	439
634	MAX634CSA+	545
634	MPY634KUE4	341
634	MPY634KP..	341
634	MPY634KP	341
6341	MAX6341CSA+	540
6346	MAX6346UR46+T	258
635	MAX635ACSA+	470
6350	MAX6350CSA+	541
6351	XC6351A120MR	486
636	ADG636YRUZ	345
636	MAX636ACSA+	563
636	AD636JH	437
637	AD637BRZ.	470
637	AD637JD	437
637	OPA637BP	325
637	OPA637AM	325
637	OPA637AP	306
637	OPA637AU	306
637	AD637JQ	437
637	AD637ARZ	437
637	MAX637ACSA+	564
637	OPA637BM	325
637	AD637JRZ	437
638	MAX638ACPA+	470
638	MAX638ACSA+	545
6384	L6384D	464
6384	L6384	464
6385	L6385	464
6385	E-L6385D	464
6386	E-L6386D	464
6386	L6386	464
6387	BD6387EFV-E2	458
6387	L6387	464
6388	L6388	464
6388	L6388D	464
639	MAX639ESA+	492
639	MAX639CPA	470
639	MAX639CSA+	470
639	MAX639CPA+	470
6393	BD6393FP-E2	458
64	HD64F3337YCP16V	574
64	ATMEGA64-16AU	573
64	ATMEGA64-16MU	137
64	LM64CILQ-F	522
64	ATMEGA64-16AU	137
64	ATMEGA64L-8AU	137
64	SMC064BFE6E	119
64	ATMEGA64L-8MU	137
64	HD64F3334YF16V	156
64	HD64F3337YCP16V	156
64	DS64EV400SQ/NOPB	354
64	HD64F2378RVFQ34V	226
64	TL064BCD	327
64	HD64F3687HV	226
64	HD64F2144FA20V	226
64	HD6412674RVFQ33V	226
64	HD64F2128FA20V	226
64	HD64F2676VFC33V	226
64	HD64F3664FPV	226
64	HD64F38024RF	156
64	HD64F2633F25V	226
640	LCMXO640C-3TN144C	101
640	LCMXO640C-4FTN256C	101
640	LCMXO640C-4TN144C	101
640	LCMXO640E-3FTN256C	101
640	LCMXO640E-3TN144C	101
640	LCMXO640C-3FTN256C	101
640	LCMXO640E-4FTN256C	101
640	MAX640ESA+	492
640	S29GL064A90FFIR10	117
640	S29GL064A90TFIR40	117
640	ATMEGA640V-8AU	138
640	ATMEGA640-16AU	138
640	LCMXO640C-5TN100C4W	101
640	LCMXO640C-5TN144C4W	101
640	AD640JNZ	338
640	LCMXO640E-5TN100C	101
6400	LTC6400IUD-20#PBF	334
6401	LTC6401IUD-20#PBF	334
6402	LT6402IUD-20#PBF	334
6402	LT6402IUD-6#PBF	334
6402	LT6402IUD-12#PBF	334
6402	LT6402CUD-20#PBF	334
6405	LTC6405CUD	334
6405	LTC6405IUD	334
6406	LTC6406CUD#PBF	334
6406	LTC6406IUD#PBF	334
6408	TCA6408PW	410
641	MAX641AESA+	561
641	MAX641ACSA+	470
6411	LT6411IUD#PBF	334
6415	LMH6515SQ	317
6416	NCS6416DWG	535
6417615	HD6417615ARFV	227
6417616	HD6417616SFV	227
6417710	HD6417710FV	227
642	DG642DJ	341
6420	LTC6420CUDC-20#PBF	334
6420	LTC6420IUDC-20#PBF	334
6420	LM3S6420-IQC25	238
64200	TPS64200DBVTG4	491
64200	TPS64200DBVT	491
64201	TPS64201DBVT	491
64202	TPS64202DBVT	491
64203	TPS64203DBVT	491
6421	Z8F6421VN020SG	164
6421	Z8F6421PM020SG	164
6421	LTC6421CUDC-20#PBF	334
6421	LTC6421IUDC-20#PBF	334
6422	Z8F6422VS020SG	164
6422	LM3S6422-IQC25	238
6423	Z8F6423FT020SG	164
6425	ADS6425IRGCTG4	284
6432	LM3S6432-IQC50	238
644	ATMEGA644P-20PU	138
644	ATMEGA644-20AU	573
644	ATMEGA644PV-10PU	138
644	ATMEGA644PV-10AU	138
644	ATMEGA644-20AU	138
644	ATMEGA644-20PU	138
644	ATMEGA644V-10AU	138
644	ATMEGA644V-10PU	138
644	ATMEGA644P-20AU	138
6442	ADS6442IRGCT	286
6443	ADS6443IRGCT	286
6445	ADS6445IRGCT	286
6446	TMDSEVM6446-0E.	251
645	ATMEGA645V-8AU	138
645	ATMEGA645-16AU	138
6450	ATMEGA6450-16AU	138
6450	ATMEGA6450V-8AU	138
6462	LMC6462BIN.	330
6462	LMC6462BIN	317
6462	LMC6462AIM	317
6462	LMC6462AIN	317
6464	LMC6464BIN	321
6464	LMC6464BIM/NOPB	331
6473258	HD6473258P10V	156
6473258	HD6473258P10V	570
6473308	HD6473308RCP10V	156
648	AD648JRZ	313
648	AD648KNZ	326
648	AD648JNZ	326
648	TC648VPA	470
6482	LMC6482IN	330
6482	LMC6482IN	571
6482	LMC6482AIN/NOPB	317
6482	LMC6482IN/NOPB	317
6482	LMC6482AIM	330
6482	LMC6482AIN	330
6482	LMC6482IM	330
6484	LMC6484IN	571
6484	LMC6484IN	331
6484	LMC6484AIN	331
6484	LMC6484IM	331
6484	LMC6484AIM	331
6492	LMC6492BEM/NOPB	330
6494	LMC6494BEM	331
6494	LMC6494AEM/NOPB	331
65	SN65LBC031D	427
65	SN65LVDT32BD..	345
65	SN65LVDM1677DGGG4	345
65	SN65LVDS050DG4	345
65	SN65LVDS387DGGG4	345
65	SN65LVDS391D	345
65	SN65LBC173AD	346
65	SN65HVD179DG4	447
65	SN65HVD379DG4	447
65	SN65HVD35DG4	447
65	SN65HVD34DG4	447
65	SN65HVD05P	346
65	SN65HVD33DG4	447
65	SN65HVD32DG4	447
65	SN65HVD31DG4	447
65	SN65MLVD3DRBTG4	447
65	SN65LVDS9637D	345
65	SN65LBC179D	346
65	SN65LV1212DB	345
65	SN65ALS180D	447
65	SN65LV1023ADB	345
65	SN65LBC180AN	346
65	SN65HVD234D	427
65	SN65ALS176D	346
65	SN65HVD22D	346
65	SN65LVDS9638D	345
65	SN65HVD235DG4	427
65	SN65LVDS105D	345
65	SN65HVD1040D	354
65	SN65HVD233DG4	427
65	SN65HVD10DG4	346
65	SN65C3232D	346
65	SN65LV1224ADB	345
65	SN65HVD23P	346
65	SN65LVDS179D	345
65	SN65C3238PWG4	346
65	SN65HVD24P	345
65	SN65HVD251D	427
65	SN65LVDS34D	345
65	SN65LBC180DG4	346
65	SN65C3243DW	346
65	SN65LBC175DG4	346
65	SN65LBC176D	346
65	SN65HVD1176D	346
65	SN65C3243PWG4	346
65	SN65LVDS2DBVT	345
65	SN65HVD230DR	427
65	SN65HVD24D	345
65	SN65HVD30DG4	447
65	SN65LVDS1D	345
65	SN65LBC175AD.	446
65	SN65HVD3086EDGSG4	447
65	SN65HVD3083EDGSG4	447
65	SN65HVD3080EDGSG4	447
65	SN65HVD3088EDG4	447
65	SN65HVD3085EDG4	447
65	SN65LBC179AD	346
65	SN65HVD06P	346
65	SN65LBC180AD	346
65	SN65HVD08P	346
65	SN65HVD3082EP	346
65	SN65LVDS1DBVT	345
65	SN65HVD3082ED	346
65	SN65LVDS389DBT	446
65	SN65C3221PW	346
65	SN65LVDS32D	345
65	SN65LBC184D	346
65	SN65LBC184P	346
65	SN65LVDS31D	345
65	SN65HVD1050D	427
65	SN65LVDS179DGK.	447
65	SN65LVCP404RGZRG4	341
65	SN65LVDS100D	345
65	SN65LVDS180PW.	447
65	SN65LVDS31PW.	446
65	SN65LVDS048AD	345
65	SN65HVD232D	346
65	SN65LVDT2DBVTG4	345
65	SN65HVD485EDG4	346
65	SN65LVDS32PW.	446
65	SN65LVDS96DGGG4	346
65	SN65LVDS386DGG.	447
65	SN65LVDS391PW.	446
65	SN65HVD230QD..	345
65	SN65HVD485EDGKG4	346
65	SN65LVDM051D.	345
65	SN65LBC173DG4	346
65	SN65LVDS049PW.	345
65	SN65LVDS389DBTG4	346
65	SN65LVDM176DGKG4	346
65	SN65HVD08D	346
65	SN65HVD07D	346
65	SN65LV1021DB	345
65	SN65LVDM176D	346
65	SN65LBC176P	346
65	SN65ALS1176D	346
65	SN65HVD11D	346
65	SN65LVDT2D	345
65	SN65MLVD200AD	345
65	SN65HVD230D	346
65	SN65HVD231D	346
65	SN65LVDM31D.	446
65	SN65LVDT388ADBT.	447
65	SN65HVD06D	346
65	SN65LVDS101D	345
65	SN65LVDT100D	345
65	SN65HVD20D	346
65	SN65HVD12D	346
65	SN65LVDS047D	346
65	SN65MLVD204AD	345
65	SN65LVDT386DGGG4	346
65	SN65LVDS3487DG4	346
650	AD650KNZ	437
650	AD650JNZ	437
650	AD7650ASTZ	287
6501	TC6501P115VCTTR	524
6501	TC6501P120VCTTR	524
6501	TC6501P125VCTRT	524
6501	TC6501P125VCTTR	524
6501	TC6501P105VCTTR	524
6501	TC6501P085VCTTR	524
6501	TC6501P075VCTTR	524
6501	TC6501P065VCTTR	524
6501	TC6501P055VCTTR	524
6501	TC6501P045VCTTR	524
65010	TPS65010RGZT	491
6502	TC6502P115VCTTR	524
6502	TC6502P125VCTTR	524
6502	TC6502P105VCTTR	524
6502	TC6502P045VCTTR	524
6502	TC6502P055VCTTR	524
6502	TC6502P065VCTTR	524
6502	TC6502P075VCTTR	524
6502	TC6502P085VCTTR	524
6502	TC6502P095VCTTR	524
6502	LMH6502MA	310
65020	TPS65020RHATG4	491
65021	TPS65021RHATG4	491
65022	TPS65022RHATG4	491
6503	LMH6503MA	310
6503	LMH6503MT	310
6504	LMH6504MA	310
6505	LMH6505MM	338
6505	LMH6505MA	338
65053	TPS65053RGETG4	491
6506	L6506	458
6507	TCA6507PW	444
651	LMV651MG	306
651	LMV651MF	306
6510	BD6510F-E2	468
6511	LM6511IM/NOPB	429
6512	BD6512F-E2	468
65120	TPS65120RGTTG4	440
6513	BD6513F-E2	468
65136	TPS65136RTER	444
6514	LMH6514SQE	310
65140	TPS65140PWPG4	440
65150	TPS65150PWPG4	440
6516	BD6516F-E2	468
6517	BD6517F-E2	468
65176	SN65176BD	348
652	LMV652MM	306
652	AD652KPZ	437
6520	FAN6520AM	464
65220	SN65220DBVRG4	411
65220	SN65220DBVT	518
6524	ISL6524CBZ	486
65240	SN65240P	518
65240	SN65240PWG4	518
6525	LMH6525SP	444
6526	LMH6526SP	444
6530	AMMP-6530-BLK	356
6535	ISL6535IBZ	494
6537	TB6537FG	458
654	AD654JRZ	437
654	AD654JNZ	437
654	LMV654MT	319
6541	MCP6541-I/SN	429
6541	MCP6541-E/SN	429
6541	MCP6541-E/P	429
6541	MCP6541T-E/OT	429
6542	MCP6542-E/SN	430
6542	MCP6542-E/P	430
65426	ISL65426IRZA	491
6544	MCP6544-E/P	431
6544	MCP6544-E/SL	431
6545	ISL6545AIBZ	494
6546	MCP6546-E/SN	429
6546	MCP6546-E/P	429
6547	MCP6547-E/P	430
6547	MCP6547-E/SN	430
6549	MCP6549-E/P	431
6549	MCP6549-E/SL	431
6549	TB6549FG	464
655	ADC121S655CIMM	283
6550	LT6550CMS#PBF	318
6550	LMH6550MA	310
6550	LMH6550MM	310
6551	LT6551CMS#PBF	321
6551	LMH6551MA	310
6551	LMH6551MM	310

Index by Type for Semiconductor ICs

	Mftrs. List No.	Page
65510	TPS65510RGTT	491
6552	LMH6552MA	310
6552	TB6552FNG	464
6552	LT6552CDD#PBF	535
6552	LT6552CS8#PBF	334
6552	LMH6552SD	334
6553	LMH6553MR	334
6553	LT6553CGN#PBF	318
6553	LMH6553SDE	334
6553	LMH6553MRE	334
6553	LMH6553SD	334
6554	LT6554CGN#PBF	318
6555	LMH6555SQ	464
6555	LMH6555SQE	451
6555	LT6555CGN#PBF	318
65552	TPS65552ADGQG4	491
6556	LT6556CGN#PBF	318
6556	ISL6556BCBZ	486
6557	LT6557CGN#PBF	318
6558	LT6558CGN#PBF	318
6559	LMH6559MA	332
6559	LT6559CUD#PBF	318
656	OPA656NB	325
656	OPA656N	306
656	OPA656U	306
6560	TB6560FG(O)	464
6560	LMH6560MT	332
6560	LMH6560MA	332
6561	E-L6561	486
6561	E-L6561D	486
6561	ISL6561CRZ	486
6562	E-L6562D	486
6562	TB6562ANG	464
6565	E-L6565D	487
6566	ISL6566AIRZ	494
6569	L6569AD	464
6569	E-L6569D	464
6569	E-6569	464
6569	L6569A	464
6569	E-L6569	464
657	OPA657UB	325
657	OPA657U	325
657	OPA657N	325
657	OPA657NB	325
6570	LMH6570MA	535
6571	L6571A	464
6571	E-L6571BD	464
6571	DAC6571IDBVT	293
6574	L6574	464
6574	DAC6574IDGSG4	293
6574	LMH6574MA	535
6574	E-L6574D	464
658	ADG658YRUZ	340
6583	LMH6583YA	348
6588	LM6588MT/NOPB	321
6588	LM6588MA/NOPB	321
659	ADG659YRUZ	339
6598	L6598	464
6598	L6598D	464
6599	L6599N	464
6599	L6599D	464
66	FSA66P5	341
66	FSA66M5	341
660	LPC660AIM/NOPB	330
660	MAX660M	470
660	LMC660CN	330
660	LMC660CM	330
660	LMC660AIN	330
660	LMC660AIM/NOPB	330
660	LTC660CS8#PBF	470
660	MAX660CPA+	470
660	ADM660ARZ	470
660	MAX660CSA+	470
660	AD7660ASTZ	287
660	MAX660ESA+	494
6600	LT6600IS8-10#PBF	334
6600	LT6600CS8-2.5#PBF	535
6600	LT6600IS8-20#PBF	334
6600	LT6600IS8-2.5#PBF	334
6600	LT6600IS8-5#PBF	334
6601	LMH6601MG	329
6601	HIP6601BCBZ	464
6603	LTC6603IUF#PBF	438
6603	LTC6603CUF#PBF	438
6605	ISL6605CBZ	464
6605	ISL6605CRZ	464
6609	LMH6609MF/NOPB	310
6609	LMH6609MA	310
661	CAT661EVA	493
661	LPC661IM	328
6610	MAX6610AUT+T	524
6610	LM3S6610-IQC25	238
6611	LMH6611MKE	310
6612	MAX6612MXK+	524
6612	LMH6612MA	317
6613	MAX6613MXK+T	524
662	LMC662AIM/NOPB	313
662	MAX662AESA+	470
662	MAX662ACSA+	470
662	ADG662BRUZ	344
662	MAX662ACPA+	470
662	LMC662AIN	329
662	LMC662AIM	313
662	LPC662IM	329
662	LMC662CM	329
662	LMC662CN	329
662	LPC662AIM/NOPB	329
6622	LMH6622MM	317
6622	LMH6622MA	317
6624	LMH6624MA	310
6626	LMH6626MM	317
6626	LMH6626MA	317
6628	LMH6628MA.	317
663	MAX663CSA+	543
6630	AD6630ARZ	356
6636	AD6636CBCZ	356
6639	LMH6639MA	310
6639	LMH6639MF	310
664	AD7664ASTZ	287
664	MAX664ESA+	470
664	AD664JNZ-BIP	294
664	MAX664CPA+	543
6640	LMH6640MF/NOPB	310
6641	SP6641AEK-L-5-0	508
6641	SP6641BEK-L-3-3	508
6641	SP6641BEK-L-5-0	508
6641	SP6641AEK-L-3-3	508
6642	LMH6642MF	310
6642	LMH6642MA	310
6643	LMH6643MM	317
6643	LMH6643MA.	317
6644	AD6644ASTZ-40	286
6644	AD6644ASTZ-65	286
6644	SP6644EU-L	508
6644	LMH6644MA.	321
6644	LMH6644MT	321
6645	AD6645ASQZ-80	286
6645	LMH6645MF	310
6645	LMH6645MA.	310
6646	LMH6646MM	317
6646	LMH6646MA.	317
6647	LMH6647MF	310
6647	LMH6647MA.	310
6648	MAX6648MUA+	524
6648	SP6648EU-L	508
665	MGA-665P8-BLK	354
665	MAX665CPA+	470
6650	LT6650CS5#PBF	537
6650	SP6650EU-L	508
6651	SP6651AEU-L	508
6651	MAX6651EEE+	458
6652	SP6652EU-L	487
6652	LTC6652BHMS8-4.096#PBF	540
6652	LTC6652BHMS8-2.048#PBF	538
6652	LTC6652BHMS8-5#PBF	541
6652	LTC6652BHMS8-1.25#PBF	537
6652	MAX6652AUB+	526
6652	LTC6652BHMS8-2.5#PBF	539
6652	LTC6652AHMS8-3.3#PBF	539
6652	LTC6652AHMS8-3#PBF	539
6652	LTC6652AHMS8-2.5#PBF	539
6653	AD6653BCPZ-150	356
6653	AD6653BCPZ-125	356
6654	SP6654EU-L	508
6654	SP6654ER-L	508
6654	LMH6654MA.	310
6654	LMH6654MF	310
6655	SP6655ER-L	508
6655	AD6655BCPZ-150	356
6655	AD6655BCPZ-125	356
6655	AD6655BCPZ-105	356
6655	AD6655BCPZ-80	356
6655	LMH6655MA	317
6655	LMH6655MM	317
6656	MAX6656MEE+	526
6657	LMH6657MG	310
6657	LMH6657MF	310
6658	LMH6658MA	317
6659	SP6659EK1-L	509
666	MAX666CPA	543
666	MAX666CSA+	543
6660	SP6660CU-L	508
6660	LT6660HCDC-3.3#PBF	539
6660	LT6660HCDC-3#PBF	539
6660	LT6660HCDC-2.5#PBF	539
6660	LT6660HCDC-5#PBF	541
6661	SP6661EN-L	508
667	MAX667ESA+	470
667	MAX667CSA+	544
667	MAX667CPA+	470
667	AD667JNZ	294
6672	LMC6772BIM/NOPB	430
6672	LMH6672MA	317
6673	MAX6673AXK+T	524
6676	MAX6676AUT3+T	524
6678	LMH6678LQ	410
668	MAX668EUB+	470
6682	LMH6682MA	535
6682	LMH6682MM	317
6682	SP6682EU-L	509
6683	SP6683ER-L	509
6684	MAX6684ESA+	511
6685	SP6685ER-L	509
6686	SP6686ER-L	444
6689	MAX6689UP9A+	524
669	AD669ANZ	297
669	MAX669EUB+	470
669	AD669BNZ	297
6690	SP6690EK-L	509
6691	SP6691EK-L	509
6692	MAX6692MUA+	524
6699	MAX6699UE38+	524
6699	MAX6699UE34+	524
670	AD670JNZ	300
6700	ISL6700IBZ	464
6700	LT6700CS6-1#TRMPBF	430
6700	LT6700CS6-2#TRMPBF	430
6700	LT6700CS6-3#TRMPBF	430
6702	LMH6702MF/NOPB	310
6702	LMH6702MA	310
6703	LT6703CDC-2#TRMPBF	429
6703	LMH6703MF	310
6704	LMH6704MA	535
6704	LMH6704MF	535
6714	LMH6714MA	535
6714	LMH6714MF	535
6715	LMH6715MA/NOPB	317
6717	STM6717SFWY6F	258
6718	LMH6718MA	332
6720	LMH6720MF	310
6720	LMH6720MA	310
67200	CY7C67200-48BAXI	411
6722	TMSDC6722BRFPA225	252
6722	LMH6722MA	535
6722	LMH6722MT	535
6723	LMH6723MF	310
6724	LMH6724MA	317
6725	LMH6725MT	321
6725	L6725	487
6726	TMSDC6726BRFPA225	252
6726	L6726A	487
6727	L6727	487
6730	L6730	487
6730	LMH6703MA	310
6731	L6731B	487
6731	L6731D	487
6733	LMH6733MQ	318
6734	TPS6734ID	487
6734	TPS6734IP	487
6734	LMH6734MQ	332
6735	TPS6735ID	487
6738	LMH6738MQ	318
6739	LMH6739MQ/NOPB	535
674	AD674BBRZ	283
675	LM675T	306
675	AD7675ASTZ	287
675	LM675T	571
6755	TPS6755IP	487
6762	LMC6762AIM	430
677	AD7677ASTZ	287
677	AD677JNZ	287
6771	MAX6771TALD2+T	566
6772	LMC6772BIN	430
6772	MAX6772TASD2+T	566
6772	MAX6772TALD2+T	566
6772	LMC6772AIM	430
6773	MAX6773TALD2+T	566
6774	MAX6774TALD2+T	566
678	AD678JNZ	283
679	AD679JNZ	286
679	AD679JNZ	570
6791	MAX6791TPLD2+T	543
6791	MAX6791TPSD2+T	543
6795	MAX6795TPLD2+T	543
6795	MAX6795TPSD2+T	543
6796	MAX6796TPSD2+T	543
68	MC68EC020AA16	219
68	MC68HC908QY4CP	146
68	MC68340AG16E	219
68	MC68EC030FE25C	219
68	MC68HC908GR4CFAE	207
68	MC68HC908JB8JPE	146
68	MC68HC908JL8CSPE	146
68	MC68EC000EI8	218
68	MC68EC000EI12	218
68	MC68EC000EI10	218
68	CDP68HC68T1M2Z	253
68	MC908QY4ACPE	146
68	MC908QY4ACDWE	146
68	MC68HC705C8ACFNE	145
68	MC68HC711E9CFNE2	145
68	MC68LC060RC50	219
68	MC68HC705J1ACPE	145
68	MC68SEC000AA20	219
68	MC68SEC000AA16	218
68	MC68HC711D3CFNE2	145
68	MC68HC711E9CFNE2	571
68	MC68HC705C8ACFNE	571
68	MC68HC11E1CFNE2	145
68	MC68HC11E1CFNE3	145
68	MC908JB8JDWE	146
68	MCHLC908QY2CPE	147
68	MCHLC908QT4CPE	147
68	MC68HC908QY4MPE	146
68	MC68HC908QY4CPE	146
68	MC68HC908QY2CPE	146
68	MC68HC908QY1VPE	146
68	MC68HC908QY1MPE	146
68	MC68HC908QT4VPE	146
68	MC68HC908QT4CPE	146
68	MC68HC908QT2CPE	146
68	MC68HC908QT1VPE	146
68	CDP68HC68T1EZ	253
68	MC68HC908QT1CPE	146
68	MC68LK332GCAG16	219
68	MC908KX8CDWE	146
68	MC908MR32CBE	146
68	MC908GP32CFBE	145
68	MC908GP32CBE	145
68	MC908MR8CDWE	146
68	MCR908JK1ECDWE	146
68	MC908QT1ACPE	146
68	MC908GP32CPE	145
68	MC68LK332ACAG16	219
68	MC68EC030FE40C	219
68	MC68EC040FE25A	219
68	MC908QY2ACDWE	146
68	MC908QY2ACPE	146
68	MC908QY1ACDWE	146
68	MC908QY1ACPE	146
68	MC908QT4ACDWE	146
68	MC908QT4ACPE	146
68	MC908QT2ACDWE	146
68	MC908QT2ACPE	146
68	MC908QT1ACDWE	146
680	AD680JTZ	538
680	MAX680CPA+	470
680	MAX680ESA+	548
680	MAX680CSA+	470
6800	LTC6800HMS8#PBF	336
6800	A6800SA-T	529
68000	CY7C68000A-56LFXC	411
68000	CY7C68000A-56BAXC	411
68000	TPS68000DBTG4	491
6801	A6801SEP-T	458
6801	A6801SLW-T	459
68020	MC68020EH25E	219
68020	MC68020EH16E	219
68020	MC68020RC33E	219
68020	MC68020RC25E	219
68020	MC68020RC16E	219
68024	CY7C68024-56LFXC	411
68033	CY7C68033-56LFXC	411
68034	CY7C68034-56LFXC	411
68040	MC68040RC33A	219
68040	MC68040FE25A	219
68040	MC68040FE33A	219
6805	SLA6805MP	459
6810	A6810SA-T	438
6812	A6812ELW-T	438
6818	MAX6818EAP+	342
682	SP682CN-L	508
682	MAX682ESA+	470
6821	A6821SLW-T	444
6822	STM6822TWY6F	258
6822	STM6822SWY6F	258
6822	STM6822RWY6F	258
6823	STM6823TWY6F	258
6823	STM6823SWY6F	258
6824	STM6824TWY6F	258
6824	STM6824SWY6F	258
6824	STM6824RWY6F	258
683	MAX683EUA+	470
683	OPA683ID	306
68300	CY7C68300B-56PVXC	411
68300	CY7C68300B-56LFXC	411
68301	CY7C68301B-56PVXC	411
68301	CY7C68301B-56LFXC	411
68306	MC68306CEH16B	219
6832	A6832EEP-T	459
68321	CY7C68321-100AXC	411
68321	CY7C68321-56LFXC	411
6833	A6833SEP-T	444
68332	MC68332ACAG20	219
68334	MC68334GCEH16	219
68340	MC68340AB16E	219
68340	MC68340FE16E	219
68340	MC68340CAB25E	219
68340	MC68340CAB16E	219
68340	MC68340AG25E	219
68340	MC68340AG16VE	219
6841	A6841SLW-T	464
6841	A6841SLW-20-T	464
685	MAX685EEE+	470
686	MAX686EEE+	299
68681	SCC68681C1A44	417
68681	SCC68681E1N40	417
68692	SCC68692C1N40	416
68692	SCC68692C1A44	417
68882	MC68882RC16A	219
68882	MC68882EI20A	219
68882	MC68882EI16A	219
68882	MC68882EI25A	219
68882	MC68882RC25A	219
68882	MC68882EI33A	219
68882	MC68882RC33A	219
68908	MC68908GZ8MFAE	145
68908	MC68908GZ8CFJE	145
68908	MC68908GZ8CFAE	145
69	PA69EU	324
690	OPA690IDG4	306
690	OPA690IDBVTG4	306
690	SP690TEN-L	261
690	MAX690ACSA+	255
690	TSH690ID	354
690	ADM690AANZ	255

Index by Type for Semiconductor ICs

	Mftrs. List No.	Page
690	STM690TM6E	260
690	ADM690AARNZ	255
690	ADM690ANZ	255
690	STM690RM6E	260
690	MAX690TESA+	470
690	SP690REN-L	261
690	MAX690ACPA+	255
690	MAX690CPA+	255
690	MAX690AESA+	255
690	MAX690AEPA+	255
690	MAX690EPA+	255
690	SP690AEN-L	261
6900	LTC6900CS5#TRMPBF	349
6900	LTC6900IS5#PBF	349
6900	LTC6900IS5#TRMPBF	349
6902	LTC6902IMS#PBF	349
6902	E-L6902D	487
6902	LTC6902CMS#PBF	349
6903	LTC6903IMS8#PBF	349
6903	LTC6903CMS8#PBF	349
6904	LTC6904IMS8#PBF	349
6904	LTC6904CMS8#PBF	349
6905	LTC6905CS5#TRMPBF	349
6905	LTC6905CS5-133#TRMPBF	349
6905	LTC6905CS5-80#TRMPBF	349
6905	LTC6905IS5#PBF	349
6906	LTC6906CS6#TRMPBF	349
6906	LTC6906IS6#PBF	349
6907	LTC6907IS6#PBF	349
6907	LTC6907CS6#TRMPBF	349
6908	LTC6908IS6-1#PBF	349
6908	LTC6908IS6-2#PBF	349
691	MAX691ACPE+	571
691	ADM691ARZ	255
691	MAX691EPE+	255
691	MAX691ACWE+	255
691	MAX691EWE+	255
691	MAX691ACPE+	255
691	MAX691CPE+	255
691	MAX691CWE+	255
691	MAX691AESE+	255
691	MAX691AEWE+	255
691	OPA691IDBVTG4	306
691	OPA691IDG4	306
691	SP691AEN-L	261
691	SP691AET-L	261
691	MAX691CPE+	571
691	ADM691ANZ	255
691	MAX691ACSE+	255
691	LTC691CSW#PBF	470
691	ADM691AANZ	255
691	ADM691AARNZ	255
6910	LTC6910-2CTS8#TRMPBF	338
6910	LTC6910-1CTS8#TRMPBF	338
6911	LTC6911HMS-2#PBF	338
6911	LTC6911CMS-1#PBF	338
6912	LTC6912CGN-1#PBF	338
6912	LTC6912CGN-2#PBF	338
6912	LTC6912HGN-2#PBF	338
692	LTC692CS8#PBF	470
692	MAX692CPA+	255
692	OPA692ID.	332
692	SP692AEN-L	261
692	MAX692ACPA+	255
692	MAX692ACSA+	255
692	ADM692AARNZ	255
692	ADM692ANZ	255
692	OPA692IDBVTG4	306
6920	L6920DB	487
6920	E-L6920D	487
6924	L6924D	487
6928	L6928D	487
693	MAX693CPE+	255
693	ADM693ANZ	255
693	LTC693CSW#PBF	470
693	AD693AQ	524
693	ADM693AANZ	255
693	ADM693AARNZ	255
693	ADM693ARZ	255
693	OPA693IDG4	306
693	AD7693BRMZ	287
6934	CYWUSB6934-48LFXC	574
6934	CYWUSB6934-48LFXC	410
6935	CYWM6935PAEC	410
6935	CYWM6935	410
6935	CYWUSB6935-48LFXC	410
6935	CYWUSB6935-48LFXC	574
6936	CYRF6936-40LFXC	411
694	OPA694ID	306
694	ADM694ANZ	255
694	AD694ARZ	524
694	AD694JNZ	524
694	AD694AQ	524
694	LTC694CS8#PBF	470
694	AD7694BRMZ	287
6941	BH6941KN-E2	445
6942	BH6942KN-E2	445
6943	BH6943KN-E2	445
6946	MAX6946ATE+	444
6947	MAX6947ATE+	444
695	ADM695ANZ	255
695	OPA695IDG4	306
695	OPA695IDBVTG4	306
695	ADM695ARZ	255
695	MAX695CPE+	255
695	LTC695CSW#PBF	470
695	MAX695CWE+	255
695	LTC695CN#PBF	255
6951	MAX6951EEE+	444
6952	LM3S6952-IQC50	238
6954	MAX6954ATL+	440
6955	MAX6955ATL+	440
6956	MAX6956ATL+	440
6959	MAX6959BAEE+	440
696	ADM696ARZ	255
696	ADM696ANZ	255
696	MAX696CWE+	255
6960	MAX6960ATH+	440
6961	MAX6961ATH+	440
6962	MAX6962ATH+	441
6963	MAX6963ATH+	441
6965	LM3S6965-IQC50	238
6966	MAX6966ATE+	444
6968	MAX6968AUE+	441
697	ADM697ANZ	255
697	ADM697ARZ	255
6970	MAX6970AUE+	444
6971	MAX6971AUG+	441
6977	MAX6977AUE+	441
6978	MAX6978APE+	441
698	AD698APZ.	518
698	OPA698IDG4	306
698	ADM698ANZ	255
698	ADM698ARZ	255
699	ADM699ANZ	255
699	OPA699IDG4	306
699	LTC699CS8#PBF	470
699	ADM699ARZ	255
6997	L6997S	487
7	OP07DRZ	304
7	ST7FLIT15BY1M6	161
7	ST7FLIT19BF1M6	161
7	ST7FLIT19BF1B6	161
7	OP07DNZ	304
7	ST7FLIT19BY1M6	161
7	ST7FLIT19BY1B6	161
7	ST7FLITE29F2M6	161
7	ST7FLIT15BY1B6	161
7	NC7S32M5	59
7	ST7FLIT19BF0M6	161
7	NC7S86M5	59
7	ST7FLIT2-IND/USB	161
7	ST7FLITE25F2M6	161
7	ST7FLITE19F1M6	161
7	ST7FLITE15F1M6	161
7	CY7C63001A-PXC	140
7	CY7C199C-12VXC	104
7	CY7C1049CV33-10ZXC	104
7	ST7FLITE09Y0M6	161
7	OP07DD	304
7	ST7FLITE05Y0M6	161
7	ST7FLITE02Y0M6	161
7	ST7FLITES5Y0M6	161
7	FS7M0680TU	503
7	ST7FLITES5Y0B6	161
7	ST7FLIT15BY0B6	161
7	ST7FLITES2Y0M6	161
7	ST7FLITES2Y0B6	161
7	ST7FLIT15BY0M6	161
7	FS7M0680YDTU	503
7	ST7FLIT15BF0B6	161
7	ST7FLIT15BF0M6	161
7	ST7FLIT10BY0B6	161
7	ST7FLIT10BY0M6	161
7	ST7FLIT10BF0B6	161
7	ST7FLIT10BF0M6	161
7	SN75372PE4	460
7	NC7SZ157P6X	59
7	NC7WZ07P6X	59
7	ST7FLITEUS5M6	161
7	ST7FLITEUS5B6	161
7	ST7FLITEUS2M6	161
7	ST7FLITEUS2B6	161
7	ST7FLIT15BF1B6	161
7	ST7FLIT15BF1M6	161
7	ST7FLIT10BY1B6	161
7	ST7FLIT10BY1M6	161
7	ST7FLIT10BF1B6	161
7	ST7FLIT10BF1M6	161
7	NC7SZ66M5	59
7	ST7FLIT19BY0B6	161
7	ST7FLIT19BY0M6	161
7	NC7SZD384M5	59
7	NC7SZ08M5	59
7	NC7SZ02M5	59
7	NC7SZ04M5	59
7	CY7C131-55JXC	106
7	CY7C185D-15PXC	104
7	NC7SZ32M5	59
7	NC7SZ125M5	59
7	ST7FLIT19BF0B6	161
7	CLC007BM/NOPB	445
7	NC7S00M5	59
7	NC7S02M5	59
7	NC7S04M5	59
7	NC7S08M5	59
7	CY7C64013-SXC	140
7	CY7C63723-SXC	140
7	CY7C63001A-SXC	140
7	NC7S14M5	59
7	ST7FLITE29F2B6	161
7	ST7FLITE25F2B6	161
7	ST7FLITE20F2B6	161
7	ST7FLITE19F1B6	161
7	ST7FLITE10F1B6	161
7	NC7WZ125K8X	59
7	NC7WZ126K8X	59
7	NC7NZ34K8X	59
7	NC7SZ66P5	59
7	ST7FLITE09Y0B6	161
7	NC7SZ74K8X	59
7	NC7NZ17K8X	59
7	NC7NZ04K8X	59
7	OP07CP	304
7	ST7FLITE05Y0B6	161
7	OP07CPZ	571
7	OP07CSZ.	304
7	OP07CD	304
7	CY7C63413C-PVXC	140
7	ST7FLITE30F2M6	161
7	ST7FLITE30F2B6	161
7	OP07CP	571
7	OP07EPZ	304
7	ST7FLITE35F2M6	161
7	OP07CPZ	304
7	OP07CN	304
7	ST7FLITE39F2B6	161
7	ST7FLITE39F2M6	161
7	ST7FLITE35F2B6	161
70	LM70CIMM-5	522
70	TSH70CLT	304
70	LMH0070SQE	346
70	UPD70F3372M2GKA-GAK-AX	224
70	LM70CIMM-3	522
70	UPD70F3374M2GCA-UEU-AX	224
70	UPD70F3370AM2GBA-GAH-AX	223
70	UPD70F3375M2GCA-UEU-AX	224
700	MAX700CSA+	255
700	MAX700ESA+	255
700	MAX700CPA+	255
7005	CDCM7005RGZTG4	356
7006	IDT7006L15JG	104
701	MAX701CSA+	255
701	ADG701LBRMZ	341
701	ADG701BRMZ	341
7010	TDA7010T/V3	535
7010	ADF7010BRUZ	356
70102	TPS70102PWPG4	545
7011	ADF7011BRUZ	356
7012	EVAL-ADF7012DBZ5	357
7012	EVAL-ADF7012DBZ2	357
7012	ADF7012BRUZ	356
70145	TPS70145PWPG4	555
70148	TPS70148PWPG4	555
70151	TPS70151PWPG4	557
70158	TPS70158PWPG4	557
7019	ADUC7019BCPZ62I	231
702	ADG702LBRMZ	341
702	ADG702BRMZ	341
702	MAX702CPA+	255
7020	ADF7020BCPZ	356
7020	ADF7020-1BCPZ	356
7020	EVAL-ADF7020-1DBZ5	357
7020	ADUC7020BCPZ62	231
7021	ADUC7021BCPZ32	231
7021	ADF7021BCPZ	356
7021	ADUC7021BCPZ62	231
7021	ADUC7021BCPZ62I	231
7022	ADUC7022BCPZ32	231
7022	ADUC7022BCPZ62	231
7024	ADUC7024BSTZ62	231
7024	ADUC7024BCPZ62	231
7025	ADUC7025BSTZ62	231
7025	ADF7025BCPZ	356
7026	SLA7026M	458
7026	ADUC7026BSTZ62	232
7026	ADUC7026BSTZ62I	232
7027	ADUC7027BSTZ62	232
7028	ADUC7028BBCZ62	232
7028	EVAL-ADUC7028QSZ	231
703	OPA703NA/250G4	306
703	MAX703CSA+	255
703	MAX703CPA+	255
7030	ADUC7030BCPZ-8V	232
7033	HT7050A-1-SOT89LF	357
70351	TPS70351PWPG4	558
704	MAX704SCSA+	256
704	AD704JNZ	319
704	STM704TM6E	260
704	STM704SM6E	260
704	STM704RM6E	260
704	ADG704BRMZ	339
704	MAX704CSA+	256
704	SP704EN-L	261
70402	TPS70402PWPG4	547
705	MC705C9ACPE	145
705	MC705P6ACPE	145
705	MAX705ESA+	256
705	MC705C8ACPE	145
705	SP705EN-L	261
705	ADM705ANZ	256
705	MAX705CPA+	256
705	MAX705CSA+	256
705	ADM705ARZ	256
7050	TDA7050T/N3	535
7052	TDA7052A/N2	535
7053	TDA7053A/N2	535
7056	TDA7056A/N2	535
7057	TDA7057AQ/N2	535
706	ADM706TARZ	256
706	ACS706ELC-05C	460
706	ADG706BRUZ	341
706	STM706TM6E	260
706	AD706JNZ	313
706	STM706SM6E	260
706	STM706RM6E	260
706	STM706PM6E	260
706	CDCE706PWG4	354
706	MAX706SCSA+	256
706	MAX706RESA+	256
706	MAX706SESA+	470
706	MAX706CSA+	256
706	SP706REN-L	261
706	SP706PEN-L	261
706	SP706SEN-L	261
706	SP706TEN-L	261
706	SP706EN-L	261
706	AD706ARZ	313
7060	LS7060	349
7062	SLA7062M	458
7064	EPM7064STC44-10N	574
7064	EPM7064STC44-10N	90
7064	EPM7064SLC44-5N	90
707	MAX707CSA+	256
707	ADG707BRUZ	340
707	MAX707ESA+	256
707	SP707EN-L	261
707	ADM707ARZ	256
707	MAX707CPA+	256
708	SP708EN-L	261
708	SP708TEN-L	261
708	AD708JNZ	313
708	STM708RM6E	260
708	STM708SM6E⅞	260
708	STM708TM6E	260
708	ADM708SARZ	256
708	ADM708ARZ	256
708	MAX708CSA+	256
708	ADG708BRUZ	340
708	MAX708CPA+	256
708	ADM708TARZ	256
708	ADM708TANZ	256
709	MAX709MCSA+	256
709	ADG709BRUZ	339
709	ADM709TARZ	256
709	ADM709RARZ	256
709	MAX709LCSA+	256
709	MAX709LCPA+	256
71	LM71CIMF	522
71	TSH71CD	304
71	TL071ACD	324
71	TL071BCD	324
71	IDT71V256SA20YG	104
71	TL071IP	324
71	TLC071AID	304
71	TLC071ID	304
710	MAX710ESE+	560
710	IL710-2E	456
710	REG710NA-5/250G4	470
710	STR710FZ1T6	163
710	REG710NA-3.3/250G4	470
710	LMV710M5	327
710	STR710FZ2T6	163
7101	LMC7101BIM5	329
7101	LMC7101AIM5	329
7101	TPS7101QDG4	545
71016	IDT71016S20YG	104
71024	IDT71024S12YG	104
71024	GS71024GT-10	105
71024	GS71024GT-12I	105
71024	GS71024GT-8	105
71025	TPS71025DG4	553
7104	EL7104CSZ	464
7104	EL7104CNZ	464
7106	ICL7106CPLZ	290
7107	ICL7107CPLZ	290
7107	TC7107CPL	290
7107	ICL7107RCPLZ	290
7107	ICL7107CPL+	444
7109	ICL7109CPL+	284
7109	TC7109CPL	284
711	LMV711M6	327
711	AD711JNZ	325
711	STR711FR2T6	575
711	REG711EA-5/250	471
711	AD711KNZ	306
711	AD711JRZ	325
711	ADG711BRZ	344
711	REG711EA-3.3/250	470
711	STR711FR0T6	163
711	REG711EA-2.5/250	470
711	STR711FR2T6	163
711	IL711-3E	456
71108	GS71108AGP-10	105
71108	GS71108AGP-10I	105
71108	GS71108AGP-12	105

Index by Type for Semiconductor ICs

	Mftrs. List No.	Page
7111	LMC7111BIM5X	310
7111	AD7111ABNZ	292
71116	GS71116AGP-10I	105
71116	GS71116AGP-12	105
71116	GS71116AGP-8	105
7113	SAA7113H/V2,557	535
7114	SAA7114H/V2,557	535
7115	SAA7115HL/V1,557	535
7116	TC7116CPL	280
7117	TC7117CKW	290
712	DAC712PB	297
712	AD712JNZ	326
712	AD712KRZ	313
712	STR712FR2T6	575
712	MAX712CPE+	471
712	DAC712U	297
712	STR712FR2T6	163
712	STR712FR1T6	163
712	STR712FR0T6	163
712	AD712JNZ	570
712	IL712-3E	456
712	LMV712MM	306
712	AD712KNZ	326
712	ACS712ELCTR-05B-T	439
712	DAC712PG4	297
712	ACS712ELCTR-20A-T	439
712	IL712-2E	456
712	ADG712BRZ	344
712	AD712JRZ	326
7120	ADV7120KSTZ30	300
7121	LM7121IM	310
7121	LM7121IM5	310
7121	SAA7121H/V2,557	535
7123	ADV7123JSTZ240	300
7125	ADV7125KSTZ140	300
7125	ADV7125JSTZ240	300
7125	ADV7125KSTZ50	292
71256	IDT71256SA20YG	104
7126	ICL7126CPLZ	290
7126	TC7126CPL	290
7127	ADV7127JRUZ240	300
7128	ADUC7128BCPZ126	232
7128	EVAL-ADUC7128QSPZ	231
7128	EPM7128STC100-15N	90
7128	EPM7128AETC100-10N	90
713	MAX713CSE+	471
713	AD713JRZ-16	319
713	AD713JNZ	327
713	MAX713CPE+	471
713	ADG713BRZ	344
7133	TPS7133QD	557
7133	IDT7133SA35JG	570
7133	IDT7133SA35JG	106
7134	IDT7134SA35JG	106
7135	TLC7135CDW	280
7135	ICL7135CPIZ	290
7135	ICL7135CNG4	290
7136	ICL7136CM44Z	290
7136	ICL7136CPLZ	290
714	ADG714BRUZ	344
714	DAC714P.	297
714	DAC714U	297
7142	AD7142ACPZ	513
7143	AD7143ACPZ	513
715	IL715E	456
715	IL715-3E	456
715	TPS715A01DRBT	543
715	TPS715A33DRBT	556
715	STR715FR0T6	163
715	LMV715MF	306
715	DAC715P	297
715	ADG715BRUZ	344
7150	TPS7150QD	561
7150	AD7150BRMZ	513
71501	TPS71501DCKR	491
71530	TPS71530DCKR	555
71533	TPS71533DCKR	556
7154	EL7154CSZ	464
7155	EL7155CSZ	464
7156	EL7156CNZ	464
7156	EL7156CSZ	464
7158	EL7158ISZ	464
716	DAC716P	297
716	IL716E	456
716	IL716-3E	456
716	LMV716MM	306
7166	LS7166	349
717	NC7WZ17P6	59
717	IL717-3E	456
7171	LM7171BIN/NOPB	310
7171	LM7171BIN	310
7171	LM7171AIM.	310
71710	TPS71710DCKT	550
71713	TPS71713DCKT	551
71715	TPS71715DCKT	551
71718	TPS71718DCKTG4	552
71725	TPS71725DCKT	553
71726	TPS71726DCKTG4	554
7179	ADV7179BCPZ	300
7180	ADV7180BSTZ	529
7184	ADV7184BSTZ	535
7188	ADV7188BSTZ	535
719	ADG719BRTZ-500RL7	341
719	ADG719BRMZ	341

	Mftrs. List No.	Page
7190	HI7190IBZ	289
71933	TPS71933-33DRVTG4	544
7194	ADV7194KSTZ	535
72	TLC072AIDG4	312
72	TL072IP	326
72	TSH72CD	312
72	TSH72CPT	312
72	TL072CD	312
72	TL072ACD	312
7201	IDT7201LA35JG	106
7201	TPS7201QD	544
7202	IDT7202LA35JG	106
7202	EL7202CSZ	464
7204	IDT7204L12SOG	106
7204	IDT7204L12SOG	570
7204	IDT7204L35JG	106
7205	IDT7205L20JG	106
721	ISO721MDG4	337
721	ISO721DG4	337
721	LMV721M5	306
721	LMV721M7	306
7210	LS7210	528
72108	GS72108AGP-12I	105
7211	LMC7211BIM	429
7211	ICM7211AMIPLZ	439
7211	LMC7211AIM5	429
7211	LMC7211BIM5	429
7211	LMC7211AIM/NOPB	429
72116	GS72116AGP-10I	105
7212	EL7212CSZ	464
7215	LMC7215IM	429
7215	LPV7215MG	429
7218	ICM7218DIJI	444
7218	ICM7218AIPI	444
7218	ICM7218AIPI+	444
7218	ICM7218CIJI	444
7218	ICM7218BIJI	444
7218	ICM7218AIJI	444
7218	ADG721BRMZ	342
7219	MAX7219CNG+	444
7219	MAX7219CWG+	444
7219	LMV7219M5	429
7219	LMV7219M7	429
7219	MAX7219CNG+	571
722	LMV722M	313
722	LMV722MM.	313
722	LMV722MM	313
722	ADG722BRMZ	342
722	0722MG	550
7220	ISO7220CD	337
7220	ISO7220MD	337
7220	ISO7220AD	337
7220	LMH7220MG	429
7220	LMH7220MK/NOPB	429
7221	LMC7221BIM	429
7221	ISO7221CD	337
7221	MAX7221CNG+	444
7221	MAX7221CWG+	444
7221	ISO7221MD	337
7221	ISO7221AD	337
7221	LMC7221AIM/NOPB	429
7221	LMC7221AIM5	429
7222	EL7222CSZ	464
72221	IDT72221L15PFG	106
72231	IDT72231L15PFG	106
7224	AD7224KNZ	292
7225	AD7225KNZ	292
7225	AD7225LNZ	292
7225	TLC7225CDW	292
7226	AD7226KPZ	292
7226	TLC7226CN	292
7226	TLC7226IDW	292
7226	TLC7226IN	292
7226	AD7226KNZ	292
7226	MX7226KN+	291
7226	AD7226KNZ	570
7228	ICM7228BIPIZ	444
7228	AD7228KNZ	292
7228	ICM7228AIBIZ	444
7228	ICM7228AIPIZ	444
7228	AD7228ABNZ	292
7228	AD7228ABRZ	292
7228	AD7228ACPZ	292
7228	AD7228LNZ	292
7228	AD7228KPZ	292
7229	ADS7229IPW	295
723	LM723H	544
723	LM723N	544
723	LM723CN	544
723	LM723CH	544
723	UA723CD	544
723	UA723CNG4	547
7230	ISO7230ADWG4	456
7230	ISO7230MDWG4	456
7230	ISO7230CDWG4	456
72301	TPS72301DBVTG4	544
7231	ISO7231CDW	456
7231	ISO7231ADW	456
7231	ISO7231MDW	456
7232	EL7232CSZ	464
7232	LS7232	458
7233	AD7233ANZ	295
7235	LMV7235M5	429
7235	LMV7235M7	429

	Mftrs. List No.	Page
7237	AD7237JNZ	295
7238	ADG723BRMZ	342
7239	LMV7239M7	429
7239	LMV7239M5	429
724	AD724JRZ	532
7240	TDA7240AV	535
7240	TDA7240AH	535
7240	ICM7240IPE+	528
7242	EL7242CSZ	464
7242	ICM7242IPAZ	528
72421	RTC72421B	253
72423	RTC72423B	253
7243	ICM7243BIPLZ	444
7243	AD7243ANZ	295
7244	AD7244JRZ	297
7245	AD7245AANZ	295
7245	AD7245AAPZ	295
7247	AD7247AANZ	295
7247	AD7247JNZ	295
7248	AD7248JNZ	570
7248	AD7248AARZ	295
7248	AD7248JNZ	295
7248	AD7248AANZ	295
7249	AD7249ARZ	295
7249	AD7249ANZ	295
725	AD725ARZ	532
725	LM725CN	336
7250	ICM7250IPE+	528
7250	TPS7250QD	560
7250	TPS7250QP	560
72501	TPS72501DCQG4	546
72501	TPS72501KTTT	546
72515	TPS72515DCQG4	551
72515	TPS72515KTTT	551
72518	TPS72518KTTT	552
72518	TPS72518DCQ	552
7252	EL7252CSZ	464
72525	TPS72525KTTT	554
72543	MGA-72543-BLKG	357
726	ADG726BSUZ	341
7261	MMA7261QT	520
7266	AD7266BSUZ	573
7266	AD7266BSUZ	284
7266	AD7266BCPZ	284
727	OP727ARZ	313
727	OPA727AIDRBTG4	306
7271	LMV7271MF	429
7271	LMV7271MG	429
7273	AD7273BRMZ	281
7274	AD7274BRMZ	284
7275	LMV7275MF	429
7275	LMV7275MG	429
7276	AD7276BRMZ	284
7277	AD7277BRMZ	281
7278	AD7278BRMZ	280
7279	ADS7279IPW	297
728	ADG728BRUZ	340
729	ADG729BRUZ	339
7291	LMV7291MG	429
7293	TDA7293V	535
7294	AD7294BSUZ	284
7294	TDA7294V	536
73	LM73CIMK-1	522
73	LM73CIMK-0	522
73	TSH73CD	318
73	TSH73CPT	318
730	STR730FZ2T7	163
730	STR730FZ1T6	163
7300	LMP7300MA	431
73001	TPS73001DBVT	544
7301	MAX7301AAX+	356
7301	RTC-7301SF	253
7301	RTC-7301DG	253
7301	LM7301IM5	310
7301	TPS7301QD	545
7301	LM7301IM	310
7301	ADT7301ARMZ	524
73018	TPS73018DBVT	552
7302	AD7302BRZ.	292
7302	AD7302BNZ	292
7302	ADT7302ARMZ	524
7302	AD7302BRUZ	292
73024	GS73024AGB-10I	105
73025	TPS73025DBVT	553
73025	TPS73025YZQT	553
73028	TPS73028DBVTG4	554
730285	TPS730285DBVTG4	555
7303	THS7303PWG4	536
7303	AD7303BNZ	292
73030	TPS73030DBVT	555
73033	TPS73033DBVT	556
7304	AD7304YRZ	292
73047	TPS73047DBVTG4	562
7305	AD7305BRUZ	292
7306	AD7306JNZ	347
731	STR731FV2T7	163
731	STR731FV2T6	163
73101	TPS73101DBVTG4	544
7311	DAC7311IDCKT	295
7311	FAN7311M	439
7311	FAN7311BM	439
73118	TPS73118DBVT	552
7313	FAN7313M	439
73133	TPS73133DBVTG4	556

	Mftrs. List No.	Page
7314	THS7314DG4	536
7314	AD7314ARMZ	524
7315	THS7315D	536
7316	THS7316DG4	536
732	ADG732BSUZ	341
732	MAX732CWE+	560
73201	TPS73201DBVTG4	544
7321	AD7321BRUZ	284
7321	LM7321MA	310
7321	LM7321MF	310
7321	LM7321MFE	310
7322	AD7322BRUZ	284
7322	LM7322MM	317
7322	LMH7322SQ	429
7322	LM7322MME	317
7322	LM7322MA	317
73225	TPS73225DBVT	553
7323	AD7323BRUZ	284
7324	AD7324BRUZ	284
7327	AD7327BRUZ	284
7329	AD7329BRUZ	284
733	UA733CN	333
733	UA733CD	532
7330	MMA7330LT	520
7331	MMA7331LT	520
73311	AD73311ARZ	300
734	AD734BQ	341
734	AD734AQ	341
734	AD734ANZ	341
734	ADG734BRUZ	344
734	AD734BNZ	341
7340	MMA7340LT	520
7341	LM7341MFE	310
7341	LM7341MF	310
7341	MMA7341LT	520
7343	ADV7343BSTZ	529
735	MAX735CSA+	556
735	STR735FZ2T7	163
735	STR735FZ2T6	163
735	STR735FZ1T6	163
735	OPA735AID	306
735	OPA735AIDBVT	306
7350	TPS7350QD	561
7353	THS7353PWG4	536
736	STR736FV0T6	163
736	STR736FV2T6	163
736	STR736FV2T7	163
736	ADG736LBRMZ	342
736	AD736JRZ	342
736	AD736JNZ	437
736	ADG736BRMZ	342
736	STR736FV1T6	163
7360	MMA7360LT	520
73601	TPS73601DCQG4	544
73601	TPS73601DBVTG4	544
73615	TPS73615DCQ	551
73618	TPS73618DBVTG4	552
7362	FAN7362M	464
73633	TPS73633DCQ	557
73633	TPS73633DRBR	557
73633	TPS73633DBVTG4	557
7366	AD7366BRUZ-5	284
7367	AD7367BRUZ-5	286
7368	MMA7368LT	520
737	AD737JNZ	437
7372	LM7372MR.	317
7375	THS7375IPW	536
738	ADG738BRUZ	340
738	MAX738ACPA+	471
738	MAX738AEWE+	561
7380	FAN7380M	464
73811	MCP73811T-420I/OT	491
73812	MCP73812T-420I/OT	491
7382	FAN7382M	464
7382	FAN7382N	464
73826	MCP73826-4.2VCHTR	491
73826	MCP73826-4.2VCHTR.	491
7383	MCP73831EV	496
7383	FAN7383M	464
73831	MCP73831T-2ACI/OT	491
73832	MCP73832T-2ACI/OT	491
73832	FAN73832N	466
73832	FAN73832M	466
73833	MCP73833-FCI/UN	491
73833	MCP73833-AMI/UN	491
73833	MCP73833EV	496
73834	MCP73834-FCI/UN	491
73837	MCP73837-FCI/UN	491
7384	FAN7384M	464
73841	MCP73841-420I/UN	491
7385	FAN7385M	464
7386	MCP7386XEV	496
73861	MCP73861-I/SL	491
73861	MCP73861-I/MLG	491
73862	MCP73862-I/SL	491
73863	MCP73863-I/ML	491
73863	MCP73863-I/SL	491
73864	MCP73864-I/SL	491
73871	MCP73871-2CCI/ML	491
73871	MCP73871-2CAI/ML	491
73871	MCP73871-2AAI/ML	491
739	ADG739BRUZ	339
7390	AD7390ANZ	295
7390	AD7390ARZ	295

Index by Type for Semiconductor ICs

	Mftrs. List No.	Page
7391	ADV7391BCPZ	529
7391	AD7391ANZ	293
7391	AD7391ARZ	293
7392	AD7392ARZ	295
7393	ADV7393BCPZ	529
7398	AD7398BRZ	295
74	CD74HCT74E	68
74	SN74AHCT1G125DBVR	61
74	CD74HCT86E	68
74	CD74HCT123E	68
74	SN74AHCT1G32DBVR	61
74	CD74HCT125E	68
74	CD74HCT132E	68
74	CD74HCT138E	68
74	CD74HCT139E	68
74	SN74AHCT1G14DBVR	61
74	SN74AHCT1G08DBVR	61
74	CD74HCT244E	69
74	CD74HCT175E	68
74	CD74HCT174E	68
74	CD74HCT164E	68
74	SN74AHCT1G04DBVR	61
74	CD74HCT374E	69
74	CD74HCT393E	69
74	SN74AHCT1G00DBVR	61
74	SN74AHC1G125DBVR	60
74	CD74HCT541E	69
74	CD74HCT165E	68
74	CD74HCT573E	69
74	CD74HCT574E	70
74	SN74ALS08N	80
74	SN74ALS32N	80
74	SN74ALS04BN	80
74	SN74ALS74AN	80
74	SN74ALS00AN	80
74	CD74HCT245E	69
74	SN74LVC245APWR	73
74	CD74HCT273E	69
74	SN74ALS240AN	81
74	SN74ALS244CN	81
74	CD74HCT373E	69
74	SN74ALS245AN	81
74	SN74ALS374AN	81
74	SN74ALS540N	81
74	SN74ALS541N	81
74	SN74ALS573CN	81
74	SN74ALS574BN	81
74	CD74HCT00E	67
74	CD74HCT02E	67
74	SN74LVC244APWR	73
74	SN74LVC373ADW	73
74	CD74HCT04E	67
74	CD74HCT08E	67
74	SN74LVC00APWR	72
74	SN74LVC1G06DBVR	74
74	CD74HCT14E	67
74	CD74HCT32E	68
74	CD74AC00M	77
74	CD74AC04M	77
74	CD74AC05M	77
74	CD74AC08M	77
74	CD74AC138M	77
74	CD74AC157M	77
74	CD74AC161M	77
74	CD74AC244M	77
74	CD74AC245M	77
74	CD74AC273M	77
74	CD74AC32M	77
74	CD74AC373M	78
74	CD74AC541M	78
74	CD74AC74M	77
74	CD74AC573M	78
74	CD74AC574M	77
74	CD74ACT138M	78
74	CD74ACT86M	78
74	CD74ACT74M	78
74	CD74ACT574M	78
74	CD74ACT573M	78
74	CD74ACT541M	78
74	CD74ACT374M	78
74	CD74ACT373M	78
74	CD74ACT32M	78
74	CD74ACT245M	78
74	CD74ACT244M	78
74	CD74ACT14M	78
74	CD74ACT08M	78
74	CD74ACT04M	78
74	CD74ACT02M	78
74	CD74ACT00M	78
74	CD74AC86M	77
74	SN74LVC14AD	73
74	SN74LVC08AD	73
74	SN74LVC04AD	72
74	SN74LVC00AD	72
74	SN74LVC1G07DBVR	74
74	CD74HC423M	65
74	74LV244D	72
74	74HCT86N	68
74	74HCT74N	68
74	74HCT640N	70
74	74HCT574N	70
74	74HCT573N	69
74	74HCT541N	69
74	74HCT541D	69
74	74HCT540D	69
74	74HCT4538N	70
74	74HCT4053N	70
74	SN74F245DW	82
74	SN74ALS244CDW	81
74	CD74ACT573E	78
74	CD74ACT164E	78
74	CD74ACT14E	78
74	CD74ACT04E	78
74	CD74ACT00E	78
74	SN74LVC373APWR	73
74	SN74LVC245ADW	73
74	SN74LVC244ADW	73
74	SN74LVC125APWR	73
74	SN74LVC32APWR	73
74	SN74LVC14APWR	73
74	SN74LVC08APWR	73
74	SN74LVC04APWR	72
74	SN74LVC125AD	73
74	SN74LVC32AD	73
74	MC74HC132ADTG	63
74	MC74HC14ADTG	62
74	MC74HC139ADG	63
74	MC74HC138ADG	63
74	MC74HC04ADG	62
74	MC74HCT244ANG	69
74	MC74HC86ANG	63
74	CD74HC74M	62
74	CD74HC574M	65
74	CD74HC4094M	66
74	CD74HC4053M	66
74	CD74HC4052M	66
74	CD74HC4051M	66
74	CD74HC4046AM	66
74	CD74HC377M	65
74	CD74HC273M	65
74	CD74HC245M	64
74	SN74AHC1G32DBVR	60
74	SN74AHC1G14DBVR	60
74	SN74AHC1G08DBVR	60
74	SN74AHC1G04DBVR	60
74	SN74AHC1G00DBVR	60
74	SN74LS74AN	80
74	SN74LS157N	80
74	SN74LS123D	80
74	SN74LS05N	80
74	MC74HC595ADTG	66
74	MC74HC573ADTG	65
74	MC74HC541ADTG	65
74	MC74HC374ADTG	65
74	MC74HC373ADTG	65
74	MC74HC273ADTG	65
74	MC74HC245ADTG	64
74	MC74HC244ADTG	64
74	CD74HCT373M	69
74	CD74HCT273M	69
74	CD74HCT245M	69
74	CD74HCT244M	69
74	CD74HCT174M	68
74	CD74HCT165M	68
74	CD74HCT138M	68
74	CD74HCT125M	68
74	CD74HCT123M	68
74	CD74HCT86M	68
74	CD74HCT32M	68
74	CD74HCT14M	67
74	CD74HCT08M	67
74	CD74HCT04M	67
74	CD74HCT02M	67
74	CD74ACT646M	79
74	CD74ACT163M	78
74	CD74HC165M	64
74	CD74HC164M	64
74	CD74HC14M	62
74	CD74HC139M	63
74	CD74HC132M	63
74	CD74HC123M	63
74	CD74HC08M	62
74	CD74HC04M	62
74	CD74HC02M	61
74	CD74HC00M	61
74	CD74HCT4538M	70
74	CD74HCT4066M	70
74	CD74HCT4053M	70
74	CD74HCT4040M	70
74	CD74HCT688M	70
74	CD74HCT574M	70
74	CD74HCT573M	69
74	SN74HCT74D	68
74	SN74HCT574N	70
74	SN74HCT574DW	70
74	SN74HCT573N	70
74	SN74HCT573DW	70
74	SN74HCT541PW	69
74	74AC08PC..	77
74	74AC08SC..	77
74	74AC11PC	77
74	74AC32PC..	77
74	74AC374PC	77
74	74AC541PC	77
74	74ACT32SC..	78
74	74ACT373PC	78
74	74ACT74PC	78
74	SN74HCT541N	69
74	SN74HCT541DW	69
74	74ACT74SC..	78
74	74F02PC	81
74	SN74HCT540N	69
74	SN74HCT540DW	69
74	74F02SC	81
74	SN74HCT374N	69
74	SN74HCT374DW	69
74	74F14PC..	81
74	74F153PC	82
74	SN74HCT373N	69
74	SN74HCT373DW	69
74	SN74LV08APW	72
74	SN74LV08AD	72
74	SN74LV04APW	72
74	SN74LS74AD	80
74	SN74LS541DW	80
74	SN74LS374NG4	80
74	SN74LS374DW	80
74	SN74LS373DW	80
74	SN74LS32D	80
74	SN74LS259BN	80
74	SN74LS247N	80
74	SN74LS245DW	80
74	SN74LS244DW	80
74	SN74LS165AD	80
74	SN74LS14D	80
74	SN74LS145D	80
74	SN74LS139AN	80
74	SN74LS138D	80
74	SN74ALS521N	428
74	SN74LS125AD	80
74	SN74LS08NG4	80
74	SN74LS07D	80
74	SN74LS06NG4	80
74	SN74LS06D	80
74	SN74LS05D	80
74	SN74LS00D	80
74	SN74HCU04D	67
74	SN74HCT74NG4	68
74	DM74ALS02N	80
74	DM74ALS138N..	81
74	DM74ALS153N	81
74	DM74ALS163BN	81
74	DM74ALS20AN	80
74	DM74ALS245AN..	81
74	MM74HC123AN	63
74	MM74HC126N	63
74	MM74HC157M	63
74	MM74HC157N	63
74	MM74HC251N..	64
74	MM74HC273N	65
74	MM74HC4049N	66
74	MM74HC4050N	66
74	SN74HCT245DW	69
74	SN74HCT244PW	69
74	SN74HCT244NG4	69
74	SN74HCT244DW	69
74	SN74HCT240N	69
74	MM74HC4316N	66
74	MM74HCT04N	67
74	MM74HCT138N	68
74	SN74HCT240DW	69
74	SN74HCT157D	68
74	SN74HCT14N	67
74	SN74HCT14D	67
74	SN74HCT139D	68
74	MM74HCT32N	68
74	SN74HCT32N	68
74	SN74HCT32D	68
74	74F161APC	82
74	SN74HCT273PW	69
74	74F163APC	82
74	74F174SC	82
74	74F373PC.	82
74	74F373SC	82
74	74F38PC	81
74	74F74PC..	81
74	74F827SPC	82
74	74LCX04M..	71
74	74LCX74M..	71
74	74LVT240WM	75
74	74LVT573WM	75
74	74LVX74M	76
74	MC74HC390ANG	65
74	MC74HCT245ANG	69
74	MC74HCT273ANG	69
74	MC74HCT573ANG	70
74	74VHC02M..	60
74	74VHC08M..	60
74	74VHC125M.	60
74	SN74HCT273N	69
74	74VHC4052M.	60
74	74VHC574N	60
74	SN74HCT273DW	69
74	SN74HCT245N	69
74	CD74HCT74M..	62
74	CD74HC4052M..	66
74	CD74HC4046AM.	66
74	CD74HCT377M.	65
74	CD74HC373M	65
74	CD74ACT573E.	78
74	CD74ACT138M.	78
74	CD74AC74E	77
74	CD74AC541M.	78
74	CD74AC541E	77
74	CD74AC161E	77
74	CD74AC157M.	77
74	SN74150N	82
74	SN74123N	82
74	SN74LVC1G175DBVT	74
74	SN74LVC1G332DCKR	74
74	SN74LVC1G34DBVT	74
74	SN74LVC1GX04DBVT	74
74	SN74LVC1GX04DCKT	74
74	SN74LVC1T45YZPR	74
74	SN74LVC2T45YZPR	75
74	M74HCT573B1R	69
74	M74HCT138B1R	68
74	M74HCT08B1R	67
74	M74HCT04B1R	67
74	M74HC573B1R	65
74	M74HC563B1R	65
74	M74HC4078B1R	66
74	CD74ACT08E	78
74	CD74ACT244E	78
74	CD74ACT245E	78
74	CD74ACT273E	78
74	CD74ACT541E	78
74	SN74F04D	81
74	CD74AC14M	77
74	SN74ALS245ADW	81
74	74ACT11244DW	79
74	SN74ALS573CN..	80
74	SN74ALS574BN..	81
74	SN74LS04D	80
74	SN74HC14D	62
74	SN74F138D	82
74	LM74CIM-3/NOPB	522
74	SN74AUP1G04DCKT	58
74	SN74LVC16T245DGGR	73
74	TC74A2-5.0VAT	522
74	SN74LVC1G123DCUT	74
74	SN74LVC1G139DCTT	74
74	CD74HCT74M.	68
74	CD74HCT4053M.	70
74	CD74HCT393E..	69
74	CD74HCT259E	69
74	TC74A3-5.0VAT	522
74	CD74HCT245M..	69
74	CD74HCT174M.	68
74	CD74HCT163E	68
74	SN74LVC4245ADW	73
74	SN74LVC2T45DCUT	74
74	SN74LVC2244APW	73
74	SN74LVC1T45DCKT	74
74	SN74LVC157APW	73
74	MC74HCT373AN	69
74	MC74HC4051AN	66
74	SN74LVC139APW	73
74	SN74LVC138APW.	73
74	SN74LVC138AD	73
74	SN74LVC07APW.	72
74	SN74LVC07AD	72
74	SN74LVC02APW	72
74	SN74LV573APW	72
74	SN74LV4066APW	72
74	SN74LV4052APW	72
74	SN74LV32APW	72
74	SN74LV32AD	72
74	SN74LV273APW	72
74	SN74LV244APW	72
74	SN74LV240APW	72
74	SN74LV165APW	72
74	SN74LV14APW	72
74	SN74LV14AD	72
74	SN74LV139APW	72
74	SN74LV132APW	72
74	SN74LV125APW	72
74	SN74LV125AD	72
74	M74HC4075B1R	66
74	M74HC390B1R	65
74	M74HC365B1R	65
74	M74HC30B1R	62
74	M74HC299B1R	65
74	M74HC27B1R	62
74	M74HC259B1R	64
74	M74HC257B1R	64
74	M74HC241B1R	64
74	M74HC240B1R	64
74	M74HC161B1R	63
74	M74HC126B1R	63
74	M74HC123B1R	63
74	M74HC107B1R	63
74	M74HC02B1R	61
74	M74HC00B1R	61
74	SN74LVTH573PW	75
74	SN74LVTH245APW	75
74	SN74LVTH244APW	75
74	SN74LVTH16245ADL	76
74	SN74LVTH125PW	75
74	SN74LVTH125D	75
74	SN74LVT244BDW	75
74	SN74LVT125D	75
74	SN74LVCH245APW	73
74	SN74LVC74APW	73
74	SN74LVC574APW	73
74	SN74LVC541APW	73

Index by Type for Semiconductor ICs

	Mftrs. List No.	Page
74	SN74AVC4T245PWT	346
74	SN74AVC4T245PW	346
74	SN74AVC2T45DCUT	346
74	SN74AVC1T45DCKT	346
74	SN74AVC1T45DBVT	346
74	SN74AUP1T98DCKT	58
74	SN74AUP1T98DBVT	58
74	SN74AUP1T97DBVT	58
74	MM74HC04N	62
74	MM74HC02N	62
74	MM74C923N	77
74	MM74C922N	77
74	MM74C914N	77
74	MM74C906N	77
74	MM74C244N	77
74	MM74C221N	77
74	MM74C00N	77
74	74F573PC	82
74	74F543SPC	82
74	74F541PC	82
74	74F521PC	82
74	74F373PC	82
74	74F245PC	82
74	74F193PC	82
74	74F138PC	82
74	74F86PC	82
74	74F74PC	82
74	74F32PC	81
74	74F14PC	82
74	74F08PC	81
74	74F04PC	81
74	MM74HCT540WM	69
74	MM74HC00M	61
74	TLC074AID	304
74	MM74HC4538N	67
74	MM74HC4514N	66
74	MM74HC4066N	66
74	MM74HC4060N	66
74	MM74HC4046N	66
74	MM74HC4040N	64
74	MM74HC573N	65
74	MM74HC393N	65
74	TLC074CD	304
74	MM74HC374N	65
74	MM74HC373N	65
74	MM74HC259N	64
74	MM74HC251N	64
74	MM74HC245AN	64
74	MM74HC244N	64
74	MM74HC240N	64
74	MM74HC175N	64
74	MM74HC174N	64
74	MM74HC165N	64
74	MM74HC164N	64
74	MM74HC154N	63
74	MM74HC151N	63
74	MM74HC138N	63
74	MM74HC132N	63
74	MM74HC125N	63
74	MM74HC74AN	62
74	MM74HC32N	62
74	MM74HC14N	62
74	MM74HC08N	62
74	SN74AVC8T245PW	346
74	74LVT162245MTD	75
74	74LVT162244MTD	75
74	74LVT574WM	75
74	74LVT574MTC	75
74	74LVT573MTC	75
74	74LVT245WM	75
74	74LVT245MTC	75
74	74LVT244WM	75
74	74LVT244MTC	75
74	74LCX74M	71
74	74LCX574WM	71
74	74LCX573WM	71
74	74LCX541WM	71
74	74LCX374WM	71
74	74LCX32M	71
74	74LCX257M	71
74	74LCX245WM	71
74	74LCX244WM	71
74	74LCX240WM	71
74	74LCX157M	71
74	74LCX14M	71
74	74LCX138M	71
74	74LCX125M	71
74	74LCX08M	71
74	74LCX04M	71
74	74LCX02M	71
74	74LCX00M	71
74	DM74ALS86N.	81
74	DM74ALS541N.	81
74	MM74HCT540N.	69
74	MM74HCT273N.	69
74	MM74HCT240N.	69
74	MM74HCT240WM	69
74	MM74HCT273WM	69
74	MM74HCT164M	68
74	MM74HCT14M	67
74	MM74HCT05M	67
74	MM74HC4514WM	66
74	MM74HC4316M	66
74	MM74HC4053M	66
74	MM74HC4052M	66
74	MM74HC4051M	66
74	MM74HC4050M	66
74	MM74HC4049M	66
74	MM74HC595M	66
74	TLC074IDR	318
74	MM74HC594M	66
74	MM74HC589M	66
74	MM74HC393M	65
74	MM74HC251M	64
74	MM74HC175M	64
74	MM74HC154WM	63
74	MM74HC151M	63
74	MM74HC126M	63
74	MM74HC86M	63
74	MM74HC4053N	66
74	MM74HC4052N	66
74	MM74HC595N	66
74	MM74HC00N	61
74	LM74CIM-3/NOPB.	522
74	74LVT16374MTD	75
74	74LVT16373MTD	75
74	74LVT16245MTD	75
74	74LVT16244MTD	75
74	74LVX04M	76
74	MM74HCT244WM	69
74	74LVX08M	76
74	74LVX3245WM	76
74	MM74HCT244N	69
74	74LVX4245WM	76
74	74LVX32M	76
74	74LVX14M	76
74	MM74HCT138M	68
74	74LVX125M	76
74	74LVX138M	76
74	74LVXC4245WM	76
74	74VHC00M	60
74	74VHC02M	60
74	74VHC04M	60
74	74VHC08M	60
74	74VHC14M	60
74	74VHC32M	60
74	74VHC74M	60
74	74VHC86M	60
74	74VHC123AM	60
74	74VHC125M	60
74	74VHC132M	60
74	74VHC138M	60
74	74VHC244M	60
74	74VHC245M	60
74	74VHC541M	60
74	MM74HCT74N	68
74	74VHC573M	60
74	74VHC574M	60
74	74VHC4046M	60
74	MM74HCT74M	68
74	74AC08PC	77
74	74AC10PC	77
74	74AC14PC	77
74	74AC32PC	77
74	74AC138PC	77
74	74AC244PC	77
74	74AC245PC	77
74	74AC273PC	77
74	74ACT244PC	78
74	74ACT245PC	78
74	74ACT573PC	78
74	74ACT574PC	78
74	TL074BCD	324
74	MM74HCT08M	67
74	MM74HCT573WM	70
74	MM74HCT573N	70
74	74AC04PC	77
74	74AC02PC	77
74	MM74HCT574WM	70
74	MM74HCT574N	70
74	MM74HCT541WM	69
74	MM74HCT374WM	69
74	DM74ALS138M	81
74	DM74ALS244AWM	81
74	MM74HCT373WM	69
74	DM74ALS373WM	81
74	74F245SC	82
74	74LVXC3245WM	76
74	MM74HCT373N	69
74	MM74HCT245WM	69
74	MM74HCT245N	69
74	74LVX00M	76
74	74AC04SC	77
74	74AC14SC	77
74	74AC32SC	77
74	74AC74SC	77
74	74ACT00SC	78
74	74ACT04SC	78
74	74ACT08SC	78
74	74ACT245SC	78
74	74ACT32SC	78
74	74ACT244SC	78
74	74AC86SC	77
74	74AC541SC	77
74	74AC245SC	77
74	74AC244SC	77
74	74AC02SC	77
74	74ACT574SC	78
74	74ACT74SC	78
74	74ACT138SC	78
74	DM74ALS00AN	80
74	MM74HC32M	62
74	DM74ALS32N	80
74	DM74ALS573BN	81
74	MM74HC14M	62
74	DM74ALS574AN	81
74	DM74ALS645AN	81
74	DM74ALS138N	81
74	DM74ALS244AN	81
74	DM74ALS245AN	81
74	DM74ALS14N	80
74	MM74HC08M	62
74	MM74HC04M	62
74	MM74HC02M	62
74	MM74HCT04M	67
74	MM74HCT00M	67
74	MM74HC4538M	67
74	MM74HC4046M	66
74	MM74HC4040M	66
74	74VHC4052M	60
74	74VHC4053M	60
74	74VHC4066M	60
74	74VHC04N	60
74	74VHC14N	60
74	74VHC74N	60
74	74VHC244N	60
74	MM74HC688WM	66
74	MM74HC574WM	65
74	MM74HC573WM	65
74	MM74HC541WM	65
74	MM74HC74AM	62
74	MM74HC123AM	63
74	MM74HC125M...	63
74	MM74HC132M	63
74	MM74HC138M	63
74	MM74HC164M	64
74	MM74HC165M	64
74	MM74HC174M	64
74	74AC00SC	77
74	MM74HC240WM	64
74	MM74HC244WM	64
74	MM74HC245AWM	64
74	MM74HC259M	64
74	MM74HC273WM	65
74	MM74HC373WM	65
74	MM74HC374WM	65
74	MM74HC540WM	65
74	MC74HC273ANG	65
74	MC74HC245ANG	64
74	MC74HC244ANG	64
74	MC74HC240ANG	64
74	SN74LS245N.	80
74	SN74LS32N.	80
74	SN74LS373N.	80
74	SN74LS393N.	80
74	SN74LS47N.	80
74	SN74LS75N.	80
74	SN74LS85N.	80
74	SN74LS86AN.	80
74	74ABT125D.	79
74	74HC00N	61
74	74HC02N	61
74	TC74A5-5.0VCTTR	526
74	TC74A5-5.0VAT	522
74	TC74A0-5.0VAT	522
74	74HC03N	62
74	74HC04N	62
74	74HC08N	62
74	74HC125N	63
74	MC74HC164ANG	64
74	MC74HC157ANG	63
74	MC74HC14ANG	62
74	MC74HC139ANG	63
74	TSH74CPT	318
74	MC74HC138ANG	63
74	MC74HC132ANG	63
74	MC74HC125ANG	63
74	MC74HC08ANG	62
74	MC74HC04ANG	62
74	MC74HCT138ANG	68
74	MC74HCU04ANG	62
74	MC74HC74ANG	62
74	MC74HC595ANG	66
74	MC74HC574ANG	65
74	MC74HC573ANG	65
74	MC74HC541ANG	65
74	PA74	324
74	M74HCT244B1R.	69
74	M74HC03B1R.	62
74	M74HC563B1R.	65
74	M74HC125B1R.	63
74	M74HC02M1R	61
74	M74HC368M1R	65
74	M74HC373M1R	65
74	M74HC4020M1R	67
74	M74HC573M1R	65
74	MC74HC540ANG	65
74	MC74HC4538ANG	67
74	SN74LS00N.	80
74	SN74LS02N.	80
74	SN74LS04N..	80
74	SN74LS138N.	80
74	SN74LS14N.	80
74	SN74LS193N.	80
74	SN74LS240N.	80
74	SN74LS244N.	80
74	MC74HC4053ANG	66
74	MC74HC4040ANG	66
74	MC74HC4020ANG	66
74	MC74HC373ANG	65
74	MC74HC32ANG	62
74	74HC541N	65
74	74HC574N	65
74	74HC74N	62
74	74HC85N	63
74	74HC86N	63
74	CD74HC373M.	65
74	74HC93N	63
74	74HCT08N	67
74	74HCT107N	68
74	74HCT109N	68
74	74HCT10N	67
74	74HCT112N	68
74	74HCT123N	68
74	74HCT125N	68
74	74HCT132D	68
74	74HCT138N	68
74	74HCT139N	68
74	74HCT14N	67
74	74HCT153N	68
74	74HCT154N	68
74	74HCT157N	68
74	74HCT20N	68
74	74HCT221N	69
74	74HCT244D	69
74	74HCT245D	69
74	74HCT245N	69
74	74HCT27N	68
74	74HCT373N	69
74	74HCT374N	69
74	74HCT393N	69
74	74HCT4051D.	70
74	74HCT4051N	70
74	MC74HC02ANG	62
74	MC74HC00ANG	61
74	74HC132N	63
74	74HC138N	63
74	74HC139D	63
74	74HC139N	63
74	MC74HC4052ANG	66
74	MC74HC165ADG	64
74	74HC14D	62
74	74HC151N	63
74	74HC161N	63
74	74HC20N	62
74	74HC21N	62
74	74HC240N	64
74	74HC245N	64
74	74HC273N	65
74	74HC32N	62
74	74HC374N	65
74	74HC377N	65
74	74HC390N	65
74	74HC40103N	66
74	74HC4024N	66
74	74HC4040N	66
74	74HC4052D	66
74	74HC4052N	66
74	74HC4053D	66
74	74HC4053N	66
74	74HC4060N	66
74	74HC4066D	66
74	74HC4066N	66
74	74HC4538N	66
74	74HC540N	65
74	74HC27D	62
74	74HC377D	65
74	74HC688D	66
74	CD74HC366M	65
74	74AHC1G04GW/T1	60
74	74AHC1G08GW/T1	60
74	74AHC1G14GW/T1	60
74	74AHC1G32GW/T1	60
74	74AHCT1G00GW/T1	61
74	74AHCT1G04GW/T1	61
74	74AHCT1G08GW/T1	61
74	74AHCT1G14GW/T1	61
74	74AHCT1G32GW/T1	61
74	74HC1G00GW	61
74	74HC1G02GW	61
74	74HC1G04GW	61
74	74HC1GU04GW	61
74	74HC1G08GW	61
74	74HC1G14GW	61
74	74HC1G32GW	61
74	74HC1G66GW	61
74	74HC1G86GW	61
74	74HC1G125GW	61
74	74HC1G126GW	61
74	CD74HC238M	64
74	CD74HC238E	64
74	CD74HC195M	64
74	74HC4050D	66
74	74HC240D	64
74	74HC540D	65
74	74HCT00D	67

Index by Type for Semiconductor ICs

	Mftrs. List No.	Page
74	74HCT02D	67
74	MM74HCT32N.	68
74	MM74HCT08N.	67
74	MM74HC4050N.	66
74	MM74HC4049N.	66
74	MM74HC126N.	63
74	MM74C74N.	77
74	MM74HCT14N.	67
74	MM74HC4051N.	66
74	CD74HC573M	65
74	TC74A0-5.0VCTTR	522
74	SN74ALS00AD	80
74	MM74HC154MTCX	63
74	M74HC251B1R.	64
74	M74HC08B1R.	62
74	SN74ALS04BD	80
74	SN74ABTE16245DGGR	346
74	SN74ABTE16246DGGR	346
74	CY74FCT825CTQCT	81
74	CD74HCT563M	69
74	CD74HC85M	63
74	CD74HC4538M	66
74	CD74HC4066PW	66
74	CD74HC4066M	66
74	74LV14D.	72
74	74LV244D.	72
74	CD74HC4060M	66
74	CD74HC4051PWR	66
74	CD74HC4050M	66
74	CD74HC4020M	66
74	CD74HC374M	65
74	74HC03D	62
74	74HC126D	63
74	74HC4046AD	66
74	74ABT244D	79
74	74ABT245D	79
74	74ABT541D	79
74	74ABT573AD	79
74	74ABT125D	79
74	74LV04D	72
74	74LV08D	72
74	74LV74D	72
74	74LV245D	72
74	CD74HC166M	64
74	CD74HC154M	63
74	CD74HC14E	62
74	CD74HC126M	63
74	CD74AC257M	77
74	TSH74CD	318
74	MC74HC74ADG	62
74	MC74HC595ADG	66
74	MC74HC4066ADG	66
74	MC74HC4053ADG	66
74	MC74HC4052ADG	66
74	MC74HC32ADG	62
74	MC74HC174ADG	64
74	MC74HC157ADG	63
74	MC74HC14ADG	62
74	MC74HC132ADG	63
74	MC74HC125ADG	63
74	MC74HC08ADG	62
74	MC74HC02ADG	61
74	MC74HC00ADG	61
74	MC74HCT74ANG	68
74	MC74HCT14ANG	67
74	74HCT04D	67
74	74HCT08D	67
74	74HCT10D	67
74	74HCT30D	68
74	74HCT86D	68
74	74HCT123D	68
74	74HCT139D	68
74	74HCT151D	68
74	74HCT161D	68
74	74HCT221D	69
74	74HCT374D	69
74	74HCT574D	70
74	74HCT4046AD	70
74	74HCT4051D	70
74	74HCT4053D	70
74	74HCT4094D	70
74	74HC574D	65
74	74HC393D	65
74	74HC390D	65
74	74HC374D	65
74	74HC373D	65
74	74HC273D	65
74	74HC259D	64
74	74HC221D	64
74	74HC164D	64
74	74HC10D	62
74	74HC157D	63
74	74HC123D	63
74	74HC86D	63
74	74HC75D	62
74	74HC32D	62
74	74HC21D	62
74	74HCU04D	62
74	SN74ACT14D	78
74	SN74LVC1G17DCKR	74
74	SN74LVC1G17DBVRG4	74
74	SN74LVC1G00DBVR	74
74	SN74ACT04PW	78
74	SN74ABT16863DL	346

	Mftrs. List No.	Page
74	SN74AUC1G66DCKR	341
74	SN74AUP1G32DBVT	58
74	SN74HC11D	62
74	SN74HC132PWT	63
74	SN74HC138D	63
74	SN74HC139PW	63
74	SN74HC14DG4	62
74	SN74HC153NSR	63
74	SN74HC161PW	63
74	SN74HC163NSR	64
74	SN74HC165DE4	64
74	SN74HC245PW	64
74	SN74HC374DWG4	65
74	SN74HC4060DBR	66
74	M74HC367B1R	65
74	SN74HC4060PW	66
74	SN74HC4066D	343
74	SN74HC590ADE4	66
74	SN74HC646DWR	66
74	SN74HC688PWT	66
74	SN74HCT138NSR	68
74	SN74HCT14PWT	67
74	SN74HCT244PWG4	69
74	SN74HCT245NSR	69
74	SN74HCT32NSR	68
74	CD74ACT86M.	78
74	SN74LVC2G74DCUR	75
74	SN74AHC273PW	70
74	SN74AHC245PW	70
74	SN74AHC244PW	70
74	CD74HC245M..	64
74	SN74AHC14PW	70
74	SN74AHC14D	70
74	SN74AHC139PW	70
74	SN74AHC138PW	70
74	SN74AHC132PW	70
74	CD74HC191M.	64
74	SN74AHC08PW	70
74	SN74AHC02PW	70
74	SN74AHC00PW	70
74	SN74LVC2G74DCTR	75
74	SN74AHC00D	70
74	SN74ACT74D	78
74	SN74LVC74ADE4	73
74	SN74ACT574DW	79
74	SN74LVTH16244ADL	76
74	SN74ACT573PW	78
74	SN74LVT244BPW	75
74	SN74LV02APW	72
74	SN74ACT573DW	78
74	SN74LV164AD	72
74	SN74LVC2G66DCUR	75
74	SN74LVC2G66DCTR	75
74	SN74ACT32D	78
74	SN74ACT245PW	78
74	SN74ACT245DW	78
74	SN74LV00APW	72
74	SN74ACT244DW	78
74	SN74LV4051AN	340
74	SN74LV4052ADBR	339
74	SN74LV4052APWG4	339
74	SN74LV4066ARGYR	343
74	SN74LV541ANSR	72
74	SN74LV541APW	72
74	M74HC393M1R	65
74	M74HC4017B1R	66
74	M74HC4020B1R	67
74	M74HC4060B1R	66
74	M74HC4543B1R	67
74	M74HC73B1R	62
74	CD74ACT02M.	78
74	M74HC85B1R	63
74	M74HC86B1R	63
74	M74HCT10B1R	67
74	74AC245PC..	77
74	74AC244PC..	77
74	SN74ACT04D	78
74	SN74LV594APW	72
74	SN74LV74ANSR	72
74	SN74LV8153N	72
74	SN74LV8154N	72
74	SN74LVC139ADG4	73
74	SN74LVC00ADBR	72
74	SN74LVC1G79DCKR	74
74	SN74LVC00ANSR	72
74	SN74LVC02ADBR	72
74	CD74AC86M.	77
74	SN74LVC02AD	72
74	CD74AC86E	77
74	SN74LVC04ADBR	72
74	CD74ACT374M.	78
74	CD74ACT373M.	78
74	CD74ACT245E.	78
74	SN74HCT374PW	69
74	SN74HCU04PW	62
74	SN74LS02NSR	80
74	SN74LS04NSR	80
74	SN74LS11D	80
74	SN74LS161ANSR	80
74	CD74ACT163M.	78
74	SN74LS166AD	80
74	SN74LS221DBR	80
74	SN74LS243D	80
74	SN74LS253D	80

	Mftrs. List No.	Page
74	SN74LS279AD	80
74	SN74LS367AD	80
74	M74HC393B1R	65
74	M74HC368B1R	65
74	SN74LV374ADBR	72
74	SN74LV367APWT	72
74	SN74LV32APWG4	72
74	SN74LV273ANSR	72
74	SN74LV221AD	72
74	SN74LV161284DL	72
74	SN74LV123AD	72
74	SN74LV11ADGVR	72
74	SN74LV10AD	72
74	SN74LV10ADBR	72
74	SN74LV04ADR	72
74	SN74LV04ADG4	72
74	SN74LV00ANSR	72
74	SN74LS645-1DW	80
74	SN74LS592D	80
74	SN74F74D	81
74	SN74LVT8980DW	346
74	SN74AHC1G00DCKR	60
74	SN74ACT86D	78
74	SN74AHC245DW	70
74	SN74HC166D	64
74	SN74ALS541DW	81
74	SN74ALS540DW	81
74	SN74AHCT74PW	71
74	IDT74LVCH16244APVG	73
74	IDT74LVCH16245APVG	73
74	IDT74FCT2245ATQG.	346
74	SN74AHCT74D	71
74	SN74AHCT573PW	71
74	SN74AHCT541PW	71
74	SN74AHCT373PW	71
74	SN74AHCT32PW	71
74	SN74AHCT32D	71
74	SN74AHCT245PW	71
74	SN74AHCT245DW	71
74	IDT74LVCH16374APVG	73
74	SN74AHCT244PW	71
74	SN74HC166N	64
74	SN74HC244PW	64
74	SN74AHCT244DW	71
74	74F32PC..	81
74	74F245SC.	82
74	74F244PC	82
74	74F193PC..	82
74	74F175PC	82
74	74F157APC	82
74	74F138PC..	82
74	SN74HC08D	62
74	SN74HC05D	62
74	SN74HC04PW	62
74	SN74HC04N	62
74	SN74LVC374APWR	73
74	74VHC157M	60
74	CD74HCT74M	68
74	CD74HCT157M	68
74	CD74HCT164M	68
74	SN74LS390N	80
74	SN74LS684N	80
74	CD74HC191M	64
74	SN74ALVC164245DL	346
74	74VHC138M.	60
74	74VHC123AM..	60
74	74LVX374M	76
74	SN74AHC08D	70
74	SN74ALS573CDW	81
74	SN74CBTLV3245APW	79
74	SN74CBTLV3257PW	79
74	SN74HC00D	61
74	SN74HC00N	61
74	SN74HC00PW	61
74	SN74HC02D	62
74	SN74HC02N	62
74	74LVT16373MTD.	75
74	74LVT373MTC	75
74	SN74HC02PW	62
74	SN74HC03D	62
74	SN74HC04D	62
74	74LVT373WM	75
74	74LVT574MTC.	75
74	74LVX02M	76
74	M74HC4094RM13TR	67
74	M74HC4053RM13TR	67
74	M74HC595RM13TR	65
74	M74HC08B1R	62
74	M74HC10B1R	62
74	M74HC125B1R	63
74	M74HC151B1R	63
74	M74HC163B1R	64
74	M74HC174B1R	64
74	SN74AHCT14D	71
74	M74HC20B1R	62
74	M74HC244B1R	64
74	M74HC251B1R	64
74	SN74AHCT138PW	71
74	SN74AHCT125PW	71
74	SN74HC32PW	62
74	SN74AHCT08PW	71
74	CD74HCT244E..	69
74	M74HC273B1R	65
74	SN74AHCT08D	71

	Mftrs. List No.	Page
74	CD74HCT175E..	68
74	CD74HCT165M.	68
74	CD74HCT126E	68
74	CD74HCT125M.	68
74	CD74HCT08M.	67
74	SN74AHC74PW	70
74	SN74AHC574PW	70
74	SN74AHC573PW	70
74	SN74AHC541PW	70
74	SN74AHC32PW	70
74	SN74AHC32D	70
74	SN74LVCC3245APW	73
74	74F125PC	82
74	74F00SC	81
74	74F00PC..	81
74	74ACT244PC..	78
74	SN74AHCT16245DL	71
74	74VCX1632245TBR	346
74	CD74ACT646EN	79
74	74LVXC3245TTR	76
74	74ACT240PC	78
74	74ACT138PC	78
74	74LCX374TTR	71
74	74LCX00TTR	71
74	74LCX07TTR	71
74	74LCX244TTR	71
74	74LCX157TTR	71
74	74LCX541TTR	71
74	M74HC597RM13TR	65
74	M74HC4051RM13TR	64
74	M74HC4052RM13TR	67
74	M74HC14TTR	62
74	74LVX132TTR	76
74	74LVX04MTR	76
74	74LVX14TTR	76
74	74LVC161284TTR	346
74	74LVC32ATTR	73
74	74VHC245TTR	60
74	74VHC08TTR	60
74	74V2T126STR	410
74	74LCX574TTR	71
74	SN74CBTD3384PW	79
74	SN74HC574PW	65
74	74AC74PC	77
74	SN74AHCT14PW	71
74	SN74LVTH244ADBR	75
74	SN74LVTH245ADBR	75
74	74HCT238N	69
74	74HCT240N	69
74	SN74ABT245BPW	79
74	SN74LVTH273NSR	75
74	74HCT367N	69
74	SN74ABT245BDW	79
74	74HCT32N	68
74	SN74LVTH574RGYR	75
74	SN74LVTH652DBR	76
74	SN74LVU04APWT	75
74	SN74S02D	374
74	SN74TVC3010PW	517
74	SN74V215-20PAG	106
74	SN74V225-7PAG	106
74	SN74V235-15PAG	106
74	SN74VMEH22501ADGVR	346
74	74HCT241N	69
74	74HCT30N	68
74	74HCT273N	69
74	SN74LV00AD	72
74	SN74LVC1G08DCKR	74
74	SN74LVC2G04DBVR	74
74	SN74LVC1G08DBVR	74
74	SN74ABT244ADW	79
74	SN74F244NE4	82
74	SN74HCT245PW	69
74	SN74LS164N	80
74	SN74LS157D	80
74	SN74HC164N	64
74	SN74ABT16374ADL	79
74	74HCT4066N	70
74	74HCT4060N	70
74	74HCT4046AN	70
74	74HCT4040N	70
74	74HCT393D	69
74	SN74AC373DW	77
74	SN74AC32D	77
74	SN74AC245DW	77
74	SN74AC244PW	77
74	SN74AC14D	77
74	SN74LVT162240DL	75
74	SN74LVC1G19DCKR	74
74	SN74LVT16240DL	75
74	SN74LVT244BNSR	75
74	SN74LVT245BQGNR	75
74	SN74LVT245BPW	75
74	SN74LVTH125DBR	75
74	SN74LVTH125NSR	75
74	SN74LVTH162373DL	76
74	SN74LVTH16240DGGR	76
74	SN74LVTH16240DL	76
74	SN74LVTH16241DL	76
74	SN74LVTH16373ZQLR	76
74	SN74LVTH16374GRDR	76
74	SN74AC08D	77
74	SN74AC04D	77
74	SN74LVTH16374ZRDR	76

Index by Type for Semiconductor ICs

	Mftrs. List No.	Page
74	SN74LVTH16500DGGR	76
74	SN74AC00D	77
74	SN74ABT573ADW	79
74	SN74ABT541BDW	79
74	SN74LVTH18502APM	76
74	SN74LVC1G00DCKR	74
74	SN74HCT14PWR	67
74	SN74HC373PW	65
74	SN74CBTD3306PW	79
74	SN74HCU04N	62
74	SN74HC05NE4	62
74	SN74HC151N	63
74	SN74HC377N	65
74	SN74LS540N	80
74	SN74LS08D	80
74	SN74CBT3125PW	79
74	SN74HC573APWR	65
74	SN74LVC1G07DCKR	74
74	SN74HCT08PW	67
74	SN74LVC1G86DBVR	74
74	SN74LVC1G86DCKR	74
74	SN74LV164APW	72
74	SN74F08D	81
74	SN74HCT04PW	67
74	SN74LS273DW	80
74	SN74LS166AN	80
74	SN74F74N	81
74	SN74CBTLV3253PW	79
74	SN74F373DW	82
74	74HCT244N	69
74	SN74F245N	82
74	SN74HC174N	64
74	SN74HC161N	63
74	SN74F125D	82
74	SN74CBTLV3384PW	79
74	SN74LVC1G32DBVR	74
74	SN74LV165AD	72
74	74HCT257N	69
74	SN74LVC1G07DCK6	74
74	SN74ABT16373ADL	79
74	SN74LV245APW	72
74	SN74HC164PW	64
74	SN74HC4066PW	66
74	SN74LVC06APW	72
74	SN74LV74APW	72
74	SN74LVC1G04DBVR	74
74	SN74ABT16245ADL	79
74	SN74ABT16244ADL	79
74	SN74ABT125D	79
74	SN7447AN	82
74	SN74LVTH244ADW	75
74	SN74LVC1G66DCKR	74
74	SN74LVC1G66DBVR	74
74	SN74LVC3G34DCUR	75
74	SN74LVT125PW	75
74	SN74LVC1G80DCKR	74
74	SN74LVC257AD	73
74	SN74LVU04APW	75
74	SN74LVC2G17DCKR	74
74	SN74LVC2G32DCTR	75
74	SN74LVC86AD	73
74	SN74LVC86APW	73
74	SN74LVCH244APW	73
74	SN74LVC1G02DBVR	74
74	SN74LVC1G02DCKR	74
74	SN74LVC157ADE4	73
74	SN74LV244ADW	72
74	SN74LVC06ADE4	72
74	SN74LVC126AD	73
74	SN74LVC126APW	73
74	74HC573N	65
74	74HCT00N	67
74	74HCT02N	67
74	74HCT04N	67
74	74HCT132N	68
74	74HCT151N	68
74	74HCT161N	68
74	SN74LVC1G14DCKR	74
74	74HCT164N	68
74	SN74LVC1G14DCKT	74
74	74HCT165N	68
74	SN74LVC1G14YEAR	74
74	SN74LVC1G14YEPR	74
74	SN74LVC1G17DBVE4	74
74	SN74LVC1G17YZPR	74
74	SN74LVC1G19YZPR	74
74	SN74LVC1G27DCKR	74
74	SN74LVC1G3208DBVR	74
74	SN74LVC1G3208DBVT	74
74	SN74LVC1G32DCKT	74
74	SN74LVC1G373DCKR	74
74	SN74LVC1G374DCKR	74
74	SN74LVC1G79DCKT	74
74	SN74LVC1G80YEAR	74
74	74HCT166N	68
74	74HCT193N	68
74	SN74LVC1G80YZPR	74
74	SN74LVC1G97YZAR	74
74	SN74LVC1G97YZPR	74
74	SN74LVC2244ADW	73
74	SN74LVC244ADBR	73
74	SN74LVC244APWG4	73
74	CD74AC573E	78
74	SN74LVC04ADGVR	72
74	SN74LVC04APW	72
74	SN74LVC07ADR	72
74	CD74AC32M.	77
74	CD74AC244E	77
74	CD74AC04E	77
74	74HC4050N	66
74	SN74LVC07APW	73
74	MM74C922N	571
74	SN74LVC125ADE4	73
74	SN74LVC126ADGVR	73
74	SN74LVC138APW	73
74	SN74LVC138APWT	73
74	SN74LVC1404YZPR	73
74	SN74LVC14ADBR	73
74	74HC4520N	66
74	74HC42N	62
74	74HC4094N	66
74	74HC4051N	66
74	SN74LVC1G14DBVT	74
74	SN74LVC1G123DCTR	74
74	SN74LVC1G08YZPR	74
74	SN74LVC1G08DBVT	74
74	SN74LVC1G07YEPR	74
74	SN74LVC1G02YZAR	74
74	SN74LVC1G02YEPR	74
74	SN74LVC16374ADGVR	73
74	SN74LVC16244AGQLR	73
74	SN74LVC157APWRG4	73
74	SN74LVC157APWRE4	73
74	SN74LVC157ANSR	73
74	SN74LVC14APW	73
74	SN74LVCE161284DGGR	447
74	SN74LVCE161284DL	447
74	SN74LVCH16240ADL	346
74	SN74ACT00D	78
74	SN74LVCH16244AZQLR	346
74	SN74LVCH16245AZQLR	346
74	SN74LVCH16373ADGVR	73
74	SN74LVCH32244AZKER	346
74	SN74LVCR16245ADL	346
74	SN74LVCU04AD	75
74	SN74LVCU04APW	75
74	SN74LVCU04APWT	75
74	SN74LVCZ161284AGR	346
74	SN74LVCZ244ADW	346
74	SN74LVCZ244APW	346
74	SN74LVCZ245APW	447
74	74AC04SC..	77
74	74AC02PC..	77
74	N74F00N	81
74	SN74AC74D	77
74	74LV573D	72
74	74LV14D	72
74	74LV08D.	72
74	74HCT85N	68
74	74HCT74D	68
74	74HCT688N	70
74	74HCT688D	70
74	SN74AC573PW	78
74	SN74AC573DW	78
74	74HCT540N	69
74	74HCT4511N	70
74	74HCT4094N	70
74	SN74LVC244APWT	73
74	SN74LVC257APW	73
74	SN74LVC2G00DCUT	74
74	SN74LVC2G02DCTR	74
74	SN74LVC2G06YZPR	74
74	SN74LVC2G07YZPR	74
74	SN74LVC2G08YZPR	74
74	SN74LVC2G125YZPR	75
74	SN74LVC2G132DCUT	75
74	SN74LVC2G14IDCKRQ1	74
74	SN74LVC2G14YZPR	74
74	SN74LVC2G32DCUT	74
74	SN74LVC2G74DCUT	75
74	SN74LVC2G80YZPR	75
74	SN74LVC373ADGVR	73
74	SN74LVC373APW	73
74	SN74LVC8T245PW	73
74	SN74LVC8T245DGVR	73
74	SN74LVC841APW	73
74	SN74LVC841ADGVR	73
74	SN74LVC646APW	73
74	SN74LVC573APW	73
74	SN74LVC573ANSR	73
74	SN74LVC573ADW	73
74	SN74LVC573ADGVR	73
74	SN74LVC541AQPWRQ1	73
74	SN74LVC4245APW	73
74	SN74LVC3G34YZPR	75
74	SN74LVC3G17DCTR	75
74	SN74LVC374ARGYR	73
74	SN74LVC2G53DCUR	75
74	SN74LVC374APW	73
74	SN74LVC374ANSR	73
74	74HC365N	65
74	74HC393N	65
74	SN74LVC2G157DCTR	75
74	SN74HC373DW	65
74	SN74HC367D	65
74	74HC4017N	66
74	DM74ALS74AN	81
74	DM74ALS541N	81
74	DM74ALS540AN	81
74	DM74ALS373N	81
74	DM74ALS273N	81
74	74HC4046AN	66
74	SN74HC32N	62
74	SN74LVC2G125DCUR	75
74	SN74HC32D	62
74	SN74HC27D	62
74	SN74HC273PW	65
74	SN74HC273N	65
74	SN74HC273DW	65
74	SN74HC259N	65
74	CD74HC154EN	63
74	DM74ALS244AWM.	81
74	DM74ALS21AN	80
74	DM74ALS175N	81
74	DM74ALS125N	81
74	CD74HC541M	65
74	SN74HC4040D	66
74	CD74HCT259M	69
74	SN74HC393N	65
74	SN74HC393D	65
74	MM74HCT541N	69
74	MM74HCT540N	69
74	MM74HCT273N	69
74	MM74HCT240N	69
74	MM74HCT08N	67
74	MM74HCT08M..	67
74	MM74HCT00N	67
74	MM74HC688N	66
74	MM74HC574N	65
74	MM74HC4046N..	66
74	MM74C74N	77
74	MM74C373N	77
74	SN74HC377DW	65
74	SN74HC374N	65
74	SN74HC374DW	65
74	SN74AHC1G126DBVR	60
74	SN74AHC1GU04DBVR	60
74	SN74HC373N	65
74	SN74LVC2GU04DCKR	74
74	74HC238N	64
74	74HC30N	62
74	CD74HCT7046AE	70
74	SN74HC164D	64
74	SN74HC161D	63
74	SN74HC157N	63
74	SN74F244DW	82
74	SN74HC157D	63
74	SN74ALS138N	81
74	SN74HC153D	63
74	SN74HC14PW	62
74	SN74HC14N	62
74	CD74HCT540E	69
74	SN74AHC1G02DCKR	60
74	SN74AHC1G04DCKR	60
74	SN74ACT244PWE4	78
74	SN74ACT86PW	78
74	SN74AHC1G32DCKR	60
74	SN74AHC02D	70
74	SN74AHC74D	70
74	SN74AHCT125D	71
74	SN74AHC1G86DBVRE4	60
74	SN74AHC1G86DCKR	60
74	SN74AHC373PW	70
74	SN74ALS08D	80
74	SN74AHC04PW	70
74	SN74AHC374PW	70
74	SN74AHC04D	70
74	DM74ALS09N	80
74	DM74ALS05AN	80
74	DM74ALS04BN	80
74	SN74HC259D	65
74	SN74HC257N	64
74	SN74HC257D	64
74	SN74HC253D	64
74	CD74HC123E	61
74	SN74HC251N	64
74	SN74HC251D	64
74	SN74HC245NG4	64
74	SN74HC245DW	64
74	SN74HC244N	64
74	74AHC1G02GW/T1	60
74	74HC191D	64
74	SN74HC244DW	64
74	DM74ALS04BM	80
74	SN74HC241DW	64
74	SN74HC240N	64
74	SN74HC240DW	64
74	SN74HC175N	64
74	SN74HC175D	64
74	SN74HC165N	64
74	CD74HCT86M.	68
74	SN74AHC1G02DBVR	60
74	SN74HC165D	64
74	MM74HC594N	66
74	MM74HC541N	65
74	MM74HC540N	65
74	MM74HC175M.	64
74	MM74HC126M..	63
74	MM74HCU04M..	62
74	MM74HC4053N..	66
74	74AC16244DL	78
74	SN74HC74NG4	62
74	N74F07N	81
74	MM74HCT05M.	67
74	MM74HCT164N	68
74	74HCT14D	67
74	74HCT32D	68
74	74HCT125D	68
74	74HCT138D	68
74	74HCT157D	68
74	74HCT573D	69
74	74HC00D	61
74	74HC02D	61
74	74HC04D	62
74	74HC08D	62
74	74HC11D	62
74	74HC74D	62
74	74HC125D	63
74	MM74HCT374N	69
74	MM74HCT541WM..	69
74	SN74HCT138NG4	68
74	SN74HCT138D	68
74	SN74HCT125D	68
74	SN74HCT08N	67
74	SN74HCT08D	67
74	SN74HCT04N	67
74	74HC153D	63
74	74HC165D	64
74	74HC30D	62
74	74HC4060D	66
74	SN74HCT04D	67
74	SN74HCT02D	67
74	74AHC1G00GW/T1	60
74	74AHC1GU04GW/T1	60
74	74AHCT1G79GW	61
74	SN74HCT00N	67
74	74HCT165D	68
74	74HC595D	66
74	74HCT4066D	70
74	SN74HCT00D	67
74	SN74HC86N	63
74	SN74HC86D	63
74	SN74HC74PW	62
74	MM74HC4051N	66
74	SN74HC574N	65
74	SN74HC574DW	65
74	SN74HC573AN	65
74	SN74HC573ADW	65
74	74ABT244N	79
74	SN74HC563DW	65
74	SN74HC541PW	65
74	SN74HC541DW	65
74	SN74HC540N	65
74	SN74HC540DW	65
74	SN74HC4851D	67
74	74HC10N	62
74	74HC11N	62
74	74HC123N	63
74	74HC126N	63
74	74HC14N	62
74	74HC153N	63
74	74HC157N	63
74	74HC164N	64
74	74HC165N	64
74	74HC191N	64
74	74HC221N	64
74	74HC237N	64
74	CD74HC138M	63
74	CD74HC4075M	66
74	CD74HC540M	65
74	74HC132D	63
74	74HC138D	63
74	74HC151D	63
74	74HC244D	64
74	74HC245D	64
74	74HC541D	65
74	74HC573D	65
74	74HC4051D	66
74	74HC4094D	66
74	74HC4538D	66
74	MM74HCT14N	67
74	MM74HCT05N	67
74	74HC4049N	66
74	74HC595N	66
74	CD74ACT74E	78
74	SN74HC74D	62
74	74ACT16244DL	79
74	74ACT16245DL	79
74	74ACT16374DL	79
74	SN74AHCT1G08DCKR	60
74	SN74AHC1G125DCKR	60
74	CD74AC02M	77
74	SN74HC688N	66
74	SN74HC595N	66
74	SN74HC595D	66
74	SN74HC594DW	66
74	SN74AHCT04D	71
74	SN74CBT3257D	79
74	SN74F153D	82
74	SN74HC148D	63
74	SN74HC148NE4	63
74	SN74CBTD3861PW	79
74	SN74HC139D	63
74	SN74F157AD	82
74	SN74HC10N	62
74	SN74CBTLV1G125DCKR	79

Index by Type for Semiconductor ICs

	Mftrs. List No.	Page
74	SN74CBTLV3125PW	79
74	SN74CBT3306PW	79
74	SN74CBT3306PWG4	79
74	SN74F32D	81
74	SN74F00D	81
74	SN74HC132D	63
74	SN74HC139N	63
74	SN74HC126D	63
74	74VHC374N	60
74	CD74HCT238M	69
74	74VHC245N	60
74	74VHC541M..	60
74	SN74ALS02AN	80
74	SN74HC138N	63
74	SN74HC138PW	63
74	SN74HC138D.	63
74	SN74HC132N	63
74	SN74AHC139D	70
74	SN74ABT244APW	79
74	SN74AHC125DE4	70
74	SN74AHC1G08DCKRG4	60
74	SN74AHCT04PW	71
74	SN74AHC1G14DCKR	61
74	SN74AC86D	77
74	SN74ACT08D	78
74	SN74AHC573DW	70
74	SN74AHC157PW	70
74	SN74HC03N	62
74	SN74HC10D	62
74	SN74HC125N	63
74	SN74HC08PW	62
74	SN74HC08N	62
74	SN74HC125D	63
7400	AD7400YRWZ	458
7400	SN7400N	82
7401	AD7401YRWZ	458
7403	MAX7403ESA+	438
7404	SN7404NG4	82
7406	SN7406D	82
7406	SN7406N	82
7407	MAX7407ESA+	438
7407	SN7407N	82
7407	SN7407D	82
741	KA741.	306
741	UA741CN	306
741	LM741H	306
741	LM741CH	306
741	UA741IN	306
741	LM741CN	306
741	UA741CD	306
741	KA741	306
741	UA741CPE4	306
741	LM741CN	571
741	UA741CP	306
741	KA741D	306
7410	MAX7410EUA+	438
74100	TPIC74100QPWPRQ1.	491
74108	GS74108AGP-10I	105
74111	AD74111YRUZ	290
74116	GS74116AGP-10I	105
74116	GS74116AGP-12	105
74116	GS74116AGP-8I	105
7412	EL7412CMZ	464
74121	SN74121N	82
74126	M74VHC1GT126DT1G	60
74128	SN74128N	82
7414	MAX7414EUA+	438
7414	AD7414ARTZ-0500RL7.	524
7415	AD7415ARTZ-0500RL7.	524
7416	AD7416ARZ	524
74164245	SN74AVCB164245VR	59
7417	AD7417ARZ	524
7417	SN7417N	82
74174	SN74HC174D	64
7418	AD7418ARZ	524
741G125	SN74LVC1G125DCKR	74
741G125	SN74LVC1G125DBVR	74
741G126	SN74LVC1G126DBVT	74
741G14	SN74LVC1G14DBVR	74
741G17	SN74LVC1G17DBVR	74
741G3157	SN74LVC1G3157DBVR	74
741T45	SN74LVC1T45DBVT	74
742	MAX742CWP+	548
7420	MAX7420EUA+	438
7421	MAX7421EUA+	438
7423	MAX7423EUA+	438
7424	MAX7424EUA+	438
74244	CY74FCT244ATSOC	81
74245	CY74FCT245TSOC	81
74245	CY74FCT245ATPC	81
7425	MAX7425EUA+	438
7425	SN7425N	82
7427	MAX7427EUA+	438
742G04	SN74LVC2G04DCKR	74
742G08	SN74LVC2G08DCUR	74
742G125	SN74LVC2G125DCTR	75
742G14	SN74LVC2G14DCKR	74
742G14	SN74LVC2G14DBVR	74
742G17	SN74LVC2G17DBVR	74
742G34	SN74LVC2G34DBVR	75
742T45	SN74LVC2T45DCTT	75
743	MAX743CPE+	471
743	MAX743CWE+	471
743	MAX743EWE+	471
743	OPA743UA	306
7433	TPS7433D	556
744	AD744KNZ	325
744	AD744JRZ	325
744	AD744JNZ	325
744245	SN74LVC4245ADBR	73
7447	MC7447AVU1000NB	218
745	MAX745EAP+	471
7450	AD7450ARMZ	284
7453	MAX7453CSA	536
7455	MMA7455LT	520
7456	MAX7456EUI+	444
7456	MMA7456LT	520
7457	EL7457CSZ	464
7457	EL7457CUZ	464
7457	EL7457CLZ	464
746	AD746JNZ	326
747	OP747ARZ	319
747	UA747CNG4	313
7470	ADT7470ARQZ	524
7470	AD7470ARUZ	282
7472	AD7472ARZ	284
7476	AD7476ARTZ-500RL7.	284
7476	AD7476ABRMZ	284
7476	ADCS7476AIMF	284
7477	ADCS7477AIMF	282
7478	ADCS7478AIMF	280
7478	AD7478AARMZ	280
748	UA748CN	306
748	AD7484BSTZ	286
748	UA748CD	306
7480	MAX7480ESA+	438
749	MAX749CSA+	428
7490	AD7490BRUZ	284
7490	SN74LS90N	80
74901	TPS74901KTWT	547
7492	AD7492ARZ	284
7495	AD7495ARZ	284
75	SN75LP1185DBR	447
75	TCN75-5.0MOA	523
75	SN75ALS192NE4	446
75	SN75C189ANE4	446
75	SN75LBC180DG4	447
75	SN75LBC175DG4	446
75	SN75HVD12DG4	447
75	SN75LBC180NE4	447
75	DS75LXU+	522
75	SN75C185N	447
75	ADT75ARZ	522
75	LM75CIM-5	523
75	TCN75AVOA.	522
75	DS75S+	522
75	TMP75AIDR	523
75	PA75CX	324
75	PA75CD	324
75	PA75CC	324
75	LMS75LBC176M	447
75	SN75C188N	446
75	SN75LBC176D	447
75	SN75LBC176AD	447
75	SN75HVD1176D	447
75	DS75LVS+	421
75	DS75LVU+	522
75	LM75CIM-3	523
75	DS75LXS+	522
75	SN75ALS176BDG4	447
75	SN75ALS197N	446
75	SN75C3221PWE4	447
75	SN75ALS180D	447
75	SN75ALS194D	446
75	SN75C1406D	447
75	SN75C1406NG4	447
75	SN75C188D	446
75	SN75C189AD	446
75	SN75ALS176D	447
75	SN75HVD3082EDG4	447
75	SN75ALS176BD	447
75	SN75C3222DW	447
75	TCN75AVUA.	522
75	SN75LBC176P	447
75	TSH75CDT	318
75	SN75C3223PW	447
75	SN75C3232PW	447
75	SN75HVD10DG4	447
75	SN75LVDS387DGG	446
75	SN75LBC173ADG4	446
75	SN75LBC180ADG4	447
75	SN75LBC173DG4	446
75	SN75HVD11DG4	447
75	SN75LBC175ADG4	446
75	SN75LBC179ADG4	447
75	SN75LBC184D	447
75	LM75CIM-5/NOPB	522
75	SN75LBC184P	447
75	SN75ALS176P	447
75	SN75C3243DW	447
750	TL750L08CLPE3	562
750	TL750L05CLP	560
750	TL750L05CLPE3	560
750	TL750L05CD	560
750	TL750L10CD..	563
750	MAX750ACSA+	544
75003	TPS75003RHLT	491
75019	AD75019JPZ	345
7503	AD7503KNZ	340
7503	AD7503JNZ	340
7505	DS7505S+	524
7506	AD7506KNZ	341
751	LMV751M5	306
751	TPA751DGN	532
7510	AD7510DIJNZ	344
75107	SN75107AN	446
75107	SN75107BD	446
75107	SN75107AN..	446
75110	SN75110AN..	445
75110	SN75110AN	445
75117	SN75117P	451
7512	DAC7512E/250G4	295
7512	DAC7512N/250G4	295
7512	AD7512DIJNZ	343
7512	AD7512DIKNZ	345
7513	EL7513IWTZ-T7A	444
7513	DAC7513N/250G4	295
7513	DAC7513E/250G4	295
7515	EL7515IYZ	487
75150	SN75150D	445
75155	SN75155D	451
75155	SN75155P	451
75157	SN75157D	445
75158	SN75158P	445
75158	SN75158D	445
7516	ADT7516ARQZ	524
75162	SN75162BDWE4	451
75172	SN75172N	446
75173	SN75173N	446
75173	SN75173D	446
75174	SN75174DW	446
75174	SN75174N	446
75175	SN75175N	446
75175	SN75175D	446
75176	DS75176BTN	451
75176	DS75176BN	451
75176	SN75176BP	452
75176	SN75176AP	451
75176	SN75176AD	451
75176	SN75176BD	451
75176	DS75176BTM/NOPB	348
75178	SN75178BP	452
75179	SN75179BPE4	452
75179	SN75179BD	452
75182	SN75182N	446
75185	SN75185DWG4	452
75186	SN75186DWE4	452
75188	SN75188N	446
75188	SN75188N..	446
75188	SN75188D	446
75189	SN75189ANG4	446
75189	SN75189D	446
75189	SN75189N..	447
75189	SN75189N	447
75189	SN75189AD	446
7519	ADT7519ARQZ	524
75201	TPS75201QPWP	547
75215	TPS75215QPWP	551
75225	TPS75225QPWP	554
75232	GD75232DWE4	452
75232	GD75232PWE4	452
75232	GD75232NE4	452
75233	TPS75233QPWP	558
7524	TLC7524CD	292
7524	TLC7524IDG4	292
7524	PM7524FPZ	292
7524	TLC7524IN	292
7524	TLC7524CN	292
7524	AD7524JNZ	292
7524	AD7524JNZ	570
75240	SN75240PWG4	491
75240	SN75240PWR	491
75240	SN75240P	491
7527	FAN7527BN	487
7527	FAN7527BM	487
7528	AD7528LNZ	292
7528	PM7528FPZ	292
7528	AD7528JNZ	292
7528	MX7528JN+	292
7528	TLC7528CN	292
7528	FAN7528M	464
7528	FAN7528N	464
7528	AD7528KNZ	292
7529	FAN7529N	498
7529	FAN7529M	498
7530	FAN7530M	498
7530	FAN7530N	498
7532	FAN7532M	464
75323	GD75323DWE4	452
7533	AD7533KNZ	293
7533	AD7533JNZ	293
7533	AD7533LNZ	293
75333	TPS75333QPWP	562
7534	LS7534.	518
7534	LS7534	518
7534	AD7534JNZ	297
7536	EL7536IYZ	487
7537	AD7537JNZ	570
7537	AD7537JNZ	295
7537	AD7537KPZ	295
75372	SN75372D	466
7538	AD7538JNZ	297
754	ACS754LCB-100-PFF	460
754	ACS754LCB-050-PFF	460
7541	AD7541AKNZ	295
7541	AD7541AJNZ	295
7541	LTC7541ABSW#PBF	295
7541	DAC7541AJP..	295
7541	DAC7541AJP	295
7541	LTC7541AJSW#PBF	295
7541	LTC7541AKSW#PBF	295
7542	AD7542JNZ	295
7542	AD7542KNZ	295
7542	MX7542KN+	295
7543	MX7543JN+	295
7543	LTC7543KSW#PBF	295
754410	SN754410NEG4	466
7545	LTC7545AKSW#PBF	295
7545	LTC7545ABSW#PBF	295
7545	LTC7545ALSW#PBF	295
7545	LTC7545ACSW#PBF	295
7545	AD7545JNZ	295
7545	PM7545FPZ	296
7545	AD7545KNZ	296
7545	AD7545AKNZ	295
75451	SN75451BP	466
75451	SN75451BD	466
75452	SN75452BD..	466
75452	SN75452BP	466
75452	SN75452BD	466
75453	SN75453BP	466
75453	SN75453BPSR	466
75468	SN75468D	529
75469	SN75469DE4	529
7547	AD7547KPZ	296
7547	AD7547JNZ	296
7547	AD7547KNZ	296
75471	SN75471P	445
75472	SN75472P	445
7548	AD7548JNZ	296
7548	AD7548KNZ	296
7549	AD7549JNZ	296
7551	DAC7551IDRNTG4	296
7554	EL7554IREZ	487
7554	FAN7554	487
7554	FAN7554D	487
7554	DAC7554IDGSG4	296
7555	ICM7555CBAZ	528
7555	ICM7555IBAZ	528
7555	ICM7555ISA+	528
7555	ICM7555IPAZ	528
7556	ICM7556IPDZ	528
756	MAX756CSA+	548
756	MAX756CPA	471
756	MAX756CPA+	471
7564	EL7564CREZ	487
7569	AD7569JNZ	300
757	MAX757CPA	471
757	MAX757CSA+	562
757	AD7574JNZ	280
757	MAX757CPA+	471
7571	DAC7571IDBVTG4	296
7572	AD7572AJNZ10	284
7574	DAC7574IDGSG4	296
7575	AD7575JNZ	281
7578	AD7578KNZ	284
7579	AD7579JNZ	282
758	MAX758ACPA+	544
7581	AD7581JNZ	300
7582	AD7582KNZ	284
7585	EL7585ILZ	440
7590	AD7590DIKNZ	344
7592	AD7592DIKNZ	343
76	LM76CHM-5	523
76	PA76	324
7601	FAN7601G	487
7601	FAN7601M	487
7601	FAN7601N	487
76030	TPS76030DBVT	555
76033	TPS76033DBVT	556
76050	TPS76050DBVT	559
761	MAX761ESA+	471
761	MAX761CPA+	471
761	MAX761CSA+	547
761	LMV761MF	428
761	LMV761MA	428
7610	AD7610BSTZ	287
7611	ICL7611DCBAZ	329
7611	DAC7611UB	296
7611	ICL7611DCPAZ	329
7611	DAC7611U	296
7611	SP7611AEC6-L	509
7612	DAC7612U.	296
7612	ICL7612DCPAZ	329
7612	DAC7612UB	296
7612	SP7612AEC6-L	509
7612	ICL7612DCPA	329
7612	AD7612BCPZ	287
7613	DAC7613E	296
76133	TPS76133DBVT	556
7614	SP7614AEC6-L	509
7614	DAC7614U	296
7614	DAC7614UB.	296
7614	DAC7614P.	296
7615	SP7615ER-L	444
7615	DAC7615E.	296

Index by Type for Semiconductor ICs

	Mftrs. List No.	Page
7615	DAC7615UB	296
7615	DAC7615U	296
76150	TPS76150DBVT	559
7616	DAC7616U	296
7618	SP7618ER-L	444
76190	DS76190B125BGV	227
76190	DS76190N125BGV	227
762	LMV762MA	430
762	DAC7621E	294
762	LMV762MM	430
762	MAX762CSA+	547
76201	TPS76201DBVT	543
7621	AD7621ASTZ	573
7621	ICL7621DCBAZ	330
7621	AD7621ASTZ	287
7621	ICL7621DCPAZ	330
7622	AD7622BSTZ	287
7623	AD7623ASTZ	573
7623	AD7623ACPZ	287
7623	AD7623ASTZ	287
7624	DAC7624PB	296
7624	DAC7624U	296
7625	DAC7625P.	296
7625	DAC7625U	296
7625	DAC7625P	296
7628	AD7628KRZ	292
7630	EL7630ICZ-T7A	444
76301	TPS76301DBVT	544
76316	TPS76316DBVT	551
76318	TPS76318DBVT	552
7632	DAC7632VFT	298
76325	TPS76325DBVT	553
76330	TPS76330DBVT	555
76333	TPS76333DBVT	556
764	MAX764CPA+	471
764	MAX764ESA+	471
764	MAX764CSA+	471
7640	EL7640ILTZ	492
7641	AD7641BSTZ	289
7641	EL7641ILTZ	492
7642	EL7642ILTZ	492
7643	AD7643BSTZ	289
76433	TPS76433DBVT	556
7644	DAC7644EB.	298
7644	DAC7644EG4	298
7648	SP7648EU-L	508
765	MAX765ESA+	548
765	MAX765CSA+	471
765	MAX765CPA+	471
7650	ICL7650SCPA-1Z	310
7650	ICL7650SCPD	329
7651	AD7651ASTZ	287
7652	FSDM07652RBWDTU	487
7652	ICL7652P	311
7652	SP7652ER-L	508
7653	AD7653AST	287
76533	TPS76533D	556
7654	AD7654ASTZ	573
7654	AD7654ASTZ	287
7655	AD7655ASTZ	287
7655	AD7655ASTZ	573
7655	SP7655ER-L	508
7656	AD7656YSTZ	287
7656	AD7656BSTZ	573
7656	AD7656YSTZ	573
7656	AD7656BSTZ	287
7657	AD7657BSTZ	286
7657	AD7657YSTZ	286
7658	AD7658BSTZ	284
7658	AD7658YSTZ	284
7658	AD7658BSTZ	573
766	MAX766ESA+	471
766	MAX766CSA+	548
766	AD766JNZ	297
7660	TC7660HCPA	487
7660	ICL7660SCPAZ	570
7660	ICL7660ACBAZA	487
7660	ICL7660SCPAZ	487
7660	ICL7660CBAZ	487
7660	ICL7660ACPAZ	487
7660	ICL7660ESA+	487
7660	ICL7660CSA+	487
7660	ICL7660SCBAZ	487
7660	ICL7660SIPAZ	487
7660	TC7660SEOA	487
7660	ICL7660CPAZ	487
7660	ICL7660SIBAZ	487
7660	TC7660CPA	487
7660	TC7660HCPA.	487
76601	TPS76601DG4	544
7661	AD7661ASTZ	287
7661	SP7661ER-L	509
7661	SI7661CSA+	487
7662	TC7662BEPA	487
7662	SP7662ER-L	509
7662	TC7662ACPA	487
7662	ICL7662CPA+	487
7662	TC7662BCOA	487
7662	TC7662AEPA	487
7662	ICL7662CBA+	487
7662	ICL7662CPA+	570
7662	TC7662BEOA	487
7662	ICL7662EBA+	494
7662	TC7662BCPA	487
7663	ICL7663SCBAZA	543
7663	ICL7663SCPAZ	543
7663	SP7663ER-L	509
76633	TPS76633D	556
7665	ICL7665SCPAZ	487
7665	ICL7665ACPA+	487
7665	AD7665ASTZ	287
7665	ICL7665ACSA+	487
7665	ICL7665SACPAZ	487
7665	ICL7665SACBAZ	258
7665	ICL7665SCBAZ	487
76650	TPS76650D	560
7667	AD7667ASTZ	287
7667	ICL7667CPAZ	465
7667	ICL7667CPAZ	570
7667	AD7667ASTZ	573
767	AD767KNZ	294
767	TPS767D318PWP	558
767	AD767JNZ	294
767	MAX767CAP+	562
767	TPS767D301PWP	546
767	MAX767EAP+	471
76701	TPS76701QD	546
76701	TPS76701QPWP	546
7671	AD7671ASTZ	298
76718	TPS76718QD	552
7673	ICL7673CBAZA	487
7673	ICL7673CPAZ	487
76733	TPS76733QD	558
76733	TPS76733QPWP	558
7674	AD7674ASTZ	289
7674	AD7674ASTZ	573
76750	TPS76750QPWPRQ1	561
76750	TPS76750QD	561
76750	TPS76750QPWP	561
7678	AD7678ASTZ	573
7678	AD7678ASTZ	289
7679	AD7679ASTZ	289
768	AD768ARZ	297
7680	AD7680ARMZ	287
76801	TPS76801QD	546
76801	TPS76801QPWPG4	546
7683	AD7683ARMZ	287
7683	AD7683BRMZ	287
76833	TPS76833QPWPG4	558
76833	TPS76833QD	558
7684	AD7684BRMZ	287
7685	AD7685BRMZ	287
7686	AD7686BRMZ	287
7686	AD7686CRMZ	287
7687	AD7687BRMZ	288
7688	AD7688BRMZ	288
7690	AD7690BRMZ	289
7691	AD7691BRMZ	289
76918	TPS76918DBVT	551
76925	TPS76925DBVT	553
76933	TPS76933DBVT	556
77	TC77-3.3MCTTR	523
77	TC77-3.3MOA	523
77	TC77DM-PICTL	527
77	TC77-5.0MCTTR	523
77	TC77-5.0MOA	523
77	LM77CIMM-3/NOPB	523
77	LM77CIM-5	523
77	LM77CIM-3/NOPB	523
770	MAX770CSA+	547
77001	TPS77001DBVT	543
7701	AD7701ARZ	288
7701	LMP7701MF	311
7701	AD7701BNZ	288
7701	TLC7701IDG4	258
7701	AD7701ANZ	288
7701	TLC7701IPW	258
7702	TL7702AID	258
7702	TL7702ACD	258
7702	TL7702ACP	568
7702	TL7702ACP..	568
7702	TL7702BCD	258
7703	TLC7703ID	258
7703	TLC7703IDG4	258
77030	TPS77030DBVTG4	555
77033	TPS77033DBVT	556
7704	LMP7704MA	321
7704	LMP7704MT	336
7705	TL7705ACDG4	568
7705	TL7705AID	258
7705	TL7705BCPG4	258
7705	AD7705BNZ	288
7705	TL7705AIPG4	258
7705	TL7705BCD	258
7705	TLC7705IP	258
7705	TL7705BID	258
7705	TL7705ACP/A	258
7705	TLC7705ID	258
7705	TL7705ACP	568
7705	AD7705BNZ	570
7705	TL7705ACDRG4	258
7705	TLC7705QDG4	258
7706	AD7706BNZ	288
7707	AD7707BRZ	288
7707	LMP7707MA	311
7708	AD7708BRZ	288
7708	LMP7708MM	329
7708	LMP7708MA	317
7708	AD7708BRUZ	288
7709	LMP7709MT	329
7709	LMP7709MA	321
7709	TL7709ACP..	258
7709	AD7709BRUZ	288
7709	TL7709ACD..	258
771	MAX771ESA+	471
771	LMV771MG.	306
7710	FAN7710N	465
7710	AD7710ANZ	300
7710	AD7710ANZ	570
7711	LMP7711MK	311
7711	AD7711ARZ	289
7711	AD7711ANZ	289
7711	FAN7711M	465
7712	LMP7712MM	317
7712	AD7712ANZ	289
7712	AD7712ARZ	289
7713	AD7713ARZ	290
7713	AD7713ANZ	289
7714	AD7714YNZ	290
7714	AD7714YRUZ	290
7714	DAC7714UBG4	296
7714	AD7714YRZ	290
7714	AD7714ANZ-5	290
7714	DAC7714UG4	296
7715	LMP7715MF	311
7715	AD7715ANZ-3	288
7715	TL7715ACD..	258
7715	AD7715ARZ-5	288
7715	AD7715ANZ-5	288
7715	DAC7715UB	298
7715	DAC7715U	296
7716	LMP7716MM	317
7717	LMP7717MA	311
7717	LMP7717MF	311
7718	AD7718BRZ	290
7718	LMP7718MM	329
7719	AD7719BRZ	290
772	LMV772MM	313
772	LMV772MA	313
77201	TPS77201DGK	544
7721	LMP7721MA	323
7724	DAC7724UG4	296
7724	DAC7724UBG4	296
7724	DAC7724N	296
7725	DAC7725UB	296
7726	TL7726CD	487
7726	TL7726CPG4	487
7726	TL7726ID	487
773	MAX773CPD+	471
7730	AD7730BNZ	300
7730	AD7730LBRZ	300
7731	LMP7731MF	311
7731	DAC7731EC	298
7731	AD7731BNZ	300
7731	LMP7731MA	311
7732	AD7732BRUZ	290
7732	LMP7732MA	317
7732	LMP7732MME	317
7732	LMP7732MM	317
7733	TLC7733QDG4	258
7733	TLC7733ID	258
7734	AD7734BRUZ	290
7734	DAC7734E	298
7734	DAC7734EC	298
7738	AD7738BRUZ	290
774	ADS774JUE4	283
774	ADS774KUE4	283
774	ADS774JU	283
774	ADS774JP	283
774	ADG774BRZ	339
774	LMV774MT	319
774	AD774BARZ	283
774	MAX774ESA+	471
774	MAX774CSA+	471
7740	AD7740KRMZ	437
7744	DAC7744EG4	298
7744	DAC7744E.	298
7745	AD7745ARUZ	513
7746	AD7746ARUZ	513
7747	AD7747ARUZ	513
77501	TPS77501D	545
77518	TPS77518D	552
7752	ADE7752BARWZ	516
77533	TPS77533D	557
7757	TL7757CPKG4	258
7757	TL7757CLPG4	258
7759	TL7759CP	258
7760	AD7760BSVZ	290
7760	AD7760BSVZ	573
77601	TPS77601DG4	545
77601	TPS77601PWPG4	545
7761	ADE7761AARSZ	516
77618	TPS77618D	552
7762	AD7762BSVZ	290
7762	ADE7762ARWZ	516
77625	TPS77625D	553
7763	AD7763BSVZ	290
77633	TPS77633D	557
77633	TPS77633QPWPRQ1	557
7764	AD7764BRUZ	290
7765	AD7765BRUZ	290
7766	AD7766BRUZ	290
7767	AD7767BRUZ	290
777	OP777ARZ	306
7770	TL7770-5IDWE4	258
7770	TL7770-5CNE4	568
7770	TL7770-5CDW..	258
7782	AD7782BRUZ	290
7783	AD7783BRUZ	290
7785	AD7785BRUZ	300
7787	AD7787BRMZ	290
7788	AD7788BRMZ	290
7789	AD7789BRMZ	290
7790	AD7790BRMZ	288
7791	AD7791BRMZ	288
7792	AD7792BRUZ	288
7793	AD7793BRUZ	290
7794	AD7794BRUZ	290
7795	AD7795BRUZ	288
7796	AD7796BRUZ	288
7797	AD7797BRUZ	290
7798	AD7798BRUZ	288
7799	AD7799BRUZ	290
78	PT78ST105S	508
78	PT78ST105H	508
78	PT78HT233S	508
78	PT78HT205V	508
78	PT78HT205H	508
78	TS7824CZ	564
78	TS7818CZ	564
78	TA78L15S	564
78	UA78L15ACD	564
78	UA78L12ACLP	563
78	78Q8430-100CGT/F	410
78	UA78L12ACD	563
78	UA78L10ACLP	563
78	UA78L08ACD	562
78	UA78L05ACPKG4	559
78	UA78L05ACLP	559
78	UA78L05ACD	559
78	78Q8392L-28CH/F	423
78	TS7815CZ	564
78	78Q2133R/F	423
78	TS7812CZ	563
78	TS7810CZ	563
78	TS7809CZ	563
78	78Q2123R/F	423
78	TA78L12S	563
78	LM78L15ACZ	564
78	78SR112VC	508
78	78SR105VC	508
78	78SR112HC	508
78	78SR105HC	508
78	78SR112SC	508
78	78SR105SC	508
78	MC78M05BTG	561
78	TS78M08CP	562
78	TS78M06CP	562
78	TS78M05CP	561
78	PT78ST133V	508
78	PT78ST133H	508
78	TS78L24CT	564
78	TS78L18CT	564
78	TS78L15CT	564
78	PT78ST115V	508
78	TS78L12CT	563
78	TS78L09CT	563
78	TS78L08CT	562
78	PT78ST112V	508
78	PT78ST112H	508
78	TS78L06CT	562
78	TS78L05CT	559
78	TS78L18CX RF	566
78	TS78L24CX RF	566
78	PT78ST105V	508
78	UPD78F9201MA-CAC-A	153
78	UPD78F9202MA-CAC-A	153
78	UPD78F9210GR(T)-JJG-A	153
78	UPD78F9212GR(T)-JJG-A	153
78	UPD78F9221MC(T)-5A4-A	153
78	UPD78F9222MC(T)-5A4-A	153
78	UPD78F0502MC(T)-5A4-A	152
78	UPD78F0503DMC(T)-5A4A	152
78	UPD78F0513GB(T)-UES-A	152
78	PT78HT205V.	508
78	PT78ST115V.	508
78	KA78M05TU	560
78	KA78M15TU	564
78	LM78L05ACZ	559
78	LM78L05ACM	559
78	KA78T05TU	562
78	UPD78F0547DGK(T)-8EU-A	152
78	UPD78F0545GK(T)-8EU-A	152
78	UPD78F0535GB(T)-UEU-A	152
78	KA78T12TU	564
78	KA78T15TU	564
78	UPD78F0537DGA(T)-9EV-A	152
78	UPD78F0890G(A)-GAH-A	152
78	UPD78F0711MC-5A4-A	152
78	UPD78F0712MC-5A4-A	152
78	UPD78F0714GK-9ET-A	152
78	LM78L15ACM	564
78	MC78M15CDTG	564
78	MC78M12CDTG	563
78	MC78L15ACDG	564
78	MC78L08ACDG	562

Index by Type for Semiconductor ICs

	Mftrs. List No.	Page
78	LM78L12ACZ	563
78	LM78L12ACM	563
78	LM78L82ACZ	562
78	LM78L62ACZ	562
78	L78S24CV	564
78	L78S18CV	564
78	L78S12CV	563
78	L78S05CV	561
78	LM78S40CN	469
78	UA78M05IDCY	561
78	UPD78F9512GR-JJG-A	153
78	UPD78F9511GR-JJG-A	153
78	UPD78F9510GR-JJG-A	153
78	UPD78F9502MA-CAC-A	153
78	KA78L05AZ	559
78	KA78T05	562
78	UPD78F9501MA-CAC-A	153
78	UPD78F9500MA-CAC-A	153
78	78SR105SC.	508
78	PT78HT205H.	508
78	UPD78F9200MA-CAC-A	153
78	L78L06ABD	562
78	L78L06ACD	562
78	L78L08ABD	562
78	L78L08ACD	562
78	L78L09ABD	563
78	L78L12ABD	563
78	L78L12ACD	563
78	L78L15ABD	492
78	L78L15ACD	564
78	L78L15CD	564
78	L78L24ABD	564
78	L78M05ABV	560
78	L78M05CDT	560
78	L78M05CP	560
78	L78M06ABV	562
78	L78M06CV	562
78	L78M08CV	562
78	L78M09CV	563
78	L78M10CP	563
78	L78M10CV	563
78	L78M12ABDT	563
78	L78M12ABV	563
78	L78M12CDT	563
78	L78M12CP	563
78	L78M15ABDT	564
78	L78M15ABV	564
78	L78M20CV	564
78	L78L24ACD	564
78	L78L33ABD	556
78	L78M05CDT-1	560
78	L78M09ABV	563
78	UA78L05CD	559
78	UA78L02ACD	554
78	TA78L24F(F)	564
78	TA78L18F(F)	564
78	TA78L15F(F)	564
78	TA78L12F(F)	563
78	UA78M09CKTPR	563
78	UA78M05CDCYG3	560
78	UA78L12ACPKG3	563
78	UA78L12ACLPE3	563
78	UA78L09ACPKG3	563
78	UA78L06ACLPE3	562
78	UA78L05AILPE3	559
78	UA78L05ACPKG3	559
78	UA78L05ACDG4	559
78	KA78T05TU.	562
78	LM78M05CT/NOPB	560
78	BQ78PL114RGZT	469
78	PA78EU	324
78	PA78DK	324
78	L78L05ABD	559
78	L78L05ACD	559
78	L78L05CD	559
78	MC78L12ACDG	563
78	TS78L15CX RF	566
78	L78M05ACDT	560
78	MC78M15CTG	564
78	MC78M12CTG	563
78	MC78M05CTG	561
78	MC78M08CTG	562
78	TA78L15S(F)	564
78	MC78M05CDTG	561
78	L78M05CV	560
78	TS78L24CS	564
78	TS78L18CS	564
78	TS78L15CS	564
78	TS78L12CS	563
78	TS78L09CS	563
78	TS78L08CS	562
78	TS78L05CS	559
78	TS78M24CP	564
78	TS78M18CP	564
78	TS78M15CP	564
78	TS78M12CP	563
78	TS78M09CP	563
78	L78M12CV	563
78	MC78L05ACPG	559
78	MC78L12ACPG	563
78	UA78L15ACPK	564
78	MC78L05ACDG	559
78	UA78L09ACD..	563
78	UA78L05AIPK.	559

	Mftrs. List No.	Page
78	L78S75CV	562
78	L78S10CV	563
78	TS78L03CX RF	566
78	TS78L05CX RF	566
78	TS78L06CX RF	566
78	TS78L08CX RF	566
78	TA78L12S(F)	563
78	TS78L09CX RF	566
78	L78S09CV	563
78	TS78L12CX RF	566
780	TL780-15CKC	564
780	TL780-05CKC	561
780	AD780BNZ	541
780	AD780ANZ	538
7800	ADS7800JP	284
7800	DAC7800KU	296
7800	DAC7800LU	296
7800	HCPL-7800	337
78000	PTN78000HAZ	507
78000	PTN78000AAZ	507
78000	PTN78000WAZ	507
7801	DAC7801KP	296
7801	AD7801BRZ	292
7802	DAC7802KP	296
78020	PTN78020HAZ	507
78020	PTN78020WAD	507
78020	PTN78020WAZ	507
780270200	TPS780270200DDCT	544
7804	ADS7804UE4	284
7804	ADS7804UBE4	284
7805	UA7805CKC	561
7805	MC7805ACTG	561
7805	MC7805CD2TG	561
7805	AD7805BRSZ	293
7805	MC7805CTG.	561
7805	L7805CD2T-TR	561
7805	L78M05ABDT-TR	560
7805	L78L05ACUTR	559
7805	L7805ABD2T-TR	561
7805	L7805CV	571
7805	TS7805CZ	561
7805	MC7805CTG.	571
7805	L7805ACV	561
7805	L7805CV	561
7805	LM7805CT	571
7805	LM7805CT	561
7805	MC7805BTG	561
7805	ADS7805UE4	288
7805	ADS7805P	288
7805	L7805CP	561
7806	TS7806CZ	562
7806	L7806ABV	562
7806	ADS7806U	284
7806	ADS7806PG4	284
7806	L7806CV	562
7806	KA7806TU.	562
78060	PTN78060HAZ	507
78060	PTN78060AAZ	507
78060	PTN78060WAZ	507
78060	PTN78060WAD	507
7807	ADS7807UE4	288
7807	ADS7807PB	288
7807	ADS7807UBE4	288
7807	ADS7807P	288
7808	LM7808CT	562
7808	L7808ABV	562
7808	AD7808BNZ	293
7808	MC7808CTG	562
7808	L7808ACV	562
7808	ADS7808U.	284
7808	L7808CV	562
7808	TS7808CZ	562
7809	ADS7809UBE4	288
7809	MC7809CTG	563
7809	ADS7809UE4	288
7809	L7809CV	563
781	AD781JNZ	337
7810	ADS7810UE4	284
7811	AD7811YNZ	282
7811	ADS7811U	288
7812	L7812ABV	563
7812	L7812ACV	563
7812	L7812CP	563
7812	MC7812CTG.	563
7812	KA7812.	563
7812	MC7812CD2TG	563
7812	AD7812YNZ	282
7812	ADS7812U	284
7812	UA7812CKCG4	563
7812	L7812CV	571
7812	UA7812CKCE3	563
7812	L7812CV	563
7813	ADS7813P	288
7813	ADS7813UE4	288
7813	ADS7813UB	288
7813	AD7813YNZ	281
7814	AD7814ARTZ-500RL7	524
7815	L7815ACV	564
7815	L7815ABV	564
7815	L7815CV	564
7815	ADS7815UE4	288
7815	MC7815CTG	564
7815	UA7815CKC	564
7815	L7815CP	564

	Mftrs. List No.	Page
7816	ADS7816U	284
7816	ADS7816UBG4	284
7816	ADS7816P	284
7817	AD7817ARZ	282
7817	ADS7817UG4	284
7818	ADS7818E/250G4	284
7818	MC7818CTG	564
7818	ADS7818P.	284
7818	L7818CV	564
7818	L7818CV.	564
7819	AD7819YNZ	281
7820	AD7820KNZ	281
7821	AD7821KNZ	281
7822	ADS7822UBG4	285
7822	ADS7822U	285
7822	ADS7822E/250G4	285
7822	ADS7822UCG4	285
7822	AD7822BNZ	281
7822	ADS7822P	285
7822	DAC7822IRTATG4	296
78225	TPS78225DDCT	553
78227	TPS78227DDCT	554
78228	TPS78228DDCT	554
7823	ADS7823E/250G4	285
7823	AD7823YNZ	281
7824	MC7824CTG	564
7824	ADS7824P.	285
7824	L7824CV	564
7824	AD7824KNZ	281
7824	ADS7824UB	285
7824	BH7824FVM-TR	537
7824	ADS7824U	285
7825	ADS7825PB	288
7825	ADS7825U	288
7825	ADS7825UBE4	288
7825	AD7825BNZ	281
7826	BH7826FVM-TR	537
7828	AD7828KNZ	281
7828	ADS7828E/250G4	285
7828	ADS7828EB/250G4	285
7829	ADS7829IDRBT	285
7829	AD7829BRWZ-1	281
783	AD783JRZ	337
7830	ADS7830IPWTG4	281
7835	ADS7835EB/250G4	285
7835	ADS7835E/250G4	285
7835	AD7835ASZ	297
7837	AD7837ANZ	296
7837	AD7837BRZ	296
7839	AD7839ASZ	296
7840	AD7840JNZ	297
7841	ADS7841EB.	285
7841	ADS7841EG4	285
7841	AD7841BSZ	297
7841	ADS7841P	285
7842	ADS7842EG4	285
7842	ADS7842EB.	285
7843	AD7843ARQZ	536
7843	ADS7843EG4	285
7844	ADS7844N/1KG4	285
7844	ADS7844EBG4	285
7844	ADS7844EG4	285
7845	AD7845JNZ	296
7845	AD7845JRZ	296
7845	ADS7845E.	285
7846	AD7846JNZ	298
7846	AD7846KNZ	298
7846	ADS7846EG4	285
7846	ADS7846NG4	285
7847	AD7847ANZ	296
7847	AD7847BRZ	296
7851	BD7851FP-E2	445
7852	ADS7852Y	285
7856	AD7856ANZ	286
7859	AD7859ASZ	285
7859	AD7859APZ	285
786	ADS7861EB	283
78601	TPS78601DCQG4	547
7861	ADS7861E	285
7861	ADS7861IBRHBTG4	285
7862	ADS7862YB/250	285
7862	ADS7862Y/250G4	285
78633	TPS78633DCQG4	558
7864	ADS7864Y/250G4	285
7864	ADS7864YB/250G4	285
7864	ADS7864Y	285
7864	AD7864ASZ-1	285
7866	AD7866ARUZ	285
7866	ADS7866IDBVTG4	285
7867	ADS7867IDBVTG4	282
7868	ADS7868IDBVTG4	281
787	ADG787BRMZ	339
7870	AD7870JNZ	285
7870	ADS7870EAG4	300
7870	AD7870JNZ	570
7871	AD7871JNZ	286
7871	ADS7871IDBG4	300
7871	AD7871JNZ	570
7872	AD7872JNZ	286
7872	AD7872KNZ	286
7874	AD7874ANZ	285
7880	AD7880BNZ	285
7881	BH7881EFV-E2	537
78833	TPS78833DBVT	556

	Mftrs. List No.	Page
7884	BH7884EFV-E2	537
7885	L7885CV	562
7888	AD7888ARUZ	285
7888	AD7888ARZ	285
7889	ADC78H89CIMT	285
7890	AD7890ARZ-10	300
7890	ADC78H90CIMT	285
7890	AD7890ANZ-10	285
7890	AD7890BRZ-10	285
7891	AD7891ASZ-1	285
78918	TPS78918DBVT	551
7892	AD7892ARZ-1	285
7892	AD7892ANZ-1	285
78930	TPS78930DBVT	555
7896	AD7896ANZ	285
7899	AD7899ARSZ-1	286
78L09	LM78L09ITP	563
79	LM79M15CT	549
79	TS7918CZ	549
79	LM79L15ACZ	549
79	LM79L12ACM	549
79	MC79L05ACLP	550
79	TS7915CZ	549
79	LM79M05CT	550
79	TS7912CZ	549
79	MC79M15CDTG	549
79	LM79L05ACM	550
79	TS7909CZ	550
79	MC79L15ACDG	549
79	TS7905CZ	550
79	TS7908CZ	550
79	MC79L05ACDG	550
79	TS7906CZ	550
79	TS79M05CP	550
79	TS79M08CP	550
79	TS79M12CP	549
79	TS79M15CP	549
79	PA79DK	324
79	TS79M24CP	549
79	L79L05ACD	550
79	MC79L12ACD	549
79	LM79M12CT/NOPB	549
79	MC79L12ACPG	549
79	TS79L05CS	550
79	TS79L09CS	550
79	MC79L05ACPG	550
79	TS79L12CS	549
79	TS79L15CS	549
79	L79L05ABD	550
79	TS79L18CS	549
79	TS79L24CT	549
79	TS7924CZ	549
79	LM79L05ACZ/NOPB	550
79	TS79L05CT	550
79	LM79L05ACZX	550
79	TS79L18CT	549
79	TS79L15CT	549
79	TS79L09CT	550
79	TS79L12CT	549
790	AD790JNZ	428
790	AD790JRZ	428
79005	TA79005S(Q)	550
7901	ADF7901BRUZ	356
79018	TPS79018DBVT	551
79030	TPS79030DBVT	555
7904	AD7904BRUZ	281
7905	KA7905	550
7905	L7905CP	550
7905	L7905ACV	550
7905	MC7905CTG	550
7905	UA7905CKCSE3	550
7905	L7905CV	550
79050	MIC79050-4.2YM	491
7906	KA7906TU	550
7906	KA7906TU.	550
7906	L7906CV	550
7908	KA7908TU	550
7908	AD7908BRUZ	281
7908	KA7908TU.	550
7908	L7908CV	550
791	LMV791MK	306
791	SP791EN-L	261
791	MAX791ESE+	256
791	MAX791CSE+	256
79101	TPS79101DBVT	543
7911	AD7911ARMZ	282
79110	MIC79110YML TR	491
79110	MIC79110-4.2YML TR	491
79118	TPS79118DBVT	551
7912	L7912CV	549
7912	L7912CP	549
7912	MC7912CTG	549
7912	LM7912CT	549
7912	L7912ACV	549
7912	KA7912	549
7912	AD7912ARMZ	282
79133	TPS79133DBVT	556
7915	MC7915CTG	549
7915	LM7915CT	549
7915	L7915CV	549
7915	L7915ACV	549
7915	L7915CP	549
7918	L7918CV	549
7918	MC7918CTG	549

Index by Type for Semiconductor ICs

Mftrs. List No.	Page
792 LMV792MM	313
7921 AD7921ARMZ	285
7922 AD7922ARMZ	285
7923 AD7923BRUZ	285
7924 MC7924CTG	549
7924 AD7924BRUZ	285
7927 AD7927BRUZ	285
7928 AD7928BRUZ	285
793 LMV793MF	306
793 LMV793MA	306
79301 TPS79301DBVRQ1	544
79328 TPS79328DBVRG4	554
793285 TPS793285DBVT	555
7933 AD7933BRUZ	282
79330 TPS79330DBVRG4	555
79333 TPS79333DBVRQ1	556
79333 TPS79333DBVRG4	556
7934 AD7934BRUZ	285
7934 AD7934BRUZ-6	285
7936 PCF7936AS/3851,122	356
7938 AD7938BSUZ	285
7938 AD7938BSUZ-6	573
7938 AD7938BCPZ	285
7938 AD7938BSUZ-6	285
7938 AD7938BCPZ-6	285
7938 AD7938BSUZ	573
7939 AD7939BSUZ	282
794 LMV794MM	328
794 ADG794BRQZ	344
7940 AD7940BRM	286
79401 TPS79401DGNT	544
79418 TPS79418DCQ	552
79418 TPS79418DGNT	552
7942 AD7942BRMZ	286
79425 TPS79425DGNT	553
79425 TPS79425DCQ..	553
7943 AD7943BNZ	296
79430 TPS79430DCQ	555
79430 TPS79430DGNT	555
79433 TPS79433DGNT	556
7945 AD7945BNZ	296
7946 AD7946BRMZ	286
7948 AD7948BNZ	296
795 MAX795SCSA+	256
795 STM795TM6E	260
795 STM795SM6E	260
795 AD795JRZ	325
795 STM795RM6E	260
7950 ADS7950SBDBT	296
79501 TPS79501DCQG4	545
7951 ADS7951SBDBT	296
7951 AD7951BCPZ	286
7951 AD7951BSTZ	286
7952 ADS7952SBDBT	296
7952 AD7952BSTZ	286
79525 TPS79525DCQG4	553
7953 ADS7953SBDBT	296
79530 TPS79530DCQ	555
79533 TPS79533DCQG4	557
7954 ADS7954SDBT	293
7955 ADS7955SDBT	293
7957 ADS7957SDBT	293
7958 ADS7958SDBT	281
7959 ADS7959SDBT	281
796 LMV796MF	306
7960 ADS7956SDBT	293
7960 ADS7960SDBT	281
7960 TRF7960RHBTG4	356
79601 TPS79601KTTT	546
79601 TPS79601DCQG4	546
7961 TRF7961RHBTG4	356
7961 ADS7961SDBT	281
79625 TPS79625KTTT	554
79625 TPS79625DCQG4	554
79630 TPS79630KTTT	555
79630 TPS79630DCQ	555
79633 TPS79633DCQG4	558
79633 TPS79633KTTT	558
797 AD797BRZ	307
797 AD797ARZ	532
797 LMV797MM	313
797 AD797ANZ	570
797 MAX797HESE+	471
797 MAX797ESE+	471
797 MAX797CSE+	544
797 AD797ANZ	532
79718 TPS79718DCKT	551
79730 TPS79730DCKT	555
79733 TPS79733DCKTG4	491
79733 TPS79733DCKT	556
7980 AD7980BRMZ	288
7980 AD7980ARMZ	288
7982 AD7982BRMZ	289
79901 TPS79901DDCT	544
79901 TPS79901YZUT	544
7991 AD7991YRJZ-0500RL7	285
79912 TPS79912YZUT	550
79915 TPS79915DDCTG4	551
79918 TPS79918DDCT	552
799185 TPS799185DDCT	553
7992 AD7992BRMZ-1	285
7992 AD7992BRMZ-0	285
79925 TPS79925YZUT	553
79925 TPS79925DDCT	553
79927 TPS79927YZUT	554
799285 TPS799285YZUT	555
7993 AD7993BRUZ-1	282
7993 AD7993BRUZ-0	282
79930 TPS79930DDCT	555
799315 TPS799315DDCT	555
79932 TPS79932YZUT	555
79933 TPS79933DDCT	556
7994 AD7994BRUZ-1	285
7994 AD7994BRUZ-0	285
7995 AD7995YRJZ-0500RL7	282
7997 AD7997BRUZ-1	282
7997 AD7997BRUZ-0	282
7998 AD7998BRUZ-1	285
7998 AD7998BRUZ-0	285
7999 AD7999YRJZ-1500RL7	281
8 ATMEGA8-16MU	137
8 PTH08T261WAD	469
8 MUX08EPZ	340
8 ADC08L060CIMT/NOPB	279
8 CY8CLED16-28PVXI	141
8 ATMEGA8-16AU	573
8 CY8CLED16-48LFXI	141
8 CY8CLED16-48PVXI	141
8 CY8C24223A-24SXI	140
8 CY8C24423A-24SXI	140
8 CY8C27543-24AXI	140
8 CY8C29466-24PVXI	140
8 CY8C24223A-24PXI	140
8 CY8C21634-24LFXI	140
8 CY8CLED08-48LFXI	141
8 CY8C21534-24PVXI	140
8 MUX08FPZ	340
8 P8X32A-M44	224
8 CY8CLED08-48PVXI	141
8 ATMEGA8-16PU	137
8 ATMEGA8-16AU	137
8 ATMEGA8L-8AU	573
8 ADC08060CIMT/NOPB	279
8 P8X32A-D40	224
8 P8X32A-Q44	224
8 EPC8QC100N	96
8 ATMEGA8L-8MU	137
8 ATMEGA8-16PU	570
8 USBSPYDER08	142
8 CY8C21434-24LFXI	140
8 CY8C21334-24PVXI	140
8 ATMEGA8L-8PU	137
8 CY8C24994-24LFXI	140
8 Z8S18033VSG	165
8 ATMEGA8L-8AU	137
8 PTH08T230WAZ	507
8 SMP08FSZ	337
8 1659629	469
8 CY8C29666-24LFXI	140
8 CY8C21234-24SXI	140
80 LM80CIMT-5/NOPB	523
80 P80C32SBPN	153
80 P80C31SBPN	153
80 DS80C320+MCG	151
80 DS80C320-MCG+	570
80 AT80C31X2-3CSUL	135
80 AT80C31X2-3CSUM	135
80 AT80C31X2-SLSUL	135
80 DS80C310-MCG	151
80 AT80C31X2-SLSUM	135
80 P80C562EBA/02	155
80 AT80C32X2-3CSUL	135
80 AT80C32X2-3CSUM	135
80 AT80C32X2-SLSUL	135
80 AT80C32X2-SLSUM	135
80 TSH80ID	304
80 DS80C320-MNG	151
80 LF80ABDT	562
80 P80C32UBAA	153
80 LE80CD	562
80 DS80C320+QCG	151
80 DS80C310-QCG	151
80 TL080CP	324
80 LF80CPT	562
80 KF80BD	562
80 TSH80ILT	304
800 DAC0800LCN/NOPB	291
800 DAC0800LCM/NOPB	291
800 ADM800MARNZ	256
800 SAE800G	518
8000 AD8000YCPZ-R2	311
8000 AD8000YRDZ	311
8001 KSZ8001L	424
8001 AD8001ARZ	311
8001 AD8001ARTZ-R2	333
8001 KSZ8001L	574
8001 AD8001ANZ	311
8004 TDA8004T/C1	416
8004 AD8004ANZ	333
8008 AD8008ARZ	317
8009 AD8009JRTZ-R2	333
8009 AD8009ARZ	333
801 ADAV801ASTZ	532
801 ADS801UG4	283
8010 AD8010ANZ	311
8011 AD8011ARZ	333
8012 AD8012ARZ	317
8014 AD8014ARZ	311
8017 AD8017ARZ	321
8018010 Z8018010PSG	165
802 DAC0802LCM/NOPB	291
802 ADM802MANZ	256
802 ADM802MARNZ	256
8020 PTN78020WAH	507
8020 MPXY8020A6U	516
8020 LTM8020EV#PBF	487
8021 AD8021ARMZ	311
8021 LTM8021EV#PBF	487
8021 AD8021ARZ	311
8022 AD8022ARZ	317
8023 LTM8023EV#PBF	547
8023 LTM8023IV#PBF	487
8024 AD8024ARZ	321
8027 AD8027ARZ	311
8028 AD8028ARZ	311
803 ADC0803LCN	280
803 ADS803E	283
8030 AD8030ARZ	317
8031 AD8031ANZ	311
8031 AD8031BNZ	311
8031 AD8031ARZ	311
8031 AD8031ARTZ-R2	311
8032 AD8032BNZ	317
8032 AD8032ANZ	317
8032 AD8032BRZ	317
8032 AD8032ARMZ	317
8033 AD8033ARZ	325
8034 AD8034ARZ	327
8036 AD8036ANZ	536
8037 AD8037ANZ	338
8039 AD8039ARZ	317
804 ADC0804LCWM	280
804 ADC0804LCN	280
804 ADG804YRMZ	339
804 KSZ8041NL-EVAL	449
804 KSZ8041TL-EVAL	449
804 KSZ8041TL	449
8040 AD8040ARZ	321
8041 KSZ8041NL	411
8041 AD8041ANZ	311
8041 AD8041ARZ	311
8043 DAC8043FPZ	296
8043 DAC8043AFPZ	296
8043 LTC8043FN8#PBF	296
8043 LTC8043EN8#PBF	296
8043 DAC8043UC	296
8043 DAC8043U	296
8043 LTC8043FS8#PBF	296
8044 AD8044ARZ-14	321
8045 AD8045ARDZ	311
8045 AD8045ACPZ-R2	311
805 ADS805EG4	283
805 ADM805LANZ	256
805 ADS805E	283
805 STM805RM6E	260
805 STM805SM6E	260
805 STM805TM6E	260
8051 C8051F344-GQ	158
8051 C8051F343-GQ	158
8051 C8051F345-GQ	158
8051 C8051F120-GQ	574
8051 C8051F342-GQ	158
8051 C8051F341-GQ	158
8051 C8051F346-GQ	158
8051 C8051F340-GQ	574
8051 C8051F340-GQ	158
8051 C8051F327-GM	158
8051 C8051F326-GM	158
8051 C8051F347-GQ	158
8051 C8051F410-GQ	158
8051 C8051F353-GM	158
8051 C8051F331-GM	158
8051 C8051F352-GQ	158
8051 C8051F350-GQ	158
8051 C8051F305-GM	158
8051 C8051F312-GQ	158
8051 C8051F313-GM	158
8051 AD8051ARZ	311
8051 C8051F005-GQ	573
8051 C8051F321-GM	158
8051 C8051F320-GQ	158
8051 C8051F311-GM	158
8051 C8051F310-GQ	158
8051 C8051F127-GQ	158
8051 C8051F125-GQ	158
8051 C8051F124-GQ	158
8051 C8051F043-GQ	158
8051 C8051F041-GQ	158
8051 C8051F040-GQ	158
8051 C8051F302-GM	158
8051 C8051F300-GM	158
8051 C8051F022-GQ	158
8051 C8051F021-GQ	158
8051 C8051F020-GQ	158
8051 C8051F067-GQ	158
8051 C8051F066-GQ	158
8051 C8051F065-GQ	158
8051 C8051F410-GQ	574
8051 C8051F133-GQ	574
8051 C8051F064-GQ	158
8051 C8051F063-GQ	158
8051 C8051F120-GQ	158
8051 C8051F121-GQ	158
8051 C8051F122-GQ	158
8051 C8051F123-GQ	158
8051 C8051F130-GQ	158
8051 C8051F132-GQ	158
8051 C8051F133-GQ	158
8051 C8051F220-GQ	158
8051 C8051F230-GQ	158
8051 C8051F123-GQ	574
8051 C8051F301-GM	158
8051 C8051F304-GM	158
8051 C8051F121-GQ	574
8051 C8051F413-GM	158
8051 C8051F315-GM	158
8051 C8051F062-GQ	158
8051 C8051F412-GQ	158
8051 C8051F411-GM	158
8051 C8051F061-GQ	158
8051 C8051F060-GQ	158
8051 C8051F045-GQ	574
8051 C8051F047-GQ	158
8051 C8051F046-GQ	158
8051 C8051F045-GQ	158
8051 C8051F044-GQ	158
8051 C8051F042-GQ	158
8051 C8051F019-GQ	158
8051 C8051F017-GQ	158
8051 C8051F016-GQ	158
8051 C8051F320-GQ	574
8051 C8051F012-GQ	158
8051 C8051F011-GQ	158
8051 C8051F310-GQ	574
8051 C8051F010-GQ	158
8051 C8051F330-GM	158
8051 C8051F127-GQ	574
8051 C8051F001-GQ	158
8051 C8051F000-GQ	158
8051 C8051F317-GM	158
8051 C8051F125-GQ	574
8051 C8051F041-GQ	574
8051 C8051F021-GQ	573
8051 C8051F316-GM	158
8051 C8051F226-GQ	158
8051 C8051F206-GQ	158
8051 C8051F015-GQ	158
8051 C8051F332-GM	158
8051 C8051F334-GM	158
8051 C8051F005-GQ	158
8051 C8051F314-GQ	158
8051 C8051F006-GQ	158
8051 C8051F335-GM	158
8052 AD8052ARMZ	317
8052 AD8052ARZ	317
8054 AD8054ARZ	321
8055 AD8055ANZ	311
8055 AD8055ARZ	311
8055 AD8055ARTZ-R2	311
8056 AD8056ARZ	317
8056 AD8056ANZ	317
8057 AD8057ARZ	536
8058 AD8058ARZ	536
8060 PTN78060WAH	507
8061 AD8061ARZ	311
8061 AD8061ARTZ-R2.	311
8062 AD8062ARZ	317
8063 AD8063ARZ	311
8065 AD8065ARZ	311
8065 AD8065ARTZ-R2	311
8066 AD8066ARMZ	317
8066 AD8066ARZ	327
8067 AD8067ARTZ-R2	311
807 MAX807LCWE+	256
807 ADS807EG4	283
807 MAX807LCPE	256
8072 AD8072JNZ	536
8073 AD8073JNZ	536
8074 AD8074ARUZ	332
8075 AD8075ARUZ	332
808 VN808-E	460
808 ADC0808CCV/NOPB	280
808 DAC0808LCN/NOPB	280
808 ADC0808CCN	280
8080 PTH08080WAZT	507
809 LM809M3-4.63	256
809 MCP809T-450I/TT	259
809 STM809MWX6F	260
809 LM809M3-4.00	256
809 STM809RWX6F	260
809 TCM809RENB713	256
809 STM809LWX6F	260
809 TCM809LENB713	256
809 TCM809RVLB713.	256
809 ADC0809CCN	280
809 TCM809TENB713	256
809 TCM809ZVLB713	256
809 CAT809STBI-T	256
809 TCM809SENB713	256
809 MCP809T-300I/TT	256
809 MCP809T-475I/TT	259
809 CAT809JTBI-G	256
809 MCP809T-315I/TT	259
809 CAT809TTBI-G	256
809 MCP809T-270I/TT	259
809 STM809TWX6F	260

Index by Type for Semiconductor ICs

	Mftrs. List No.	Page
809	MAX809LEUR+T	256
809	TCM809RVLB713	256
809	CAT809LTBI-T3	256
809	MAX809SEUR+T	256
809	ADM809SARTZ-REEL7	256
809	MAX809MEUR+	256
809	ADM809LARTZ-REEL7	256
809	TS809CXA	256
809	STM809SWX6F	260
809	TS809CXD	256
809	CAT809STBI-T3	256
809	MAX809REUR+T	256
809	MAX809JEUR+T	256
809	ADM809TARTZ-REEL7	256
809	MAX809TEUR+	256
8091	AD8091ARZ	311
8099	AD8099ARDZ	311
80C320	DS80C320-MNG+	151
80C592	P80C592FFA/00,512	155
81	ADC081S051CISD	279
81	ADC081S101CISD	280
81	LM81BIMT-3/NOPB	300
81	TSH81IPT	304
81	ADC081S021CISD	279
81	TSH81ID	304
81	TL081ID	324
81	DAC081C085CIMM/NOPB	291
81	DAC081C081CIMK/NOPB	291
81	ADC081C021CIMK/NOPB	279
81	ADC081C027CIMK/NOPB	279
81	TL081BCD	324
81	TL081ACD	324
81	DAC081S101CIMK/NOPB	291
810	AD810ARZ	532
810	LM810M3-4.63	256
810	MCP810T-315I/TT	259
810	STM810TWX6F	260
810	MCP810T-475I/TT	259
810	MCP810T-315I/TT.	259
810	STM810SWX6F	260
810	MAX810SEUR+T	256
810	LM810M3-4.00	256
810	STM810RWX6F	260
810	MCP810T-450I/TT	259
810	STM810LWX6F	260
810	VCA810AIDG4	338
810	CAT810LTBI-T3	256
810	AD810ANZ	532
810	MAX810LEUR+	256
810	VCA810ID	307
8100	ADC08100CIMTC	281
8100	LMP8100MA	317
8100	LMP8100AMA	317
8101	LMC8101TP	311
8101	TPIC8101DW..	411
8101	LMC8101MM/NOPB	311
8104	ISL8104IBZ	494
8105	BD8105FV-E2	445
8105	ISL8105AIBZ	494
8105	ISL8105IBZ	494
8106	ISL8106CRZ	494
8108	AD8108ASTZ	536
8108	EL8108ISZ	536
8109	AD8109ASTZ	536
811	STM811TW16F	260
811	STM811SW16F	260
811	STM811MW16F	260
811	MAX811MEUS+T	256
811	DAC811KP	294
811	DAC811AH	294
811	MAX811SEUS+T	256
811	MAX811LEUS+T	256
811	AD811ANZ	532
811	CAT811STBI-T3	256
811	CAT811LTBI-T3	256
811	AD811JRZ	532
811	TCM811LERCTR	256
811	TCM811TERCTR	256
8110	AD8110ASTZ	536
8111	AD8111ASTZ	536
8114	AD8114ASTZ	536
8115	AD8115ASTZ	536
8117	LMS8117AMP-ADJ/NOPB	545
8117	LMS8117ADT-3.3/NOPB	557
812	Z8F0812SJ020SG	164
812	STM812SW16F	260
812	ADUC812BSZ	573
812	ADUC812BSZ	131
812	STM812LW16F	260
812	CAT812STBI-T3	256
812	AD812ARZ	313
812	STM812RW16F	260
8129	AD8129ARZ	334
8129	AD8129ARMZ	334
813	STM813LM6E	260
813	AD813ANZ	532
813	SP813LEN-L	261
813	DAC813KP	294
813	MAX813LCPA+	256
813	DAC813JU....	294
8130	AD8130ARZ	334
8130	AD8130ARMZ	334
8131	AD8131ARZ	445
8132	AD8132ARMZ	334
8132	AD8132ARZ	334
8137	AD8137YCPZ-R2	285
8137	AD8137YRZ	285
8138	AD8138ARZ	334
8138	AD8138ARMZ	334
8139	AD8139ACPZ-R2	334
8139	AD8139ARDZ	289
814	ADUC814ARUZ	131
8143	LTC8143FSW#PBF	296
8145	AD8145YCPZ-R2	446
815	AD815ARBZ-24	333
8150	AD8150ASTZ	345
81563	MGA-81563-BLKG	357
8159	AD8159ASVZ	518
816	ADC0816CCN/NOPB	280
816032	GS816032BGT-200	106
817	AD817ARZ	307
817	AD817ANZ	339
817	ADC0817CCN	280
817	LM3S817-IQN50	238
817	STM817MM6E	260
817	STM817LM6E	260
8170	AD8170ARZ.	339
8178	EL8178FSZ	311
818	AD818ANZ	532
818	STM818MM6E	260
818	LM3S818-IQN50	238
818	STM818LM6E	260
8183	AD8183ARUZ	339
8184	AD8184ARZ	340
8188	AD8188ARUZ	339
819	ADG819BRMZ	344
8196	WM8196SCDS	302
82	CP82C54Z	417
82	CP82C59AZ.	255
82	TL082CP/NOPB	312
82	LM82CIMQA/NOPB	523
82	DAC082S085CIMM	291
82	TSH82ID	312
82	CS82C55A-5Z	346
82	PCA82C251T/N3	427
82	AD2S82AJPZ	300
82	P82B715PN	416
82	PCA82C250T/N4	427
82	P82B96TD,112	410
82	TLC082ID	304
82	TLC082AID	304
82	CP82C55AZ	417
82	CP82C55A-5Z	417
82	IP82C55AZ	447
82	IS82C55AZ	447
82	TLC082CD	312
82	P82B715TD,112.	410
82	IP82C54Z	527
82	CP82C50A-5Z	417
82	CP82C84AZ	153
82	CP82C50A-5	417
82	TL082CM/NOPB	304
82	PCA82C251/N3	427
82	PCA82C250/N4	427
82	ADTL082ARMZ-R2	326
82	ADTL082JRZ	326
82	CS82C55AZ	417
82	TSH82IPT	312
82	P82B715TD,118	410
82	P82B715TD,112	410
82	TL082IN	312
820	AD820ANZ	325
820	AD820ARZ	325
820	ADC0820CCWM/NOPB	280
820	ADC0820CCN/NOPB	280
820	OPA820IDG4	307
820	OPA820ID	313
820	TLC0820ACN	280
820	ADS820UG4	281
820	TBA820M	532
820	ADC0820BCWM/NOPB	280
820	TLC0820AIDWG4	280
820	OPA820IDBVRG4	307
8200	ADC08200CIMT	281
8202	AD8202YRMZ	334
8202	AD8202YRZ	334
8203	AD8203YRMZ	334
8205	AD8205YRZ	334
8206	AD8206YRZ	334
821	LMV821IDCKTE4	307
821	LMV821DBVT	307
821	LMV821DCKTE4	307
821	ADG821BRMZ	342
821	LMV821IDBVTE4	307
8210	AD8210YRZ	334
8211	MAX8211CSA+	487
8211	MAX8211CPA+	487
8212	AD8212YRMZ	333
8212	MAX8212CSA+	487
8212	MAX8212CPA+	258
8213	AD8213YRMZ	333
8214	AD8214ARMZ	487
8215	MAX8215CSD+	259
8216	MAX8216CSD+	259
822	Z8F0822PJ020SG	164
822	AD822ANZ	326
822	LMV822MM/NOPB	313
822	LMV822DE4	313
822	LMV822M/NOPB	313
822	AD822ARZ	326
822	AD822ARMZ-R2.	336
822	LMV822IDE4	313
822	Z8F0822SJ020SG	164
822	ADS822EG4	281
822	AD822BRZ	327
8220	AD8220ARMZ	336
8220	AD8220BRMZ	336
8221	AD8221ARZ	336
8222	AD8222ACPZ-WP	336
8222	DAC8222FPZ	296
8222	DAC8222FSZ	296
8224	AD8224ACPZ-WP	336
8228	DAC8228FPZ	292
823	MAX823MEUK+T	256
823	MAX823SEUK+T	256
823	AD823ARZ	327
823	MAX823LEUK+T	256
823	XPC823EVR66B2	218
823	MAX823TEUK+	256
823	AD823ANZ	326
8230	AD8230YRZ	311
8231	AD8231ACPZ-WP	336
824	LMV824IDE4	319
824	AD824ARZ-14	327
824	MAX824LEUK+T	256
824	LMV824PWE4	319
824	LMV824IPWE4	319
824	LMV824DE4	319
8240	AD8240YRMZ	444
8248	DAC8248FPZ	296
825	AD825ARZ	325
825	MAX825LEUK+T	256
8250	AD8250ARMZ	336
8251	AD8251ARMZ	336
82563	MGA-82563-BLKG	357
826	AD826ANZ	313
826	AD826ARZ	313
8261	LM8261M5	311
8262	LM8262MM	317
827	AD827JNZ	313
827	OPA827AID	307
8270	LMP8270MA	334
8271	LMP8271MA	334
8272	LMP8272MA	334
8272	LM8272MM	317
8273	AD8273ARZ	536
828	AD828ARZ	532
828	AD828ANZ	532
828	TCM828ECT713	471
828	MAX828EUK+T	471
828	MAX828EUKG	471
828	ADS828E.	281
829	MAX829EUK+T	471
829	AD829JRZ	532
829	MAX829EUKG	471
829	AD829JNZ	533
829	AD829ARZ	533
83	LM83CIMQA/NOPB	523
83	PA83	324
83	AD2S83APZ	300
83	LM83CIMQA/NOPB.	523
830	AD830ANZ	333
830	DAC0830LCN/NOPB	291
8300	AD8300ARZ	296
83000	ADC083000CIYB	281
8302	AD8302ARUZ	438
8304	AD8304ARUZ	338
8307	AD8307ANZ	570
8307	AD8307ARZ	338
8307	AD8307ANZ	356
831	ADS831EG4	280
831	TS831-5ID	256
831	ADC0831CCN/NOPB	280
831	LMV831MGE	307
831	LMV831MG	307
831	LMV831MGE/NOPB	328
831	TLC0831CDG4	280
831	TS831-5IZ	256
831	TS831-4ID	256
831	ADS831E	280
831	AD831APZ	354
831	TLC0831CP	280
831	ADUC831BSZ	131
831	TS831-4IZ	256
8310	AD8310ARMZ	338
8311	DAC8311IDCKT	297
8314	AD8314ARMZ	438
8318	AD8318ACPZ-WP	338
8318	AD8318ACPZ-R2	338
8318	ADS8318IBDGST	288
832	ADUC832BSZ	573
832	TLC0832CPE4	280
832	ADUC832BSZ	131
832	TLC0832CDG4	280
832	LMV832MM	313
832	TLC0832IDG4	280
832	LMV832MME	313
8320	ADS8320EB	288
8320	ADS8320E/250	288
83204	ISL83204AIPZ	466
8321	ADS8321E/250G4	288
8322	ADS8322Y	288
8323	ADS8323Y	288
8326	ADS8326IBDGKT	288
8327	ADS8327IPW	288
8327	ADS8327IBPWG4	288
8328	ADS8328IBPWG4	288
8329	ADS8329IBRSATG4	288
833	LM833NG	533
833	LM833D	533
833	LM833N	533
833	LM833N	533
833	LM833N.	533
833	LM833DG	537
833	LM833M/NOPB	313
8330	AD8330ARQZ	311
8330	ADS8330IBRSATG4	288
8331	AD8331ARQZ	334
8332	AD8332ARUZ	333
8333	AD8333ACPZ	438
8334	AD8334ACPZ	321
8336	AD8336ACPZ-WP	311
8337	AD8337BCPZ	311
8339	AD8339-EVALZ	358
8339	AD8339ACPZ	356
834	MAX834EUK+	256
834	ADUC834BSZ	573
834	LMV834MT	330
834	ADC0834BCN/NOPB	280
834	ADC0834CCWM/NOPB	280
834	ADUC834BSZ	131
8340	LP8340CDT-2.5.	554
8340	LP8340CDT-1.8.	552
8340	LP8340CLD-ADJ/NOPB	545
8340	LP8340CDT-3.3	558
8340	LP8340CDT-2.5	554
8340	LP8340CDT-1.8	552
8340	LP8340CDT-5.0	561
8341	AD8341ACPZ-WP	356
8341	ADS8341E	288
8341	ADS8341EB	288
8342	AD8342ACPZ-REEL7	356
8342	AD8342ACPZ-WP	356
8343	ADS8343EBG4	288
8343	AD8343ARUZ	356
8344	AD8344ACPZ.	356
8344	ADS8344EBG4	288
8344	ADS8344NG4	288
8344	ADS8344NB	288
8344	ADS8344E	288
8345	ADS8345NBG4	288
8345	LP8345CDT-1.8	552
8345	LP8345CDT-3.3	557
8345	LP8345CDT-5.0	561
8345	ADS8345EB	288
8345	LP8345CLD-ADJ/NOPB	545
8345	LP8345CLD-3.3/NOPB	556
8345	LP8345IDT-5.0	561
8348	AD8348ARUZ	356
8349	AD8349AREZ	356
83491	ISL83491IBZ	452
835	AD835ANZ	341
835	AD835ARZ	341
8350	AD8350ARMZ20	334
8351	AD8351ARMZ	334
8352	AD8352ACPZ-WP	334
8353	AD8353ACPZ	356
8354	AD8354ACPZ	356
83563	MGA-83563-BLKG	357
8358	LP8358MF-1.2	551
836	ADUC836BSZ	131
836	MAX836EUS+	256
836	ADUC836BSZ	573
8361	ADS8361IDBQG4	288
8361	AD8361ARMZ	356
8362	AD8362ARUZ	356
8364	AD8364ACPZ-WP	487
8364	LM8364BALMF30.	487
8364	LM8364BALMF20	487
8364	AD8364ACPZ-R2	356
8365	LM8365BALMF27	487
8365	ADS8365IPAGG4	288
8368	AD8368ACPZ-WP	338
837	LM837N.	533
837	LM837N	319
838	ADC0838CCN	280
838	ADC0838CCWM/NOPB	280
838	TLC0838CDWG4	280
838	TLC0838IDW	280
83815	DP83815DVNG.	424
83815	DP83815DUJB.	424
8383	AD8383ACPZ	440
83843	DP83843BVJE/NOPB	452
83846	DP83846AVHG/NOPB	452
83847	DP83847ALQA56A.	424
83847	DP83847ALQA56A	411
83847	DP83847ALQA56A/NOPB	452
83847	DP83847ALQA56A	574
83848	DP83848CVV	574
83848	DP83848JSQ/NOPB	452
83848	DP83848CVV/NOPB	452
83848	DP83848IVV	574
83848	DP83848CVV	411
83848	DP83848KSQ/NOPB	452
83848	DP83848IVV	411
83848	DP83848VYB	424

Index by Type for Semiconductor ICs

	Mftrs. List No.	Page
83848	DP83848TSQ	424
83848	DP83848MSQ/NOPB	424
83848	DP83848HSQ	424
83849	DP83849CVS	411
83849	DP83849CVS.	424
83849	DP83849IDVS.	424
83849	DP83849IFVS.	424
83865	DP83865DVH	411
83865	DP83865DVH.	424
8389	AD8389ACPZ	440
8392	AD8392AAREZ	356
8397	AD8397ARZ	317
8397	AD8397ARDZ	317
84	Z84C2008PEG	428
84	Z84C0010PEG	165
84	ADC084S021CIMM/NOPB	280
84	DAC084S085CIMM	291
84	TLC084CD	318
84	TL084CD	318
84	TL084ID	318
84	TL084IN	318
84	ADTL084ARZ	327
84	ADTL084JRZ	327
84	Z84C0008PEG	573
84	LM84BIMQA.	523
84	ATTINY84V-10PU	137
84	ATTINY84-20PU	137
84	TLC084AID	304
84	Z84C2006PEG	428
84	Z84C3006PEG	428
84	Z84C4006PEG	428
84	Z84C0008PEG	153
84	TL084QD	324
84	Z84C4206PEG	428
84	Z84C9008VSG	428
840	GS840Z36AGT-166	106
840	MAX840ISA+	354
8400	AD8400ARZ100	433
8400	AD8400ARZ1	435
8400	AD8400ARZ10	433
8402	AD8402ARZ1	433
8402	AD8402ARZ10	433
8402	AD8402ARZ50	433
8402	AD8402ARZ100	433
8403	AD8403ARUZ1	433
8403	AD8403ARUZ100	433
8403	AD8403ARUZ10	433
8403	AD8403ARZ10	433
84032	GS84032AGT-150	106
84051	ISL84051IBZ	340
84053	ISL84053IAZ	343
84053	ISL84053IBZ	345
8406	CS8406-CSZ	455
8406	CS8406-CZZ	455
8408	DAC8408FSZ	292
841	ADUC841BSZ62-3	131
841	ADUC841BSZ62-5	131
841	LMV841MG/NOPB	307
841	LMV841MG	328
841	EVAL-ADUC841QSZ	131
8411	DAC8411IDCKT	298
8412	DAC8412FPZ	296
8412	DAC8412FPCZ	296
8415	CS8415A-CZZ	455
8416	CS8416-CNZ	455
8416	CS8416-CSZ	455
8416	CS8416-CZZ	455
842	EVAL-ADUC842QSZ	131
842	GS842Z36AGB-150	106
842	ADUC842BSZ62-5	131
842	ADUC842BSZ62-3	131
842	LMV842MM/NOPB	329
842	OPA842ID	307
8420	DAC8420ESZ	296
8420	DAC8420FSZ	296
8420	CS8420-CSZ	503
8421	CS8421-CZZ	503
8427	CS8427-CSZ	347
8427	CS8427-CZZ	536
843	AD843JNZ	325
843	AD843KNZ	325
843	ADUC843BSZ62-5	131
843	ADUC843BSZ62-3	131
8430	SI8430-C-IS	457
8430	A8430EEKTR-T	445
8431	SI8431-C-IS	457
8434	A8434EESTR-T	445
844	LMV844MT	307
844	ADC0844CCN	280
844	AD844ANZ	307
844	AD844JRZ-16	307
8440	SI8440-C-IS	457
8441	SI8441-C-IS	457
8442	SI8442-C-IS	457
845	ADUC845BSZ62-5	131
845	EVAL-ADUC845QSZ	131
845	ADUC845BSZ62-3	131
845	AD845KNZ	325
845	MAX845ESA+	471
845	AD845JNZ	325
84514	ISL84514IBZ	345
84541	ISL84541IBZ	343
84541	ISL84541IB	343
84544	ISL84544IBZ	342

	Mftrs. List No.	Page
846	MAX846AEEE+	498
846	OPA846ID	307
846	OPA846ID.	307
846	OPA846IDBVTG4	307
847	ADUC847BSZ62-5	131
847	EVAL-ADUC847QSZ	131
847	OPA847IDBVTG4	307
847	OPA847IDG4	307
847	AD847JRZ	307
847	AD847JNZ	570
847	ADUC847BSZ62-3	131
847	OPA847IDBVT	307
847	AD847JNZ	307
847006	Z0847006PSG	428
848	AD848JNZ	307
848	ADUC848BSZ62-3	131
848	ADC0848CCN	280
848	ADUC848BSZ62-5	131
848	ADC0848CCV	280
8481	A8481EEJTR-T	487
8487	ISL8487EIBZ	451
8498	A8498SLJ-T	487
8499	A8499SLJ-T	487
85	PA85	324
85	MB85RS256PNF-G-JNE1	110
85	DAK-85	503
85	Z85C3008PSG	428
85	MB85R256PFTN-G-BNDE1	110
85	LF85CDT	562
85	ATTINY85-20PU	137
85	ATTINY85V-10SU	137
85	MB85R1001PFTN-GE1	110
85	Z85C3008VSG	428
85	PA85A	324
85	ATTINY85-20SU	137
85	ATTINY85V-10PU	137
85	Z85C3010PSG	416
85	MB85R1002PFTN-GE1	110
850	ADS850Y/250	279
8501	DAC8501E/250G4	298
8502	AD8502ARJZ	330
8502	ISL8502IRZ	465
8504	ADS8504IBDWG4	285
8504	AD8504ARUZ	331
8505	ADS8505IDWG4	288
8507	ADS8507IBDWG4	288
8508	PEX8508-AC25BI G	417
8509	ADS8509IBDWG4	288
8509	ADS8509IDW.	288
8510	AD8510BRZ	325
8510	AD8510ARZ	325
8512	AD8512ARMZ-R2	327
8512	DAC8512FSZ	296
8512	AD8512ARZ	327
8512	DAC8512FPZ	296
8513	AD8513ARZ	325
8515	ATMEGA8515-16JC	138
8515	AD8515ART-R2	311
8515	ATMEGA8515L-8PU	138
8515	ATMEGA8515-16AU	573
8515	ATMEGA8515L-8AU	573
8515	ATMEGA8515L-8AU	138
8515	ADS8515IBDBRG4	288
8515	ADS8515IDBG4	288
8515	ATMEGA8515-16PU	138
8515	ATMEGA8515-16AU	138
8516	AD9516-0BCPZ	437
8516	MAX8516EUB+	543
8517	ADS8517IBDW	288
8517	MAX8517EUB+	546
8518	PEX8518-AC25BI G	417
8519	AD8519ARZ	311
8521	MAX8521ETP+	465
8523008	Z8523008PSG	416
8527	AD8527ARZ	317
8530	Z0853008PSG	428
8530	Z0853006VSG	428
8531	DAC8531E/250G4	298
8531	AD8531ARZ	311
8532	AD8532ARZ	311
8532	DAC8532IDGKG4	298
8532	DAC8532IDGK	298
8534	AD8534ARZ	321
8534	DAC8534IPWG4	298
8535	ATMEGA8535L-8AU	138
8535	ATMEGA8535-16AU	573
8535	ATMEGA8535-16PU	138
8535	ATMEGA8535L-8PU	138
8535	ATMEGA8535-16AU	138
8536	Z0853606VSG	428
8538	AD8538ARZ	311
8539	AD8539ARZ	317
8541	DAC8541Y	298
8541	AD8541AKSZ-R2	329
8541	AD8541ARTZ-R2	329
8541	AD8541ARZ	329
8542	AD8542ARZ	330
8542	AD8542ARUZ	330
8542	AD8542ARMZ-R2	330
8544	AD8544ARZ	321
8544	AD8544ARUZ	331
8546	MAX8546EUB+	487
8548	PEX8548-AA25BI G	417
8551	DAC8551IADGKTG4	298

	Mftrs. List No.	Page
8551	AD8551ARMZ-R2	311
8552	DAC8552IDGKTG4	288
8552	AD8552ARUZ	317
8552	TDA8552T/N1.112	536
8552	AD8552ARZ	317
8554	DAC8554IPWG4	298
8554	AD8554ARZ	331
8555	AD8555ACPZ-R2	337
8555	AD8555ARZ	311
8556	MAX8556ETE+	543
8556	AD8556ARZ	337
85563	MGA-85563-BLKG	357
8557	AD8557ARZ	337
8557	MAX8557ETE+	543
8559	TDA8559T/N1	536
856	MAX856ESA+	546
856	MAX856CSA+	471
8560	DAC8560IDDGKTG4	298
8561	AD8561ARZ	429
8561	AD8561ANZ	429
8563	PCF8563P/F4,112	253
8563	PCF8563T/F4,112	253
8564	AD8564ARZ	431
8564	AD8564ANZ	431
8564	RTC-8564JE	253
8564	RTC-8564NB	253
8564	RX-8564LC	253
8566	PCF8566T,112	440
8566	AD8566ARMZ	311
8570	PCF8570P/F5	104
8570	PCF8570T/F5	104
8571	AD8571ARZ	329
8571	DAC8571IDGKG4	298
8572	AD8572ARZ	317
8573	DP8573AV/NOPB	253
8574	PCA8574TS	427
8574	PCF8574T/3	427
8574	PCF8574AP	428
8574	PCF8574T	428
8574	PCA8574N	427
8574	PCF8574P	428
8574	PCF8574TS/3,112	411
8574	PCF8574AT	428
8574	AD8574ARZ	331
8574	DAC8574IPWG4	298
8575	PCF8575PWE4	518
8575	PCA8575DB	427
8575	PCF8575CPW	518
8575	PCF8575TS/1,112	411
8575	PCF8575CDWE4	518
8575	PCF8575CDBE4	518
8577	PCF8577CP/F3,112	440
8582	PCF8582C-2T/03	112
8582	PCF8582C-2P/03,112	112
8583	PCF8583T/F5	253
8583	PCF8583P	253
8584	PCF8584P,112	411
8591	PCF8591P	281
8592	AD8592ARMZ-REEL	330
8592	AD8592ARMZ	311
8593	PCF8593P,112	253
8593	PCF8593T/1.112	253
8594	AD8594ARZ	331
8599	AD8599ARZ	317
86	Z86E0412PSG1866	165
86	TMP86FH12MG	164
86	TMP86FM26UG	164
86	Z86C9116PSG	165
86	TMP86FM29UG	164
86	74HCT1G86GW	61
86	Z86E3016PSG	165
86	Z86E0812PSG1866	165
86	TMP86FH47UG	164
86	TMP86FS49AFG(Z)	164
86	TMP86FS49AUG(JZ)	164
86	PA86EU	324
86	TMP86FS28FG	164
860	OPA860ID	332
860	MIC860YC5 TR	307
860	MAX860ISA+	471
860	VNQ860SP-E	460
860	MAX860ESA+	471
860	MAX860IUA+	471
8600	MAX8600ETD+T	498
8601	MAX8601ETD+T	498
8601	AD8601ARTZ-R2	311
8602	AD8602ARZ	330
8603	AD8603AUJZ-R2	329
8604	AD8604ARUZ	321
8604	AD8604ARZ	331
8605	AD8605ARTZ-R2.	311
8606	MAX8606ETD+T	498
8606	AD8606ARMZ-R2.	317
8606	AD8606ARZ	330
8607	AD8607ARMZ-R2	330
8607	AD8607ARZ	317
8608	AD8608ARUZ	321
8609	AD8609ARZ	321
861	ATTINY861-20PU	138
861	ATTINY861-20SU	138
861	ATTINY861V-10PU	138
861	ATTINY861V-10SU	138
861	LMV861MG/NOPB	328
861	MIC861YC5 TR	307

	Mftrs. List No.	Page
861	MAX861ESA+	471
861	OPA861ID	307
861	MAX861ISA+	471
8610	AD8610ARZ	325
8611	AD8611ARZ	429
8611	AD8611ARMZ-R2	429
8612	AD8612ARUZ	430
8613	AD8613AKSZ-R2	329
8613	AD8613AUJZ-R2	329
8615	AD8615AUJZ	311
8616	AD8616ARZ	317
8616	AD8616ARMZ-R2	330
8617	AD8617ARMZ-R2	330
8617	AD8617ARZ	330
8618	AD8618ARUZ	322
8618	AD8618ARZ	322
8619	AD8619ARUZ	331
8619	AD8619ARZ	331
862	MIC862YM8 TR	313
862	LMV862MM	313
8620	MAX8620YETD+T	488
8620	AD8620ARZ	327
8625	AD8625ARZ	325
8626	AD8626ARZ	327
8627	AD8627ARZ	325
86276	MB86276PB-GS-ZE1	519
8628	AD8628ARTZ-R2	311
8628	AD8628ARZ	311
8629	AD8629ARMZ	317
8629	AD8629ARZ	311
863	MIC863YM8 TR	313
8630	AD8630ARUZ	322
8630	AD8630ARZ	322
8631	MAX8631YETI+	444
8631	MAX8631XETI+	444
8632	AD8632ARZ	311
8638	AD8638ARZ	329
864	MAX864EEE+	471
8641	AD8641AKSZ-R2	326
8641	AD8641ARZ	326
8642	AD8642ARMZ-R2	327
8642	AD8642ARZ	327
8643	AD8643ARZ	327
8643	AD8643ACPZ-R2	327
8644	AD8644ARZ	322
8645	MAX8645XETI+	442
8645	MAX8645YETI+	442
8646	AD8646ARZ	317
8648	MAX8647ETE+	441
8648	AD8648ARZ	322
8648	AD8648ARUZ	322
865	MAX865EUA+	471
8651	AD8651ARZ	311
8652	AD8652ARZ	330
8652	AD8652ARMZ-R2	317
8656	AD8656ARZ	330
866	SAK-XC866-4FRI	151
8660	MAX8660ETL+	488
8661	AD8661ARZ	329
8662	AD8662ARZ	317
8664	AD8664ARZ	331
8665	AD8665ARZ	311
8666	AD8666ARZ	317
8667	AD8667ARZ	330
8668	AD8668ARUZ	322
8668	AD8668ARZ	322
8671	AD8671ARZ	311
8671	MAX8671XETL+	498
8672	AD8672ARZ	317
8674	AD8674ARZ	322
8675	AD8675ARZ	311
8676	AD8676BRZ	317
8676	AD8676ARZ	317
8677	MAX8677AETG+	488
8677	AD8677ARZ	311
8678	MAX8678ETE+	444
868	MAX868EUB+	471
868	SAK-C868-1SR	151
8682	AD8682ARZ	327
8684	AD8684ARZ	327
8691	AD8691AKSZ-R2	311
8691	AD8691AUJZ-R2	311
8692	AD8692ARMZ-R2	318
8692	AD8692ARZ	311
8692	ADM8692ANZ	488
8694	AD8694ARZ	322
8694	ADM8694ANZ	488
8694	AD8694ARUZ	322
8695	ADM8695ARWZ	488
8696	ADM8696ANZ	488
8697	ADM8697ANZ	488
8698	AD8698ARZ	318
8698	AD8698ARMZ-R2	318
8698	ADM8698ANZ	488
8699	ADM8699ANZ	488
87	P87C52UBPN	155
87	P87C51SBPN	155
87	P87C51FB-4N	155
87	P87C51RA+4A.	155
87	LM87CIMT.	523
87	P87C51FA-4A	155
87	P87C51RA+4A	155
87	P87C51RD+4A	155
87	P87LPC764BN	154

Index by Type for Semiconductor ICs

	Mftrs. List No.	Page
87	DS87C520+MCL	151
87	P87C52SBPN	155
87	MB87P2040PMT-G-BND-DLE1	519
87	DS87C520-QCL+	151
87	DS87C520-WCL	151
87	P87C51RC+4A	155
87	P87C52UBAA	155
87	P87C52SBAA	155
8700	FDMF8700	465
8705	FDMF8705	465
8716	WM8716SEDS	301
8718	WM8718SEDS	301
8724	MAX8724ETI+	488
8725	MAX8725ETI+	498
8725	WM8725GED/V	301
8727	WM8727GED/V	301
8731	WM8731SEDS	301
8740	WM8740SEDS	301
8750	WM8750BLSEFL	301
87563	MGA-87563-BLKG	357
8785	WM8785GEDS/V	301
8786	WM8786GEDS/V	301
8790	MAX8790ETP+	444
8790	MAX8790AETP+	444
87C51	P87C51FA-4N	155
87C552	P87C552SFAA,512	155
87C762	P87LPC762BN	154
87C764	P87LPC764FN	154
88	XR88C681CP/40-F	416
88	ATMEGA88-20PU	570
88	TMP88FW45FG	164
88	PA88	324
88	ATMEGA88-20MU	137
88	ATMEGA88V-10MU	137
88	ATMEGA88-20AU	573
88	ATMEGA88V-10AU	573
88	MM88C30N	445
88	ATMEGA88V-10PU	137
88	ATMEGA88V-10AU	137
88	ATMEGA88-20PU	137
88	ATMEGA88-20AU	137
880	GS880Z36BGT-150	106
8800	DAC8800FSZ	292
8800	DAC8800FPZ	292
88011	ISL88011IH522Z	528
88012	ISL88012IH522Z	528
88013	ISL88013IH522Z	528
88016	ISL88016IHTZ	491
88017	ISL88017IHTZ	491
8802	DAC8802IPWG4	297
88021	ISL88021IU8FAZ	492
88022	ISL88022IU8FAZ	492
8803	AD8803ARZ	292
88031	ISL88031IU8EAZ	492
88041	ISL88041IBZ	492
8805	DAC8805QDBT	297
8806	DAC8806IDBG4	297
881	MAX881REUB+	471
881	GR881-H	108
881	GR881	108
8811	DAC8811ICDRBT	298
8812	DAC8812ICPWG4	298
8812	DAC8812IBPW	298
8812	DAC8812ICPW	298
8814	MAX8814ETA+T	498
8819	MAX8819CETI+	488
882	MAX882CPA	544
882	MAX882CSA+	544
8820	DAC8820ICDBG4	298
8828	ADM8828ART-REEL7	550
883	MAX883CSA+	544
883	MAX883CPA+	544
8830	DAC8830ICD	298
8831	ADC08831IM/NOPB	281
8831	DAC8831IBD	288
8832	DAC8832ICRGYT	288
8832	ADM8832ACPZ	488
8839	ADM8839ACPZ	488
884	ADG884BRMZ	342
884	MAX884CSA+	544
8840	DAC8840FSZ.	292
8841	KSZ8841-16MQL	424
8842	KSZ8842-16MQL	424
886	SAK-XC886LM-8FFA	151
886	SAK-XC886LM-6FFA	151
886	SAK-XC886CM-8FFA	151
886	SAK-XC886CLM-8FFA	151
886	SAK-XC886C-8FFA	151
886	SAK-XC886-8FFA	151
886	SAK-XC886-6FFA	151
8863	MAX8863SEUK+T	543
8869	MAX8869EUE50+	554
8869	MAX8869EUE33+	546
8869	MAX8869EUE25+	546
8869	MAX8869EUE18+	546
887	MAX887HESA+	547
88731	ISL88731AHRZ	492
888	SAK-XC888C-8FFA	151
888	SAK-XC888-8FFA	151
888	SAK-XC888-6FFA	151
888	SAK-XC888CLM-8FFA	151
888	SAK-XC888CM-8FFA	151
888	SAK-XC888LM-6FFA	151
888	SAK-XC888LM-8FFA	151
888	ADG888YRUZ	342
8881	MAX8881EUT50+T	553
88822	DAC8822QCDBTG4	298
889	MAX889SESA+	544
889	MAX889RESA+	544
8893	KSZ8893MQL	424
89	AT89STK-05	135
89	AT89STK-11	134
89	AT89C51RE2-SLSUM	135
89	AT89STK-10	135
89	P89LPC922FDH.129	154
89	AT89S52-24AU	573
89	AT89S8253-24AU	573
89	P89LPC931FDH.129	154
89	P89LPC901FN.129	154
89	AT89C5131A-S3SUM	135
89	AT89C51CC01UA-SLSUM	135
89	AT89C51CC03UA-SLSUM	135
89	AT89C51ED2-RLTUM	135
89	AT89C51ED2-SLSUM	135
89	AT89C51ED2-SMSUM	135
89	AT89C51SND1C-ROTUL	135
89	AT89C55WD-24JU	135
89	AT89C55WD-24PU	135
89	AT89S2051-24PU	135
89	AT89S2051-24SU	135
89	AT89S4051-24PU	135
89	AT89S4051-24SU	135
89	AT89S51-24JU	135
89	AT89S51-24PU	135
89	AT89S8253-24PU	135
89	DS89C387TMEA/NOPB	446
89	AT89C51ED2-SLSUM	570
89	AT89C51ED2-RLTUM	573
89	AT89S8253-24JU	135
89	P89LPC9408FBD	154
89	AT89S8253-24AU	135
89	AT89S52-24PU	135
89	P89LPC902FN.129	154
89	P89LPC930FDH.129	154
89	AT89S52-24JU	135
89	AT89S52-24AU	135
890	MAX890LESA+	460
890	OPA890ID	307
8900	CS8900A-IQZ	455
8900	CS8900A-CQZ	455
8900	CS8900A-CQ3Z	455
8900	LP8900TLX-3333	549
8901	MAX8901AETA+T	441
8904	A8904SLB-T	458
8905	BD8905F-E2	332
891	MAX891LEUA+	460
892	MAX892LEUA+	460
8921	DS8921N/NOPB	451
8921	DS8921AM/NOPB	451
8921	DS8921N	451
8922	DS8922M/NOPB	451
8922	DS8922AN/NOPB.	451
8923	DS8923AM/NOPB	451
8943	TDA8943SF/N1.112	536
8950	WM8950GEFL/V	301
8952	CS8952-IQZ	455
8952	CS8952-CQZ	455
8974	WM8974GEFL/V	301
89828	SY89828LHG	87
89831	SY89831UMG	87
89833	SY89833LMG	87
89874	SY89874UMG	87
8995	KSZ8995MA	424
9	MC9S12E128MFUE	208
9	MC9S12DP512CPVER	208
9	MC9S12DJ64CPVE	208
9	MC9S12DJ256CPVE	208
9	MC9S08GB32CFUE	148
9	MC9S08GT8ACFDE	148
9	MC9S08GT16CFBE	148
9	MC9S08GT8ACFBE	148
9	MC9S08GT16CFDE	148
9	MC9S08GT32CFDE	148
9	MC9S08GT8ACBE	148
9	MC9S08GT60CFDE	148
9	MC9S12C32CFAE16	208
9	MC9S12C32CFUE16	208
9	MC9S12D32CFUE	208
9	MC9S08GT8ACFCE	148
9	X9C103SIZ	435
9	MC9S12DB128CPVE	208
9	MC9S12DJ64CFUE	208
9	MC9S12DG256VPVE	208
9	MC9S12NE64VTUE	208
9	MC9S12DJ256CFUE	208
9	X9C104PIZ	435
9	X9C102PZ	435
9	MC9S12A512CPVE	208
9	X9C102SIZ	434
9	X9C102PIZ	434
9	X9C103SZ	435
9	X9C104SZ	435
9	X9C102SZ	434
9	X9C103PIZ	434
9	X9C503SZ	435
9	MC9S12UF32PBE	209
9	X9C103PZ	434
9	MC9S12NE64CPVE	209
9	MC9RS08KA1CSC	147
9	MC9RS08KA2CSC	147
9	HA9P5320-5Z	337
9	MC9RS08KA2CPC	147
9	MC9S08GT60ACFBE	148
9	MC9S08GT60ACFDE	148
9	MC9S08GT8AMFDE	148
9	MC9S12XDP512MAG	208
9	MC9S08GT8AMFBE	148
9	MC9S08GT8AMFCE	148
9	MC9S12H256VFVER	208
9	MC9S12XDP512CAL	208
9	HA9P5002-5Z	331
9	MC9S12XDP512CAG	208
9	MC9S12C96CFAE	575
9	MC9S12C64CFAE	575
9	MC9S12XA512CAA	208
9	MC9S12C32CFAE16	574
9	MC9S12XA256CAA	208
9	MC9S12GC96CFUE	208
9	MC9S08QG8CPBE	149
9	MC9S08QG8CDTE	149
9	MC9S08QG8CFFE	149
9	MC9S08QG8CDNE	149
9	MC9S08QG4CDTE	149
9	MC9S08QG4CFFE	149
9	MC9S08QG4CFQE	149
9	MC9S08QG4CDNE	149
9	MC9S08QG4CPAE	149
9	MC9S12GC96CFAE	208
9	MC9S12GC64CFUE	208
9	MC9S12GC128CFUE	208
9	MC9S12DT256CPVE	207
9	MC9S12DG256CPVE	208
9	MC9S12DG256CFUE	208
9	MC9S12C96CFUE	208
9	MC9S08AW16CFDE	147
9	MC9S08AW16CFGE	147
9	MC9S12C32MFAE25	575
9	MC9S08AW16CFUE	147
9	MC9S08AW16CPUE	147
9	MC9S08AW32CFDE	147
9	MC9S08GT8ACFDE	148
9	MC9S08GT60ACFDE	148
9	MC9S08GT60ACFBE	148
9	MC9S08AW32CFGE	147
9	MC9S08AW32CFUE	147
9	MC9S08AW32CPUE	147
9	MC9S08AW60CFGE	147
9	MC9S08AW60CFUE	147
9	MC9S08AW60CPUE	147
9	MC9S08AW32CFGE	147
9	MC9S12XD256CAL	208
9	MC9S12XD256CAG	208
9	MC9S12XD256CAA	208
9	MC9S12XDT512CAL	208
9	MC9S12XDT512CAG	208
9	MC9S12XDT512CAA	208
9	MC9S12XDT256CAL	208
9	MC9S08AW60MFGE	147
9	MC9S12XDT256CAG	208
9	MC9S12C128CFUE	208
9	MC9S12B128CPVE	208
9	MC9S12B128MFUE	208
9	MC9S12C64CFAE	208
9	MC9S12B64CFUE	208
9	MC9S12C64CFUE	208
9	MC9S12C128CFAE	208
9	HI9P0303-9Z	342
9	HI9P0508-5Z	340
9	MC9S08QG8CDTER	149
9	MC9S12A32CFUE	208
9	MC9S12A256CPVE	208
9	MC9S12DG256MFUE	208
9	MC9S12C96CFAE	208
9	MC9S12A256CFUE	208
9	MC9S12C64MFUE	208
9	MC9RS08KA1CDB	147
90	OP90GSZ	304
90	DS90CF388AVJD/NOPB	447
90	DS90CF388VJD/NOPB	447
90	DS90CP04TLQ/NOPB	343
90	DS90UR241QVS	346
90	DS90CR216AMTD/NOPB	447
90	DS90C241QVS	346
90	DS90CR283MTD/NOPB	447
90	DS90UR124QVS	346
90	AT90USB162-16MU	137
90	DS90C363MTD/NOPB	445
90	DS90LV011ATMF	347
90	DS90LV032ATMTC/NOPB	446
90	DS90UR241IVS/NOPB	346
90	DS90CP22MT	347
90	DS90CR215MTD	347
90	DS90CP22M-8	347
90	DS90LV019TMTC	347
90	DS90LV004TVS	574
90	DS90CF383BMT	347
90	OP90GPZ	304
90	DS90C387AVJD/NOPB	446
90	DS90CR288AMTD/NOPB	446
90	DS90LV018ATMX/NOPB	445
90	AT90USB1287-16AU	573
90	DS90C124IVS.	346
90	AT90CAN128-16AU	573
90	DS90LV804TSQ	347
90	DS90LV004TVS/NOPB	347
90	DS90CR484AVJD	346
90	DS90LV047ATM	347
90	AT90USBKEY	136
90	DS90C032TM	346
90	LF90CDT	563
90	AT90USB647-16MU	138
90	AT90USB647-16AU	138
90	DS90LV048ATM	347
90	ATDVK90CAN1	136
90	DS90CR286AMTD	347
90	DS90LV018ATM.	347
90	LM90CIMM	523
90	DS90C031TM	346
90	AT90USB1287-16AU	137
90	AT90USB646-16MU	138
90	DS90C363BMT	346
90	DS90C365AMT	346
90	DS90C383BMT	346
90	DS90C385AMT	347
90	SCAN90CP02VY/NOPB	342
90	DS90CR218AMTD.	347
90	DS90CR485VS	347
90	DS90CR486VS	347
90	DS90C124IVS	346
90	DS90LV028ATM	347
90	DS90LV032ATMTC	347
90	DS90LV001TM.	347
90	DS90LV017ATM.	347
90	DS90LV019TM.	347
90	AT90PWM2B-16SU	137
90	AT90PWM3B-16SU	137
90	DS90LV110TMTC.	347
90	DS90C3202VS/NOPB	447
90	AT90USB1286-16MU	138
90	DS90LV018ATM	347
90	AT90USB1287-16MU	138
90	OP90GPZ	571
90	DS90LV049HMT/NOPB	447
90	AT90USB162-16AU	137
90	DS90LV110ATMT	347
90	AT90CAN64-16AU	137
90	AT90CAN32-16AU	137
90	AT90CAN128-16AU	137
90	DS90UR241IVS	346
90	DS90UR124IVS	346
90	DS90CR285MTD/NOPB	346
90	DS90LV047ATMTC	446
90	DS90LV048ATMTC	446
90	DS90C241IVS	346
90	DS90LV047ATMTC/NOPB	446
90	DS90C387VJD/NOPB	447
90	DS90CR287MTD	347
900	DIR9001PW.	533
9000	MAX9000EUA+	311
9001	NCP9001SNT1G	488
9001	THS9001DBVT	338
9003	ISL9003AIEBZ	551
9003	NCP9003SNT1G	444
9004	NCP9004FCT1G	536
9007	TS9007DCX5 RF	567
9007	TS9007PCX5 RF	567
9007	ISL9007IUFZ	553
901	ADG901BRMZ	341
902	ADG902BRMZ	341
9021	MAX9021AUK+T	431
9022	LM9022M	438
9022	MAX9022ASA+	431
903	MAX903CSA+	428
9031	MAX9031AUK+T	431
9032	MAX9032ASA+	431
90363	LM9036MM-3.3	556
904	DAC904UG4	297
904	DAC904E	297
904	DAC904EG4	297
9051	DG9051DQ-T1-E3	344
9052	DG9052DQ-T1-E3	344
9053	DG9053DQ-T1-E3	343
906	CDCE906PWG4	354
9076	LM9076S-3.3	556
9076	LM9076BMA-5.0	560
9076	LM9076S-5.0	560
9076	LM9076BMA-3.3.	556
9077	MAX9077ESA+	431
908	MCHC908QT4CDWE	146
908	MCHC908QT2CDWE	146
908	MCHC908QT1CDWE	146
908	MCHC908JK8CPE	146
908	MCL908QT1CDWE	146
908	MCHC908MR8CFAE	146
908	MCHC908JK3ECPE	146
908	MCHC908JK1ECPE	207
908	MCHC908GR8CFAE	145
908	MC908AS60ACFNE	145
908	MC908AZ32ACFUE	145
908	MC908AZ60ACFUE	145
908	MC908LK24CFUE	146
908	MC908LJ24CPBE	146
908	MC908BD48IBE	145
908	MC908GR4CDWE	145
908	MC908LJ24CFUE	146
908	MC908GR8CDWE	207

Index by Type for Semiconductor ICs

	Mftrs. List No.	Page
908	MC908GR8CPE	145
908	MC908GT16CBE	145
908	MC908GT16CFBE	145
908	MC908GT8CBE	145
908	MC908LJ12CPBE	146
908	MC908GT8CFBE	145
908	MC908JB16DWE	146
908	MC908JB8ADWE	146
908	MC908JB8FBE	146
908	MC908JK1ECDWE	146
908	MC908LD64IFUE	146
908	MC908JL8CPE	146
908	MC908JK3ECDWE	146
908	MC908JK3EMDWE	146
908	MC908JL8CDWE	146
908	MC908JK8CDWE	146
908	MC908JL3ECDWE	146
908	MC908JL3ECPE	146
908	DAC908E..	291
908	MC908AZ60AMFUE	145
908	MC908JL16CDWE	146
908	MC908JL16CPE	146
908	MC908JL3ECFAE	146
908	MC908QB8CDTE	146
908	MC908QB8CDWE	146
908	MC908QB8MPE	146
908	MC908QY8CDTE	146
908	MC908SR12CFAE	147
908	MC908SR12CBE	147
908	MC908MR32CFUE	146
908	MC908QY8CDWE	146
908	MAX908CPD+	431
908	DAC908UG4	291
908	MCHC908MR8CFAE	146
908	MC908AB32CFUE	145
908	MC908GT16CFBE	145
908	MC908AP16CFAE	145
908	MC908AP16CFBE	145
908	MC908AP32CFAE	145
908	MC908AP32CFBE	145
908	MC908MR16CFUE	146
908	MC908MR16CBE	146
908	MC908AP8CFAE	145
9080	UCD9080RHBTG4	488
9091	GS9091BCBE3	357
9092	DS9092+	515
9092	DS9092L+	518
9097	DS9097U-E25#	356
9097	DS9097U-S09#	356
91	AT91SAM7S256-AU-001	233
91	AT91SAM7S128-AU-001	233
91	LAN91C96-MU	423
91	DS91M040TSQE	347
91	LAN91C111-NU	423
91	AT91SAM7SE512-AU	233
91	AT91SAM7SE32-AU	233
91	AT91SAM7SE256-AU	233
91	AT91SAM7A3-AU	233
91	LAN91C111-NS	423
91	AT91SAM7S64-AU-001	573
91	AT91SAM7S256-AU-001	573
91	LAN91C111I-NU	423
91	LAN91C111I-NS	423
91	AT91SAM7S128-AU-001	573
91	EZ80F91AZ050SG	164
91	AT91SAM7X512-AU	233
91	AT91SAM7X256-AU	233
91	AT91SAM7X128-AU	233
91	AT91SAM7S512-AU	233
91	AT91SAM7S321-AU	233
91	DS91C176TMA/NOPB	447
91	DS91M040TSQE/NOPB	447
91	AT91SAM7S32-AU-001	233
91	AT91SAM7S64-AU-001	233
91	DS91C180TMA	347
91	DS91D176TMA	347
910	TMPA910CRAXBG	243
9100	LM49100GR	536
911	TSV911AID	307
911	TSV911ID	307
911	TSV911AIDT	307
911	TSV911IDT	307
911	TSV911ILT	307
9110	EL9110IUZ	446
9115	LAN9115-MT	423
9116	XC9116B02AMR	488
9116	LAN9116-MT	423
9117	LAN9118-MT	423
9117	LAN9117-MT	423
9119	MAX9119EXK+T	431
9119	XC9119D10AMR	488
912	TS912IN	329
912	TSV912AID	313
912	TS912ID	329
912	TSV912ID	313
912	TS912IDT	329
912	TSV912AIDT	313
912	TSV912IDT	313
9120	SI9120DJ-E3	488
913	CDCE913PWG4	354
913	TC913BCPA	329
913	TC913ACOA	313
914	TSV914IPT	319
914	TS914ID	330

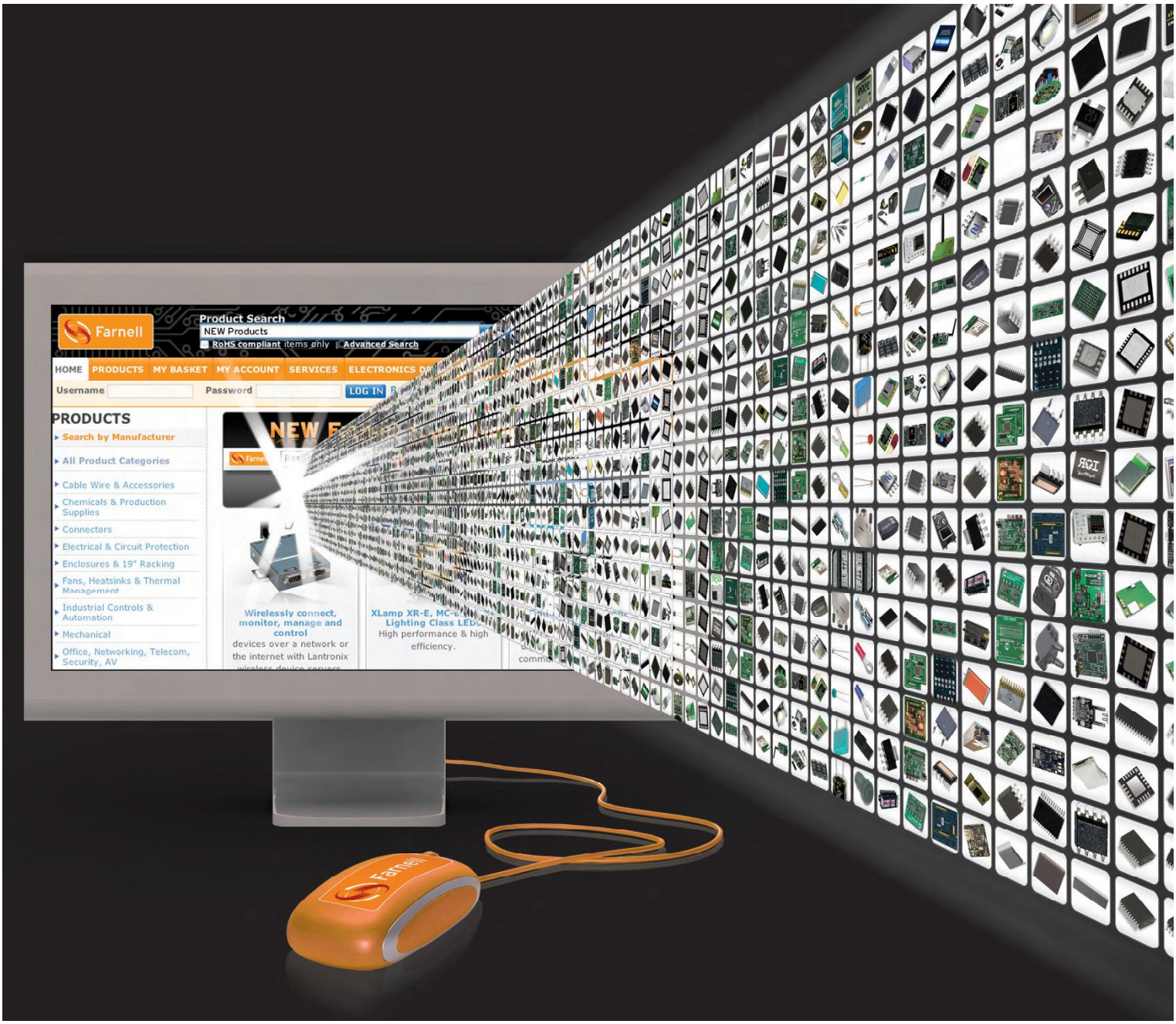
	Mftrs. List No.	Page
914	TSV914AIPT	319
9142	MAX9142ESA+	431
9144	MAX9144ESD+	431
9145	SI9145BY	488
91563	IAM-91563-BLKG	357
918	ADG918BRMZ	341
919	MAX919ESA+	431
919	ADG919BRMZ	342
92	DS92LV040ATLQA	347
92	TMP92FD54AIFG	164
92	DS92CK16TMTC	347
92	DS92LV1021TMSA	347
92	DS92LV010ATM	347
92	EZ80L92AZ020SG	164
92	LM92CIM	523
92	DS92LV16TVHG	347
92	TMP92CH21FG	164
92	DS92LV1021AMSA	347
92	DS92LV090ATVEH..	347
92	DS92LV090ATVEH	574
92	DS92001TMA	347
9200	SI9200EY	416
9200	ISL9200IRZ	332
92001	DS92001TMA/NOPB	445
9201	TPL9201PWP	465
9201	XC9201D09AKRN	488
9201	XC9201C33AKRN	488
9201	XC9201C50AKRN	488
9201	AD9201ARSZ	282
9202	TPL9202PWP	465
9203	ISL9203CRZ-TR5220	488
9204	ISL9204IRZ-T	332
9205	MAX9205EAI+	347
9206	MAX9206EAI+	348
9206	ISL9206DRZ	332
9207	XC9207A33CMRN	488
9208	ISL9208IRZ	332
9209	ISL9209IRZ	488
921	TS921IN	307
921	TS921ID	328
921	MAX921CSA+	429
921	MAX921ESA+	429
9212	ISL9212AIRZ	488
9212	ISL9212IRZ	488
9212	AD9212BCPZ-40	282
9214	ISL9214IRZ	332
9215	AD9215BRUZ-105	282
9215	AD9215BRUZ-65	282
9215	AD9215BRUZ-80	282
9215	AD9215BCPZ-80	282
9216	XC9216A18CMR	488
9216	AD9216BCPZ-65	573
9216	XC9216A12CMR	488
9216	AD9216BCPZ-105	282
9216	AD9216BCPZ-65	282
9217	MAX9217ECM+	348
9218	AD9218BSTZ-65	282
9218	AD9218BSTZ-40	282
922	TS922ID	329
922	TS922IDT	313
922	TS922IN	313
922	TS922IPT.	313
9220	AD9220ARZ	285
9221	XC9221C09AMR	488
9221	XC9221C093MR	488
9221	XC9221C095MR	488
9222	AD9222BCPZ-50	285
9223	XC9223B081AR	488
9224	AD9224ARSZ	285
9226	XC9226A33CMR	488
9226	XC9226A18CMR	488
9226	XC9226A30CMR	488
9226	XC9226A15CMR	488
9226	XC9226A12CMR	488
9228	AD9228BCPZ-40	573
9228	AD9228BCPZ-40	285
9229	AD9229BCPZ-50	285
9233	AD9233BCPZ-105	296
9233	DG9233DY-T1-E3	343
9233	AD9233BCPZ-125	296
9235	AD9235BRUZ-65	285
9235	MAX9235ETE+	348
9235	AD9235BRUZ-40	285
9235	AD9235BCPZ-65	285
9237	AD9237BCPZ-65	285
9237	AD9237BCPZ-40	285
9237	AD9237BCPZ-20	285
9238	AD9238BSTZ-40	285
9238	AD9238BSTZ-65	573
9238	AD9238BSTZ-65	285
924	TS924ID	330
924	TS924IN	330
9240	UCD9240PFC	488
9240	AD9240ASZ	286
9241	SI9241EY	488
9241	X9241AWSIZ	434
9244	AD9244BSTZ-65	573
9244	AD9244BSTZ-65	286
9246	AD9246BCPZ-125	286
9246	AD9246BCPZ-105	286
9248	AD9248BSTZ-65	286
9248	AD9248BSTZ-40	286
9248	AD9248BSTZ-20	286
9248	AD9248BSTZ-65	573

	Mftrs. List No.	Page
9248	AD9248BSTZ-40	573
9248	AD9248BSTZ-20	573
925	CDCE925PWG4	354
925	TS925ID	319
925	TS925IN	319
9254	AD9254BCPZ-150	286
9259	AD9259BCPZ-50	286
9271	AD9271BSVZ-25	350
9280	AD9280ARSZ	281
9281	AD9281ARSZ	281
9288	AD9288BSTZ-100	281
93	93LC86C-I/MS	115
93	93LC76C-I/MS	115
93	93LC56B-I/SN	115
93	93LC66B-I/MS	115
93	93LC66A-I/SN	115
93	AT93C46D-PU	114
93	93AA66CT-I/MC	115
93	M93C56-WMN6P	115
93	M93C86-WBN6P	115
93	93AA66C-I/SN	115
93	93LC56A/P	115
93	93LC56A/SN	115
93	93LC46/P	114
93	93LC66A/P	115
93	93AA66C-I/P	115
93	93LC66A/SN	115
93	93LC66B/P	115
93	93LC66B/SN	115
93	93LC66B-I/SN	115
93	93LC56/SN	115
93	93LC66C-I/SN	115
93	93AA66C-I/MS	115
93	93AA66BT-I/OT	115
93	93LC66A-I/MS	115
93	93LC56C-I/MS	115
93	M93C66-WMN6P	115
93	93LC56B-I/MS	115
93	M93S46-WMN6P	114
93	M93C46-WBN6P	114
93	CAT93C86VI	115
93	93LC56A-I/SN	115
93	93LC56A-I/P	115
93	CAT93C66VI	115
93	CAT93C56VI	115
93	CAT93C46VI	114
93	93LC46C-I/MS	114
93	93LC46B-I/MS	114
93	93LC46A-I/SN	114
93	93LC46A-I/P	114
93	93LC46A-I/MS	114
93	93AA86C-I/SN	115
93	93AA86C-I/MS	115
93	93LC66A-I/P	115
93	93AA86BT-I/OT	115
93	93AA86AT-I/OT	115
93	93AA76C-I/SN	115
93	93AA76C-I/MS	115
93	93LC86-I/SN	115
93	93LC86C-I/P	115
93	93AA76BT-I/OT	115
93	M93C86-WMN6P	115
93	93AA76AT-I/OT	115
93	93AA56AT-I/OT	114
93	93AA56A-I/SN	114
93	93AA46CT-I/MC	114
93	93AA46C-I/SN	114
93	93AA46C-I/P	114
93	93LC56B/P	115
93	93AA46C-I/MS	114
93	93AA46BT-I/OT	114
93	93C46B/P	114
93	93AA46B-I/SN	114
93	M93C46-WMN6P	114
93	93LC46A/SN	114
93	93LC46/SN	114
93	93AA46B-I/MS	114
93	93C46B-I/SN	114
93	93C46B/SN	114
93	M95256-WMW6G	117
93	93AA46AT-I/OT	114
93	93AA46A-I/SN	114
93	93AA46A-I/P	114
93	93AA46A-I/MS	114
93	93LC46B-I/P	114
93	TSH93ID	318
93	93LC46BT-I/SN	114
93	93LC66/SN	115
93	93LC86/P	115
93	93LC46C-I/SN	114
93	93AA66A-I/SN	115
93	93AA66AT-I/OT	115
93	93AA66A-I/MS	115
93	93AA66B-I/MS	115
93	HT93LC46-8SOP-A	114
93	HT93LC56-8SOP-A	115
93	93AA56CT-I/MC	115
93	93AA56C-I/SN	115
93	93AA56C-I/MS	114
93	93LC56B/SN	115
93	93AA66B-I/SN	115
93	93LC46B-I/SN	114
93	93LC46B/SN	114
93	93LC46B/P	114

	Mftrs. List No.	Page
93	AT93C46DN-SH-B	114
93	93AA56BT-I/OT	114
93	93AA56B-I/SN	114
93	93AA56B-I/P	114
93	93AA56B-I/MS	114
9301	EP9301-CQZ	235
9301	ISL9301IRZ	488
9302	EP9302-CQZ	235
9306	PCA9306DCUTE4	411
9307	EP9307-CRZ	235
931	MAX931CPA+	429
931	TS931ILT	307
931	MAX931ESA+	429
931	LMV931MG	307
931	LMV931MF	307
931	ADS931E..	280
931	TS931ID.	307
9312	EP9312-CBZ	235
9313	X9313WSZ	435
9313	X9313WP	435
9315	X9315WP	435
9315	EP9315-CBZ	235
932	LMV932MM	313
932	LMV932MA.	313
932	MAX932CSA+	430
932	MAX932CPA+	430
932	TS932ID	313
9328	MC9328MX21CVK	236
9328	MC9328MX21VM	236
9328	MC9328MX21DVK	236
9328	MC9328MX21CVM	236
9328	MC9328MX21VK	236
9328	MC9328MXLCVM15	236
9328	MC9328MXLCVP15	236
9328	MC9328MXLVP15	236
9328	MC9328MXSVP10	236
9328	MC9328MXLVM20	236
9328	MC9328MXLVP20	236
934	LMV934MT.	319
934	TS934ID	319
934	TS934IN	319
934	LMV934MA.	319
9352	AD9352BCPZ	356
9353	AD9353BCPZ	356
936	ADG936BCPZ	342
936	ADG936BRUZ	342
94	LM94CIMT	523
94	TSH94ID	318
94	SS94A2	439
94	TL494CNSR	469
94	TL494CPWG4	469
9400	TC9400CPD	437
9400	TC9400COD	437
9401	TC9401CPD	437
9402	TC9402CPD	437
94021	LM94021BIMG	525
94022	LM94022BIMG	525
94023	LM94023BITME/NOPB	525
9406	MAX9406ETM+	536
94070	MIC94070YC6 TR	466
94071	MIC94071YC6 TR	466
94072	MIC94072YC6 TR	466
94073	MIC94073YC6 TR	466
941	MAX941CPA+	429
9411	DG9411DL-T1-E3	342
9415	DG9415DQ-T1-E3	339
942	MAX942ESA+	430
942	TS942ID	313
942	TS942IN	329
942	MAX942EUA+	430
942	MAX942CPA+	430
942	MAX942CSA+	430
9430	AD9430BSVZ-170	285
9431	DG9431DY-T1-E3	342
9432	AD9432BSTZ-80	285
9432	AD9432BSTZ-105	285
944	MAX944CSD+	431
9460	AD9460BSVZ-80	288
9460	AD9460BSVZ-105	288
9461	DG9461DY-T1-E3	342
9461	AD9461BSVZ	288
9480	AD9480ASUZ-250	281
9480	AD9480BSUZ-250	281
9480	AD9480BSUZ-250	573
9481	AD9481BSUZ-250	281
949	CDCE949PWG4	354
95	MB95F108JSPFM-GE1	150
95	MB95F114JSPMC-GE1	150
95	MB95F116JSPMC-GE1	150
95	MB95F118JSPMC-GE1	150
95	MB95F136JSPFV-GE1	150
95	TSH95ID	318
950	PCI950PT	410
950	OX16C950-TQBG	416
950	OXCF950-TQBG	416
95010	M95010-WMN6P	115
9502	MAX9502MELT+T	530
95020	M95020-WMN6P	116
9503	DS9503P+	356
95040	M95040-WMN6P	116
95071	LM95071CIMF	525
95080	M95080-WMN6P	116
951	MAX951ESA+	429
951	MAX951EPA+	338

Index by Type for Semiconductor ICs

	Mftrs. List No.	Page
951	TS951IN	307
951	TS951ILT	307
951	LMV951MK	307
9510	AD9510BCPZ	573
9511	X9511WSZT1	434
9511	AD9511BCPZ	573
9512	AD9512BCPZ	573
95160	M95160-WMN6P	116
9517	AD9517-1BCPZ	437
952	TS952IN	313
952	TS952ID	313
952	TS952IDT	313
952	TS952IPT	313
95214	LM95214CISD	525
95214	LM95213CISD	525
95221	LM95221CIMM	525
95231	LM95231CIMM-1	525
95231	LM95231CIMM-2	525
95231	LM95231CIMM	525
95233	LM95233CISD	525
95234	LM95234CISD	525
95235	LM95235CIMM.	525
95235	LM95235CIMM	525
95235	LM95235DIMM	525
95245	LM95245CIMM	525
95256	M95256-WMN6P	117
953	CAT9532WI.	442
95320	M95320-WMN6P	116
9535	PCA9535PW,112	411
9536	PCA9536DGKR	356
9536	XC9536XL-10VQG64C	96
9536	XC9536XL-10PCG44C	96
9536	PCA9536D	356
9536	XC9536-15VQG44C	575
9536	XC9536XL-10VQG64C	575
9536	XC9536-15VQG44C	96
9536	XC9536-15PCG44C	96
954	OXUSB954-LQAG	416
954	TS954ID	319
954	TS954IN	319
954	OX16C954-PLBG	416
954	OX16C954-TQBG	416
9546	MAX9546ESA+	536
9546	PCA9546APWT	344
9547	MAX9547ESA+	536
9554	PCA9554PW	356
9554	PCA9554PW,112	411
9554	PCA9554DB	356
9555	PCA9555D,112	411
9555	PCA9555PW,112	411
956128	M95128-WMN6P	116
956128	M95128-WMN6P	571
9564	PCA9564D,112	411
95640	M95640-WMN6P	116
9572	XC9572XL-10TQG100C	97
9572	XC9572XL-10PCG44C	97
9572	XC9572-15PCG84C	96
9572	XC9572-15PCG44C	96
9600	MAX9600EUP+	431
96000	LM96000CIMT/NOPB	525
9601	MAX9601EUP+	431
9603	USBN9603-28M	411
9604	USBN9604-28M/NOPB	411
9604	USBN9604-28M	411
961	MAX961ESA+	429
96173	DS96173CN/NOPB	445
96174	DS96174CN	446
96175	DS96175CN	447
96176	DS96176CN/NOPB	452
962	MAX962ESA+	430
962	MAX962EUA+	430
963	MAX963ESD+	431
9631	AD9631ANZ	311
9636	UA9636ACPE4	445
9637	UA9637ACD	446
9637	UA9637ACPE4	446
9637	UA9637ACP	445
9638	UA9638CPE4	445
9638	UA9638CDE4	445
964	MAX964ESE+	431
9652	MAX9652ASA+	536
9653	MAX9653AUB+	536
9654	MAX9654AUB+	536
9655	MAX9655AEE+	345
96687	AD96687BPZ	430
9675	MAX9675ECQ+	345
97	OP97FPZ	572
97	OP97FSZ	304
97	OP97EPZ	304
97	OP97FPZ	304
9700	MCP9700T-E/LT	526
9700	MCP9701T-E/LT	526
9700	MCP9700T-E/TT	525
9700	MCP9700AT-E/TT	524
9700	MCP9700-E/TO	524
9700	MCP9700AT-E/LT	524
9700	MCP9700A-E/TO	525
9701	MCP9701-E/TO	525
9701	MCP9701A-E/TO	525
9701	RTC-9701JE	253
9701	MCP9701AT-E/LT	525
9703	MAX9703ETJ+	536
9704	AD9704BCPZ	281
9705	AD9705BCPZ	282
9706	AD9706BCPZ	285
9707	AD9707BCPZ	297
9708	AD9708ARZ	281
971	TS971ILT	307
971	TS971ID	307
9713	WM9713LGEFL/V	301
972	TS972ID	313
972	TS972IPT	313
9726	AD9726BSVZ	298
9736	AD9736BBCZ	297
974	TS974ID	319
974	TS974IN	319
9741	AD9741BCPZ	292
9743	AD9743BCPZ	293
9744	MAX9744ETH+	536
9745	AD9745BCPZ	296
9746	AD9746BCPZ	297
9747	AD9747BCPZ	298
975	MAX975ESA+	429
9752	AD9752ARZ	296
9754	AD9754ARZ	297
97593	LM97593VH	286
976	AD976ANZ	287
976	MAX976ESA+	431
976	AD976ARZ	287
976	AD976ABNZ	287
976	AD976ABRSZ	287
976	AD976BNZ	287
976	AD976AANZ	287
9761	AD9761ARSZ	293
9764	AD9764ARZ	297
9765	AD9765ASTZ	285
977	MAX977ESD+	430
977	AD977AANZ	287
977	AD977ANZ	287
977	AD977CNZ	287
977	AD977ABRSZ	287
977	AD977AARSZ	287
9776	AD9776BSVZ	297
9778	AD9778BSVZ	297
9779	AD9779BSVZ	297
9786	AD9786BSVZ	298
9788	MAX9788ETI+	488
9800	MCP9800DM-DL	527
9800	MCP9800DM-PCTL	526
9800	MCP9800A0T-M/OT	525
9801	MCP9801-M/SN	525
9801	MCP9801-M/MS	525
9801	XC9801B503KR	488
9802	MCP9802A0T-M/OT	525
9803	MCP9803-M/SNG	525
9803	MCP9803-M/SN	525
9803	MCP9803-M/MSG	525
9805	MCP9805-BE/ST	525
981	LMV981MF	307
981	LMV981MG/NOPB	307
9820	LMX9820ASM	356
9824	AD9824KCPZ	521
9830	AD9830ASTZ	573
9830	AD9830ASTZ	356
9831	AD9831ASTZ	356
9832	AD9832BRUZ	356
9833	AD9833BRMZ	437
9834	AD9834BRUZ	356
9835	AD9835BRUZ	356
985	MAX985ESA+	431
9850	MAX9850ETI+	300
9854	AD9854ASTZ	356
9856	AD9856ASTZ	356
9857	AD9857ASTZ	356
9858	AD9858BSVZ	356
9859	AD9859YSVZ	356
9861	AD9861BCPZ-50	356
9865	AD9865BCPZ	356
9869	AD9869BCPZ	356
987	MAX987ESA+	431
9877	MAX9877EWP+TG45	536
9881	DAC9881SBRGET	298
9881	DAC9881SRGET	298
9882	AD9882AKSTZ-100	536
9883	AD9883AKSTZ-110	536
9884	AD9884AKSZ-140	536
9887	AD9887AKSZ-170	536
9888	AD9888KSZ-170	536
9888	AD9888KSZ-140	536
989	MAX989ESA+	431
99	AD2S99APZ	437
99	LM99-1CIMM	523
99	LM99CIMM	523
991	TSV991ILT	307
991	TSV991AILT	307
9911	AD9911BCPZ	356
9912	AD9912BCPZ	356
9913	AD9913BCPZ	356
9914	MAX9914EXK+T	311
9915	MAX9915EXT+T	311
9916	MAX9916EKA+T	318
9917	MAX9917EUB+	318
992	TSV992AID	313
992	MAX992EUA+	430
992	TSV992ID	313
992	TSV992AIDT	313
992	TSV992IDT	313
9921	MAX9921AUB+	439
9927	AD9927BBCZ	521
9928	MAX9928FAUA+	333
9929	MAX9929FAUA+	333
994	TSV994IPT	319
994	TSV994AIPT	319
9948	AD9948KCPZ	521
9949	AD9949KCPZ	521
9951	AD9951YSVZ	573
9951	AD9951YSVZ	356
9952	AD9952YSVZ	573
9952	AD9952YSVZ	356
9954	AD9954YSVZ.	356
9954	AD9954YSVZ	573
9956	AD9956YCPZ	573
9956	AD9956YCPZ	356
9957	AD9957BSVZ	356
9958	AD9958BCPZ	293
9959	AD9959BCPZ	573
9959	AD9959BCPZ	293
997	MAX997ESA+	431
9970	AD9970BCPZ	521
9974	AD9974BBCZ	521
9978	AD9978BCPZ	521
9979	AD9979BCPZ	521
998	MAX998ESA+	431
999	MAX999EUK+	429
9992	AD9992BBCZ	521



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Supplier Abbreviations

210491

CODE	SUPPLIER	CODE	SUPPLIER	CODE	SUPPLIER
ALT	ALTERA	INF	INFINEON	REN	RENESAS
AMIC	AMIC TECHNOLOGY	INTS	INTERSIL	SAR	SARONIX
ATM	ATMEL	IQD	IQD FREQUENCY PRODUCTS	SFT	SOFTECH MICROSYSTEMS
AV	AVAGO	IR	INTERNATIONAL RECTIFIER	SIM	SIMTEK
AVX	AVX	ISD	INFORMATION STORAGE DEVICES (WINBOND)	SLAB	SILICON LABORATORIES
BB	BURR-BROWN - TEXAS INSTRUMENTS	ISSI	INTEGRATED SILICON SOLUTIONS INC.	SLX	VISHAY SILICONIX
B'MARQ	BENCHMARQ MICROELECTRONICS INC. - TEXAS INSTRUMENTS	KNOWL	KNOWLES ACOUSTICS	SMT	SMARTEC
BSI	BRILLIANCE SEMICONDUCTOR INC.	LAN	LANTRONIX INC	SPN	SPANSION
CAT	CATALYST SEMICONDUCTOR	LAT	LATTICE SEMICONDUCTOR CORP.	ST	ST MICROELECTRONICS
CD	C & D TECHNOLOGIES	LC	LASER COMPONENTS	STECH	STARTECH
CIR	CIRRUS LOGIC	LSI	LSI COMPUTER SYSTEMS INC.	TEC	TECHTOOLS
CYP	CYPRESS SEMICONDUCTOR	LT	LINEAR TECHNOLOGY	TI	TEXAS INSTRUMENTS
DEC	DECADE ENGINEERING	LUM	LUMINARY MICRO	TLG	TELEGESIS
ELAN	ELANTEC - INTERSIL	MAX	MAXIM - DALLAS	TOR	TOREX SEMICONDUCTOR
ENP	ENPIRION	MCHIP	MICROCHIP TECHNOLOGY	TOSH	TOSHIBA
EPS	EPSON TOYOCOM	MCRN	MICRON	TRN	TRINAMIC
EXAR	EXAR CORPORATION	MESH	MESHNETICS	TSC	TAIWAN SEMICONDUCTOR
FCH	FAIRCHILD SEMICONDUCTOR	MICR	MICREL	UNI	UNITRODE - TEXAS INSTRUMENTS
FSK	FUJISOKI	MP	MICRO POWER	VSH	VISHAY
FSL	FREESCALE SEMICONDUCTOR	NOR	NORDIC SEMICONDUCTOR	XCR	XICOR - INTERSIL
FTDI	FTDI CHIP	NSC	NATIONAL SEMICONDUCTOR	XEL	XELTEC
GI	GREENWHICH INSTRUMENTS	NVE	NVE CORPORATION	XLX	XILINX
HNX	HYNIX SEMICONDUCTOR	NXP	NXP SEMICONDUCTORS/PHILIPS	YAG	YAGEO
HON	HONEYWELL	ON	ON SEMICONDUCTOR	ZAR	ZARLINK
HT	HOLTEK	PINT	POWER INTEGRATIONS INC.	ZET	ZETEX
ICT	INFORMATION CHIPS AND TECHNOLOGY INC.	PLX	PARALLAX	ZILOG	ZILOG
IDT	INTEGRATED DEVICE TECHNOLOGY	QUAN	QUANTUM RESEARCH	ZMD	ZENTRUM MICROELECTRONICS
ILP	ILP ELECTRONICS	RAM	RAMTRON		

74AUP Advanced Ultra-low Power CMOS Logic

74AUP Advanced Ultra-low Power CMOS Logic

The AUP logic family provides a solution to low-power logic needs within the industry. The family ensures a very low-static and dynamic power consumption across the entire voltage range making it ideal for applications that are battery-powered.

525990

Mftrs. List No.	Mftr.	Pins	Pkg	Function	Order Code	Price Each 1+	10+	100+
						MIXED QUANTITY PRICING		
SN74AUP1G04DCKT	TI	5	SC-70	Low-Power Single Inverter Gate	SMD 149-4924 ● RL	0.570	0.450	0.310
SN74AUP1G32DBVT	TI	5	SOT-23	Low-Power Single 2-Input Positive-OR Gate	SMD 123-6207 ● RL	0.360	0.290	0.250
SN74AUP1G32DCKT	TI	5	SC-70	Low-Power Single 2-Input Positive-OR Gate	NEW SMD 160-1161 ● RL	0.420	0.300	0.240
SN74AUP1G80DCKT	TI	5	SC-70	Low Power Single Postitive-Edge-Triggered D-Type Flip-Flop	NEW SMD 160-1162 ● RL	0.330	0.250	0.220
SN74AUP1G97DBVR	TI	6	SOT-23	Low Power Configurable Multiple Funtion Gate	NEW SMD 167-2218 ● RL	0.178	0.145	0.111
SN74AUP1G97DCKT	TI	6	SC70	Low Power Configurable Multiple Funtion Gate	NEW SMD 167-2219 ● RL	0.420	0.380	0.340
SN74AUP1T97DBVT	TI	6	SOT-23	Single-Supply Voltage Translator	SMD 105-3539 ● RL	0.460	0.300	0.260
SN74AUP1T98DBVT	TI	6	SOT-23	Single-Supply Voltage Translator	SMD 105-3533 ●	0.410	0.270	0.230
SN74AUP1T98DCKT	TI	6	SC-70	Single-Supply Voltage Translator	SMD 105-3526 ● RL	0.510	0.330	0.280

MIXED QUANTITY PRICING Purchase mixed products within the same family and benefit from a lower price on the total quantity ordered

74AUC Advanced Ultra-low Voltage CMOS Logic

74AUC Advanced Ultra-low Voltage CMOS Logic

New

The AUC logic family is a sub 1V family that also offers I_{off} for device protection. The AUC family operates at a low power and a high speed while maintaining overall system signal integrity.

527117

Mftrs. List No.	Mftr.	Pins	Pkg	Function	Order Code	Price Each 1+	10+	100+
						MIXED QUANTITY PRICING		
SN74AUCU04RGYR	TI	14	QFN	Hex Inverter	SMD 160-6294 ● RL	0.760	0.520	0.360
SN74AUC2G04DBVR	TI	5	SOT-23	Dual Inverter Gate	SMD 160-6289 ● RL	0.470	0.300	0.210
SN74AUC2G04DCKR	TI	6	SC-70	Dual Inverter Gate	SMD 160-6290 ● RL	0.470	0.300	0.210
SN74AUC1G06DCKR	TI	5	SC-70	Single Inverter Buffer/Driver with Open Drain Output	SMD 160-6285 ● RL	0.450	0.310	0.200
SN74AUC2G06DCKR	TI	6	SC-70	Dual Inverter Buffer/Driver with Open-Drain Output	SMD 160-6291 ● RL	0.470	0.300	0.210
SN74AUC08RGYR	TI	14	QFN	Quad 2-Input Positive AND Gate	SMD 160-6284 ● RL	0.760	0.520	0.360
SN74AUC1G08DBVR	TI	5	SOT-23	Single 2-Input Positive AND Gate	SMD 160-6286 ● RL	0.450	0.310	0.200
SN74AUC1G14DBVR	TI	5	SOT-23	Single Schmitt Trigger Inverter	SMD 160-6287 ● RL	0.450	0.310	0.200
SN74AUC17RGYR	TI	14	QFN	Hex Schmitt-Trigger Buffer	SMD 160-6267 ● RL	0.760	0.520	0.360
SN74AUC1G17DBVR	TI	5	SOT-23	Single Schmitt Trigger Buffer	SMD 160-6272 ● RL	0.450	0.310	0.200
SN74AUC1G17DCKR	TI	5	SC-70	Single Schmitt Trigger Buffer	SMD 160-6273 ● RL	0.450	0.310	0.200
SN74AUC32RGYR	TI	14	QFN	Quad 2-Input Positive OR Gate	SMD 160-6292 ● RL	0.760	0.520	0.360
SN74AUC2G34DBVR	TI	6	SOT-23	Dual Buffer Gate	SMD 160-6275 ● RL	0.470	0.300	0.210
SN74AUC2G53DCTR	TI	8	SM8	Analog Switch or 2:1 Analog Multiplexer/Demultiplexer	SMD 160-6277 ● RL	0.570	0.370	0.270
SN74AUC2G66DCTR	TI	8	SM8	Dual Bilateral Analog Switch	SMD 160-6295 ● RL	0.570	0.370	0.270
SN74AUC74RGYR	TI	14	QFN	Dual Positive-Edge-Triggered D-Type Flip-Flop with Preset and Clear	SMD 160-6283 ● RL	0.760	0.520	0.360
SN74AUC1G74DCTR	TI	8	SM8	Single Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	SMD 160-6278 ● RL	0.490	0.330	0.240
SN74AUC1G74DCUR	TI	8	US8	Single Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	SMD 160-6279 ● RL	0.260	0.210	0.171
SN74AUC1G80DBVR	TI	5	SOT-23	Single Positive-Edge-Triggered D-Type Flip-Flop	SMD 160-6280 ● RL	0.390	0.280	0.200
SN74AUC1G80DCKR	TI	5	SC-70	Single Positive-Edge-Triggered D-Type Flip-Flop	SMD 160-6282 ● RL	0.390	0.280	0.200
SN74AUC1G86DBVR	TI	5	SOT-23	Single 2-Input XOR Gate	SMD 160-6288 ● RL	0.450	0.310	0.200
SN74AUC125RGYR	TI	14	QFN	Quad Bus Buffer Gate with 3-State Output	SMD 160-6266 ● RL	0.850	0.630	0.490
SN74AUC1G125DBVR	TI	5	SOT-23	Single Bus Buffer Gate with 3-State Output	SMD 160-6269 ● RL	0.450	0.310	0.200
SN74AUC1G126DBVR	TI	5	SOT-23	Single Bus Buffer Gate with 3-State Output	SMD 160-6271 ● RL	0.450	0.310	0.200
SN74AUC1G240DCKR	TI	5	SC-70	Single Buffer/Driver with Open-Drain Output	SMD 160-6274 ● RL	0.450	0.310	0.200
SN74AUCH16244DGGR	TI	48	TSSOP	16bit Buffer/Driver with 3-State Output	SMD 160-6276 ● RL	1.840	1.300	0.930

MIXED QUANTITY PRICING Purchase mixed products within the same family and benefit from a lower price on the total quantity ordered

RL Re-reeling available

74AVC Advanced Very-low Voltage CMOS Logic

74AVC Advanced Very-low Voltage CMOS Logic

New

TEXAS INSTRUMENTS

The AVC logic family has propagation delays of less than 2 ns at 2.5V. This enables the fastest performance while also providing the lowest noise and mixed-voltage mode system support.

527224

Mftrs. List No.	Mftr.	Pins	Pkg	Function	Order Code	Price Each 1+	10+	100+
						MIXED QUANTITY PRICING		
SN74AVCH1T45DCKT	TI	6	SC-70	Single bit Dual-Supply Bus Transceiver With Configurable Voltage Translation (3-State)	SMD 160-1163● RL	0.48	0.31	0.27
SN74AVC4T774PW	TI	16	TSSOP	4-bit Dual-Supply Bus Transceiver	SMD 163-0205●	0.79	0.77	0.57
SN74AVCB164245VR	TI	48	TVSOP	16bit Dual-Supply BUS Transceiver	SMD 147-0932● RL	2.81	1.91	1.42

MIXED QUANTITY PRICING Purchase mixed products within the same family and benefit from a lower price on the total quantity ordered

UHS Tiny Logic

UHS Tiny Logic

FAIRCHILD SEMICONDUCTOR

These CMOS Ultra High Speed devices provide single gate functions in a small SOT23-5 package. The bus switches feature low on-resistance and minimal propagation delay.

413255

Mftrs. List No.	Mftr.	Pins	Pkg	Function	Order Code	Price Each 1+	10+	100+
						MIXED QUANTITY PRICING		
NC7SZ00M5	FCH	5	SOT-23	2 Input NAND Gate	SMD 141-7656●	0.350	0.260	0.210
NC7SZ00P5	FCH	5	SC-70	2 Input NAND Gate	SMD 141-7659●	0.350	0.260	0.210
NC7SZ02M5	FCH	5	SOT-23	Quad 2 Input Positive NOR Gate	SMD 101-3808●	2.170	1.210	0.900
NC7SZ04M5X	FCH	5	SOT-23	Inverter	SMD 141-7667● RL	0.124	0.095	0.077
NC7WZ04P6X	FCH	6	SC-70	Dual Inverter	SMD 141-7665● RL	0.340	0.220	0.143
NC7NZ04K8X	FCH	8	US8	Triple Inverter	SMD 141-7663● RL	0.310	0.230	0.187
NC7SZ04M5	FCH	5	SOT-23	Hex Inverter	SMD 101-3809● RL	2.170	1.210	0.900
NC7WZ07P6	FCH	6	SC-70	Dual Buffer (Open Drain Outputs)	SMD 141-7661●	0.350	0.260	0.210
NC7WZ07P6X	FCH	6	SC-70	Ultra High Speed Dual Buffer Open Drain O/P	NEW SMD 147-0998● RL	0.170	– –	– –
NC7WZ08K8X	FCH	8	US8	Dual AND Gate	NEW SMD 161-3998● RL	0.380	0.280	0.179
NC7S08P5X	FCH	5	SC-70	2 Input + Gate	SMD 141-7655● RL	0.124	0.095	0.077
NC7ST08M5X	FCH	5	SOT-23	HST 2-Input AND Gate	SMD 141-7653● RL	0.124	0.095	0.077
NC7SZ08M5	FCH	5	SOT-23	Quad 2 Input Positive AND Gate	SMD 101-3807● RL	1.630	0.910	0.680
NC7SZ14M5X	FCH	5	SOT-23	Inverter with Schmitt Trigger Input	SMD 141-7664● RL	0.171	0.124	0.106
NC7WZ14P6X	FCH	6	SC-70	Dual Inverter with Schmitt Trigger Inputs	SMD 141-7668● RL	0.340	0.220	0.143
NC7WZ16P6X	FCH	6	SC70	Dual Buffer	NEW SMD 165-1987●	0.121	0.110	0.098
NC7NZ17K8X	FCH	8	US8	Triple Buffer with Schmitt Trigger Inputs	SMD 141-7660● RL	0.430	0.300	0.196
NC7WZ17P6	FCH	6	SC-70	Ultra High Speed Dual Buffer with Schmitt Trigger Inputs	NEW SMD 146-7307●	0.370	– –	– –
NC7SZ32M5	FCH	5	SOT-23	Quad 2 Input Positive OR Gate	SMD 101-3810● RL	0.950	0.530	0.400
NC7NZ34K8X	FCH	8	US8	Triple Buffer	SMD 141-7649● RL	0.310	0.230	0.187
NC7SZ57P6X.	FCH	6	SC70	UHS Universal Configurable 2-Input Logic Gate	NEW SMD 165-2014●	0.088	0.077	0.066
NC7SZ58P6X	FCH	6	SC-70	Universal Configurable 2-Input Logic Gates	SMD 141-7657● RL	0.134	0.099	0.077
NC7SZ66M5	FCH	5	SOT-23	Low Power Bilateral Switch	SMD 101-3761●	1.830	1.310	0.950
NC7SZ66P5	FCH	5	SC-70	TinyLogic Low Voltage UHS Single SPST NormAlly Open Bus Switch	SMD 110-2167●	0.500	0.330	0.290
NC7SZ74K8X	FCH	8	US8	D-Type Flip-Flop with Preset and Clear	SMD 141-7652● RL	0.430	0.300	0.196
NC7SZ86M5	FCH	5	SOT-23	2 Input Exclusive-OR Gate	SMD 141-7658●	0.350	0.260	0.210
NC7SZ86P5X	FCH	5	5-SC70	Logic Gate, Inverter	NEW SMD 165-2016●	0.098	0.090	0.082
NC7SZ125P5	FCH	5	SC-70	Buffer with 3-STATE Output	SMD 141-7645●	0.350	0.260	0.210
NC7WZ125K8X	FCH	8	US8	Buffer with 3-STATE Output	SMD 141-7646● RL	0.350	0.260	0.210
NC7SZ125M5	FCH	5	SOT-23	Tri-State Quad Buffer	SMD 101-3811● RL	2.240	1.170	0.920
NC7SZ125P5X	FCH	5	SC-70	Buffer with 3-STATE Output	SMD 141-7648● RL	0.200	0.148	0.098
NC7SZ126M5	FCH	5	SOT-23	Buffer with 3-STATE Output	SMD 141-7643●	0.350	0.260	0.210
NC7WZ126K8X	FCH	8	US8	Buffer with 3-STATE Output	SMD 141-7647● RL	0.350	0.260	0.210
NC7SZ157P6X	FCH	6	SC-70	Ultra High Speed 2 I/P Non-Inverting Multiplexer	NEW SMD 146-7314● RL	0.188	– –	– –
NC7SZD384M5	FCH	5	SOT-23	High-Speed, Low-Power CMOS Bus Switch	SMD 101-3765●	0.970	0.710	0.540

HS Tiny Logic

HS Tiny Logic

FAIRCHILD SEMICONDUCTOR

HS series features CMOS input compatibility with 74HC series.

413257

Mftrs. List No.	Mftr.	Pins	Pkg	Function	Order Code	Price Each 1+	10+	100+
						MIXED QUANTITY PRICING		
NC7S00M5	FCH	5	SOT-23	Quad 2 Input NAND Gate	SMD 101-4131● RL	0.700	0.490	0.380
NC7S08P5X	FCH	5	SC-70	2 Input + Gate	SMD 141-7655● RL	0.124	0.095	0.077
NC7ST08M5X	FCH	5	SOT-23	HST 2-Input AND Gate	SMD 141-7653● RL	0.124	0.095	0.077
NC7S08M5	FCH	5	SOT-23	Quad 2 Input Positive AND Gate	SMD 101-4135● RL	0.700	0.490	0.380
NC7S02M5	FCH	5	SOT-23	Quad 2 Input Positive NOR Gate	SMD 101-4132● RL	1.520	1.060	0.820
NC7S04M5	FCH	5	SOT-23	Hex Inverter	SMD 101-4133● RL	0.940	0.650	0.500
NC7S14M5	FCH	5	SOT-23	Hex Schmitt Trigger	SMD 101-4136● RL	0.700	0.490	0.380
NC7S32M5	FCH	5	SOT-23	Quad 2 Input Positive OR Gate	SMD 101-4137● RL	1.520	1.060	0.820
NC7S86M5	FCH	5	SOT-23	Quad 2-Input Exclusive OR Gate	SMD 101-4138●	0.700	0.490	0.380

74VHC MiniGate CMOS Logic

74VHC MiniGate CMOS Logic

New

ON Semiconductor

527696

Mftrs. List No.	Mftr.	Pins	Pkg	Function	Order Code	Price Each 1+	10+	100+
						MIXED QUANTITY PRICING		
MC74VHC1G00DFT1G	ON	8	MSOP	Single 2-Input NAND Gate	SMD 160-7775●	0.068	0.049	0.036
M74VHC1GT08DFT1G	ON	5	SC-70	2 Input + Gate	SMD 165-4343●	0.065	0.044	0.035
MC74VHC1G08DTT1G	ON	5	TSOP	Single 2-Input AND Gate	SMD 160-7776●	0.088	0.060	0.049
M74VHC1GT08DTT1G	ON	5	SOT-23	2 Input AND Gate	SMD 165-4344●	0.077	0.054	0.041
M74VHC1GT14DFT1G	ON	5	SC-70	Schmitt-Trigger Inverter, Single Gate	SMD 165-4345●	0.065	0.044	0.035
MC74VHC1G32DTT1G	ON	5	SOT-23	Single 2-Input OR Gate	SMD 160-7778●	0.088	0.060	0.049

RL Re-reeling available

Farnell

74VHC MiniGate CMOS Logic - continued

74VHC MiniGate CMOS Logic - continued

Mftrs. List No.	Mftr.	Pins	Pkg	Function	Order Code	Price Each 1+	10+	100+
						MIXED QUANTITY PRICING		
M74VHC1GT50DTT1G	ON	5	SOT-23	Noninverting Buffer, Single Gate	SMD 165-4338●	0.077	0.054	0.041
M74VHC1GT86DFT1G	ON	5	SC-70	2 Input Exclusive-OR Gate	SMD 165-4346●	0.065	0.044	0.035
MC74VHC1G86DTT1G	ON	5	TSOP	Single 2 Input Exclusive OR Gate	SMD 165-2256●	0.094	0.085	0.076
M74VHC1G125DTT1G	ON	5	SOT-23	Noninverting 3-State Buffer	SMD 165-4340●	0.077	0.053	0.040
M74VHC1GT126DF1G	ON	5	SC-70	Noninverting 3-State Buffer	SMD 165-4341●	0.065	0.044	0.035
M74VHC1GT126DT1G	ON	5	TSOP	Single Non Inverting Buffer	SMD 146-8708●	0.091	0.083	0.077
M74VHC1G135DTT1G	ON	5	SOT-23	NAND Schmitt-Trigger, Single Gate	SMD 165-4347●	0.077	0.054	0.041

74VHC Very High Speed CMOS Logic

74VHC Very High Speed CMOS Logic

An enhanced version of the industry's popular high speed HC family, offering low noise and low power. Operates at three times the speed and with twice the drive of HC technology. The devices have true CMOS inputs.

413258

Mftrs List No.	Mftr.	Pins	Pkg	Function	Order Code	Price Each 1+	10+	100+
						MIXED QUANTITY PRICING		
74VHC00M	FCH	14	SOIC	Quad 2 Input NAND Gate	SMD 101-4102●	0.178	0.094	0.069
74VHC02M..	FCH	14	SOIC	Quad 2 Input Positive NOR Gate	SMD 676-056▲	0.210	0.140	0.106
74VHC02M	FCH	14	SOIC	Quad 2 Input Positive NOR Gate	SMD 101-4103●	0.200	0.134	0.099
74VHC04M	FCH	14	SOIC	Hex Inverter	SMD 101-4104●	0.350	0.230	0.157
74VHC04N	FCH	14	DIP	Hex Inverter	101-4126●	0.480	0.300	0.260
74VHC08M..	FCH	14	SOIC	Quad 2 Input Positive AND Gate	SMD 676-070▲	0.220	0.117	0.084
74VHC08M	FCH	14	SOIC	Quad 2 Input Positive AND Gate	SMD 101-4105●	0.350	0.230	0.157
74VHC08TTR	ST	14	TSSOP	Log AND Gate Quad 2-Input	SMD 128-8468●	0.390	0.270	0.197
74VHC14M	FCH	14	SOIC	Hex Schmitt Trigger	SMD 101-4106● RL	0.350	0.240	0.160
74VHC14N	FCH	14	DIP	Hex Schmitt Trigger	101-4127●	0.230	0.145	0.132
74VHC32M	FCH	14	SOIC	Quad 2 Input Positive OR Gate	SMD 101-4107●	0.350	0.230	0.157
74VHC74M	FCH	14	SOIC	Dual D Type Edge Triggered Flip/Flop	SMD 101-4108●	0.230	0.178	0.114
74VHC74N	FCH	14	DIP	Dual D Type Edge Triggered Flip/Flop	101-4128●	0.183	0.125	0.104
74VHC86M	FCH	14	SOIC	Quad 2-Input Exclusive OR Gate	SMD 101-4111●	0.195	0.145	0.095
74VHC123AM..	FCH	16	SOIC	Dual One Shot Multivibrator	SMD 676-123▲	0.035	– –	– –
74VHC123AM	FCH	16	SOIC	Dual One Shot Multivibrator	SMD 101-4112●	0.370	0.250	0.165
74VHC125M.	FCH	14	SOIC	Tri-State Quad Buffer	SMD 676-135▲	0.300	0.146	0.118
74VHC125M	FCH	14	SOIC	Tri-State Quad Buffer	SMD 101-4113● RL	0.400	0.200	0.164
74VHC132M	FCH	14	SOIC	Quad Schmitt Trigger	SMD 101-4114●	0.420	0.210	0.170
74VHC138M.	FCH	16	SOIC	Expandable 3/8 Decoder	SMD 676-159▲	0.350	0.169	0.133
74VHC138M	FCH	16	SOIC	Expandable 3/8 Decoder	SMD 101-4115●	0.410	0.270	0.196
74VHC157M	FCH	16	SOIC	Quad 2 Input Multiplexer	SMD 676-160▲	0.850	0.440	0.340
74VHC244M	FCH	20	SOIC	Octal Tri-State Buffer	SMD 101-4116●	0.230	0.154	0.110
74VHC244N	FCH	20	DIP	Octal Tri-State Buffer	101-4129●	0.290	0.172	0.125
74VHC245M	FCH	20	SOIC	Octal Tri-State Transceiver	SMD 101-4117●	0.210	0.105	0.084
74VHC245N	FCH	20	DIP	Octal Tri-State Transceiver	683-528▲	0.380	0.210	0.167
74VHC245TTR	ST	20	TSSOP	Log Bus TRANSCEIVER OCTAL	SMD 128-8467● RL	0.520	0.370	0.260
74VHC374N	FCH	20	DIP	Tri-State Octal D Flip/Flop	684-132▲	0.430	0.240	0.175
74VHC541M..	FCH	20	SOIC	Octal Buffer and Line DR/RX Non-Inverting	SMD 676-214▲	0.420	0.230	0.186
74VHC541M	FCH	20	SOIC	Octal Buffer and Line DR/RX Non-Inverting	SMD 101-4118●	0.420	0.290	0.191
74VHC573M	FCH	20	SOIC	Octal D Type Latches	SMD 101-4119● RL	0.290	0.159	0.118
74VHC574M	FCH	20	SOIC	Octal D Type Flip/Flop	SMD 101-4120●	0.760	0.420	0.310
74VHC574N	FCH	20	DIP	Octal D Type Flip/Flop	684-168▲	0.440	0.240	0.183
74VHC4046M	FCH	16	SOIC	Phase Locked Loop	SMD 101-4121●	1.160	0.650	0.480
74VHC4052M.	FCH	16	SOIC	Differential 4 Channel Multiplexer	SMD 676-263▲	0.056	– –	– –
74VHC4052M	FCH	16	SOIC	Differential 4 Channel Multiplexer	SMD 101-4123●	0.460	0.280	0.220
74VHC4053M	FCH	16	SOIC	Triple 2 Channel Multiplexer	SMD 101-4124●	0.420	0.230	0.176
74VHC4066M	FCH	14	SOIC	Quad Bi-Lateral Switch	SMD 101-4125●	0.360	0.195	0.143

74AHC Picogate CMOS Logic

74AHC Picogate CMOS Logic

A range of devices containing a single logic gate with an operating range of 2.0 to 5.5V Vcc.

413287

Mftrs. List No.	Mftr.	Pins	Pkg	Function	Order Code	Price Each 1+	10+	100+	250+	500+
						MIXED QUANTITY PRICING				
74AHC1G00GW/T1	NXP	5	SOT-353	Quad 2 Input NAND Gate	SMD 120-1257●	0.112	0.076	0.068	0.055	0.051
SN74AHC1G00DBVR	TI	5	SOT-23	Quad 2 Input NAND Gate	SMD 110-5915● RL	0.350	0.240	0.160	– –	– –
SN74AHC1G00DBVR	TI	5	SOT-23	Quad 2 Input NAND Gate	SMD 110-5915● RL	0.350	0.240	0.160	– –	– –
SN74AHC1G00DCKR	TI	5	SC-70	Single 2-Input Positive-NAND Gate	SMD 128-7496● RL	0.181	0.155	0.116	0.096	0.085
SN74AHC1G02DBVR	TI	5	SOT-23	Single 2-Input Positive-NOR Gate	SMD 128-7441● RL	0.200	0.147	0.109	0.093	0.081
SN74AHC1G02DCKR	TI	5	SC-70	Single 2-Input Positive-NOR Gate	SMD 128-7442● RL	0.158	0.116	0.086	0.072	0.064
74AHC1G02GW/T1	NXP	5	SOT-353	Quad 2 Input Positive NOR Gate	SMD 121-1734● RL	0.440	0.360	0.280	0.210	0.198
SN74AHC1G04DCKR	TI	5	SC-70	Single INVERTER Gate	SMD 128-7443● RL	0.200	0.147	0.109	0.093	0.081
SN74AHC1GU04DBVR	TI	5	SOT-23	Log INVERTER Gate, Single	SMD 128-7411● RL	0.240	0.194	0.147	0.105	0.081
74AHC1G04GW/T1	NXP	5	SOT-353	Hex Inverter	SMD 108-5239● RL	0.370	0.300	0.250	0.200	0.196
74AHC1GU04GW/T1	NXP	5	SOT-353	Hex Inverter	SMD 120-1258●	0.320	0.280	0.260	0.240	0.200
SN74AHC1G04DBVR	TI	5	SOT-23	Hex Inverter	SMD 110-5916● RL	0.350	0.240	0.160	– –	– –
SN74AHCT1G08DCKR	TI	5	SC-70	Log AND Gate, Single 2-Input	SMD 128-7408● RL	0.134	0.107	0.080	0.057	0.045
SN74AHC1G08DCKRG4	TI	5	SC-70	Single 2-Input Positive-AND Gate	SMD 128-7466●	0.158	0.116	0.086	0.072	0.064
74AHC1G08GW/T1	NXP	5	SOT-353	Quad 2 Input Positive AND Gate	SMD 108-5240● RL	0.330	0.270	0.220	0.194	0.181
SN74AHC1G08DBVR	TI	5	SOT-23	Quad 2 Input Positive AND Gate	SMD 110-5918● RL	0.350	0.240	0.160	– –	– –
74AHC1G14GW/T1	NXP	5	SOT-353	Hex Schmitt Trigger	SMD 108-5241● RL	0.220	0.194	0.183	0.161	0.148
SN74AHC1G14DBVR	TI	5	SOT-23	Hex Schmitt Trigger	SMD 110-5919● RL	0.350	0.240	0.160	– –	– –
74AHC1G32GW/T1	NXP	5	SOT-353	Quad 2 Input Positive OR Gate	SMD 108-5242● RL	0.260	0.210	0.177	0.156	0.144
SN74AHC1G32DBVR	TI	5	SOT-23	Quad 2 Input Positive OR Gate	SMD 110-5920● RL	0.350	0.240	0.160	– –	– –
SN74AHC1G32DCKR	TI	5	SC-70	Single 2-Input Positive-OR Gate	SMD 128-7449● RL	0.200	0.147	0.109	0.093	0.081
SN74AHC1G86DBVRE4	TI	5	SOT-23	Single 2-Input EXCLUSIVE-OR Gate	128-7454●	0.081	0.058	0.044	0.037	0.033
SN74AHC1G86DCKR	TI	5	SC-70	Single 2-Input EXCLUSIVE-OR Gate	SMD 128-7455● RL	0.144	0.105	0.079	0.065	0.058
SN74AHC1G125DBVR	TI	5	SOT-23	Buffer/Line Driver 3-State	SMD 110-5921● RL	0.350	0.240	0.160	– –	– –
SN74AHC1G125DCKR	TI	5	SC-70	Log BUFFER Gate, Single	SMD 128-7409● RL	0.240	0.194	0.147	0.105	0.081
SN74AHC1G126DBVR	TI	5	SOT-23	Log BUFFER Gate, Single	SMD 128-7410● RL	0.129	0.103	0.078	0.055	0.043

RL Re-reeling available

74AHCT Picogate CMOS Logic

74AHCT Picogate CMOS Logic

A range, tenth the size of a SO14 package, with a sixth of the power dissipation. Supports TTL switching input levels.

413293

Mftrs. List No.	Mftr.	Pins	Pkg	Function	Order Code	Price Each 1+	10+	100+	250+	500+
						MIXED QUANTITY PRICING				
74AHCT1G00GW/T1	NXP	5	SOT-353	Quad 2 Input NAND Gate	SMD 108-5243● RL	0.139	0.111	0.106	0.097	0.091
74AHCT1G04GW/T1	NXP	5	SOT-353	Hex Inverter	SMD 108-5245● RL	0.330	0.240	0.210	0.188	0.175
74AHCT1G08GW/T1	NXP	5	SOT-353	Quad 2 Input Positive AND Gate	SMD 108-5246● RL	0.340	0.250	0.220	0.194	0.181
74AHCT1G14GW/T1	NXP	5	SOT-353	Hex Schmitt Trigger	SMD 108-5247● RL	0.220	0.194	0.183	0.161	0.148
74AHCT1G32GW/T1	NXP	5	SOT-353	Quad 2 Input Positive OR Gate	SMD 108-5248● RL	0.350	0.300	0.250	0.220	0.200
74AHCT1G79GW	NXP	5	SOT-353	Single D Type Edge Triggered Flip/Flop	SMD 120-1259●	0.270	0.220	0.200	0.175	0.163
SN74AHCT1G86DBVT	TI	5	SOT-23	Single 2-Input Exclusive-OR Gate	NEW SMD 160-1160● RL	0.330	0.240	0.194	0.171	0.157
SN74AHCT1G126DCKT	TI	5	SC-70	Single Bus Buffer Gate (3-State)	NEW SMD 160-1159● RL	0.330	0.240	0.194	0.169	0.165

MIXED QUANTITY PRICING Purchase mixed products within the same family and benefit from a lower price on the total quantity ordered

74HC Picogate CMOS Logic

74HC Picogate CMOS Logic

A range, tenth the size of a SO14 package, with a sixth of the power dissipation. Supports CMOS switching input levels.

413294

Mftrs. List No.	Mftr.	Pins	Pkg	Function	Order Code	Price Each 1+	10+	100+	250+	500+
						MIXED QUANTITY PRICING				
74HC1G00GW	NXP	5	SOT-353	Quad 2 Input NAND Gate	SMD 108-5249● RL	0.290	0.210	0.169	0.143	0.115
74HC1G02GW	NXP	5	SOT-353	Quad 2 Input Positive NOR Gate	SMD 108-5250● RL	0.290	0.210	0.169	0.143	0.115
74HC1G04GW	NXP	5	SOT-353	Hex Inverter	SMD 108-5251● RL	0.290	0.210	0.169	0.143	0.115
74HC1GU04GW	NXP	5	SOT-353	Hex Inverter	SMD 108-5252● RL	0.270	0.188	0.164	0.126	0.103
74HC1G08GW	NXP	5	SOT-353	Quad 2 Input Positive AND Gate	SMD 108-5253● RL	0.290	0.210	0.169	0.143	0.115
74HC1G14GW	NXP	5	SOT-353	Hex Schmitt Trigger	SMD 108-5254● RL	0.260	0.164	0.118	0.096	0.086
74HC1G32GW	NXP	5	SOT-353	Quad 2 Input Positive OR Gate	SMD 108-5255● RL	0.340	0.250	0.220	0.166	0.136
74HC1G66GW	NXP	5	SOT-353	Low Power Bilateral Switch	SMD 108-5257● RL	0.270	0.171	0.126	0.103	0.094
74HC1G86GW	NXP	5	SOT-353	Quad 2-Input Exclusive OR Gate	SMD 108-5258● RL	0.280	0.188	0.164	0.126	0.114
74HC1G125GW	NXP	5	SOT-353	Tri-State Quad Buffer	SMD 108-5259● RL	0.420	0.290	0.250	0.188	0.169
74HC1G126GW	NXP	5	SOT-353	Tri-State Quad Buffer	SMD 108-5260● RL	0.290	0.196	0.171	0.130	0.118

74HCT Picogate CMOS Logic

74HCT Picogate CMOS Logic

A range of devices containing a single logic gate with TTL compatible inputs.

413295

Mftrs. List No.	Mftr.	Pins	Pkg	Function	Order Code	Price Each 1+	10+	100+	250+	500+
						MIXED QUANTITY PRICING				
SN74AHCT1G00DBVR	TI	5	SOT-23	Quad 2 Input NAND Gate	SMD 110-5922● RL	0.350	0.220	0.160	– –	– –
74HCT1G02GW	NXP	5	SOT-353	Quad 2 Input Positive NOR Gate	SMD 108-5261● RL	0.270	0.188	0.164	0.126	0.103
74HCT1G04GW	NXP	5	SOT-353	Hex Inverter	SMD 108-5262● RL	0.270	0.188	0.164	0.126	0.103
SN74AHCT1G04DBVR	TI	5	SOT-23	Hex Inverter	SMD 110-5923● RL	0.350	0.240	0.160	– –	– –
74HCT1G08GW	NXP	5	SOT-353	Quad 2 Input Positive AND Gate	SMD 108-5263● RL	0.270	0.188	0.164	0.126	0.103
SN74AHCT1G08DBVR	TI	5	SOT-23	Quad 2 Input Positive AND Gate	SMD 110-5924● RL	0.350	0.240	0.160	– –	– –
74HCT1G14GW	NXP	5	SOT-353	Hex Schmitt Trigger	SMD 108-5264● RL	0.290	0.200	0.181	0.147	0.132
SN74AHCT1G14DBVR	TI	5	SOT-23	Hex Schmitt Trigger	SMD 110-5925● RL	0.350	0.240	0.160	– –	– –
SN74AHC1G14DCKR	TI	5	SC-70	Single Schmitt-Trigger Inverter Gate	SMD 128-7468● RL	0.200	0.147	0.109	0.093	0.081
74HCT1G32GW	NXP	5	SOT-353	Quad 2 Input Positive OR Gate	SMD 108-5265● RL	0.270	0.188	0.164	0.126	0.103
SN74AHCT1G32DBVR	TI	5	SOT-23	Quad 2 Input Positive OR Gate	SMD 110-5926●	0.350	0.220	0.160	– –	– –
74HCT1G86GW	NXP	5	SOT-353	Quad 2-Input Exclusive OR Gate	SMD 108-5266● RL	0.280	0.187	0.164	0.126	0.113
74HCT1G125GW	NXP	5	SOT-353	Tri-State Quad Buffer	SMD 108-5267● RL	0.360	0.250	0.210	0.162	0.148
SN74AHCT1G125DBVR	TI	5	SOT-23	Tri-State Quad Buffer	SMD 110-5927● RL	0.350	0.240	0.160	– –	– –

MIXED QUANTITY PRICING Purchase mixed products within the same family and benefit from a lower price on the total quantity ordered

74HC High Speed CMOS Logic

74HC High Speed CMOS Logic

413298

Mftrs. List No.	Mftr.	Pins	Pkg	Function	Order Code	Price Each 1+	10+	100+	250+	500+
						MIXED QUANTITY PRICING				
74HC00D	NXP	14	SOIC	Quad 2 Input NAND Gate	SMD 120-1310●	0.380	0.250	0.169	0.115	– –
74HC00N	NXP	14	DIP	Quad 2 Input NAND Gate	380-349●	0.410	0.280	0.181	– –	– –
CD74HC00M	TI	14	SOIC	Quad 2 Input NAND Gate	SMD 110-3152●	0.430	0.270	0.196	0.145	0.116
M74HC00B1R	ST	14	DIP	Quad 2 Input NAND Gate	975-5411●	0.470	0.300	0.230	0.200	0.151
MC74HC00ADG	ON	14	SOIC	Quad 2 Input NAND Gate	SMD 966-6885●	0.410	0.320	0.220	0.136	– –
MC74HC00ANG	ON	14	DIP	Quad 2 Input NAND Gate	966-5773●	0.550	0.380	0.270	0.220	– –
MM74HC00M	FCH	14	SOIC	Quad 2 Input NAND Gate	SMD 101-3953●	0.340	0.230	0.153	0.105	0.080
MM74HC00N	FCH	14	DIP	Quad 2 Input NAND Gate	101-3840●	0.350	0.270	0.196	– –	– –
SN74HC00D	TI	14	SOIC	Quad 2 Input NAND Gate	SMD 959-0870●	0.350	0.240	0.157	– –	– –
SN74HC00N	TI	14	DIP	Quad 2 Input NAND Gate	959-0889●	0.420	0.290	0.188	– –	– –
SN74HC00PW	TI	14	TSSOP	Quad 2 Input NAND Gate	SMD 959-0897●	0.220	0.177	0.142	– –	– –
74HC02D	NXP	14	SOIC	Quad 2 Input Positive NOR Gate	SMD 120-1312●	0.340	0.230	0.153	0.105	– –
74HC02N	NXP	14	DIP	Quad 2 Input Positive NOR Gate	380-350●	0.410	0.280	0.181	– –	– –
CD74HC02M	TI	14	SOIC	Quad 2 Input Positive NOR Gate	SMD 110-3153●	0.220	0.166	0.157	0.135	0.121
M74HC02B1R	ST	14	DIP	Quad 2 Input Positive NOR Gate	109-4277●	0.230	0.153	0.114	0.086	0.084
M74HC02M1R	ST	14	SOIC	Quad 2 Input Positive NOR Gate	SMD 109-4278●	0.360	0.240	0.181	0.130	0.111
MC74HC02ADG	ON	14	SOIC	Quad 2 Input Positive NOR Gate	SMD 966-6893●	0.280	0.220	0.182	0.105	– –

RL Re-reeling available

74HC High Speed CMOS Logic - continued

74HC High Speed CMOS Logic - continued

Mftrs. List No.	Mftr.	Pins	Pkg	Function	Order Code	Price Each 1+	10+	100+	250+	500+
						MIXED QUANTITY PRICING				
MC74HC02ANG	ON	14	DIP	Quad 2 Input Positive NOR Gate	966-5781●	0.270	0.210	0.154	0.103	– –
MM74HC02M	FCH	14	SOIC	Quad 2 Input Positive NOR Gate	SMD 101-3954● RL	0.183	0.148	0.099	0.065	0.052
MM74HC02N	FCH	14	DIP	Quad 2 Input Positive NOR Gate	101-3911●	0.350	0.270	0.196	0.137	0.104
SN74HC02D	TI	14	SOIC	Quad 2 Input Positive NOR Gate	SMD 959-0900●	0.350	0.240	0.157	– –	– –
SN74HC02N	TI	14	DIP	Quad 2 Input Positive NOR Gate	959-0919●	0.280	0.230	0.188	– –	– –
SN74HC02PW	TI	14	TSSOP	Quad 2 Input Positive NOR Gate	SMD 959-0927●	0.153	0.125	0.099	– –	– –
74HC03D	NXP	14	SOIC	Quad 2 Input Positive NAND Gate	SMD 108-5231●	0.220	0.152	0.117	– –	– –
74HC03N	NXP	14	DIP	Quad 2 Input Positive NAND Gate	117-389●	0.780	0.550	0.420	– –	– –
M74HC03B1R.	ST	14	DIP	Quad 2 Input Positive NAND Gate	311-1726▲	0.240	0.158	0.121	0.086	0.074
SN74HC03D	TI	14	SOIC	Quad 2 Input Positive NAND Gate	SMD 959-0935●	0.230	0.189	0.151	– –	– –
SN74HC03N	TI	14	PDIP	Quadruple 2-Input Positive-NAND GateS With OPEN-DRAIN Outputs	128-7491●	0.270	0.250	0.180	0.129	0.111
74HC04D	NXP	14	SOIC	Hex Inverter	SMD 120-1313●	0.310	0.210	0.141	0.096	– –
74HC04N	NXP	14	DIP	Hex Inverter	380-362●	0.410	0.280	0.181	– –	– –
74HCU04D	NXP	14	SOIC	Hex Inverter	SMD 108-5327●	0.380	0.250	0.169	0.115	– –
CD74HC04M	TI	14	SOIC	Hex Inverter	SMD 110-3154●	0.350	0.240	0.159	0.120	0.096
MC74HC04ANG	ON	14	DIP	Hex Inverter	966-5790●	0.550	0.380	0.270	0.220	– –
MC74HCU04ANG	ON	14	DIP	Hex inverter	966-6052●	0.290	0.220	0.175	0.117	– –
MM74HC04M	FCH	14	SOIC	Hex Inverter	SMD 101-3955● RL	0.350	0.240	0.160	0.109	0.083
MM74HC04N	FCH	14	DIP	Hex Inverter	101-3912●	0.280	0.240	0.196	0.137	0.104
MM74HCU04M..	FCH	14	SOIC	Hex Inverter	SMD 354-8697▲	0.250	0.178	0.093	– –	– –
SN74HC04D	TI	14	SOIC	Hex Inverter	SMD 959-0943●	0.350	0.240	0.157	– –	– –
SN74HCU04N	TI	14	PDIP	Hex Inverters	128-7555●	0.220	0.200	0.148	0.102	0.080
SN74HC04N	TI	14	DIP	Hex Inverter	959-0951●	0.420	0.290	0.188	– –	– –
SN74HC04PW	TI	14	TSSOP	Hex Inverter	SMD 959-0960●	0.153	0.125	0.099	– –	– –
MC74HC04ADG	ON	14	SOIC	Hex Inverter	SMD 110-4714●	0.350	0.330	0.280	0.152	– –
SN74HCU04PW	TI	14	TSSOP	Hex Inverters	SMD 123-6239●	0.126	0.086	0.068	0.055	0.050
SN74HC05D	TI	14	SOIC	Hex Inverter (OC)	SMD 959-0978●	0.410	0.280	0.183	– –	– –
SN74HC05NE4	TI	14	PDIP	Hex Inverters With Open-Drain Outputs	128-7554●	0.148	0.134	0.100	0.072	0.070
74HC08D	NXP	14	SOIC	Quad 2 Input Positive AND Gate	SMD 120-1314●	0.310	0.210	0.141	0.096	– –
74HC08N	NXP	14	DIP	Quad 2 I/p AND Gate	380-374●	0.410	0.280	0.181	– –	– –
CD74HC08M	TI	14	SOIC	Quad 2 Input Positive AND Gate	SMD 110-3156●	0.430	0.270	0.196	0.145	0.116
M74HC08B1R.	ST	14	DIP	Quad 2 Input Positive AND Gate	311-1738▲	0.230	0.151	0.109	0.081	0.079
M74HC08B1R	ST	14	DIP	Quad 2 Input Positive AND Gate	975-5420●	0.340	0.230	0.159	0.119	0.116
MC74HC08ADG	ON	14	SOIC	Quad 2-Input AND Gate	SMD 966-6907●	0.310	0.300	0.270	0.105	– –
MC74HC08ANG	ON	14	DIP	Quad 2-Input AND Gate	966-5803●	0.200	0.147	0.116	0.081	– –
MM74HC08M	FCH	14	SOIC	Quad 2 Input Positive AND Gate	SMD 101-3957●	0.350	0.230	0.157	0.107	0.082
MM74HC08N	FCH	14	DIP	Quad 2 Input Positive AND Gate	101-3913●	0.169	0.133	0.111	0.094	0.083
SN74HC08D	TI	14	SOIC	Quad 2 Input Positive AND Gate	SMD 959-0986●	0.350	0.240	0.157	– –	– –
SN74HC08N	TI	14	DIP	Quad 2 Input Positive AND Gate	959-0994●	0.420	0.290	0.188	– –	– –
SN74HC08PW	TI	14	TSSOP	Quad 2 Input Positive AND Gate	SMD 959-1001●	0.220	0.177	0.142	– –	– –
74HC10D	NXP	14	SOIC	Triple 3 Input Positive NAND Gate	SMD 108-5336●	0.510	0.350	0.250	0.177	– –
74HC10N	NXP	14	DIP	Triple 3 Input Positive NAND Gate	380-386●	0.500	0.410	0.280	– –	– –
M74HC10B1R	ST	14	DIP	Triple 3 Input Positive NAND Gate	975-5438●	0.240	0.145	0.101	0.084	0.081
SN74HC10D	TI	14	SOIC	Triple 3 Input Positive NAND Gate	SMD 959-1010●	0.350	0.240	0.157	– –	– –
SN74HC10N	TI	14	SOIC	Triple 3-Input Positive-NAND GateS	128-7482●	0.270	0.250	0.180	0.129	0.111
74HC11D	NXP	14	SOIC	Triple 3 Input Positive AND Gate	SMD 120-1315●	0.380	0.260	0.200	– –	– –
74HC11N	NXP	14	DIP	Triple 3 Input Positive AND Gate	380-398●	0.410	0.280	0.180	– –	– –
SN74HC11D	TI	14	SOIC	Triple 3-Input Positive-AND GateS	SMD 123-6212●	0.230	0.158	0.124	0.101	0.093
74HC14D	NXP	14	SOIC	Hex Schmitt Trigger	SMD 120-1316●	0.310	0.210	0.141	0.096	– –
74HC14N	NXP	14	DIP	Hex Schmitt Trigger	380-404●	0.410	0.280	0.181	– –	– –
CD74HC14E	TI	14	DIP	74HC High Speed CMOSLogic Hex Schmitt-Triggered Inverter	225-9783●	0.340	0.290	0.188	– –	– –
CD74HC14M	TI	14	SOIC	Hex Schmitt Trigger	SMD 110-3160●	0.350	0.240	0.159	0.120	0.096
MC74HC14ADG	ON	14	SOIC	Hex Schmitt Trigger	SMD 966-6931●	0.410	0.300	0.220	0.163	– –
MC74HC14ANG	ON	14	DIP	Hex Schmitt Trigger	966-5854●	0.610	0.410	0.300	0.240	– –
MM74HC14M	FCH	14	SOIC	Hex Schmitt Trigger	SMD 101-3958● RL	0.350	0.230	0.157	0.107	0.082
MM74HC14N	FCH	14	DIP	Hex Schmitt Trigger	101-3914●	0.410	0.270	0.196	0.137	0.104
SN74HC14D	TI	14	SOIC	Hex Schmitt Trigger	SMD 959-4566●	0.350	0.240	0.157	– –	– –
SN74HC14N	TI	14	DIP	Hex Schmitt Trigger	959-1125●	0.420	0.290	0.188	– –	– –
SN74HC14PW	TI	14	TSSOP	Hex Schmitt Trigger	SMD 959-1133●	0.200	0.161	0.144	– –	– –
M74HC14TTR	ST	14	TSSOP	Log INVERTER, HEX SCHMITT	SMD 128-8457● RL	0.430	0.310	0.210	0.181	0.140
MC74HC14ADTG	ON	14	TSSOP	Hex Inverting Schmitt Trigger	SMD 110-4717●	0.410	0.340	0.290	0.192	– –
SN74HC14DG4	TI	14	SOIC	Hex Schmitt-Trigger Inverters	123-6216●	0.210	0.139	0.111	0.086	0.072
SN74HC14QPWRQ1	TI	14	TSSOP	Hex Schmitt-Trigger Inverters	NEW SMD 160-1166● RL	0.360	0.260	0.182	0.121	0.096
74HC20N	NXP	14	DIP	Dual 4 Input Positive NAND Gate	120-1277●	0.790	0.340	0.250	– –	– –
M74HC20B1R	ST	14	DIP	Dual 4 Input Positive NAND Gate	975-5446●	0.210	0.159	0.107	0.084	0.081
74HC21D	NXP	14	SOIC	Dual 4 Input Positive AND Gate	SMD 108-5328●	0.480	0.370	0.260	0.183	– –
74HC21N	NXP	14	DIP	Dual 4 Input Positive AND Gate	380-428●	1.030	0.550	0.410	– –	– –
SN74HC27D	TI	14	SOIC	Octal D Type Flip/Flop With Clear	SMD 959-1419●	0.103	0.083	0.073	– –	– –
74HC27D	NXP	14	SOIC	Triple 3 Input NOR Gate	SMD 108-5234●	0.370	0.250	0.169	– –	– –
M74HC27B1R	ST	14	DIP	Triple 3 Input NOR Gate	109-4293●	0.360	0.240	0.181	0.130	0.107
74HC30PW	NXP	14	TSSOP	8 Input NAND Gate	NEW SMD 163-1673●	0.153	0.112	0.092	– –	– –
74HC30D	NXP	14	SOIC	8 Input Positive NAND Gate	SMD 120-1251●	0.490	0.290	0.200	– –	– –
74HC30N	NXP	14	DIP	8 Input Positive NAND Gate	380-441●	0.410	0.280	0.181	– –	– –
M74HC30B1R	ST	14	DIP	8 Input Positive NAND Gate	109-4296●	0.230	0.165	0.107	0.085	0.082
74HC32D	NXP	14	SOIC	Quad 2 Input Positive OR Gate	SMD 108-5329●	0.340	0.230	0.153	0.105	– –
74HC32N	NXP	14	DIP	Quad 2 I/p OR Gate	380-453●	0.410	0.280	0.181	– –	– –
MC74HC32ADG	ON	14	SOIC	Quad 2-Input OR Gate	SMD 966-6966●	0.330	0.270	0.220	0.117	– –
MC74HC32ANG	ON	14	DIP	Quad 2-Input OR Gate	966-5935●	0.290	0.210	0.148	0.101	– –
MM74HC32M	FCH	14	SOIC	Quad 2 Input Positive OR Gate	SMD 101-3959●	0.350	0.240	0.160	0.109	0.083
MM74HC32N	FCH	14	DIP	Quad 2 Input Positive OR Gate	101-3915●	0.410	0.270	0.196	0.137	0.104
SN74HC32D	TI	14	SOIC	Quad 2 Input Positive OR Gate	SMD 959-1427●	0.350	0.240	0.157	– –	– –
SN74HC32N	TI	14	DIP	Quad 2 Input Positive OR Gate	959-1435●	0.420	0.290	0.188	– –	– –
SN74HC32PW	TI	14	TSSOP	Quadruple 2-Input Positive-OR GateS	SMD 128-7508●	0.186	0.159	0.119	0.086	0.072
MC74HC32ADR2G	ON	14	SOIC	Quad 2-Input OR Gate	NEW SMD 160-7773● RL	0.163	0.110	0.085	– –	– –
74HC42D	NXP	16	SO	BCD-to-Decimal Decoder (1-of-10)	NEW SMD 163-1661●	0.360	0.260	0.200	– –	– –
74HC42N	NXP	16	DIP	BCD to DecimAl Decoder	380-465●	0.720	0.450	0.330	– –	– –
M74HC73B1R	ST	14	DIP	Dual J-K mAster Slave Flip/Flop	109-4308●	0.350	0.270	0.210	0.159	0.126
74HC74D	NXP	14	SOIC	Dual D Type Edge Triggered Flip/Flop	SMD 120-1317●	0.380	0.220	0.153	0.105	– –
74HC74N	NXP	14	DIP	Dual D Type Edge Triggered Flip/Flop	380-477●	0.380	0.250	0.181	– –	– –
CD74HC74M..	TI	14	SOIC	Dual D Type Edge Triggered Flip/Flop	SMD 558-930	0.210	0.148	0.134	0.102	0.096
CD74HC74M	TI	14	SOIC	Dual D Type Edge Triggered Flip/Flop	SMD 110-3175●	0.350	0.250	0.196	0.145	0.116
MC74HC74ADG	ON	14	SOIC	4-Bit D Latch	SMD 966-7016●	0.350	0.310	0.220	0.131	– –
MC74HC74ANG	ON	14	DIP	4-Bit D Latch	966-6044●	0.500	0.410	0.300	0.240	– –
MM74HC74AM	FCH	14	SOIC	Dual D Type Edge Triggered Flip/Flop	SMD 101-3960● RL	0.350	0.240	0.160	0.109	0.083
MM74HC74AN	FCH	14	DIP	Dual D Type Edge Triggered Flip/Flop	101-3916●	0.250	0.186	0.133	0.089	0.074
SN74HC74D	TI	14	SOIC	Dual D Type Edge Triggered Flip/Flop	SMD 959-1680●	0.350	0.240	0.157	– –	– –
SN74HC74NG4	TI	14	DIP	Dual D Type Edge Triggered Flip/Flop	959-1699●	0.340	0.270	0.220	– –	– –
SN74HC74PW	TI	14	TSSOP	Dual D Type Edge Triggered Flip/Flop	SMD 959-1702●	0.200	0.161	0.130	– –	– –
74HC75D	NXP	16	SOIC	Quad Bi-Stable Latch	SMD 108-5330●	0.470	0.300	0.220	0.158	– –

RL Re-reeling available

Mftrs. List No.	Mftr.	Pins	Pkg	Function	Order Code	Price Each 1+	10+	100+	250+	500+
					MIXED QUANTITY PRICING					
74HC75PW	NXP	16	TSSOP	Bistable Transparent Latch	NEW SMD 163-1678●	0.200	0.153	0.112	– –	– –
74HC85N	NXP	16	DIP	4 Bit mAgnitude Comparator	380-489●	0.570	0.360	0.260	– –	– –
CD74HC85M	TI	16	SOIC	74HC, High Speed CMOSLogic 4-Bit mAgnitude Comparator	SMD 838-9110●	0.580	0.450	0.350	– –	– –
M74HC85B1R	ST	16	DIP	4 Bit mAgnitude Comparator	311-1830▲	0.590	0.370	0.290	0.250	0.230
74HC86D	NXP	14	SOIC	Quad 2-Input Exclusive OR Gate	SMD 108-5331●	0.430	0.270	0.196	0.145	– –
74HC86N	NXP	14	DIP	Quad 2-Input Exclusive OR Gate	380-490●	0.380	0.260	0.185	– –	– –
M74HC86B1R	ST	14	DIP	Quad 2-Input Exclusive OR Gate	109-4310●	0.410	0.240	0.181	0.107	0.101
MM74HC86M	FCH	14	SOIC	Quad 2-Input Exclusive OR Gate	SMD 101-3850● RL	0.340	0.230	0.153	– –	– –
SN74HC86D	TI	14	SOIC	Quad 2-Input Exclusive OR Gate	SMD 959-1710●	0.230	0.185	0.163	– –	– –
SN74HC86N	TI	14	DIP	Quad 2-Input Exclusive OR Gate	959-1729●	0.280	0.230	0.194	– –	– –
MC74HC86ANG	ON	14	DIP	Quad 2-Input Exclusive-OR Gate	110-4709●	0.250	0.200	0.145	0.107	– –
74HC93N	NXP	14	DIP	4 Bit Binary Counter	121-1735●	0.920	0.690	0.420	– –	– –
M74HC107B1R	ST	14	DIP	Dual J-K mAster Slave Flip/Flop	121-8310●	0.340	0.270	0.181	0.121	0.107
74HC123D	NXP	16	SOIC	Dual One Shot Multivibrator	SMD 108-5332●	0.490	0.370	0.340	0.195	– –
74HC123N	NXP	16	DIP	Dual One Shot Multivibrator	380-519●	0.450	0.290	0.210	– –	– –
CD74HC123M	TI	16	SOIC	Dual One Shot Multivibrator	SMD 110-3157●	0.390	0.270	0.192	0.134	0.101
M74HC123B1R	ST	16	DIP	Dual One Shot Multivibrator	109-4281●	0.460	0.310	0.230	0.188	0.135
MM74HC123AM	FCH	16	SOIC	Dual One Shot Multivibrator	SMD 101-3961●	0.460	0.320	0.230	0.158	0.120
MM74HC123AN	FCH	16	DIP	Dual One Shot Multivibrator	101-3917●	0.500	0.320	0.230	0.169	0.136
CD74HC123E	TI	16	PDIP	High Speed CmosLogic Dual Retriggerable Monostable Multivibrators With Reset	128-7430●	0.350	0.280	0.220	0.166	0.147
CD74HC123PW	TI	16	TSSOP	High Speed CMOS Logic Dual Retriggerable Monostable Multivibrators with Reset	NEW SMD 160-1156●	0.360	0.260	0.182	0.121	0.096
74HC125D	NXP	14	SOIC	Tri-State Quad Buffer	SMD 120-1318●	0.340	0.230	0.152	0.114	– –
74HC125N	NXP	14	DIP	Tri-State Quad Buffer	380-520●	0.410	0.270	0.197	– –	– –
M74HC125B1R.	ST	14	DIP	Tri-State Quad Buffer	311-2561▲	0.230	0.186	0.155	0.097	0.086
M74HC125B1R	ST	14	DIP	Tri-State Quad Buffer	109-4283●	0.230	0.184	0.153	0.100	0.097
MC74HC125ADG	ON	14	SOIC	Quad 3-state buffer	SMD 966-6915●	0.290	0.260	0.194	0.085	– –
MC74HC125ANG	ON	14	DIP	Quad 3-state buffer	966-5811●	0.220	0.177	0.137	0.109	– –
MM74HC125M...	FCH	14	SOIC	Tri-State Quad Buffer	SMD 101-3962●	0.350	0.230	0.157	0.107	0.082
MM74HC125N	FCH	14	DIP	Tri-State Quad Buffer	101-3918●	0.260	0.195	0.139	0.092	0.079
SN74HC125D	TI	14	SOIC	Tri-State Quad Buffer	SMD 959-1028●	0.380	0.260	0.167	– –	– –
SN74HC125N	TI	14	DIP	Tri-State Quad Buffer	959-1036●	0.260	0.220	0.166	– –	– –
M74HC126B1R	ST	14	DIP	Dual One Shot Multivibrator	311-2573▲	0.300	0.220	0.165	0.129	0.095
CD74HC126M	TI	14	SOIC	74HC High Speed CMOSLogic Quad Non-Inverting Buffers With 3-State Outputs	SMD 838-9012●	0.320	0.270	0.220	– –	– –
74HC126D	NXP	14	SOIC	Tri-State Quad Buffer	SMD 108-5233●	0.450	0.430	0.330	– –	– –
74HC126N	NXP	14	DIP	Tri-State Quad Buffer	117-407●	0.450	0.350	0.320	– –	– –
MM74HC126M..	FCH	14	SOIC	Tri-State Quad Buffer	SMD 354-8715▲	0.178	0.146	0.140	– –	– –
MM74HC126M	FCH	14	SOIC	Tri-State Quad Buffer	SMD 101-3851●	0.210	0.158	0.104	– –	– –
MM74HC126N.	FCH	14	DIP	Tri-State Quad Buffer	378-460▲	0.290	0.230	0.220	0.157	0.138
MM74HC126N	FCH	14	DIP	Tri-State Quad Buffer	101-3921●	0.260	0.195	0.139	0.092	0.079
SN74HC126D	TI	14	SOIC	Tri-State Quad Buffer	SMD 959-1044●	0.350	0.270	0.196	– –	– –
SN74HC126PWT	TI	14	TSSOP	Quad Bus Buffer Gate with 3-State Output	NEW SMD 162-1011●	0.630	0.510	0.370	0.240	0.220
74HC132D	NXP	14	SOIC	Quad Schmitt Trigger	SMD 120-1319●	0.460	0.290	0.220	0.200	– –
74HC132N	NXP	14	DIP	Quad Schmitt Trigger	380-532●	0.410	0.270	0.197	– –	– –
CD74HC132M	TI	14	SOIC	Quad Schmitt Trigger	SMD 110-3158●	0.510	0.360	0.260	0.193	0.155
MC74HC132ADG	ON	14	SOIC	Quad 2-Input NAND Schmitt Gate	SMD 966-6923●	0.390	0.310	0.260	0.139	– –
MC74HC132ANG	ON	14	DIP	Quad 2-Input NAND Schmitt Gate	966-5820●	0.300	0.260	0.189	0.115	– –
MM74HC132M	FCH	14	SOIC	Quad Schmitt Trigger	SMD 101-3963●	0.380	0.250	0.166	0.113	0.086
MM74HC132N	FCH	14	DIP	Quad Schmitt Trigger	101-3922●	0.430	0.290	0.210	0.145	0.109
SN74HC132D	TI	14	SOIC	Quad Schmitt Trigger	SMD 959-1052●	0.380	0.260	0.172	– –	– –
SN74HC132N	TI	14	DIP	Quad Schmitt Trigger	959-1060●	0.310	0.270	0.192	– –	– –
MC74HC132ADTG	ON	14	TSSOP	Quad 2-Input NAND Schmitt Trigger	SMD 110-4719●	0.480	0.380	0.310	0.240	– –
SN74HC132PWT	TI	14	TSSOP	Quadruple Positive-NAND GateS With SCHMITT-TRIGGER InputS	SMD 123-6213●	0.660	0.460	0.330	0.280	0.260
74HC138D	NXP	16	SOIC	Expandable 3/8 Decoder	SMD 120-1320●	0.410	0.310	0.176	0.136	– –
74HC138N	NXP	16	DIP	Expandable 3/8 Decoder	380-544●	0.410	0.270	0.185	– –	– –
CD74HC138M	TI	16	SOIC	Expandable 3/8 Decoder	SMD 958-9562●	0.570	0.360	0.260	– –	– –
MC74HC138ANG	ON	16	DIP	3-8 Line decoder/Multiplexer	966-5838●	0.490	0.390	0.300	0.169	– –
MM74HC138M	FCH	16	SOIC	Expandable 3/8 Decoder	SMD 101-3964●	0.410	0.280	0.183	0.137	0.102
MM74HC138N	FCH	16	DIP	Expandable 3/8 Decoder	101-3923●	0.450	0.290	0.200	0.151	0.121
SN74HC138D.	TI	16	SOIC	Expandable 3/8 Decoder	SMD 959-1079●	0.470	0.330	0.220	– –	– –
SN74HC138N	TI	16	DIP	Expandable 3/8 Decoder	959-1087●	0.290	0.197	0.138	– –	– –
SN74HC138PW	TI	16	TSSOP	Expandable 3/8 Decoder	SMD 959-1095●	0.350	0.280	0.220	– –	– –
MC74HC138ADG	ON	16	SOIC	3-to-8 Line Inverting Decoder/Demultiplexer	SMD 110-4715●	0.430	0.330	0.270	0.210	– –
SN74HC138D	TI	16	SOIC	3-Line To 8-Line Decoder/Demultiplexer	SMD 123-6214●	0.390	0.270	0.200	0.151	0.112
74HC139D	NXP	16	SOIC	Dual 2 to 4 Decoder Demultiplexer	SMD 108-5333●	0.410	0.280	0.186	0.143	– –
74HC139N	NXP	16	DIP	Dual 2 to 4 Decoder Demux	380-556●	0.410	0.270	0.197	– –	– –
CD74HC139M	TI	16	SOIC	Dual 2 to 4 Decoder Demultiplexer	SMD 110-3159●	0.570	0.360	0.260	0.193	0.155
MC74HC139ANG	ON	16	DIP	Dual 1-4 Decoder	966-5846●	0.330	0.270	0.210	0.122	– –
MM74HC154MTCX	FCH	24	TSSOP	4 to 16 Line Decoder	SMD 141-7650● RL	0.330	0.250	0.198	0.165	0.143
SN74HC139D	TI	16	SOIC	Dual 2 to 4 Decoder Demultiplexer	SMD 959-1109●	0.310	0.220	0.153	– –	– –
SN74HC139N	TI	16	DIP	Dual 2 to 4 Decoder Demultiplexer	959-1117●	0.300	0.240	0.175	– –	– –
MC74HC139ADG	ON	16	SOIC	Dual 2-to-4 Line Decoder/Demultiplexer	SMD 110-4716●	0.240	0.178	0.134	0.112	– –
SN74HC139PW	TI	16	TSSOP	Dual 2-to-4 Line Decoder/Demultiplexer	SMD 123-6215●	0.330	0.220	0.166	0.146	0.131
SN74HC148D	TI	16	SOIC	8-LINE TO 3-LINE PRIORITY ENCODERS	SMD 128-7478●	0.380	0.270	0.196	0.137	0.104
SN74HC148NE4	TI	16	PDIP	8-LINE TO 3-LINE PRIORITY ENCODERS	128-7479●	0.220	0.188	0.141	0.102	0.099
74HC151D	NXP	16	SOIC	8 Line Multiplexer	SMD 120-1321●	0.310	0.220	0.187	0.131	– –
74HC151N	NXP	16	DIP	8 Line Multiplexer	380-568●	0.410	0.380	0.280	– –	– –
M74HC151B1R	ST	16	DIP	8 Line Multiplexer	311-2585▲	0.550	0.370	0.290	0.240	0.200
MM74HC151M	FCH	16	SOIC	8 Line Multiplexer	SMD 101-3852●	0.350	0.220	0.175	– –	– –
MM74HC151N	FCH	16	DIP	8 Line Multiplexer	101-3924●	0.450	0.290	0.200	0.151	0.121
SN74HC151N	TI	16	PDIP	8-LINE TO 1-LINE DATA SELECTORS/MULTIPLEXERS	128-7553●	0.220	0.191	0.153	0.119	0.110
74HC153D	NXP	16	SOIC	Dual 4 Input Multiplexer	SMD 120-1248●	0.490	0.330	0.260	– –	– –
74HC153N	NXP	16	DIP	Dual 4 Input Multiplexer	380-570●	0.470	0.320	0.230	– –	– –
SN74HC153D	TI	16	SOIC	Dual 4 Input Multiplexer	SMD 959-1141●	0.340	0.250	0.168	– –	– –
SN74HC153NSR	TI	16	SOIC	Dual 4-Line to 1-Line Data Selectors/Multiplexers	SMD 123-6217● RL	0.194	0.135	0.096	0.077	0.075
CD74HC154M	TI	24	SOIC	74HC High Speed CMOSLogic 4-to-16 Line Decoder/Demultiplexer	SMD 164-0550●	0.500	0.340	0.250	– –	– –
MM74HC154N	FCH	24	DIP	4 Line to 16 Line Decoder Demultiplexer	101-3925●	0.850	0.610	0.470	0.350	0.310
MM74HC154WM	FCH	24	SOIC	4 Line to 16 Line Decoder Demultiplexer	SMD 101-3854●	0.570	0.360	0.260	– –	– –
CD74HC154EN	TI	24	PDIP	High Speed CmosLogic 4-To-16 Line Decoder/Demultiplexer	128-7419●	0.950	0.710	0.560	0.460	0.390
74HC157D	NXP	16	SOIC	Quad 2 Input Multiplexer	SMD 108-5334●	0.380	0.330	0.220	0.169	– –
74HC157N	NXP	16	DIP	Quad 2 Input Multiplexer	380-593●	0.470	0.370	0.290	– –	– –
MC74HC157ADG	ON	16	SOIC	Quad 2-1-line Data Selectors/Multiplexers	SMD 966-6940●	0.260	0.240	0.210	0.092	– –
MC74HC157ANG	ON	16	DIP	Quad 2-1-line Data Selectors/Multiplexers	966-5862●	0.290	0.240	0.182	0.106	– –
MM74HC157M	FCH	16	SOIC	Quad 2 Input Multiplexer	SMD 101-3965●	0.400	0.300	0.280	0.162	0.150
MM74HC157N	FCH	16	DIP	Quad 2 Input Multiplexer	101-3926●	0.340	0.260	0.230	0.154	0.139
SN74HC157D	TI	16	SOIC	Quad 2 Input Multiplexer	SMD 959-1150●	0.380	0.250	0.181	– –	– –
SN74HC157N	TI	16	DIP	Quad 2 Input Multiplexer	959-1168●	0.194	0.154	0.139	– –	– –
74HC161N	NXP	16	DIP	Synchronous 4 Bit Binary Counter	380-600●	0.500	0.340	0.270	– –	– –
M74HC161B1R	ST	16	DIP	Synchronous 4 Bit Binary Counter	311-2627▲	0.370	0.240	0.171	0.153	0.149
SN74HC161D	TI	16	SOIC	Synchronous 4 Bit Binary Counter	SMD 959-1176●	0.390	0.270	0.192	– –	– –
SN74HC161N	TI	16		4-Bit Synchronous Binary Counters	128-7530●	0.350	0.280	0.210	0.159	0.138
SN74HC161PW	TI	16	TSSOP	4-Bit Synchronous Binary Counters	SMD 123-6218●	0.188	0.131	0.093	0.080	0.071

RL Re-reeling available

74HC High Speed CMOS Logic - continued

74HC High Speed CMOS Logic - continued

Mftrs. List No.	Mftr.	Pins	Pkg	Function	Order Code	Price Each 1+	10+	100+	250+	500+
						MIXED QUANTITY PRICING				
M74HC163B1R	ST	16	DIP	Binary Synchronous 4 Bit Counter	975-5454	0.520	0.480	0.340	0.240	0.220
SN74HC163NSR	TI	16	SOIC	4-Bit Synchronous Binary Counters	SMD 123-6219 RL	0.350	0.250	0.176	0.151	0.127
74HC164D	NXP	14	SOIC	8 Bit Serial In/Parallel Out Shift Register	SMD 108-5337	0.410	0.280	0.182	0.137	– –
74HC164N	NXP	14	DIP	8 Bit Serial In/Parallel Out Shift Register	380-623	0.430	0.320	0.260	– –	– –
CD74HC164M	TI	14	SOIC	8 Bit Serial In/Parallel Out Shift Register	SMD 110-3161	0.470	0.360	0.260	0.193	0.155
MC74HC164ANG	ON	14	DIP	Serial-in parallel-out shift register	966-5870	0.310	0.260	0.186	0.129	– –
MM74HC164M	FCH	14	SOIC	8 Bit Serial In/Parallel Out Shift Register	SMD 101-3966	0.500	0.440	0.390	0.210	0.162
MM74HC164N	FCH	14	DIP	8 Bit Serial In/Parallel Out Shift Register	101-3927	0.290	0.195	0.141	0.103	0.100
SN74HC164D	TI	14	SOIC	8 Bit Serial In/Parallel Out Shift Register	SMD 959-1184	0.310	0.220	0.153	– –	– –
SN74HC164N	TI	14	DIP	8-Bit Parallel-Out Serial Shift Registers	128-7514	0.410	0.290	0.210	0.148	0.112
SN74HC164PW	TI	14	TSSOP	8-Bit Parallel-Out Serial Shift Registers	SMD 128-7516	0.270	0.240	0.175	0.135	0.119
74HC165D	NXP	16	SOIC	8 Bit Parallel In/Serial Out Shift Register	SMD 120-1249	0.380	0.250	0.181	– –	– –
74HC165N	NXP	16	DIP	8 Bit Parallel In/Serial Out Shift Register	380-635	0.450	0.300	0.220	– –	– –
CD74HC165M	TI	16	SOIC	8 Bit Parallel In/Serial Out Shift Register	SMD 110-3162	0.300	0.220	0.183	0.151	0.130
MC74HC165ADG	ON	16	SOIC	8-Bit parallel to serial converter	SMD 966-4483	0.520	0.410	0.310	0.177	– –
MM74HC165M	FCH	16	SOIC	8 Bit Parallel In/Serial Out Shift Register	SMD 101-3967	0.460	0.310	0.220	0.157	0.118
MM74HC165N	FCH	16	DIP	8 Bit Parallel In/Serial Out Shift Register	101-3928	0.490	0.310	0.220	0.163	0.131
SN74HC165D	TI	16	SOIC	8 Bit Parallel In/Serial Out Shift Register	SMD 959-1192	0.390	0.270	0.192	– –	– –
SN74HC165N	TI	16	DIP	8 Bit Parallel In/Serial Out Shift Register	959-1206	0.320	0.280	0.210	– –	– –
SN74HC165DE4	TI	16	SOIC	8-Bit Parallel-Load Shift Registers	SMD 123-6220	0.260	0.176	0.126	0.108	0.096
CD74HC166M	TI	16	SOIC	74HC High Speed CMOSLogic 8-Bit Parallel-In/Serial-Out Shift Register	SMD 838-9020	0.270	0.220	0.176	– –	– –
SN74HC166D	TI	16	SOIC	8-Bit Parallel-Load Shift Registers	SMD 128-7501	0.270	0.240	0.175	0.135	0.119
SN74HC166N	TI	16	DIP	8-Bit Parallel-Load Shift Registers	128-7502	0.199	0.161	0.120	0.093	0.082
M74HC174B1R	ST	16	DIP	Hex D Type Flip/Flop With Clear	311-2603	0.230	0.197	0.164	0.144	0.140
MC74HC174ADG	ON	16	SOIC	Hex D-type Flip-Flops	SMD 966-6958	0.300	0.250	0.200	0.110	– –
MM74HC174M	FCH	16	SOIC	Hex D Type Flip/Flop With Clear	SMD 101-3969	0.320	0.310	0.260	0.159	0.136
MM74HC174N	FCH	16	DIP	Hex D Type Flip/Flop With Clear	101-3929	0.460	0.300	0.210	0.157	0.126
SN74HC174D	TI	16	SOIC	Hex D Type Flip/Flop With Clear	SMD 959-1214	0.410	0.270	0.196	– –	– –
SN74HC174N	TI	16	PDIP	Hex D-Type Flip-Flops With Clear	128-7531	0.310	0.270	0.196	0.141	0.120
MM74HC175M.	FCH	16	SOIC	Quad D Type Edge Triggered Flip/Flop	SMD 354-8776	0.230	0.140	0.127	– –	– –
MM74HC175M	FCH	16	SOIC	Quad D Type Edge Triggered Flip/Flop	SMD 101-3855	0.460	0.260	0.240	– –	– –
MM74HC175N	FCH	16	DIP	Quad D Type Edge Triggered Flip/Flop	101-3930	0.460	0.300	0.210	0.157	0.126
SN74HC175D	TI	16	SOIC	Quad D Type Edge Triggered Flip/Flop	SMD 959-1222	0.410	0.270	0.196	– –	– –
SN74HC175N	TI	16	DIP	Quad D Type Edge Triggered Flip/Flop	959-1230	0.310	0.270	0.200	– –	– –
74HC191D	NXP	16	SOIC	Synchronous Binary Up/Down Counter	SMD 121-1739	0.490	0.320	0.250	0.210	– –
74HC191N	NXP	16	DIP	Synchronous Binary Counter	380-660	0.490	0.350	0.280	– –	– –
CD74HC191M.	TI	16	SOIC	Synchronous Binary Up/Down Counter	SMD 558-710	0.340	0.260	0.240	0.184	0.160
CD74HC191M	TI	16	SOIC	Synchronous Binary Up/Down Counter	SMD 121-4448	0.390	0.300	0.260	0.194	0.166
CD74HC195M	TI	16	SOIC	74HC High Speed CMOSLogic 4-Bit Parallel Access Register	SMD 838-9039	0.290	0.220	0.194	– –	– –

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Mftrs. List No.	Mftr.	Pins	Pkg	Function	Order Code	Price Each 1+	10+	100+	250+	500+
						MIXED QUANTITY PRICING				
74HC221D	NXP	16	SOIC	Dual Monostable Multivibrator With Clear	SMD 108-5338	0.570	0.360	0.310	0.240	– –
74HC221N	NXP	16	DIP	Dual Monostable Multivibrator With Clear	120-1250	0.680	0.570	0.470	– –	– –
MM74HC4040N	FCH	16	DIP	12 Bit Binary Ripple Counter/Divider	101-3945	0.540	0.340	0.250	0.181	0.146
74HC237N	NXP	16	DIP	3 to 8 Line Latched Decoder	117-444	0.620	0.400	0.280	– –	– –
74HC237D	NXP	16	SO	Line Decoder	NEW SMD 163-1645	0.560	0.410	0.320	0.220	0.199
74HC238N	NXP	16	DIP	3 to 8 Line Non-Inverting Decoder	380-684	0.620	0.400	0.280	– –	– –
CD74HC238E	TI	16	DIP	74HC High Speed CMOSLogic 3-to-8 Line Decoder Demultiplexer Inverting and Non-Inverting	226-0025	0.220	0.186	0.150	– –	– –
CD74HC238M	TI	16	SOIC	74HC High Speed CMOSLogic 3-to-8 Line Decoder Demultiplexer Inverting and Non-Inverting	SMD 164-0756	0.340	0.270	0.196	– –	– –
74HC240D	NXP	20	SOIC	Octal Tri-State Inverter Buffer	SMD 108-5273	0.380	0.250	0.181	0.127	– –
74HC240N	NXP	20	DIP	Octal Tri-State Inverter Buffer	380-696	0.470	0.320	0.230	– –	– –
M74HC240B1R	ST	20	DIP	Octal Tri-State Inverter Buffer	311-3310	0.600	0.490	0.350	0.240	0.220
MC74HC240ANG	ON	20	DIP	Octal buffer - 3 state inverting	966-5889	0.780	0.630	0.470	0.300	– –
MM74HC240N	FCH	20	DIP	Octal Tri-State Inverter Buffer	101-3931	0.510	0.350	0.250	0.175	0.132
MM74HC240WM	FCH	20	SOIC	Octal Tri-State Inverter Buffer	SMD 101-3971	0.430	0.380	0.290	0.210	0.181
SN74HC240DW	TI	20	SOIC	Octal Tri-State Inverter Buffer	SMD 959-1249	0.490	0.330	0.240	– –	– –
SN74HC240N	TI	20	DIP	Octal Tri-State Inverter Buffer	959-1257	0.340	0.280	0.220	– –	– –
M74HC241B1R	ST	20	DIP	Octal Tri-State Buffer	121-8312	0.360	0.240	0.198	0.117	0.115
SN74HC241DW	TI	20	SOIC	Octal Tri-State Buffer	SMD 959-1265	0.490	0.330	0.240	– –	– –
74HC244D	NXP	20	SOIC	Octal Tri-State Buffer	SMD 120-1322	0.350	0.240	0.174	0.122	– –
M74HC244B1R	ST	20	DIP	Octal Tri-State Buffer	109-4291	0.590	0.370	0.290	0.250	0.200
MC74HC244ANG	ON	20	DIP	Octal buffer - three state non-inverting	966-5897	0.850	0.630	0.460	0.390	– –
MM74HC244N	FCH	20	DIP	Octal Tri-State Buffer	101-3933	0.310	0.220	0.159	0.106	0.092
MM74HC244WM	FCH	20	SOIC	Octal Tri-State Buffer	SMD 101-3972 RL	0.410	0.300	0.193	0.143	0.108
SN74HC244DW	TI	20	SOIC	Octal Tri-State Buffer	SMD 959-1273	0.410	0.280	0.198	– –	– –
SN74HC244N	TI	20	DIP	Octal Tri-State Buffer	959-1281	0.490	0.320	0.230	– –	– –
MC74HC244ADTG	ON	20	TSSOP	Octal Buffer/Line Driver (3-State)	SMD 110-4721	0.470	0.370	0.300	0.220	– –
SN74HC244PW	TI	20	TSSOP	Octal Buffer/Line Driver (3-State)	SMD 128-7504	0.370	0.280	0.200	0.157	0.132
74HC245D	NXP	20	SOIC	Octal Tri-State Transceiver	SMD 120-1324	0.380	0.250	0.181	0.127	– –
74HC245N	NXP	20	DIP	Octal Tri-State Transceiver	380-714	0.510	0.350	0.250	– –	– –
CD74HC245M..	TI	20	SOIC	Octal Tri-State Transceiver	SMD 558-758	0.340	0.250	0.240	0.168	0.148
CD74HC245M	TI	20	SOIC	Octal Tri-State Transceiver	SMD 110-3163	0.490	0.350	0.300	0.230	0.184
MC74HC245ANG	ON	20	DIP	Octal Bus transciever With 3 state outputs	966-5919	0.680	0.540	0.410	0.340	– –
MM74HC245AN	FCH	20	DIP	Octal Tri-State Transceiver	101-3934	0.510	0.350	0.250	0.177	0.133
MM74HC245AWM	FCH	20	SOIC	Octal Tri-State Transceiver	SMD 101-3973 RL	0.430	0.310	0.200	0.147	0.114
SN74HC245DW	TI	20	SOIC	Octal Tri-State Transceiver	SMD 959-1290	0.470	0.320	0.230	– –	– –
SN74HC245NG4	TI	20	DIP	Octal Tri-State Transceiver	959-1303	0.350	0.290	0.240	– –	– –
MC74HC245ADTG	ON	20	TSSOP	Octal Bus Transceiver (3-State)	SMD 110-4722	0.620	0.490	0.400	0.290	– –
SN74HC245PW	TI	20	TSSOP	Octal Bus Transceivers With 3-State Outputs	SMD 123-6221	0.330	0.240	0.178	0.147	0.130
M74HC251B1R.	ST	16	DIP	Data Selector/Multiplexer	311-3346	0.300	0.230	0.176	0.172	0.167
M74HC251B1R	ST	16	DIP	Data Selector/Multiplexer	975-5462	0.460	0.340	0.240	0.173	0.163
MM74HC251M	FCH	16	SOIC	Data Selector/Multiplexer	SMD 101-3856	0.300	0.183	0.144	– –	– –
MM74HC251N..	FCH	16	DIP	Data Selector/Multiplexer	378-781	0.200	0.168	0.126	0.102	0.091
MM74HC251N	FCH	16	DIP	Data Selector/Multiplexer	101-3935	0.450	0.290	0.200	0.151	0.121
SN74HC251D	TI	16	SOIC	Data Selector/Multiplexer	SMD 959-1311	0.420	0.290	0.210	– –	– –
SN74HC251N	TI	16	DIP	Data Selector/Multiplexer	959-1320	0.250	0.177	0.139	– –	– –
SN74HC253D	TI	16	SOIC	Tri-State Dual 4 Input Multiplexer	SMD 959-1338	0.370	0.270	0.196	– –	– –
M74HC257B1R	ST	16	DIP	Tri-State Quad 2 Input Multiplexer	975-5470	0.350	0.220	0.146	0.121	0.118
SN74HC257D	TI	16	SOIC	Tri-State Quad 2 Input Multiplexer	SMD 959-1346	0.470	0.320	0.230	– –	– –
SN74HC257N	TI	16	DIP	Tri-State Quad 2 Input Multiplexer	959-1354	0.370	0.270	0.196	– –	– –
74HC259D	NXP	16	SOIC	8 Bit Addressable Latch	SMD 108-5339	0.410	0.340	0.310	0.210	– –
M74HC259B1R	ST	16	DIP	8 Bit Addressable Latch	109-4292	0.530	0.380	0.310	0.230	0.176
MM74HC259M	FCH	16	SOIC	8 Bit Addressable Latch	SMD 101-3974	0.430	0.290	0.210	0.145	0.109
MM74HC259N	FCH	16	DIP	8 Bit Addressable Latch	101-3936	0.450	0.290	0.200	0.151	0.121

RL Re-reeling available

Mftrs. List No.	Mftr.	Pins	Pkg	Function	Order Code	Price Each 1+	10+	100+	250+	500+
						MIXED QUANTITY PRICING				
SN74HC259D	TI	16	SOIC	8 Bit Addressable Latch	SMD 959-1362●	0.420	0.290	0.210	– –	– –
SN74HC259N	TI	16	DIP	8 Bit Addressable Latch	959-1370●	0.250	0.220	0.175	– –	– –
74HC273D	NXP	20	SOIC	Octal D Type Flip/Flop With Clear	SMD 108-5340●	0.380	0.250	0.181	0.127	– –
74HC273N	NXP	20	DIP	Octal D Type Flip/Flop	380-726●	0.450	0.290	0.210	– –	– –
CD74HC273M	TI	20	SOIC	Octal D Type Flip/Flop With Clear	SMD 110-3164●	0.600	0.400	0.370	0.290	0.280
M74HC273B1R	ST	20	DIP	Octal D Type Flip/Flop With Clear	311-3371▲	0.650	0.430	0.350	0.330	0.280
MC74HC273ANG	ON	20	DIP	8-Bit register With clear	966-5927●	0.650	0.530	0.400	0.300	– –
MM74HC273N	FCH	20	DIP	Octal D Type Flip/Flop With Clear	101-3937●	0.510	0.340	0.250	0.172	0.130
MM74HC273WM	FCH	20	SOIC	Octal D Type Flip/Flop With Clear	SMD 101-3975● RL	0.410	0.300	0.199	0.143	0.111
SN74HC273DW	TI	20	SOIC	Octal D Type Flip/Flop With Clear	SMD 959-1389●	0.420	0.290	0.210	– –	– –
SN74HC273N	TI	20	DIP	Octal D Type Flip/Flop With Clear	959-1397●	0.290	0.197	0.138	– –	– –
SN74HC273PW	TI	20	TSSOP	Octal D Type Flip/Flop With Clear	SMD 959-1400●	0.240	0.199	0.158	– –	– –
MC74HC273ADTG	ON	20	TSSOP	Octal D-Type Flip-Flop With Reset; Positive-Edge Trigger	SMD 110-4723●	0.310	0.260	0.210	0.153	– –
M74HC299B1R	ST	20	DIP	8 Bit Shift/Storage Register	109-4295●	0.780	0.680	0.520	0.290	0.270
74HC365N	NXP	16	DIP	Tri-State Hex Buffer	380-740●	0.690	0.440	0.320	– –	– –
M74HC365B1R	ST	16	DIP	Tri-State Hex Buffer	975-5489●	0.680	0.440	0.340	0.300	0.220
CD74HC366M	TI	16	SOIC	74HC High Speed CMOSLogic Hex Buffers/Line Drivers With Inverting 3-State Outputs	SMD 838-9047●	0.330	0.280	0.220	– –	– –
M74HC367B1R	ST	16	DIP	Tri-State Hex Buffer	975-5497●	0.670	0.530	0.370	0.210	0.162
SN74HC367D	TI	16	SOIC	Tri-State Hex Buffer	SMD 959-1443●	0.460	0.300	0.210	– –	– –
M74HC368B1R	ST	16	DIP	Tri-State Hex Inverter	975-5500●	0.540	0.370	0.260	0.210	0.158
M74HC368M1R	ST	16	SOIC	Tri-State Hex Inverter	SMD 109-4298●	0.440	0.340	0.260	0.140	0.117
CD74HC373M.	TI	20	SOIC	Tri-State Octal Transparent Latch	SMD 558-783	0.340	0.310	0.300	0.290	0.280
74HC373D	NXP	20	SOIC	Tri-State Octal Transparent Latch	SMD 108-5341●	0.350	0.240	0.174	0.122	– –
CD74HC373M	TI	20	SOIC	Tri-State Octal Transparent Latch	SMD 110-3165●	0.610	0.430	0.310	0.230	0.184
M74HC373M1R	ST	20	SOIC	Tri-State Octal Transparent Latch	SMD 109-4299●	0.480	0.370	0.310	0.210	0.162
MC74HC373ANG	ON	20	DIP	PDIP-20 2-6V Transparent Non-Inverting	966-5943●	0.720	0.640	0.470	0.290	– –
MM74HC373N	FCH	20	DIP	Tri-State Octal Transparent Latch	101-3938●	0.310	0.220	0.159	0.106	0.092
MM74HC373WM	FCH	20	SOIC	Tri-State Octal Transparent Latch	SMD 101-3976●	0.410	0.310	0.200	0.144	0.112
SN74HC373DW	TI	20	SOIC	Tri-State Octal Transparent Latch	SMD 959-1451●	0.450	0.300	0.220	– –	– –
SN74HC373N	TI	20	DIP	Tri-State Octal Transparent Latch	959-1460●	0.510	0.350	0.250	– –	– –
MC74HC373ADTG	ON	20	TSSOP	Octal D-Type Transparent Latch (3-State)	SMD 110-4724●	0.500	0.390	0.330	0.250	– –
SN74HC373PW	TI	20	TSSOP	Octal Transparent D-Type Latches With 3-State Outputs	SMD 128-7558●	0.400	0.290	0.210	0.166	0.140
74HC374D	NXP	20	SOIC	Tri-State Octal D Flip/Flop	SMD 108-5342●	0.350	0.200	0.198	0.166	– –
74HC374N	NXP	20	DIP	Tri-State Octal D Flip/Flop	380-763●	0.450	0.290	0.210	– –	– –
CD74HC374M	TI	20	SOIC	Tri-State Octal D Flip/Flop	SMD 838-9055●	0.370	0.310	0.240	– –	– –
MM74HC374N	FCH	20	DIP	Tri-State Octal D Flip/Flop	101-3939●	0.510	0.350	0.250	0.175	0.132
MM74HC374WM	FCH	20	SOIC	Tri-State Octal D Flip/Flop	SMD 101-3977●	0.220	0.151	0.115	0.093	0.078
SN74HC374DW	TI	20	SOIC	Tri-State Octal D Flip/Flop	SMD 959-1478●	0.470	0.320	0.230	– –	– –
SN74HC374DWG4	TI	20	SOIC	Octal Edge-Triggered D-Type Flip-Flops With 3-State Outputs	123-6224●	0.220	0.148	0.108	0.101	0.098
SN74HC374N	TI	20	DIP	Tri-State Octal D Flip/Flop	959-1486●	0.460	0.340	0.250	– –	– –
MC74HC374ADTG	ON	20	TSSOP	Tri-State Octal D Flip/Flop	SMD 110-4725●	0.250	0.197	0.163	0.123	– –
74HC377D	NXP	20	SOIC	Octal D Type Flip/Flop With Enable	SMD 108-5235●	0.560	0.420	0.360	– –	– –
74HC377N	NXP	20	DIP	Octal D Type Flip/Flop With Enable	380-775●	0.630	0.410	0.290	– –	– –
CD74HC377M.	TI	20	SOIC	Octal D Type Flip/Flop With Enable	SMD 558-801	0.380	0.300	0.270	0.200	0.184
CD74HC377M	TI	20	SOIC	Octal D Type Flip/Flop With Enable	SMD 110-3166●	0.360	0.290	0.240	0.164	0.141
SN74HC377DW	TI	20	SOIC	Octal D Type Flip/Flop With Enable	SMD 959-1494●	0.280	0.185	0.130	– –	– –
SN74HC377N	TI	20	PDIP	Octal D-Type Flip-Flops With Clock Enable	128-7551●	0.250	0.200	0.150	0.107	0.092
74HC390D	NXP	16	SOIC	Dual Decade Ripple Counter	SMD 108-5343●	0.860	0.590	0.370	0.250	– –
74HC390N	NXP	16	DIP	Dual Decade Ripple Counter	380-787●	0.630	0.410	0.290	– –	– –
M74HC390B1R	ST	16	DIP	Dual Decade Ripple Counter	311-3309▲	0.280	0.220	0.210	0.200	0.195
MC74HC390ANG	ON	16	DIP	Dual Decade Ripple Counter	119-1835●	0.350	0.270	0.220	0.139	– –
74HC393D	NXP	14	SOIC	Dual 4 Bit Binary Ripple Counter	SMD 108-5344●	0.380	0.270	0.210	0.200	– –
74HC393N	NXP	14	DIP	Dual 4 Bit Binary Ripple Counter	380-799●	0.540	0.350	0.250	– –	– –
M74HC393B1R	ST	14	DIP	Dual 4 Bit Binary Ripple Counter	311-3802▲	0.650	0.430	0.350	0.270	0.260
M74HC393M1R	ST	14	SOIC	Dual 4 Bit Binary Ripple Counter	SMD 311-4442▲	0.380	0.290	0.230	0.166	0.162
MM74HC393M	FCH	14	SOIC	Dual 4 Bit Binary Ripple Counter	SMD 101-3857●	0.220	0.134	0.106	– –	– –
MM74HC393N	FCH	14	DIP	Dual 4 Bit Binary Ripple Counter	101-3940●	0.500	0.320	0.230	0.168	0.135
SN74HC393D	TI	14	SOIC	Dual 4 Bit Binary Ripple Counter	SMD 959-1508●	0.450	0.310	0.200	– –	– –
SN74HC393N	TI	14	DIP	Dual 4 Bit Binary Ripple Counter	959-1516●	0.260	0.220	0.192	– –	– –
CD74HC423M	TI	16	SOIC	Multivibrator (no trigger from clear)	SMD 110-2950●	0.420	0.310	0.300	– –	– –
74HC540D	NXP	20	SOIC	Octal Buffer and Line DR/RX Inverted	SMD 108-5274●	0.490	0.340	0.270	0.195	– –
74HC540N	NXP	20	DIP	Octal Buffer and Line DR/RX Inverted	380-805●	0.630	0.410	0.290	– –	– –
CD74HC540M	TI	20	SOIC	Octal Buffer and Line DR/RX Inverted	SMD 958-9589●	0.580	0.430	0.310	– –	– –
MC74HC540ANG	ON	20	DIP	Octal 3-State Inverting Buffer	966-5994●	0.520	0.400	0.310	0.210	– –
MM74HC540N	FCH	20	DIP	Octal Buffer and Line DR/RX Inverted	101-3842●	0.260	0.178	0.129	– –	– –
MM74HC540WM	FCH	20	SOIC	Octal Buffer and Line DR/RX Inverted	SMD 101-3978●	0.600	0.520	0.470	0.230	0.200
SN74HC540DW	TI	20	SOIC	Octal Buffer and Line DR/RX Inverted	SMD 959-1540●	0.196	0.163	0.133	– –	– –
SN74HC540N	TI	20	DIP	Octal Buffer and Line DR/RX Inverted	959-1559●	0.490	0.380	0.310	– –	– –
74HC541D	NXP	20	SOIC	Octal Buffer and Line DR/RX Non-Inverting	SMD 120-1325●	0.400	0.250	0.181	0.127	– –
74HC541N	NXP	20	DIP	Octal Buffer and Line DR/RX Non-Inverting	380-817●	0.450	0.290	0.210	– –	– –
CD74HC541M	TI	20	SOIC	Octal Buffer and Line DR/RX Non-Inverting	SMD 958-9597●	0.640	0.470	0.340	– –	– –
MC74HC541ANG	ON	20	DIP	PDIP-20 2-6V Octal, 3-State Non-Inverting	966-6001●	0.780	0.630	0.470	0.340	– –
MM74HC541N	FCH	20	DIP	Octal Buffer and Line DR/RX Non-Inverting	101-3843●	0.240	0.167	0.122	– –	– –
MM74HC541WM	FCH	20	SOIC	Octal Buffer and Line DR/RX Non-Inverting	SMD 101-3979●	0.430	0.300	0.196	0.147	0.109
SN74HC541DW	TI	20	SOIC	Octal Buffer and Line DR/RX Non-Inverting	SMD 959-1567●	0.420	0.290	0.210	– –	– –
SN74HC541PW	TI	20	TSSOP	Octal Buffer and Line DR/RX Non-Inverting	SMD 959-1583●	0.196	0.163	0.133	– –	– –
MM74HC541N	FCH	20	DIP	Octal Buffer and Line DR/RX Non-Inverting	101-3843●	0.240	0.167	0.122	– –	– –
MC74HC541ADTG	ON	20	TSSOP	Octal Buffer/Line Driver (3-State)	SMD 110-4726●	0.770	0.620	0.500	0.350	– –
SN74HC563DW	TI	20	SOIC	Inverted Octal D Type Latch	SMD 959-1591●	0.830	0.640	0.520	– –	– –
M74HC563B1R.	ST	20	DIP	Inverted Octal D Type Latch	311-3814▲	0.440	0.330	0.260	0.136	0.132
M74HC563B1R	ST	20	DIP	Inverted Octal D Type Latch	121-8313●	0.420	0.300	0.230	0.124	0.111
SN74HC573APWR	TI	20	TSSOP	Octal Transparent D-Type Latches With 3-State Outputs	SMD 128-7546● RL	0.490	0.330	0.240	0.168	0.127
74HC573D	NXP	20	SOIC	Octal D Type Latches	SMD 120-1326●	0.400	0.250	0.181	0.127	– –
74HC573N	NXP	20	DIP	Octal D Type Latches	380-829●	0.450	0.290	0.210	– –	– –
CD74HC573M	TI	20	SOIC	Octal D Type Latches	SMD 958-9384●	0.350	0.280	0.210	– –	– –
M74HC573B1R	ST	20	DIP	Octal D Type Latches	109-4306●	0.910	0.640	0.510	0.280	0.230
M74HC573M1R	ST	20	SOIC	Octal D Type Latches	SMD 109-4307●	0.131	0.129	0.126	0.124	0.122
MC74HC573ANG	ON	20	DIP	PDIP-20 2-6V Transparent Non-Inverting	SMD 966-6010●	0.860	0.640	0.470	0.300	– –
MM74HC573N	FCH	20	DIP	Octal D Type Latches	101-3941●	0.450	0.290	0.200	0.151	0.121
MM74HC573WM	FCH	20	SOIC	Octal D Type Latches	SMD 101-3982●	0.350	0.240	0.174	0.122	0.092
SN74HC573ADW	TI	20	SOIC	Octal D Type Latches	SMD 959-1605●	0.490	0.330	0.240	– –	– –
SN74HC573AN	TI	20	DIP	Octal D Type Latches	959-1613●	0.460	0.290	0.210	– –	– –
MC74HC573ADTG	ON	20	TSSOP	Octal D-Type Transparent Latch (3-State)	SMD 110-4727●	0.490	0.370	0.300	0.220	– –
74HC574D	NXP	20	SOIC	Octal D Type Flip/Flop	SMD 108-5345●	0.510	0.420	0.380	0.300	– –
74HC574N	NXP	20	DIP	Octal D Type Flip/Flop	380-830●	0.600	0.410	0.280	– –	– –
CD74HC574M	TI	20	SOIC	Octal D Type Flip/Flop	SMD 110-3174●	0.720	0.460	0.330	0.240	0.194
MC74HC574ANG	ON	20	DIP	PDIP-20 2-6V CMOS, Octal D-Type,Non-Inverting	966-6028●	0.770	0.630	0.460	0.390	– –
MM74HC574N	FCH	20	DIP	Octal D Type Flip/Flop	101-3942●	0.350	0.240	0.174	0.127	0.106
MM74HC574WM	FCH	20	SOIC	Octal D Type Flip/Flop	SMD 101-3983●	0.410	0.270	0.196	0.137	0.104
SN74HC574DW	TI	20	SOIC	Octal D Type Flip/Flop	SMD 959-1621●	0.430	0.270	0.196	– –	– –
SN74HC574N	TI	20	DIP	Octal D Type Flip/Flop	959-1630●	0.450	0.340	0.240	– –	– –
SN74HC574PW	TI	20	SSOP	Octal Edge-Triggered D-Type Flip-Flops With 3-State Outputs	SMD 128-7505●	0.400	0.330	0.250	0.176	0.150
M74HC595RM13TR	ST	16	SOP	8-Bit Log Shift Register	SMD 128-8450● RL	0.550	0.340	0.260	0.230	0.184
M74HC597RM13TR	ST	16	SOP	Log REGISTER, LATCH/SHIFT	SMD 128-8454● RL	0.550	0.340	0.260	0.230	0.184

RL Re-reeling available

74HC High Speed CMOS Logic - continued

Mftrs. List No.	Mftr.	Pins	Pkg	Function	Order Code	Price Each 1+	10+	100+	250+	500+
						MIXED QUANTITY PRICING				
MM74HC589M	FCH	16	SOIC	8 Bit Shift Register With Input Latch	SMC 101-3858●	0.600	0.490	0.340	– –	– –
SN74HC590ADE4	TI	16	SOIC	8-Bit Binary Counters With 3-State Output Registers	123-6228●	0.220	0.141	0.110	0.099	0.097
MM74HC594M	FCH	16	SOIC	8-Bit Shift Register With Output Register	SMC 101-3859●	0.860	0.560	0.440	– –	– –
MM74HC594N	FCH	16	DIP	8-Bit Shift Register With Output Register	101-3844●	0.930	0.600	0.480	– –	– –
SN74HC594DW	TI	16	SOIC	8-Bit Shift Register With Output Register	SMC 959-1648●	0.570	0.360	0.260	– –	– –
74HC595D	NXP	16	SOIC	8 Bit Shift Register With Output Latch	SMC 120-1269●	0.410	0.310	0.260	0.220	– –
74HC595N	NXP	16	DIP	8 Bit Shift Register	316-6028●	0.450	0.290	0.230	– –	– –
MC74HC595ADG	ON	16	SOIC	SOIC-16 8-Bit 3 State Shift	SMC 966-7008●	0.650	0.440	0.310	0.250	– –
MC74HC595ANG	ON	16	DIP	PDIP-16 8-Bit 3 State Shift	966-6036●	0.720	0.490	0.350	0.300	– –
MM74HC595M	FCH	16	SOIC	8 Bit Shift Register With Output Latch	SMC 101-3860●	0.430	0.300	0.196	– –	– –
MM74HC595N	FCH	16	DIP	8 Bit Shift Register With Output Latch	101-3845●	0.490	0.330	0.240	– –	– –
SN74HC595D	TI	16	SOIC	8 Bit Shift Register With Output Latch	SMC 959-1656●	0.490	0.330	0.240	– –	– –
SN74HC595N	TI	16	DIP	8 Bit Shift Register With Output Latch	959-1664●	0.550	0.350	0.250	– –	– –
MC74HC595ADTG	ON	16	TSSOP	8bit Ser-In/Ser or Par-Out Latched Shift Register (3-State)	SMC 110-4728●	0.690	0.550	0.470	0.340	– –
SN74HC595DW	TI	16	SOIC	8bit Shift Register (3-State)	NEW SMC 159-5418●	0.390	0.270	0.194	0.134	0.110
SN74HC646DWR	TI	24	SOIC	Octal Bus Transceivers And Registers With 3-State Outputs	SMC 123-6229● RL	0.760	0.550	0.420	0.350	0.340
74HC688D	NXP	20	SOIC	8 Bit mAgnitude Comparator	SMC 108-5236●	0.510	0.370	0.310	– –	– –
MM74HC688N	FCH	20	DIP	8 Bit mAgnitude Comparator	101-3943●	0.540	0.340	0.250	0.181	0.146
MM74HC688WM	FCH	20	SOIC	8 Bit mAgnitude Comparator	SMC 101-3984●	0.600	0.550	0.520	0.310	0.200
SN74HC688N	TI	20	DIP	8 Bit mAgnitude Comparator	959-1672●	0.830	0.630	0.470	– –	– –
SN74HC688PWT	TI	20	TSSOP	8-Bit IDENTITY/mAGNITUDE COMPARATORS (P=Q) With ENABLE	SMC 123-6230●	0.940	0.680	0.510	0.450	0.390
74HC40103N	NXP	16	DIP	8 Bit Synchronous Binary Down Counter	120-1279●	0.910	0.650	0.490	– –	– –
74HC4017N	NXP	16	DIP	Decade Counter / Divider	120-1278●	0.690	0.490	0.320	– –	– –
M74HC4017B1R	ST	16	DIP	Decade Counter / Divider	109-4301●	0.800	0.550	0.420	0.330	0.260
CD74HC4020M	TI	16	SOIC	74HC High Speed CMOSLogic 14-Stage Binary Counter	SMC 838-9063●	0.220	0.175	0.138	– –	– –
MC74HC4020ANG	ON	16	DIP	14 Bit binary counter	966-5951●	0.240	0.177	0.142	0.125	– –
74HC4024N	NXP	14	DIP	7 Bit Binary Counter	380-878●	0.720	0.450	0.330	– –	– –
74HC4040N	NXP	16	DIP	12 Bit Binary Ripple Counter/Divider	380-880●	0.570	0.360	0.260	– –	– –
MC74HC4040ANG	ON	16	DIP	12 Bit binary counter	966-5960●	0.610	0.430	0.310	0.193	– –
MM74HC4040M	FCH	16	SOIC	12 Bit Binary Ripple Counter/Divider	SMC 101-3985●	0.460	0.320	0.240	0.169	0.128
M74HC4051RM13TR	ST	16	SOP	Log MUX/DEMUX, Single 8 CH	SMC 128-8455● RL	0.350	0.260	0.168	0.155	0.121
SN74HC4040D	TI	16	SOIC	12 Bit Binary Ripple Counter/Divider	SMC 959-1524●	0.490	0.310	0.220	– –	– –
74HC4046AD	NXP	16	SOIC	Phase Locked Loop	SMC 108-5346●	0.610	0.460	0.360	0.290	– –
74HC4046AN	NXP	16	DIP	Phase Locked Loop	380-891●	0.980	0.780	0.590	– –	– –
CD74HC4046AM.	TI	16	SOIC	Phase Locked Loop	SMC 558-837	0.720	0.560	0.530	0.390	0.380
CD74HC4046AM	TI	16	SOIC	Phase Locked Loop	SMC 110-3169●	0.540	0.340	0.250	0.195	0.188
MM74HC4046M	FCH	16	SOIC	Phase Locked Loop	SMC 101-3986●	0.510	0.350	0.250	0.175	0.132
MM74HC4046N..	FCH	16	DIP	Phase Locked Loop	379-074▲	0.440	0.360	0.300	0.200	0.127
MM74HC4046N	FCH	16	DIP	Phase Locked Loop	101-3946●	0.540	0.340	0.250	0.181	0.146
74HC4049N	NXP	16	DIP	Hex Inverting Buffer	121-7205●	0.540	0.340	0.250	– –	– –
MM74HC4049M	FCH	16	SOIC	Hex Inverting Buffer	SMC 101-3861●	0.310	0.183	0.144	– –	– –
MM74HC4049N.	FCH	16	DIP	Hex Inverting Buffer	379-086▲	0.260	0.220	0.170	0.128	0.108
MM74HC4049N	FCH	16	DIP	Hex Inverting Buffer	101-3947●	0.390	0.270	0.193	0.151	0.146
74HC4050D	NXP	16	SOIC	Hex Buffer	SMC 108-5272●	0.290	0.220	0.171	0.136	– –
74HC4050N	NXP	16	DIP	Hex Buffer	380-908●	0.500	0.380	0.310	– –	– –
CD74HC4050M	TI	16	SOIC	74HC High Speed CMOSLogic Hex Non-Inverting Buffers	SMC 164-3824●	0.280	0.230	0.189	– –	– –
MM74HC4050M	FCH	16	SOIC	Hex Buffer	SMC 101-3862●	0.510	0.430	0.310	– –	– –
MM74HC4050N.	FCH	16	DIP	Hex Buffer	379-098▲	0.210	0.169	0.140	0.129	0.126
MM74HC4050N	FCH	16	DIP	Hex Buffer	101-3948●	0.460	0.350	0.300	0.200	0.180
74HC4051D	NXP	16	SOIC	Single 8 Channel Multiplexer	SMC 120-1327●	0.430	0.300	0.193	0.145	– –
74HC4051N	NXP	16	DIP	Single 8 Channel Multiplexer	380-910●	0.490	0.330	0.240	– –	– –
CD74HC4051M	TI	16	SOIC	Single 8 Channel Multiplexer	SMC 110-3170●	0.420	0.290	0.210	0.143	0.108
CD74HC4051PWR	TI	16	TSSOP	74HC High Speed CMOS 8-Channel AnaLog Multiplexer/Demultiplexer	SMC 838-9071● RL	0.310	0.250	0.197	– –	– –
MC74HC4051AN	ON	16	DIP	Single 8 Channel Multiplexer	334-8453▲	0.490	0.330	0.280	0.177	– –
MM74HC4051M	FCH	16	SOIC	Single 8 Channel Multiplexer	SMC 101-3863●	0.470	0.320	0.230	– –	– –
MM74HC4051N.	FCH	16	DIP	Single 8 Channel Multiplexer	354-8650▲	0.220	0.140	0.130	– –	– –
MM74HC4051N	FCH	16	DIP	Single 8 Channel Multiplexer	101-3846●	0.610	0.390	0.280	– –	– –
74HC4052D	NXP	16	SOIC	Differential 4 Channel Multiplexer	SMC 120-1328●	0.380	0.250	0.181	0.127	– –
74HC4052N	NXP	16	DIP	Differential 4 Channel Multiplexer	380-921●	0.490	0.310	0.290	– –	– –
CD74HC4052M..	TI	16	SOIC	Differential 4 Channel Multiplexer	SMC 558-850	0.370	0.290	0.260	0.197	0.188
CD74HC4052M	TI	16	SOIC	Differential 4 Channel Multiplexer	SMC 110-3171●	0.490	0.330	0.240	0.168	0.127
MC74HC4052ADG	ON	16	SOIC	Dual 4 Input anaLogue multiplexer	SMC 966-6974●	0.690	0.560	0.460	0.250	– –
MC74HC4052ANG	ON	16	DIP	Dual 4 Input anaLogue multiplexer	966-4548●	0.280	0.184	0.158	0.153	– –
MM74HC4052M	FCH	16	SOIC	Differential 4 Channel Multiplexer	SMC 101-3866●	0.460	0.300	0.210	– –	– –
MM74HC4052N	FCH	16	DIP	Differential 4 Channel Multiplexer	101-3847●	0.610	0.390	0.280	– –	– –
74HC4053D	NXP	16	SOIC	Triple 2 Channel Multiplexer	SMC 120-1329●	0.410	0.280	0.183	0.137	– –
74HC4053N	NXP	16	DIP	Triple 2 Channel Multiplexer	380-933●	0.490	0.350	0.300	– –	– –
CD74HC4053M	TI	16	SOIC	Triple 2 Channel Multiplexer	SMC 110-3172●	0.390	0.270	0.192	0.134	0.101
MC74HC4053ADG	ON	16	SOIC	Triple 2 Input anaLogue multiplexer	SMC 966-6982●	0.550	0.490	0.380	0.210	– –
MC74HC4053ANG	ON	16	DIP	Triple 2 Input anaLogue multiplexer	966-5978●	0.390	0.300	0.240	0.158	– –
MM74HC4053M	FCH	16	SOIC	Triple 2 Channel Multiplexer	SMC 101-3867●	0.470	0.320	0.230	– –	– –
MM74HC4053N..	FCH	16	DIP	Triple 2 Channel Multiplexer	354-8673▲	0.340	0.220	0.195	– –	– –
MM74HC4053N	FCH	16	DIP	Triple 2 Channel Multiplexer	101-3848●	0.360	0.240	0.178	– –	– –
74HC4060D	NXP	16	SOIC	14 Stage Ripple Carry Binary Counter	SMC 120-1252●	0.510	0.350	0.250	– –	– –
74HC4060N	NXP	16	DIP	14 Stage Ripple Bin. Ctr	380-945●	0.620	0.400	0.280	– –	– –
CD74HC4060M	TI	16	SOIC	74HC High Speed CMOSLogic 14-Stage Binary Counter With Oscillator	SMC 226-0426●	0.430	0.270	0.196	– –	– –
M74HC4060B1R	ST	16	DIP	14 Stage Ripple Carry Binary Counter	311-3863▲	0.410	0.330	0.260	0.188	0.183
MM74HC4060N	FCH	16	DIP	14 Stage Ripple Carry Binary Counter	101-3949●	0.610	0.390	0.280	0.210	0.165
SN74HC4060DBR	TI	16	SSOP	14-Stage Asynchronous Binary Counters And Oscillators	SMC 123-6225● RL	0.330	0.210	0.164	0.138	0.128
SN74HC4060PW	TI	16	TSSOP	14-Stage Asynchronous Binary Counters And Oscillators	SMC 123-6226●	0.320	0.210	0.164	0.133	0.132
74HC4066D	NXP	14	SOIC	Quad Bi-Lateral Switch	SMC 120-1330●	0.510	0.400	0.360	0.210	– –
74HC4066N	NXP	14	DIP	Quad Bi-Lateral Switch	380-957●	0.370	0.290	0.210	– –	– –
CD74HC4066M	TI	14	SOIC	74HC High Speed CMOSLogic Quad Bilateral Switches	SMC 226-0440●	0.310	0.260	0.200	– –	– –
CD74HC4066PW	TI	14	TSSOP	74HC High Speed CMOSLogic Quad Bilateral Switches	SMC 838-9080●	0.270	0.210	0.169	– –	– –
MC74HC4066ADG	ON	14	SOIC	Quad anaLogue switch	SMC 966-6990●	0.490	0.410	0.370	0.250	– –
MM74HC4066N	FCH	14	DIP	Quad Bi-Lateral Switch	101-3950●	0.610	0.390	0.280	0.210	0.165
SN74HC4066PW	TI	14	TSSOP	Quadruple Bilateral AnaLog Switches	SMC 128-7517●	0.250	0.177	0.135	0.107	0.089
CD74HC4075M	TI	14	SOIC	Triple 3 Input OR Gate	SMC 958-9570●	0.430	0.270	0.196	– –	– –
M74HC4075B1R	ST	14	DIP	Triple 3 Input OR Gate	109-4305●	0.480	0.270	0.210	0.130	0.119
M74HC4078B1R	ST	14	DIP	8 Input NOR/OR Gate	975-5527●	0.420	0.330	0.240	0.153	0.145
74HC4094D	NXP	16	SOIC	8 Bit Shift Register/Latch	SMC 120-1331●	0.420	0.280	0.200	0.143	– –
74HC4094N	NXP	16	DIP	8 Bit Shift Register/Latch	380-970●	0.630	0.410	0.290	– –	– –
CD74HC4094M	TI	16	SOIC	8 Bit Shift Register/Latch	SMC 110-3173●	0.430	0.270	0.196	0.145	0.116
MM74HC4316M	FCH	16	SOIC	Quad AnaLogue Switch	SMC 101-3868●	0.480	0.280	0.210	– –	– –
MM74HC4316N	FCH	16	DIP	Quad AnaLogue Switch	379-141▲	0.360	0.230	0.167	0.120	0.117
MM74HC4514N	FCH	24	DIP	4 Bit Latch/4 to 16 Line Decoder (High)	101-3951●	1.010	0.720	0.550	0.410	0.370
MM74HC4514WM	FCH	24	SOIC	4 Bit Latch/4 to 16 Line Decoder (High)	SMC 101-3869●	1.090	0.720	0.520	– –	– –
74HC4520N	NXP	16	DIP	Dual Synchronous Up Counter	381-019●	0.620	0.540	0.480	– –	– –
74HC4538D	NXP	16	SOIC	Dual Monostable Multivibrator	SMC 120-1332●	0.450	0.310	0.240	0.188	– –
74HC4538N	NXP	16	DIP	Dual Monostable Multivibrator	381-020●	0.570	0.360	0.260	– –	– –
CD74HC4538M	TI	16	SOIC	High Speed CMOSLogic Dual Retriggerable Precision Monostable Multivibrators	SMC 164-2820●	0.590	0.410	0.290	– –	– –

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Mftrs. List No.	Mftr.	Pins	Pkg	Function	Order Code	Price Each 1+	10+	100+	250+	500+
						MIXED QUANTITY PRICING				
MC74HC4538ANG	ON	16	DIP	PDIP-16 3-6V Dual Precision MonoStable	966-5986●	0.460	0.340	0.260	0.220	– –
MM74HC4538M	FCH	16	SOIC	Dual Monostable Multivibrator	SMD 101-3987●	0.600	0.520	0.470	0.310	0.220
MM74HC4538N	FCH	16	DIP	Dual Monostable Multivibrator	101-3952●	0.540	0.340	0.250	0.181	0.146
M74HC4543B1R	ST	16	DIP	BCD to 7 Segment Latch/Decoder/Driver for LCDs	975-5535●	0.650	0.410	0.310	0.270	0.220
SN74HC4851D	TI	16	SOIC	8-Channel AnaLog Multiplexer/Demultiplexer	SMD 959-1532●	0.350	0.290	0.240	– –	– –
74HC4017D	NXP	16	SO	Johnson Decade Counter	NEW! SMD 163-1646●	0.370	0.250	0.173	0.122	0.113
M74HC4020B1R	ST	16	DIP	14 Stage Ripple Carry Binary Counter	975-5519●	0.560	0.430	0.370	0.230	0.198
M74HC4020M1R	ST	16	SOIC	14 Stage Ripple Carry Binary Counter	SMD 109-4302●	0.600	0.460	0.370	0.240	0.198
74HC4024D	NXP	14	SO	Binary Ripple Counter	NEW! SMD 163-1669●	0.520	0.350	0.250	0.173	0.139
74HC4520D	NXP	16	SO	Dual 4bit Synchronous Binary Counter	NEW! SMD 163-1662●	0.360	0.260	0.200	– –	– –
M74HC4051RM13TR	ST	16	SOP	Log MUX/DEMUX, Single 8 CH	SMD 128-8455● RL	0.350	0.260	0.168	0.155	0.121
M74HC4052RM13TR	ST	16	SOP	Log MUX/DEMUX, Dual 4 CH	SMD 128-8456● RL	0.300	0.189	0.128	0.118	0.085
M74HC4053RM13TR	ST	16	SOP	Log MUX/DEMUX, Triple 2 CH	SMD 128-8451● RL	0.360	0.230	0.167	0.148	0.114
CD74HC4053PW	TI	16	TSSOP	High Speed CMOS Triple 2-Channel Analog Multiplexers/Demultiplexers	NEW! SMD 159-5410●	0.350	0.250	0.182	0.121	0.085
CD74HC4067SM96	TI	24	SSOP	High Speed CMOS 16-Channel Analog Multiplexer/Demultiplexer	NEW! SMD 160-1157●	0.750	0.490	0.350	0.250	0.194
M74HC4094RM13TR	ST	16	SOP	LogIC SHIFT LATCH REGISTER	SMD 128-8452● RL	0.310	0.220	0.158	0.118	0.106
74HC40103D	NXP	16	SO	Binary Down Counter	NEW! SMD 163-1663●	0.650	0.430	0.310	0.220	0.174
CD74HC40103M	TI	16	SOIC	High Speed CMOS Logic 8-Stage Synchronous Down Counter	NEW! SMD 162-1003●	0.670	0.530	0.390	0.280	0.220

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74HCT High Speed CMOS Logic

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						MIXED QUANTITY PRICING				
74HCT00D	NXP	14	SOIC	Quad 2 Input NAND Gate	SMD 108-5297●	0.380	0.270	0.182	0.143	– –
74HCT00N	NXP	14	DIP	Quad 2 Input NAND Gate	381-755●	0.380	0.250	0.181	– –	– –
CD74HCT00E	TI	14	DIP	Quad 2 Input NAND Gate	110-5962●	0.550	0.360	0.260	0.193	0.155
MM74HCT00M	FCH	14	SOIC	Quad 2 Input NAND Gate	SMD 101-3988● RL	0.250	0.189	0.175	– –	– –
MM74HCT00N	FCH	14	DIP	Quad 2 Input NAND Gate	101-3989●	0.200	0.146	0.114	– –	– –
SN74HCT00D	TI	14	SOIC	Quad 2 Input NAND Gate	SMD 959-1737●	0.270	0.197	0.128	– –	– –
SN74HCT00N	TI	14	DIP	Quad 2 Input NAND Gate	959-1745●	0.210	0.178	0.157	– –	– –
74HCT02D	NXP	14	SOIC	Quad 2 Input Positive NOR Gate	SMD 108-5298●	0.470	0.320	0.230	0.160	– –
74HCT02N	NXP	14	DIP	Quad 2 I/p NOR Gate	381-767●	0.380	0.250	0.181	– –	– –
CD74HCT02E	TI	14	DIP	Quad 2 Input Positive NOR Gate	110-5963●	0.430	0.360	0.260	0.193	0.155
CD74HCT02M	TI	14	SOIC	Quad 2 Input Positive NOR Gate	SMD 110-3127●	0.340	0.250	0.196	0.145	0.116
SN74HCT02D	TI	14	SOIC	Quad 2 Input Positive NOR Gate	SMD 959-1753●	0.270	0.197	0.128	– –	– –
74HCT04D	NXP	14	SOIC	Hex Inverter	SMD 108-5299●	0.380	0.250	0.169	0.115	– –
74HCT04N	NXP	14	DIP	Hex Inverter	381-780●	0.460	0.300	0.210	– –	– –
CD74HCT04E	TI	14	DIP	Hex Inverter	110-5964●	0.430	0.360	0.260	0.193	0.155
SN74HCT04PW	TI	14	PDIP	Hex Inverters	SMD 128-7538●	0.186	0.159	0.119	0.086	0.072
CD74HCT04M	TI	14	SOIC	Hex Inverter	SMD 110-3128●	0.340	0.250	0.196	0.145	0.116
M74HCT04B1R	ST	14	DIP	Hex Inverter	975-5390●	0.270	0.166	0.158	0.109	0.108
MM74HCT04M	FCH	14	SOIC	Hex Inverter	SMD 101-3990●	0.340	0.230	0.157	– –	– –
MM74HCT04N	FCH	14	DIP	Hex Inverter	101-3991●	0.410	0.270	0.196	– –	– –
SN74HCT04D	TI	14	SOIC	Hex Inverter	SMD 959-1761●	0.270	0.197	0.128	– –	– –
SN74HCT04N	TI	14	DIP	Hex Inverter	959-1770●	0.270	0.230	0.185	– –	– –
SN74HCU04D	TI	14	SOIC	Hex Inverter	SMD 959-2148●	0.230	0.189	0.157	– –	– –
MM74HCT05M.	FCH	14	SOIC	Hex Inverter (OC)	SMD 354-8960▲	0.152	0.097	0.077	– –	– –
MM74HCT05M	FCH	14	SOIC	Hex Inverter (OC)	SMD 101-3873●	0.220	0.142	0.110	– –	– –
MM74HCT05N	FCH	14	DIP	Hex Inverter (OC)	101-3870●	0.290	0.189	0.148	– –	– –
74HCT08D	NXP	14	SOIC	Quad 2 Input Positive AND Gate	SMD 108-5301●	0.480	0.390	0.220	0.130	– –
74HCT08N	NXP	14	DIP	Quad 2 I/p AND Gate	381-792●	0.380	0.260	0.170	– –	– –
CD74HCT08E	TI	14	DIP	Quad 2 Input Positive AND Gate	110-5965●	0.260	0.250	0.188	0.138	0.113
SN74HCT08PW	TI	14	SOIC	Quadruple 2-Input Positive-AND GateS	SMD 128-7543●	0.186	0.159	0.119	0.086	0.072
CD74HCT08M.	TI	14	SOIC	Quad 2 Input Positive AND Gate	SMD 539-259	0.168	0.126	0.113	0.084	0.079
CD74HCT08M	TI	14	SOIC	Quad 2 Input Positive AND Gate	SMD 110-3129●	0.430	0.270	0.196	0.145	0.116
M74HCT08B1R	ST	14	DIP	Quad 2 Input Positive AND Gate	311-1325▲	0.240	0.150	0.144	0.097	0.084
MM74HCT08M..	FCH	14	SOIC	Quad 2 Input Positive AND Gate	SMD 572-240▲	0.126	0.095	0.088	– –	– –
MM74HCT08M	FCH	14	SOIC	Quad 2 Input Positive AND Gate	SMD 101-4075●	0.350	0.230	0.157	– –	– –
MM74HCT08N.	FCH	14	DIP	Quad 2 I/p AND Gate	382-784▲	0.140	0.101	0.074	– –	– –
MM74HCT08N	FCH	14	DIP	Quad 2 Input Positive AND Gate	101-3992●	0.190	0.136	0.099	– –	– –
SN74HCT08D	TI	14	SOIC	Quad 2 Input Positive AND Gate	SMD 959-1788●	0.230	0.189	0.157	– –	– –
SN74HCT08N	TI	14	DIP	Quad 2 Input Positive AND Gate	959-1796●	0.210	0.178	0.146	– –	– –
74HCT10D	NXP	14	SOIC	Triple 3 Input Positive NAND Gate	SMD 108-5302●	0.490	0.290	0.210	0.152	– –
74HCT10N	NXP	14	DIP	Triple 3 Input Positive NAND Gate	121-1736●	0.550	0.360	0.300	– –	– –
74HCT10PW	NXP	14	TSSOP	Triple 3-Input NAND Gate	NEW SMD 163-1674●	0.390	0.280	0.194	0.132	0.099
M74HCT10B1R	ST	14	DIP	Triple 3 Input Positive NAND Gate	311-1337▲	0.176	0.145	0.129	0.114	0.099
74HCT14D	NXP	14	SOIC	Hex Schmitt Trigger	SMD 120-1304●	0.340	0.250	0.169	– –	– –
74HCT14N	NXP	14	DIP	Hex Schmitt Trigger	381-822●	0.460	0.320	0.210	– –	– –
CD74HCT14E	TI	14	DIP	Hex Schmitt Trigger	110-5967●	0.380	0.250	0.181	0.118	0.115
CD74HCT14M	TI	14	SOIC	Hex Schmitt Trigger	SMD 110-3130●	0.420	0.290	0.188	0.141	0.105
MC74HCT14ANG	ON	14	DIP	Hex Schmitt Trigger	966-6079●	0.290	0.240	0.169	0.107	– –
MM74HCT14M	FCH	14	SOIC	Hex Schmitt Trigger	SMD 101-3874● RL	0.350	0.230	0.157	– –	– –
MM74HCT14N.	FCH	14	DIP	Hex Schmitt Trigger	354-8946▲	0.300	0.184	0.174	– –	– –
MM74HCT14N	FCH	14	DIP	Hex Schmitt Trigger	101-3871●	0.178	0.109	0.103	– –	– –
SN74HCT14D	TI	14	SOIC	Hex Schmitt Trigger	SMD 959-1842●	0.350	0.240	0.157	– –	– –
SN74HCT14N	TI	14	DIP	Hex Schmitt Trigger	959-1850●	0.420	0.290	0.188	– –	– –
SN74HCT14PWR	TI	14	TSSOP	Hex Schmitt-Trigger Inverters	SMD 128-7559●	0.173	0.149	0.109	0.080	0.068
SN74HCT14PWT	TI	14	TSSOP	Hex Schmitt-Trigger Inverters	SMD 123-6233●	0.550	0.370	0.280	0.240	0.210

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74HCT High Speed CMOS Logic - continued

Mftrs. List No.	Mftr.	Pins	Pkg	Function	Order Code	Price Each 1+	10+	100+	250+	500+
						MIXED QUANTITY PRICING				
74HCT20N	NXP	14	DIP	Dual 4 Input Positive NAND Gate	121-1737	0.420	0.360	0.300	– –	– –
74HCT27PW	NXP	14	TSSOP	Triple 3-Input NOR Gate	NEW SMD 163-1672	0.133	0.092	0.071	– –	– –
74HCT27N	NXP	14	DIP	Triple 3 Input NOR Gate	381-858	0.197	0.163	0.137	– –	– –
74HCT30D	NXP	14	SOIC	8 Input Positive NAND Gate	SMD 108-5303	0.420	0.310	0.210	0.130	– –
74HCT30N	NXP	14	DIP	8 Input Positive NAND Gate	381-860	0.420	0.360	0.300	– –	– –
74HCT30PW	NXP	14	TSSOP	8 Input NAND Gate	NEW SMD 163-1675	0.153	0.112	0.092	– –	– –
74HCT32D	NXP	14	SOIC	Quad 2 Input Positive OR Gate	SMD 120-1305	0.390	0.250	0.220	0.169	– –
74HCT32N	NXP	14	DIP	Quad 2 Input Positive OR Gate	381-871	0.460	0.320	0.210	– –	– –
CD74HCT32E	TI	14	DIP	Quad 2 Input Positive OR Gate	110-5968	0.460	0.360	0.260	0.193	0.155
CD74HCT32M	TI	14	SOIC	Quad 2 Input Positive OR Gate	SMD 110-3132	0.340	0.250	0.196	0.145	0.116
MM74HCT32N.	FCH	14	DIP	Quad 2 I/p OR Gate	382-802▲	0.140	0.101	0.080	– –	– –
MM74HCT32N	FCH	14	DIP	Quad 2 Input Positive OR Gate	101-3995	0.260	0.189	0.148	– –	– –
SN74HCT32NSR	TI	14	SOIC	Quadruple 2-Input Positive-OR GateS	SMD 123-6237 RL	0.126	0.086	0.068	0.055	0.054
SN74HCT32D	TI	14	SOIC	Quad 2 Input Positive OR Gate	SMD 959-1974	0.230	0.189	0.151	– –	– –
SN74HCT32N	TI	14	DIP	Quad 2 Input Positive OR Gate	959-1982	0.149	0.123	0.101	– –	– –
74HCT74D	NXP	14	SOIC	Dual D Type Edge Triggered Flip/Flop	SMD 108-5304	0.380	0.310	0.200	0.162	– –
74HCT74N	NXP	14	DIP	Dual D Type Edge Triggered Flip/Flop	381-901	0.460	0.320	0.210	– –	– –
CD74HCT74E	TI	14	DIP	Dual D Type Edge Triggered Flip/Flop	110-5969	0.290	0.220	0.178	0.150	0.129
CD74HCT74M.	TI	14	SOIC	Dual D Type Edge Triggered Flip/Flop	SMD 539-284	0.197	0.141	0.128	0.092	0.086
CD74HCT74M	TI	14	SOIC	Dual D Type Edge Triggered Flip/Flop	SMD 121-4442	0.340	0.240	0.196	0.145	0.116
MC74HCT74ANG	ON	14	DIP	4-Bit D Latch	966-6087	0.250	0.210	0.157	0.114	– –
MM74HCT74M	FCH	14	SOIC	Dual D Type Edge Triggered Flip/Flop	SMD 101-3996	0.195	0.154	0.144	– –	– –
MM74HCT74N	FCH	14	DIP	Dual D Type Edge Triggered Flip/Flop	101-3997	0.290	0.210	0.175	– –	– –
SN74HCT74D	TI	14	SOIC	Dual D Type Edge Triggered Flip/Flop	SMD 959-2121	0.350	0.240	0.157	– –	– –
SN74HCT74NG4	TI	14	DIP	Dual D Type Edge Triggered Flip/Flop	959-2130	0.220	0.184	0.153	– –	– –
74HCT85N	NXP	16	DIP	4 Bit mAgnitude Comparator	381-925	0.410	0.340	0.310	– –	– –
74HCT85D	NXP	16	SO	4-bit Magnitude Comparator	NEW SMD 163-1650	0.200	0.153	0.112	– –	– –
74HCT86D	NXP	14	SOIC	Quad 2-Input Exclusive OR Gate	SMD 108-5305	0.380	0.240	0.169	0.115	– –
74HCT86N	NXP	14	DIP	Quad 2-Input Exclusive OR Gate	120-1280	0.510	0.350	0.250	– –	– –
CD74HCT86E	TI	14	DIP	Quad 2-Input Exclusive OR Gate	110-5970	0.370	0.260	0.194	0.148	0.125
CD74HCT86M.	TI	14	SOIC	Quad 2-Input Exclusive OR Gate	SMD 539-296	0.176	0.126	0.114	0.082	0.077
CD74HCT86M	TI	14	SOIC	Quad 2-Input Exclusive OR Gate	SMD 110-3133	0.570	0.360	0.260	0.193	0.155
74HCT107N	NXP	14	DIP	Dual J-K Master Slave F/F	381-950	0.360	0.260	0.220	– –	– –
74HCT109N	NXP	16	DIP	Dual J-K Positive Edge Triggered Flip/Flop	381-962	0.440	0.350	0.260	– –	– –
74HCT109D	NXP	16	SO	J-K Flip-Flop	NEW SMD 163-1649	0.200	0.153	0.112	– –	– –
74HCT109PW	NXP	16	TSSOP	J-K Flip-Flop	NEW SMD 163-1677	0.410	0.280	0.194	0.139	0.111
74HCT112D	NXP	16	SO	J-K Flip-Flop	NEW SMD 163-1656	0.480	0.320	0.220	0.159	0.128
74HCT112N	NXP	16	DIP	Dual J-K Neg. Edge Trig. F/F	381-974	0.570	0.450	0.400	– –	– –
74HCT123D	NXP	16	SOIC	Dual One Shot Multivibrator	SMD 108-5306	0.550	0.390	0.240	0.188	– –
74HCT123N	NXP	16	DIP	Dual One Shot Multivibrator	381-986	0.490	0.310	0.220	– –	– –
CD74HCT123E	TI	16	DIP	Dual One Shot Multivibrator	110-5971	0.280	0.194	0.139	0.102	0.089
CD74HCT123M	TI	16	SOIC	Dual One Shot Multivibrator	SMD 110-3134	0.430	0.270	0.196	0.145	0.116
74HCT125D	NXP	14	SOIC	Tri-State Quad Buffer	SMD 120-1306	0.350	0.240	0.157	0.118	– –
74HCT125N	NXP	14	DIP	Tri-State Quad Buffer	381-998	0.410	0.280	0.200	– –	– –
CD74HCT125E	TI	14	DIP	Tri-State Quad Buffer	110-5973	0.390	0.270	0.194	0.148	0.116
CD74HCT125M.	TI	14	SOIC	Tri-State Quad Buffer	SMD 539-314	0.260	0.188	0.168	0.123	0.119
CD74HCT125M	TI	14	SOIC	Tri-State Quad Buffer	SMD 110-3135	0.570	0.360	0.260	0.193	0.155
SN74HCT125D	TI	14	SOIC	Tri-State Quad Buffer	SMD 959-1800	0.380	0.260	0.172	– –	– –
CD74HCT126E	TI	14	DIP	Tri-State Quad Buffer	110-5974	0.470	0.300	0.220	0.159	0.128
74HCT132D	NXP	14	SOIC	Quad Schmitt Trigger	SMD 108-5307	0.410	0.280	0.180	0.135	– –
74HCT132N	NXP	14	DIP	Quad Schmitt Trigger	382-012	0.410	0.280	0.200	– –	– –
CD74HCT132E	TI	14	DIP	Quad Schmitt Trigger	110-5975	0.460	0.300	0.220	0.159	0.128
74HCT138D	NXP	16	SOIC	Expandable 3/8 Decoder	SMD 120-1307	0.410	0.280	0.180	0.135	– –
74HCT138N	NXP	16	DIP	Expandable 3/8 Decoder	382-024	0.410	0.280	0.220	– –	– –
CD74HCT138E	TI	16	DIP	Expandable 3/8 Decoder	110-5976	0.370	0.260	0.197	0.159	0.135
CD74HCT138M	TI	16	SOIC	Expandable 3/8 Decoder	SMD 110-3137	0.570	0.360	0.260	0.193	0.155
M74HCT138B1R	ST	16	DIP	Expandable 3/8 Decoder	975-5403	0.420	0.300	0.210	0.164	0.146
MC74HCT138ANG	ON	16	DIP	3-8 Line decoder/Multiplexer	966-6060	0.330	0.290	0.210	0.132	– –
MM74HCT138M	FCH	16	SOIC	Expandable 3/8 Decoder	SMD 101-3998	0.350	0.290	0.280	– –	– –
MM74HCT138N	FCH	16	DIP	Expandable 3/8 Decoder	101-3999	0.450	0.290	0.200	– –	– –
SN74HCT138NSR	TI	16	SOIC	3-Line To 8-Line Decoder/Demultiplexer	SMD 123-6232 RL	0.194	0.135	0.096	0.077	0.075
SN74HCT138D	TI	16	SOIC	Expandable 3/8 Decoder	SMD 959-1818	0.340	0.250	0.168	– –	– –
SN74HCT138NG4	TI	16	DIP	Expandable 3/8 Decoder	959-1826	0.280	0.220	0.176	– –	– –
74HCT139D	NXP	16	SOIC	Dual 2 to 4 Decoder Demultiplexer	SMD 108-5308	0.410	0.300	0.210	0.169	– –
74HCT139N	NXP	16	DIP	Dual 2 to 4 Decoder Demultiplexer	382-036	0.440	0.300	0.260	– –	– –
CD74HCT139E	TI	16	DIP	Dual 2 to 4 Decoder Demultiplexer	110-5977	0.400	0.270	0.194	0.148	0.116
SN74HCT139D	TI	16	SOIC	Dual 2 to 4 Decoder Demultiplexer	SMD 959-1834	0.350	0.270	0.196	– –	– –
74HCT151D	NXP	16	SOIC	8 Line Multiplexer	SMD 108-5309	0.530	0.380	0.220	0.188	– –
74HCT151N	NXP	16	DIP	8 Line Multiplexer	382-050	0.470	0.370	0.270	– –	– –
74HCT151PW	NXP	16	TSSOP	8 Input Multiplexer	NEW SMD 163-1679	0.500	0.340	0.240	0.168	0.136
74HCT153N	NXP	16	DIP	Dual 4 Input Multiplexer	382-061	0.620	0.470	0.370	– –	– –
74HCT153D	NXP	16	SO	Dual 4-Input Multiplexer	NEW SMD 163-1651	0.400	0.280	0.194	0.133	0.100
74HCT153PW	NXP	16	TSSOP	Dual 4-Input Multiplexer	NEW SMD 163-1680	0.500	0.340	0.240	0.168	0.136
74HCT154N	NXP	24	DIP	4 Line to 16 Line Decoder Demultiplexer	382-073	0.960	0.680	0.540	– –	– –
74HCT157D	NXP	16	SOIC	Quad 2 Input Multiplexer	SMD 120-1308	0.320	0.240	0.129	0.108	– –
74HCT157N	NXP	16	DIP	Quad 2 Input Multiplexer	121-1738	0.580	0.370	0.270	– –	– –
CD74HCT157M	TI	16	SOIC	Quad 2 Input Multiplexer	SMD 121-4443	0.350	0.250	0.200	0.139	0.134
SN74HCT157D	TI	16	SOIC	Quad 2 Input Multiplexer	SMD 959-1869	0.340	0.220	0.158	– –	– –
74HCT161D	NXP	16	SOIC	Synchronous 4 Bit Binary Counter	SMD 108-5312	0.550	0.370	0.270	0.260	– –
74HCT161N	NXP	16	DIP	Synchronous 4 Bit Binary Counter	382-115	0.490	0.370	0.340	– –	– –
CD74HCT163E	TI	16	DIP	Binary Synchronous 4 Bit Counter	110-5979	0.270	0.197	0.148	0.109	0.094
74HCT164N	NXP	14	DIP	8 Bit Serial In/Parallel Out Shift Register	120-1282	0.540	0.350	0.250	– –	– –
CD74HCT164E	TI	14	DIP	8 Bit Serial In/Parallel Out Shift Register	110-5981	0.470	0.300	0.220	0.159	0.128
CD74HCT164M	TI	14	SOIC	8 Bit Serial In/Parallel Out Shift Register	SMD 121-4444	0.430	0.270	0.196	0.145	0.116
MM74HCT164M	FCH	14	SOIC	8 Bit Serial In/Parallel Out Shift Register	SMD 101-3875	0.470	0.310	0.240	– –	– –
MM74HCT164N	FCH	14	DIP	8 Bit Serial In/Parallel Out Shift Register	101-3872	0.440	0.260	0.250	– –	– –
74HCT165D	NXP	16	SOIC	8 Bit Parallel In/Serial Out Shift Register	SMD 120-1266	0.490	0.320	0.230	0.167	– –
74HCT165N	NXP	16	DIP	8 Bit Parallel In/Serial Out Shift Register	382-140	0.540	0.350	0.300	– –	– –
CD74HCT165E	TI	16	DIP	8 Bit Parallel In/Serial Out Shift Register	110-5982	0.470	0.300	0.220	0.159	0.128
CD74HCT165M.	TI	16	SOIC	8 Bit Parallel In/Serial Out Shift Register	SMD 539-375	0.310	0.270	0.230	0.190	0.150
CD74HCT165M	TI	16	SOIC	8 Bit Parallel In/Serial Out Shift Register	SMD 110-3138	0.430	0.270	0.196	0.145	0.116
74HCT166N	NXP	16	DIP	8 Bit Parallel In/Serial Out Shift Register	382-152	0.800	0.590	0.390	– –	– –
74HCT166D	TI	16	SO	Shift Register	NEW SMD 163-1653	0.240	0.163	0.133	– –	– –
CD74HCT174E	TI	16	DIP	Hex D Type Flip/Flop With Clear	110-5983	0.450	0.300	0.220	0.159	0.128
CD74HCT174M.	TI	16	SOIC	Hex D Type Flip/Flop With Clear	SMD 539-387	0.260	0.194	0.187	0.137	0.131
CD74HCT174M	TI	16	SOIC	Hex D Type Flip/Flop With Clear	SMD 110-3139	0.410	0.270	0.196	0.145	0.116
CD74HCT175E..	TI	16	DIP	Quad D Type Edge Triggered Flip/Flop	381-366	0.192	0.138	0.126	0.101	0.096
CD74HCT175E	TI	16	DIP	Quad D Type Edge Triggered Flip/Flop	110-5984	0.370	0.280	0.220	0.159	0.128
74HCT193N	NXP	16	DIP	Synchronous Binary Up/Down Counter	382-218	0.620	0.480	0.460	– –	– –

RL Re-reeling available

Mftrs. List No.	Mftr.	Pins	Pkg	Function	Order Code	Price Each 1+	10+	100+	250+	500+
						MIXED QUANTITY PRICING				
74HCT193D	NXP	16	SO	Binary Up/Down Counter	NEW SMD 163-1657 ●	0.620	0.420	0.300	0.210	0.169
74HCT221D	NXP	16	SOIC	Dual Monostable Multivibrator With Clear	SMD 108-5313 ●	0.740	0.540	0.370	0.290	– –
74HCT221N	NXP	16	DIP	Dual Monostable Multivibrator With Clear	120-1283 ●	0.600	0.510	0.420	– –	– –
MC74HCT244ANG	ON	20	DIP	Octal Buffer/Line Driver (3-State)	110-4710 ●	0.580	0.520	0.460	0.380	– –
74HCT238N	NXP	16	DIP	3 to 8 Line Non-Inverting Decoder	382-231 ●	0.680	0.540	0.490	– –	– –
CD74HCT238M	TI	16	SOIC	3 to 8 Line Non-Inverting Decoder	SMD 121-2768 ●	0.540	0.340	0.250	0.181	0.146
74HCT238D	TI	16	SO	3-to-8 Line Decoder/Demultiplexer	NEW SMD 163-1655 ●	0.400	0.270	0.194	0.135	0.108
74HCT240N	NXP	20	DIP	Octal Tri-State Inverter Buffer	382-243 ●	0.450	0.310	0.250	– –	– –
MM74HCT240N.	FCH	20	DIP	Octal Tri-State Inverter Buffer	382-991 ▲	0.186	0.159	0.133	– –	– –
MM74HCT240N	FCH	20	DIP	Octal Tri-State Inverter Buffer	101-4000 ●	0.290	0.240	0.210	– –	– –
MM74HCT240WM	FCH	20	SOIC	Octal Tri-State Inverter Buffer	SMD 101-3878 ●	0.470	0.280	0.210	– –	– –
SN74HCT240DW	TI	20	SOIC	Octal Tri-State Inverter Buffer	SMD 959-1877 ●	0.490	0.330	0.240	– –	– –
SN74HCT240N	TI	20	DIP	Octal Tri-State Inverter Buffer	959-1885 ●	0.430	0.320	0.230	– –	– –
74HCT241N	NXP	20	DIP	Octal Tri-State Buffer	120-1284 ●	0.188	0.141	0.115	– –	– –
74HCT241D	NXP	20	SO	Octal Buffer/Line Driver (3-State)	NEW SMD 163-1670 ●	0.200	0.153	0.112	– –	– –
74HCT241PW	NXP	20	TSSOP	Octal Buffer/Line Driver (3-State)	NEW SMD 163-1671 ●	0.200	0.153	0.112	– –	– –
74HCT244D	NXP	20	SOIC	Octal Tri-State Buffer	SMD 108-5314 ●	0.460	0.340	0.300	0.230	– –
74HCT244N	NXP	20	DIP	Octal Tri-State Buffer	382-267 ●	0.450	0.360	0.340	– –	– –
CD74HCT244E..	TI	20	DIP	Octal Tri-State Buffer	381-421	0.280	0.200	0.184	0.132	0.132
CD74HCT244E	TI	20	DIP	Octal Tri-State Buffer	110-5985 ●	0.850	0.550	0.390	0.290	0.230
CD74HCT244M	TI	20	SOIC	Octal Tri-State Buffer	SMD 110-3140 ●	0.680	0.430	0.310	0.230	0.184
M74HCT244B1R.	ST	20	DIP	Octal Tri-State Buffer	311-1398 ▲	0.480	0.420	0.350	0.280	0.230
MM74HCT244N	FCH	20	DIP	Octal Tri-State Buffer	101-4001 ●	0.510	0.350	0.250	– –	– –
MM74HCT244WM	FCH	20	SOIC	Octal Tri-State Buffer	SMD 101-4002 ●	0.410	0.290	0.191	– –	– –
SN74HCT244DW	TI	20	SOIC	Octal Tri-State Buffer	SMD 959-1893 ●	0.450	0.300	0.220	– –	– –
SN74HCT244NG4	TI	20	DIP	Octal Tri-State Buffer	959-1907 ●	0.510	0.420	0.330	– –	– –
SN74HCT244PW	TI	20	TSSOP	Octal Tri-State Buffer	SMD 959-1915 ●	0.420	0.340	0.310	– –	– –
SN74HCT244PWG4	TI	20	TSSOP	Octal Buffer/Line Driver (3-State)	123-6235 ●	0.320	0.210	0.163	0.131	0.119
MC74HCT244ADWG	ON	16	SOIC	Octal 3-State Non-Inverting Buffer/Line Driver/Line Receiver	NEW SMD 160-7614 ●	0.400	0.270	0.210	– –	– –
MC74HCT245ANG	ON	20	DIP	Octal Tri-State Transceiver	119-1836 ●	0.520	0.410	0.310	0.270	– –
74HCT245D	NXP	20	SOIC	Octal Tri-State Transceiver	SMD 108-5315 ●	0.380	0.250	0.181	0.127	– –
74HCT245N	NXP	20	DIP	Octal Tri-State Transceiver	382-279 ●	0.450	0.360	0.340	– –	– –
CD74HCT245E	TI	20	DIP	Octal Tri-State Transceiver	110-5986 ●	0.850	0.550	0.390	0.290	0.230
CD74HCT245M..	TI	20	SOIC	Octal Tri-State Transceiver	SMD 539-442	0.240	0.165	0.155	0.115	0.110
CD74HCT245M	TI	20	SOIC	Octal Tri-State Transceiver	SMD 110-3141 ●	0.680	0.430	0.310	0.230	0.184
MC74HCT273ANG	ON	20	DIP	Octal D Type Flip/Flop With Clear	119-1837 ●	0.680	0.580	0.480	0.310	– –
MM74HCT245N	FCH	20	DIP	Octal Tri-State Transceiver	101-4003 ●	0.420	0.320	0.260	– –	– –
SN74HCT245NSR	TI	20	SOIC	Octal Bus Transceivers With 3-State Outputs	SMD 123-6236 ● RL	0.220	0.164	0.123	0.104	0.102
SN74HCT245PW	TI	20	TSSOP	Octal Bus Transceivers With 3-State Outputs	SMD 128-7512 ●	0.330	0.250	0.191	0.155	0.138
MM74HCT245WM	FCH	20	SOIC	Octal Tri-State Transceiver	SMD 101-4004 ●	0.410	0.310	0.200	– –	– –
SN74HCT245DW	TI	20	SOIC	Octal Tri-State Transceiver	SMD 959-1923 ●	0.470	0.320	0.230	– –	– –
SN74HCT245N	TI	20	DIP	Octal Tri-State Transceiver	959-1931 ●	0.430	0.280	0.198	– –	– –
74HCT257D	NXP	16	SO	Quad 2-Input Multiplexer (3-State)	NEW SMD 163-1654 ●	0.240	0.163	0.133	– –	– –
74HCT257N	NXP	16	DIP	Tri-State Quad 2 Input Multiplexer	382-280 ●	0.270	0.200	0.173	– –	– –
CD74HCT259E	TI	16	DIP	8 Bit Addressable Latch	121-4402 ●	0.550	0.350	0.250	0.186	0.149
CD74HCT259M	TI	16	SOIC	8 Bit Addressable Latch	SMD 958-9600 ●	0.520	0.400	0.310	– –	– –
74HCT273N	NXP	20	DIP	Octal D Type Flip/Flop With Clear	382-309 ●	0.510	0.350	0.310	– –	– –
CD74HCT273E	TI	20	DIP	Octal D Type Flip/Flop With Clear	110-5987 ●	0.850	0.550	0.390	0.290	0.230
CD74HCT273M	TI	20	SOIC	Octal D Type Flip/Flop With Clear	SMD 110-3142 ●	0.680	0.430	0.310	0.230	0.184
MM74HCT273N.	FCH	20	DIP	Octal D Type Flip/Flop With Clear	383-089 ▲	0.210	0.178	0.140	– –	– –
MM74HCT273N	FCH	20	DIP	Octal D Type Flip/Flop With Clear	101-4005 ●	0.510	0.350	0.250	– –	– –
MM74HCT273WM	FCH	20	SOIC	Octal D Type Flip/Flop With Clear	SMD 101-3876 ●	0.330	0.280	0.200	– –	– –
SN74HCT273DW	TI	20	SOIC	Octal D Type Flip/Flop With Clear	SMD 959-1940 ●	0.420	0.290	0.210	– –	– –
SN74HCT273N	TI	20	DIP	Octal D Type Flip/Flop With Clear	959-1958 ●	0.310	0.270	0.240	– –	– –
SN74HCT273PW	TI	20	TSSOP	Octal D Type Flip/Flop With Clear	SMD 959-1966 ●	0.450	0.350	0.310	– –	– –
74HCT367N	NXP	16	DIP	Tri-State Hex Buffer	382-346 ●	0.630	0.410	0.290	– –	– –
74HCT367D	NXP	16	SO	Hex Buffer/Line Driver (3-State)	NEW SMD 163-1659 ●	0.360	0.240	0.173	0.130	0.126
74HCT373N	NXP	20	DIP	Tri-State Octal Transparent Latch	382-358 ●	0.490	0.310	0.230	– –	– –
CD74HCT373E	TI	20	DIP	Tri-State Octal Transparent Latch	110-5988 ●	0.810	0.550	0.390	0.290	0.230
CD74HCT373M	TI	20	SOIC	Tri-State Octal Transparent Latch	SMD 110-3144 ●	0.550	0.380	0.350	0.280	0.260
MC74HCT373AN	ON	20	DIP	Tri-State Octal Transparent Latch	701-750 ▲	0.640	0.540	0.480	0.300	– –
MM74HCT373N	FCH	20	DIP	Tri-State Octal Transparent Latch	101-4007 ●	0.330	0.250	0.230	– –	– –
MM74HCT373WM	FCH	20	SOIC	Tri-State Octal Transparent Latch	SMD 101-4008 ●	0.430	0.260	0.250	– –	– –
SN74HCT373DW	TI	20	SOIC	Tri-State Octal Transparent Latch	SMD 959-1990 ●	0.490	0.330	0.240	– –	– –
SN74HCT373N	TI	20	DIP	Tri-State Octal Transparent Latch	959-2008 ●	0.250	0.200	0.159	– –	– –
74HCT374D	NXP	20	SOIC	Tri-State Octal D Flip/Flop	SMD 108-5316 ●	0.350	0.240	0.174	0.122	– –
74HCT374N	NXP	20	DIP	Tri-State Octal D Flip/Flop	382-360 ●	0.490	0.340	0.330	– –	– –
CD74HCT374E	TI	20	DIP	Tri-State Octal D Flip/Flop	110-5989 ●	0.460	0.290	0.210	0.155	0.151
MM74HCT374N	FCH	20	DIP	Tri-State Octal D Flip/Flop	101-4009 ●	0.510	0.350	0.250	– –	– –
MM74HCT374WM	FCH	20	SOIC	Tri-State Octal D Flip/Flop	SMD 101-4010 ●	0.380	0.260	0.240	– –	– –
SN74HCT374DW	TI	20	SOIC	Tri-State Octal D Flip/Flop	SMD 959-2016 ●	0.470	0.350	0.250	– –	– –
SN74HCT374N	TI	20	DIP	Tri-State Octal D Flip/Flop	959-2024 ●	0.340	0.280	0.220	– –	– –
SN74HCT374PW	TI	20	TSSOP	Octal D-Type Edge-Triggered Flip-Flops With 3-State Outputs	SMD 123-6238 ●	0.290	0.192	0.140	0.110	0.107
74HCT393D	NXP	14	SOIC	Dual 4 Bit Binary Ripple Counter	SMD 108-5317 ●	0.440	0.300	0.196	0.133	– –
74HCT393N	NXP	14	DIP	Dual 4 Bit Binary Ripple Counter	382-395 ●	0.200	0.112	0.103	– –	– –
CD74HCT393E..	TI	14	DIP	Dual 4 Bit Binary Ripple Counter	381-548	0.270	0.200	0.181	0.137	0.131
CD74HCT393E	TI	14	DIP	Dual 4 Bit Binary Ripple Counter	110-5990 ●	0.290	0.197	0.157	0.126	0.121
SN74HCT573DBR	TI	20	SSOP	Octal Transparent D-Type Latch (3-State)	NEW SMD 160-1168 ●	0.520	0.330	0.250	0.171	0.134
74HCT540D	NXP	20	SOIC	Octal Buffer and Line DR/RX Inverted	SMD 108-5318 ●	0.490	0.320	0.230	0.167	– –
74HCT540N	NXP	20	DIP	Octal Buffer and Line DR/RX Inverted	382-413 ●	0.300	0.220	0.200	– –	– –
CD74HCT540E	TI	20	DIP	Octal Buffer and Line DR/RX Inverted	110-5992 ●	0.390	0.280	0.260	0.194	0.155
MM74HCT540N.	FCH	20	DIP	Octal Buffer and Line DR/RX Inverted	383-156 ▲	0.280	0.230	0.220	– –	– –
MM74HCT540N	FCH	20	DIP	Octal Buffer and Line DR/RX Inverted	101-4011 ●	0.530	0.460	0.390	– –	– –
MM74HCT540WM	FCH	20	SOIC	Octal Buffer and Line DR/RX Inverted	SMD 101-3879 ●	0.560	0.490	0.310	– –	– –
SN74HCT540DW	TI	20	SOIC	Octal Buffer and Line DR/RX Inverted	SMD 959-2032 ●	0.450	0.300	0.220	– –	– –
SN74HCT540N	TI	20	DIP	Octal Buffer and Line DR/RX Inverted	959-2040 ●	0.350	0.300	0.230	– –	– –
74HCT541D	NXP	20	SOIC	Octal Buffer and Line DR/RX Non-Inverting	SMD 108-5319 ●	0.380	0.250	0.181	0.127	– –
74HCT541N	NXP	20	DIP	Octal Buffer and Line DR/RX Non-Inverting	382-425 ●	0.490	0.330	0.240	– –	– –
CD74HCT541E	TI	20	DIP	Octal Buffer and Line DR/RX Non-Inverting	110-5993 ●	0.850	0.550	0.390	0.290	0.230
MM74HCT541N	FCH	20	DIP	Octal Buffer and Line DR/RX Non-Inverting	101-4012 ●	0.450	0.290	0.200	– –	– –
MM74HCT541WM..	FCH	20	SOIC	Octal Buffer and Line DR/RX Non-Inverting	SMD 383-170 ▲	0.230	0.210	0.152	– –	– –
MM74HCT541WM	FCH	20	SOIC	Octal Buffer and Line DR/RX Non-Inverting	SMD 101-4013 ●	0.167	0.154	0.110	– –	– –
SN74HCT541DW	TI	20	SOIC	Octal Buffer and Line DR/RX Non-Inverting	SMD 959-2059 ●	0.430	0.290	0.210	– –	– –
SN74HCT541N	TI	20	DIP	Octal Buffer and Line DR/RX Non-Inverting	959-2067 ●	0.430	0.280	0.198	– –	– –
SN74HCT541PW	TI	20	TSSOP	Octal Buffer and Line DR/RX Non-Inverting	SMD 959-2075 ●	0.420	0.350	0.280	– –	– –
CD74HCT563M	TI	20	SOIC	74HCT, High-Speed CMOSLogic Octal Inverting transparent Latch, Three-State Outputs	SMD 838-9136 ●	0.380	0.320	0.250	– –	– –
74HCT573D	NXP	20	SOIC	Octal D Type Latches	SMD 120-1309 ●	0.390	0.250	0.181	0.130	– –
74HCT573N	NXP	20	DIP	Octal D Type Latches	382-449 ●	0.490	0.340	0.290	– –	– –
CD74HCT573E	TI	20	DIP	Octal D Type Latches	110-5994 ●	0.850	0.550	0.390	0.290	0.230
CD74HCT573M	TI	20	SOIC	Octal D Type Latches	SMD 110-3145 ●	0.580	0.410	0.300	0.230	0.184
M74HCT573B1R	ST	20	DIP	Octal D Type Latches	109-4314 ●	0.620	0.440	0.310	0.260	0.200

RL Re-reeling available

Farnell

74HCT High Speed CMOS Logic - continued

74HCT High Speed CMOS Logic - continued

Mftrs. List No.	Mftr.	Pins	Pkg	Function	Order Code	Price Each 1+	10+	100+	250+	500+
						MIXED QUANTITY PRICING				
MC74HCT573ANG	ON	20	DIP	Octal D Type Latches	119-1838	0.760	0.620	0.490	0.390	– –
MM74HCT573N	FCH	20	DIP	Octal D Type Latches	101-4077	0.260	0.210	0.157	– –	– –
MM74HCT573WM	FCH	20	SOIC	Octal D Type Latches	SMD 101-4076 RL	0.540	0.490	0.390	– –	– –
SN74HCT573DW	TI	20	SOIC	Octal D Type Latches	SMD 959-2083	0.510	0.350	0.250	– –	– –
SN74HCT573N	TI	20	DIP	Octal D Type Latches	959-2091	0.430	0.310	0.230	– –	– –
74HCT574D	NXP	20	SOIC	Octal D Type Flip/Flop	SMD 108-5320	0.380	0.250	0.181	0.127	– –
74HCT574N	NXP	20	DIP	Octal D Type Flip/Flop	382-450	0.490	0.350	0.310	– –	– –
CD74HCT574E	TI	20	DIP	Octal D Type Flip/Flop	110-5995	0.850	0.550	0.390	0.290	0.230
CD74HCT574M	TI	20	SOIC	Octal D Type Flip/Flop	SMD 110-3146	0.470	0.340	0.310	0.260	0.250
MM74HCT574N	FCH	20	DIP	Octal D Type Flip/Flop	101-4014	0.520	0.430	0.340	– –	– –
MM74HCT574WM	FCH	20	SOIC	Octal D Type Flip/Flop	SMD 101-4015	0.540	0.490	0.390	– –	– –
SN74HCT574DW	TI	20	SOIC	Octal D Type Flip/Flop	SMD 959-2105	0.460	0.300	0.210	– –	– –
SN74HCT574N	TI	20	DIP	Octal D Type Flip/Flop	959-2113	0.450	0.330	0.230	– –	– –
74HCT640N	NXP	20	DIP	Octal Bus Transceiver	382-474	0.770	0.620	0.420	– –	– –
74HCT688D	NXP	20	SOIC	8 Bit mAgnitude Comparator	SMD 108-5321	0.540	0.370	0.280	0.210	– –
74HCT688N	NXP	20	DIP	8 Bit mAgnitude Comparator	382-504	0.680	0.520	0.420	– –	– –
CD74HCT688M	TI	20	SOIC	8 Bit mAgnitude Comparator	SMD 110-3147	0.550	0.390	0.280	0.210	0.194
CD74HCT4024M	TI	14	SOIC	High Speed CMOS Logic 7-Stage Binary Ripple Counter	NEW SMD 162-1009	0.420	0.330	0.240	0.162	0.113
74HCT4040N	NXP	16	DIP	12 Bit Binary Ripple Counter/Divider	382-553	0.590	0.380	0.270	– –	– –
CD74HCT4040M	TI	16	SOIC	12 Bit Binary Ripple Counter/Divider	SMD 110-3148	0.500	0.360	0.260	0.193	0.155
74HCT4046AD	NXP	16	SOIC	Phase Locked Loop	SMD 108-5322	0.690	0.510	0.420	0.330	– –
74HCT4046AN	NXP	16	DIP	Phase Locked Loop	382-565	1.840	1.280	0.870	– –	– –
74HCT4051D.	NXP	16	SOIC	Single 8 Channel Multiplexer	SMD 492-140	0.400	0.290	0.196	0.135	– –
74HCT4051D	NXP	16	SOIC	Single 8 Channel Multiplexer	SMD 108-5324	0.680	0.480	0.340	0.230	– –
74HCT4051N	NXP	16	DIP	Single 8 Channel Multiplexer	382-577	0.960	0.650	0.470	– –	– –
74HCT4053D	NXP	16	SOIC	Triple 2 Channel Multiplexer	SMD 108-5325	0.680	0.480	0.340	0.230	– –
74HCT4053N	NXP	16	DIP	Triple 2 Channel Multiplexer	382-590	0.720	0.520	0.460	– –	– –
CD74HCT4053M.	TI	16	SOIC	Triple 2 Channel Multiplexer	SMD 539-582	0.320	0.260	0.240	0.177	0.161
CD74HCT4053M	TI	16	SOIC	Triple 2 Channel Multiplexer	SMD 110-3149	0.340	0.270	0.250	0.197	0.180
74HCT4060N	NXP	16	DIP	14 Stage Ripple Carry Binary Counter	382-607	0.520	0.390	0.250	– –	– –
74HCT4060D	NXP	16	SO	Binary Ripple Counter	NEW SMD 163-1660	0.340	0.250	0.194	– –	– –
74HCT4066D	NXP	14	SOIC	Quad Bi-Lateral Switch	SMD 120-1271	0.420	0.310	0.280	0.188	– –
74HCT4066N	NXP	14	DIP	Quad Bi-Lateral Switch	120-1285	0.370	0.300	0.176	– –	– –
CD74HCT4066M	TI	14	SOIC	Quad Bi-Lateral Switch	SMD 110-3150	0.450	0.310	0.200	0.151	0.118
74HCT4094D	NXP	16	SOIC	8 Bit Shift Register/Latch	SMD 108-5326	0.910	0.660	0.430	0.330	– –
74HCT4094N	NXP	16	DIP	8 Bit Shift Register/Latch	382-632	1.230	0.890	0.550	– –	– –
74HCT4511N	NXP	16	DIP	BCD to 7 Segment Decoder Driver	382-668	1.260	0.950	0.590	– –	– –
74HCT4538N	NXP	16	DIP	Dual Monostable Multivibrator	382-693	1.130	0.910	0.560	– –	– –
CD74HCT4538M	TI	16	SOIC	Dual Monostable Multivibrator	SMD 110-3151	0.650	0.410	0.290	0.220	0.175
74HCT4538D	NXP	16	SO	Monostable Multivibrator	NEW SMD 163-1658	0.400	0.270	0.184	0.132	0.120
CD74HCT7046AE	TI	16	DIP	Phase Locked Loop with Lock Detector	110-5996	1.520	1.110	1.040	0.880	0.840

MIXED QUANTITY PRICING Purchase mixed products within the same family and benefit from a lower price on the total quantity ordered

74AHC Advanced High Speed CMOS Logic

74AHC Advanced High Speed CMOS Logic

411409

Mftrs. List No.	Mftr.	Pins	Pkg	Function	Order Code	Price Each 1+	10+	100+
						MIXED QUANTITY PRICING		
SN74AHC00D	TI	14	SOIC	Quad 2 Input NAND Gate	SMD 959-0439	0.153	0.125	0.111
SN74AHC00PW	TI	14	TSSOP	Quad 2 Input NAND Gate	SMD 959-0447	0.100	0.081	0.071
SN74AHC02D	TI	14	SOIC	Quadruple 2-Input Positive-NOR GateS	SMD 128-7451	0.240	0.200	0.151
SN74AHC02PW	TI	14	TSSOP	Quad 2 Input Positive NOR Gate	SMD 959-0455	0.139	0.113	0.101
SN74AHC04D	TI	14	SOIC	Hex Inverters	SMD 128-7462	0.186	0.159	0.119
SN74AHC04PW	TI	14	TSSOP	Hex Inverters	SMD 128-7459	0.169	0.145	0.108
SN74AHC08D	TI	14	SOIC	Quadruple 2-Input Positive-AND GateS	SMD 128-7494	0.240	0.200	0.151
SN74AHC08PW	TI	14	TSSOP	Quad 2 Input Positive AND Gate	SMD 959-0463	0.139	0.113	0.101
SN74AHC14D	TI	14	SOIC	Hex Schmitt Trigger	SMD 959-0501	0.103	0.084	0.074
SN74AHC14PW	TI	14	TSSOP	Hex Schmitt Trigger	SMD 959-0510	0.139	0.113	0.101
SN74AHC32D	TI	14	SOIC	Quad 2 Input Positive OR Gate	SMD 959-0552	0.153	0.125	0.111
SN74AHC32PW	TI	14	TSSOP	Quad 2 Input Positive OR Gate	SMD 959-0560	0.103	0.084	0.067
SN74AHC74D	TI	14	SOIC	Dual Positive-Edge-Triggered D-Type Flip-Flops With Clear And Preset	SMD 128-7452	0.280	0.240	0.157
SN74AHC74PW	TI	14	TSSOP	Dual D Type Edge Triggered Flip/Flop	SMD 959-0609	0.139	0.113	0.090
SN74AHC74DR	TI	14	SOIC	Dual Positive-Edge-Triggered D-Type Flip-Flop with Preset and Clear	NEW SMD 162-1017 RL	0.194	0.187	0.158
SN74AHC74QPWRQ1	TI	14	TSSOP	Dual Positive-Edge-Triggered D-Type Flip-Flop With Clear And Preset	NEW SMD 160-1158 RL	0.540	0.350	0.260
SN74AHC125DE4	TI	14	SOIC	Quadruple Bus Buffer Gates With 3-State Outputs	128-7465	0.148	0.125	0.093
SN74AHC132PW	TI	14	TSSOP	Quad Schmitt Trigger	SMD 959-0471	0.240	0.199	0.173
SN74AHC138PW	TI	16	TSSOP	Expandable 3/8 Decoder	SMD 959-0480	0.240	0.199	0.173
SN74AHC139D	TI	16	TSSOP	Dual 2-to-4 Line Decoder/Demultiplexer	SMD 128-7463	0.270	0.250	0.182
SN74AHC139PW	TI	16	TSSOP	Dual 2 to 4 Decoder Demultiplexer	SMD 959-0498	0.240	0.199	0.173
SN74AHC157PW	TI	16	TSSOP	Quadruple 2-Line To 1-Line Data Selectors / Multiplexers	SMD 128-7472	0.290	0.250	0.191
SN74AHC157DBR	TI	16	SSOP	Quadruple 2-Line-To-1-Line Data Selector/Multiplexer	NEW SMD 159-5413 RL	0.540	0.350	0.260
SN74AHC244PW	TI	20	TSSOP	Octal Tri-State Buffer	SMD 959-0528	0.290	0.250	0.200
SN74AHC245DW	TI	20	SOIC	Octal Bus Transceivers With 3-State Outputs	SMD 128-7499	0.340	0.240	0.194
SN74AHC245PW	TI	20	TSSOP	Octal Tri-State Transceiver	SMD 959-0536	0.240	0.197	0.151
SN74AHC273PW	TI	20	TSSOP	Octal D Type Flip/Flop With Clear	SMD 959-0544	0.194	0.162	0.144
SN74AHC373PW	TI	20	TSSOP	Octal Transparent D-Type Latches With 3-State Outputs	SMD 128-7456	0.400	0.290	0.210
SN74AHC374PW	TI	20	TSSOP	Octal Edge-Triggered D-Type Flip-Flops With 3-State Outputs	SMD 128-7460	0.400	0.330	0.250
SN74AHC374DBR	TI	20	SSOP	Octal Edge-Triggered D-Type Flip-Flop (3-State)	NEW SMD 159-5414 RL	0.520	0.330	0.250
SN74AHC541PW	TI	20	TSSOP	Data Selector/Multiplexer	SMD 959-0579	0.200	0.168	0.150
SN74AHC541DW	TI	20	SOIC	Octal (8 Bit) Bus Buffer / Driver Non Inverting with 3-State Outputs	NEW SMD 165-1995	0.240	0.210	0.186
SN74AHC573DW	TI	20	SOIC	Octal Transparent D-Type Latches With 3-State Outputs	SMD 128-7471	0.490	0.330	0.240
SN74AHC573PW	TI	20	TSSOP	Octal D Type Latches	SMD 959-0587	0.240	0.197	0.160
SN74AHC574PW	TI	20	TSSOP	Octal Edge-Triggered D-Type Flip-Flop (3-State)	SMD 959-0595	0.350	0.280	0.250

RL Re-reeling available

74AHCT Advanced High Speed CMOS Logic

74AHCT Advanced High Speed CMOS Logic

411456

Mftrs. List No.	Mftr.	Pins	Pkg	Function	Order Code	Price Each 1+	10+	100+
						MIXED QUANTITY PRICING		
SN74AHCT04D	TI	14	SOIC	Hex Inverters	SMD 128-7474●	0.186	0.159	0.119
SN74AHCT04PW	TI	14	TSSOP	Hex Inverters	SMD 128-7467●	0.169	0.145	0.108
SN74AHCT08D	TI	14	SOIC	Quad 2 Input Positive AND Gate	SMD 959-0617●	0.127	0.103	0.083
SN74AHCT08PW	TI	14	TSSOP	Quad 2 Input Positive AND Gate	SMD 959-0625●	0.153	0.125	0.099
SN74AHCT14D	TI	14	SOIC	Hex Schmitt Trigger	SMD 959-0668●	0.230	0.189	0.157
SN74AHCT14PW	TI	14	TSSOP	Hex Schmitt Trigger	SMD 959-0676●	0.139	0.113	0.090
SN74AHCT14PWR	TI	14	TSSOP	Hex Schmitt Trigger Inverter	NEW SMD 162-1007● RL	0.330	0.250	0.158
SN74AHCT32D	TI	14	SOIC	Quad 2 Input Positive OR Gate	SMD 959-0730●	0.110	0.089	0.070
SN74AHCT32PW	TI	14	TSSOP	Quad 2 Input Positive OR Gate	SMD 959-0749●	0.135	0.109	0.086
SN74AHCT74D	TI	14	SOIC	Dual D Type Edge Triggered Flip/Flop	SMD 959-0781●	0.103	0.083	0.073
SN74AHCT74PW	TI	14	TSSOP	Dual D Type Edge Triggered Flip/Flop	SMD 959-0790●	0.107	0.086	0.076
SN74AHCT125D	TI	14	SOIC	Quadruple Bus Buffer Gates With 3-State Outputs	SMD 128-7453●	0.410	0.270	0.196
SN74AHCT125PW	TI	14	TSSOP	Tri-State Quad Buffer	SMD 959-0633●	0.350	0.280	0.220
SN74AHCT138PW	TI	16	TSSOP	Expandable 3/8 Decoder	SMD 959-0641●	0.240	0.199	0.158
SN74AHCT157D	TI	16	SOIC	Quadruple 2-Line-To-1-Line Data Selector/Multiplexer	NEW SMD 159-5419●	0.370	0.270	0.194
SN74AHCT244DW	TI	20	SOIC	Octal Tri-State Buffer	SMD 959-0692●	0.390	0.270	0.192
SN74AHCT244PW	TI	20	TSSOP	Octal Tri-State Buffer	SMD 959-0706●	0.310	0.270	0.220
SN74AHCT244PWR	TI	20	TSSOP	Octal Buffer/Driver with 3-State Output	NEW SMD 162-1012● RL	0.330	0.250	0.176
SN74AHCT245DW	TI	20	SOIC	Octal Tri-State Transceiver	SMD 959-0714●	0.430	0.330	0.240
SN74AHCT245PW	TI	20	TSSOP	Octal Tri-State Transceiver	SMD 959-0722●	0.260	0.210	0.162
SN74AHCT373PW	TI	20	TSSOP	Tri-State Octal Transparent Latch	SMD 959-0757●	0.310	0.270	0.220
SN74AHCT541PW	TI	20	TSSOP	Octal Buffer and Line DR/RX Non-Inverting	SMD 959-0765●	0.290	0.250	0.199
SN74AHCT573PW	TI	20	TSSOP	Octal D Type Latches	SMD 959-0773●	0.210	0.180	0.158
SN74AHCT594PW	TI	16	TSSOP	8bit Shift Register with Output Register	NEW SMD 159-5417●	0.810	0.540	0.370
SN74AHCT16245DL	TI	48	SSOP	16bit Bus Transceiver (3-State)	SMD 959-0684●	1.670	1.230	0.910
SN74AHCT16374DL	TI	48	SSOP	16bit D-Type Flip-Flop Edge Triggered (3-State)	NEW SMD 159-5420●	1.260	0.890	0.630

MIXED QUANTITY PRICING Purchase mixed products within the same family and benefit from a lower price on the total quantity ordered

74LCX Low Voltage CMOS Logic

74LCX Low Voltage CMOS Logic

High speed CMOS Low Voltage Logic allowing for interface with 3V and 5V devices, power management, subsystems isolation during power failure and live insertion.

Suffix M=0.150" wide, WM=0.300" wide

413316

Mftrs. List No.	Mftr.	Pins	Pkg	Function	Order Code	Price Each 1+	10+	100+
						MIXED QUANTITY PRICING		
74LCX00M	FCH	14	SOIC	Quad 2 Input NAND Gate	SMD 101-3771●	0.380	0.250	0.220
74LCX00TTR	ST	14	TSSOP	Log NAND Gate, Quad 2-IN	SMD 128-8491● RL	0.390	0.290	0.195
74LCX02M	FCH	14	SOIC	Quad 2 Input Positive NOR Gate	SMD 101-3772●	0.350	0.230	0.200
74LCX04M..	FCH	14	SOIC	Hex Inverter	SMD 111-880▲	0.210	0.133	0.121
74LCX04M	FCH	14	SOIC	Hex Inverter	SMD 101-3773● RL	0.290	0.186	0.164
74LCX07TTR	ST	14	TSSOP	Log HEX BUFFER	SMD 128-8488● RL	0.270	0.199	0.134
74LCX08M	FCH	14	SOIC	Quad 2 Input Positive AND Gate	SMD 101-3775●	0.350	0.240	0.160
74LCX14M	FCH	14	SOIC	Hex Schmitt Trigger	SMD 101-3778● RL	0.350	0.230	0.157
74LCX32M	FCH	14	SOIC	Quad 2 Input Positive OR Gate	SMD 101-3784● RL	0.230	0.178	0.154
74LCX74M..	FCH	14	SOIC	Dual D Type Edge Triggered Flip/Flop	SMD 112-057▲	0.230	0.133	0.127
74LCX74M	FCH	14	SOIC	Dual D Type Edge Triggered Flip/Flop	SMD 101-3791● RL	0.380	0.250	0.166
74LCX86MTCX	FCH	14	TSSOP	Low Voltage Quad 2-Input XOR Gate with 5V Tolerant Input	NEW SMD 160-7744● RL	0.135	0.077	0.066
74LCX125M	FCH	14	SOIC	Tri-State Quad Buffer	SMD 101-3776● RL	0.380	0.250	0.166
74LCX138M	FCH	16	SOIC	Expandable 3/8 Decoder	SMD 101-3777●	0.390	0.270	0.175
74LCX157M	FCH	16	SOIC	Quad 2 Input Multiplexer	SMD 101-3779●	0.420	0.260	0.220
74LCX157TTR	ST	16	TSSOP	Log MUX, Quad 2 CH	SMD 128-8485● RL	0.580	0.420	0.290
74LCX244WM	FCH	20	SOIC	Octal Tri-State Buffer	SMD 101-3781● RL	0.460	0.310	0.200
74LCX244TTR	ST	20	TSSOP	Log OCTAL Bus BUFFER	SMD 128-8486● RL	0.690	0.440	0.340
74LCX240WM	FCH	20	SOIC	Octal Tri-State Inverter Buffer	SMD 101-3780●	0.198	0.146	0.120
74LCX244MTCX	FCH	20	TSSOP	Octal Tri-State Buffer/Line Driver	SMD 136-7339● RL	0.210	0.168	0.141
74LCX245WM	FCH	20	SOIC	Octal Tri-State Transceiver	SMD 101-3782● RL	0.390	0.270	0.192
74LCX245MTC	FCH	20	TSSOP	Tri-State Octal Bidirectional Transceiver	SMD 136-7338●	0.390	0.270	0.192
MC74LCX245DWG	ON	20	SOIC	CMOS Octal Transceiver	NEW SMD 160-7898●	0.390	0.250	0.195
74LCX257M	FCH	16	SOIC	Tri-State Quad 2 Input Multiplexer	SMD 101-3783●	0.540	0.380	0.300
74LCX374TTR	ST	20	TSSOP	Log FLIP-FLOP, OCTAL D	128-8492●	0.480	0.340	0.230
74LCX374WM	FCH	20	SOIC	Tri-State Octal D Flip/Flop	SMD 101-3785●	0.640	0.490	0.380
74LCX541MTC	FCH	20	TSSOP	Octal Buffer/Line Driver	SMD 141-7644●	0.450	0.300	0.220
74LCX541WM	FCH	20	SOIC	Octal Buffer and Line DR/RX Non-Inverting	SMD 101-3788● RL	0.450	0.300	0.220
74LCX541TTR	ST	20	TSSOP	Log OCTAL Bus W 3STATE	SMD 128-8484● RL	0.690	0.440	0.340
74LCX541MTR	ST	20	SO	Octal Bus Buffer with 5V Tolerant Input & Output	NEW SMD 160-7594● RL	0.280	0.168	0.130
74LCX573WM	FCH	20	SOIC	Octal D Type Latches	SMD 101-3789●	0.730	0.530	0.370
74LCX574TTR	ST	20	TSSOP	Log FLIP-FLOP, OCTAL D	SMD 128-8483● RL	0.350	0.260	0.168
74LCX574MTCX	FCH	20	TSSOP	Octal D-Type Flip-Flop	SMD 136-7340● RL	0.450	0.300	0.220
74LCX574WM	FCH	20	SOIC	Octal D Type Flip/Flop	SMD 101-3790●	0.760	0.520	0.460
74LCX760MTCX	FCH	20	TSSOP	Low Voltage Buffer/Line Driver with Open Drain Output	NEW SMD 160-7596● RL	0.177	0.121	0.098
74LCX16373MTD	FCH	48	TSSOP	16bit Transparent Latch (3-State)	SMD 136-7342●	0.800	0.510	0.370

RL Re-reeling available

74LV Low Voltage CMOS Logic

74LV Low Voltage CMOS Logic

Low Voltage High Speed CMOS Logic is a 3.3V version of the HCMOS family.

413317

Mftrs. List No.	Mftr.	Pins	Pkg	Function	Order Code	Price Each 1+	10+	100+	250+
						MIXED QUANTITY PRICING			
SN74LV00AD	TI	14	SOIC	Quadruple 2-Input Positive-NAND GateS	SMD 128-7598●	0.144	0.116	0.086	0.063
SN74LV00ANSR	TI	14	SOIC	Quadruple 2-Input Positive-NAND GateS	SMD 123-6257● RL	0.126	0.086	0.068	0.055
SN74LV00APW	TI	14	SSOP	Quadruple 2-Input Positive-NAND GateS	SMD 128-7610●	0.158	0.128	0.094	0.070
SN74LV02APW	TI	14	TSSOP	Quadruple 2-Input Positive-NOR GateS	SMD 128-7615●	0.280	0.220	0.171	0.124
74LV04D	NXP	14	SOIC	Hex Inverter	SMD 108-5353●	0.520	0.250	0.188	0.157
SN74LV04APW	TI	14	TSSOP	Hex Inverter	SMD 959-2474●	0.103	0.083	0.066	– –
SN74LV04ADG4	TI	14	SOIC	Hex Inverters	123-6259●	0.210	0.139	0.111	0.093
SN74LV04ADR	TI	14	SOIC	Hex Inverters	SMD 123-6261● RL	0.145	0.096	0.076	0.065
SN74LV07AD	TI	14	SOIC	Hex Buffers/Drivers With Open-Drain Outputs	NEW SMD 167-0996●	0.400	0.290	0.200	0.168
74LV08D.	NXP	14	SOIC	Quad 2 Input Positive AND Gate	SMD 568-892	0.280	0.129	0.102	0.084
74LV08D	NXP	14	SOIC	Quad 2 Input Positive AND Gate	SMD 108-5354●	0.340	0.156	0.116	0.098
SN74LV08AD	TI	14	SOIC	Quad 2 Input Positive AND Gate	SMD 959-2482●	0.188	0.153	0.120	– –
SN74LV08APW	TI	14	TSSOP	Quad 2 Input Positive AND Gate	SMD 959-2490●	0.103	0.083	0.066	– –
SN74LV10ADBR	TI	14	SSOP	Triple 3-Input Positive-NAND Gate	SMD 123-6262● RL	0.126	0.086	0.068	0.055
SN74LV10AD	TI	14	SOIC	Triple 3-Input Positive-NAND Gate	SMD 123-6263●	0.190	0.126	0.101	0.085
SN74LV11ADGVR	TI	14	TVSOP	Triple 3-Input Positive-AND GateS	SMD 123-6264● RL	0.340	0.220	0.167	0.134
74LV14D.	NXP	14	SOIC	Hex Schmitt Trigger	SMD 568-909	0.300	0.171	0.135	0.115
74LV14D	NXP	14	SOIC	Hex Schmitt Trigger	SMD 108-5355●	0.420	0.270	0.188	0.133
SN74LV14AD	TI	14	SOIC	Hex Schmitt Trigger	SMD 959-2547●	0.230	0.189	0.151	– –
SN74LV14APW	TI	14	TSSOP	Hex Schmitt Trigger	SMD 959-2555●	0.153	0.125	0.111	– –
SN74LV27APW	TI	14	TSSOP	Triple 3-Input Positive-NOR Gate	NEW SMD 160-1169●	0.520	0.330	0.250	0.171
SN74LV32AD	TI	14	SOIC	Quad 2 Input Positive OR Gate	SMD 959-2601●	0.188	0.153	0.120	– –
SN74LV32APW	TI	14	TSSOP	Quad 2 Input Positive OR Gate	SMD 959-2610●	0.177	0.128	0.099	– –
SN74LV32APWG4	TI	14	TSSOP	Quadruple 2-Input Positive-OR GateS	123-6275●	0.230	0.164	0.121	0.088
74LV74D	NXP	14	SOIC	Dual D Type Edge Triggered Flip/Flop	SMD 108-5356●	0.700	0.410	0.320	0.270
SN74LV74ANSR	TI	14	SOIC	Dual Positive-Edge-Triggered D-Type Flip-Flops	SMD 123-6287● RL	0.185	0.125	0.095	0.083
SN74LV74APW	TI	14	SOIC	Dual Positive-Edge-Triggered D-Type Flip-Flops	SMD 128-7519●	0.270	0.240	0.173	0.122
SN74LV123AD	TI	16	SOIC	Dual Retriggerable Resettable/Monostable Multivibrator	SMD 123-6265●	0.300	0.210	0.153	0.131
SN74LV125AD	TI	14	SOIC	Tri-State Quad Buffer	SMD 959-2504●	0.320	0.260	0.220	– –
SN74LV125APW	TI	14	TSSOP	Tri-State Quad Buffer	SMD 959-2512●	0.240	0.180	0.168	– –
SN74LV132APW	TI	14	TSSOP	Quad Schmitt Trigger	SMD 959-2520●	0.197	0.157	0.134	– –
SN74LV139APW	TI	16	TSSOP	Dual 2 to 4 Decoder Demultiplexer	SMD 959-2539●	0.150	0.120	0.102	– –
SN74LV164AD	TI	14	SOIC	8-Bit Parallel-Out Serial Shift Registers	SMD 128-7613●	0.780	0.500	0.360	0.270
SN74LV164APW	TI	14	TSSOP	8-Bit Parallel-Out Serial Shift Registers	SMD 128-7523●	0.340	0.300	0.220	0.168
SN74LV165APW	TI	16	TSSOP	8 Bit Parallel In/Serial Out Shift Register	SMD 959-2563●	0.700	0.520	0.400	– –
SN74LV165AD	TI	16	SOIC	PARALLEL-LOAD 8-Bit SHIFT REGISTERS	SMD 128-7524●	0.680	0.500	0.360	0.270
SN74LV221AD	TI	16	SOIC	Dual MONOSTABLE MULTIVIBRATORS	SMD 123-6272●	0.680	0.470	0.350	0.290
SN74LV240APW	TI	20	TSSOP	Octal Tri-State Inverter Buffer	SMD 959-2571●	0.370	0.360	0.350	– –
74LV244D.	NXP	20	SOIC	Octal Tri-State Buffer	SMD 568-960	0.420	0.240	0.210	0.144
74LV244D	NXP	20	SOIC	Octal Tri-State Buffer	SMD 108-5357●	0.350	0.240	0.177	0.143
SN74LV244APW	TI	20	TSSOP	Octal Tri-State Buffer	SMD 959-2580●	0.350	0.300	0.220	– –
SN74LV244ADW	TI	20	SOIC	Octal Buffer/Line Driver (3-State)	SMD 128-7582●	0.510	0.360	0.260	0.193
SN74LV244ARGYR	TI	20	QFN	Octal Buffer/Line Driver (3-State)	NEW SMD 159-5408● RL	0.660	0.460	0.310	0.220
74LV245D	NXP	20	SOIC	Octal Tri-State Transceiver	SMD 108-5358●	0.870	0.480	0.410	0.300
SN74LV245APW	TI	20	TSSOP	Octal Bus Transceivers With 3-State Outputs	SMD 128-7592●	0.350	0.260	0.191	0.156
SN74LV273APW	TI	20	TSSOP	Octal D Type Flip/Flop With Clear	SMD 959-2598●	0.700	0.570	0.430	– –
SN74LV273ANSR	TI	20	SOIC	Octal D-Type Flip-Flops With Clear	SMD 123-6273● RL	0.460	0.310	0.220	0.183
SN74LV367APWT	TI	16	TSSOP	Hex Buffers And Line Drivers With 3-State Outputs	SMD 123-6276●	1.470	0.980	0.750	0.610
SN74LV374ADBR	TI	20	SSOP	Octal Edge-Triggered D-Type Flip-Flops With 3-State Outputs	SMD 123-6277● RL	0.290	0.194	0.144	0.120
SN74LV541ANSR	TI	20	SOIC	Octal Buffer/Line Driver (3-State)	SMD 123-6284● RL	0.460	0.310	0.220	0.194
SN74LV541APW	TI	20	TSSOP	Octal Buffer/Line Driver (3-State)	SMD 123-6285●	0.360	0.250	0.185	0.173
74LV573D	NXP	20	SOIC	Octal D Type Latches	SMD 120-1336●	1.160	0.620	0.480	0.360
SN74LV573APW	TI	20	TSSOP	Octal D Type Latches	SMD 959-2644●	0.510	0.370	0.280	– –
SN74LV594APW	TI	16	TSSOP	8-Bit Shift Register With Output Register	SMD 123-6286●	0.530	0.350	0.270	0.220
SN74LV4052APW	TI	16	TSSOP	Differential 4 Channel Multiplexer	SMD 959-2628●	0.530	0.450	0.350	– –
SN74LV4066APW	TI	14	TSSOP	Quad Bi-Lateral Switch	SMD 959-2636●	0.680	0.480	0.360	– –
SN74LV8153N	TI	20	PDIP	SERIAL-TO-PARALLEL INTERFACE	123-6288●	1.080	0.710	0.570	0.530
SN74LV8154N	TI	20	PDIP	Dual 16-Bit Binary Counters With 3-State Output Registers	123-6289●	0.790	0.530	0.390	0.330
SN74LV161284DL	TI	48	SSOP	19bit Bus Interface	SMD 123-6268●	2.090	1.390	1.120	1.050

MIXED QUANTITY PRICING Purchase mixed products within the same family and benefit from a lower price on the total quantity ordered

74LVC Low Voltage CMOS Logic

74LVC Low Voltage CMOS Logic

A range of devices fabricated from EPIC™ (Enhanced-Performance Implanted CMOS) process. Low voltage operation 2.7V to 3.6V with 3.3V/5.5V tolerant inputs. <0.8V ground Bounce at 3.3V and enhanced ESD protection.

413320

Mftrs. List No.	Mftr.	Pins	Pkg	Function	Order Code	Price Each 1+	10+	100+
						MIXED QUANTITY PRICING		
SN74LVC00AD	TI	14	SOIC	Quad 2 Input NAND Gate	SMD 110-2970●	0.430	0.300	0.196
74LVC00AD	NXP	14	SOIC	Quad 2-Input NAND Gate	NEW SMD 161-3985●	0.290	0.200	0.135
SN74LVC00APWR	TI	14	TSSOP	Quad 2 Input NAND Gate	SMD 110-5931● RL	0.280	0.188	0.138
SN74LVC00ADBR	TI	14	SSOP	Quadruple 2-Input Positive-NAND Gate	SMD 123-6290● RL	0.144	0.102	0.072
SN74LVC00ANSR	TI	14	SOIC	Quadruple 2-Input Positive-NAND Gate	SMD 123-6292● RL	0.135	0.096	0.067
SN74LVC02APW	TI	14	TSSOP	Quad 2 Input Positive NOR Gate	SMD 959-2652●	0.123	0.109	0.092
SN74LVC02ADBR	TI	14	SSOP	Quadruple 2-Input Positive-NOR Gate	SMD 123-6294● RL	0.145	0.096	0.076
SN74LVC02AD	TI	14	SOIC	Quadruple 2-Input Positive-NOR Gate	SMD 123-6296●	0.155	0.102	0.082
SN74LVC04AD	TI	14	SOIC	Hex Inverter	SMD 110-2971●	0.380	0.260	0.172
SN74LVC04APWR	TI	14	TSSOP	Hex Inverter	SMD 110-2976●	0.290	0.210	0.138
SN74LVC04ADBR	TI	14	SSOP	Hex Inverter	SMD 123-6297● RL	0.250	0.176	0.123
SN74LVC04ADGVR	TI	14	TVSOP	Hex Inverter	SMD 123-6298● RL	0.240	0.160	0.114
SN74LVC04APW	TI	14	TSSOP	Hex Inverter	SMD 123-6299●	0.210	0.139	0.111
74LVCU04AD	NXP	14	SO	Uhs Inverter	NEW SMD 163-1668●	0.133	0.092	0.071
SN74LVC06ADE4	TI	14	SOIC	Hex Inverter Buffers/Drivers With Open-Drain Outputs	128-7583●	0.200	0.167	0.123
SN74LVC06APW	TI	14	TSSOP	Hex Inverter Buffers/Drivers With Open-Drain Outputs	SMD 128-7518●	0.158	0.128	0.094
SN74LVC07AD	TI	14	SOIC	Hex Buffer Driver (OC)	SMD 959-2660●	0.430	0.300	0.196
SN74LVC07APW.	TI	14	TSSOP	Hex Buffer Driver (OC)	SMD 959-2679●	0.085	0.070	0.055
SN74LVC07ADR	TI	14	SOIC	Hex Buffers/Drivers With Open-Drain Outputs	SMD 123-6300●	0.270	0.176	0.140

RL Re-reeling available

Mftrs. List No.	Mftr.	Pins	Pkg	Function	Order Code	Price Each 1+	10+	100+
						MIXED QUANTITY PRICING		
SN74LVC07APW	TI	14	TSSOP	Hex Buffers/Drivers With Open-Drain Outputs	SMD 123-6302	0.190	0.126	0.101
SN74LVC08AD	TI	14	SOIC	Quad 2 Input Positive AND Gate	SMD 110-2972	0.380	0.260	0.172
SN74LVC08APWR	TI	14	TSSOP	Quad 2 Input Positive AND Gate	SMD 110-2978 RL	0.420	0.290	0.188
SN74LVC14AD	TI	14	SOIC	Hex Schmitt Trigger	SMD 110-2973	0.380	0.260	0.172
SN74LVC14APWR	TI	14	TSSOP	Hex Schmitt Trigger	SMD 110-2979 RL	0.420	0.290	0.188
SN74LVC14ADBR	TI	14	SSOP	Hex Schmitt-Trigger Inverter	SMD 123-6311 RL	0.149	0.105	0.074
SN74LVC14APW	TI	14	TSSOP	Hex Schmitt-Trigger Inverter	SMD 123-6312	0.190	0.126	0.101
SN74LVC32AD	TI	14	SOIC	Quad 2 Input Positive OR Gate	SMD 110-2974	0.430	0.300	0.196
SN74LVC32APWR	TI	14	TSSOP	Quad 2 Input Positive OR Gate	SMD 110-2980 RL	0.490	0.300	0.250
74LVC32ATTR	ST	14	TSSOP	Log OR Gate, Quad 2-Input	SMD 128-8464 RL	0.480	0.350	0.230
74LVC32AD	NXP	14	SO	Quadruple2-Input OR Gate	NEW SMD 163-1647	0.133	0.092	0.071
SN74LVC74APW	TI	14	TSSOP	Dual D Type Edge Triggered Flip/Flop	SMD 959-2822	0.153	0.125	0.099
SN74LVC74ADE4	TI	14	SOIC	Dual Positive-Edge-Triggered D-Type Flip-Flops With Clear And Preset	128-7625	0.127	0.096	0.073
74LVC86AD	NXP	14	SO	Exclusive-OR Gate	NEW SMD 163-1666	0.200	0.153	0.112
SN74LVC86AD	TI	14	SOIC	Quadruple 2-Input EXCLUSIVE-OR Gate	SMD 128-7572	0.300	0.230	0.173
SN74LVC86APW	TI	14	TSSOP	Quadruple 2-Input EXCLUSIVE-OR Gate	SMD 128-7573	0.220	0.184	0.136
SN74LVC125AD	TI	14	SOIC	Tri-State Quad Buffer	SMD 110-2975	0.450	0.310	0.200
SN74LVC125APWR	TI	14	TSSOP	Tri-State Quad Buffer	SMD 110-2981 RL	0.450	0.310	0.200
SN74LVC125ADE4	TI	14	SOIC	Quadruple Bus Buffer Gate With 3-State Outputs	123-6303	0.210	0.139	0.113
SN74LVC126AD	TI	14	SOIC	Quadruple Bus Buffer Gate With 3-State Outputs	SMD 128-7584	0.200	0.166	0.125
74LVC126AD	NXP	14	SO	Quadruple Buffer / Line Driver (3-State)	NEW SMD 163-1665	0.184	0.133	0.102
SN74LVC126ADGVR	TI	14	TVSOP	Quadruple Bus Buffer Gate With 3-State Outputs	SMD 123-6304 RL	0.430	0.270	0.196
SN74LVC126APW	TI	14	TSSOP	Quadruple Bus Buffer Gate With 3-State Outputs	SMD 128-7585	0.197	0.166	0.123
74LVC132AD	NXP	14	SO	Quadruple 2-Input NAND Schmitt Trigger	NEW SMD 163-1667	0.260	0.184	0.143
SN74LVC138AD	TI	16	SOIC	Expandable 3/8 Decoder	SMD 959-2687	0.300	0.250	0.196
SN74LVC138APW.	TI	16	TSSOP	Expandable 3/8 Decoder	SMD 959-2695	0.168	0.127	0.111
SN74LVC138APW	TI	16	TSSOP	3-Line To 8-Line Decoder/Demultiplexer	SMD 123-6307	0.250	0.164	0.126
SN74LVC138APWT	TI	16	TSSOP	3-Line To 8-Line Decoder/Demultiplexer	SMD 123-6308	0.460	0.310	0.220
SN74LVC139APW	TI	16	TSSOP	Dual 2 to 4 Decoder Demultiplexer	SMD 959-2709	0.132	0.114	0.088
SN74LVC139ADG4	TI	16	SOIC	Dual 2-to-4 Line Decoder/multiplexer	128-7605	0.175	0.148	0.110
SN74LVC157APW	TI	16	TSSOP	Quad 2 Input Multiplexer	SMD 959-2717	0.250	0.177	0.130
SN74LVC157ADE4	TI	16	SOIC	Quadruple 2-Line To1-Line Data Selector / Multiplexer	128-7581	0.170	0.154	0.119
SN74LVC157ANSR	TI	16	SOIC	Quadruple 2-Line To1-Line Data Selector / Multiplexer	SMD 123-6314 RL	0.194	0.135	0.096
SN74LVC157APWRE4	TI	16	TSSOP	Quadruple 2-Line To1-Line Data Selector / Multiplexer	SMD 123-6315	0.200	0.140	0.100
SN74LVC157APWRG4	TI	16	TSSOP	Quadruple 2-Line To1-Line Data Selector / Multiplexer	SMD 123-6316	0.194	0.135	0.096
SN74LVC244ADW	TI	20	SOIC	Octal Tri-State Buffer	SMD 110-2982	0.450	0.300	0.220
SN74LVC244APWR	TI	20	TSSOP	Octal Tri-State Buffer	SMD 110-5933 RL	0.420	0.290	0.210
SN74LVC244ADBR	TI	20	SSOP	Octal Buffer/Line Driver (3-State)	SMD 123-6352 RL	0.210	0.144	0.102
SN74LVC244APWG4	TI	20	TSSOP	Octal Buffer/Line Driver (3-State)	123-6353	0.182	0.123	0.092
SN74LVC244APWT	TI	20	TSSOP	Octal Buffer/Line Driver (3-State)	SMD 123-6354	0.660	0.460	0.330
SN74LVC244ARGYR	TI	20	QFN	Octal Buffer/Driver With 3-State Outputs	NEW SMD 160-1173 RL	0.570	0.370	0.270
SN74LVC245ADBR	TI	20	SSOP	Octal Bus Transceiver With 3-State Outputs	NEW SMD 159-5415	0.470	0.330	0.240
SN74LVC245ADW	TI	20	SOIC	Octal Tri-State Transceiver	SMD 110-2983	0.490	0.330	0.240
SN74LVC245APWR	TI	20	TSSOP	Octal Tri-State Transceiver	SMD 110-5934 RL	0.510	0.350	0.250
SN74LVC16T245DGGR	TI	48	TSSOP	16-Bit Dual-Supply Bus Transceiver with Configurable Voltage Translation and Three-State Outputs	SMD 149-4928 RL	1.170	0.930	0.700
SN74LVC257APW	TI	16	TSSOP	Quadruple 2-Line To 1-Line Data Selector/Multiplexer With 3-State Outputs	SMD 123-6355	0.340	0.220	0.167
SN74LVC373ADW	TI	20	SOIC	Tri-State Octal Transparent Latch	SMD 110-5932	0.430	0.270	0.196
SN74LVC373APWR	TI	20	TSSOP	Tri-State Octal Transparent Latch	SMD 110-2984 RL	0.280	0.185	0.130
SN74LVC373ADGVR	TI	20	TVSOP	Octal Transparent D-Type Latches With 3-State Outputs	SMD 123-6384 RL	0.240	0.154	0.117
SN74LVC373APW	TI	20	TSSOP	Octal Transparent D-Type Latches With 3-State Outputs	SMD 123-6387	0.330	0.220	0.166
SN74LVC374APWR	TI	20	TSSOP	74LVC Low Voltage CMOSLogic (SO)	SMD 121-4400 RL	0.290	0.194	0.158
SN74LVC374ANSR	TI	20	SOIC	Octal Edge-Triggered D-Type Flip-Flops With 3-State Outputs	SMD 123-6388 RL	0.210	0.144	0.107
SN74LVC374APW	TI	20	TSSOP	Octal Edge-Triggered D-Type Flip-Flops With 3-State Outputs	SMD 123-6389	0.330	0.220	0.166
SN74LVC374ARGYR	TI	20	QFN	Octal Edge-Triggered D-Type Flip-Flops With 3-State Outputs	SMD 123-6390 RL	0.300	0.200	0.154
SN74LVC541APW	TI	20	TSSOP	Octal Buffer and Line DR/RX Non-Inverting	SMD 959-2792	0.380	0.310	0.270
SN74LVC541AQPWRQ1	TI	20	TSSOP	Automotive CataLog Octal Buffer/Driver With 3-State Outputs	SMD 123-6395 RL	0.360	0.250	0.177
SN74LVC573ADGVR	TI	20	TVSOP	Octal Transparent D-Type Latches With 3-State Outputs	SMD 123-6396 RL	0.300	0.200	0.139
SN74LVC573ADW	TI	20	SOIC	Octal Transparent D-Type Latches With 3-State Outputs	SMD 123-6397	0.420	0.280	0.210
SN74LVC573ANSR	TI	20	SOIC	Octal Transparent D-Type Latches With 3-State Outputs	SMD 123-6399 RL	0.210	0.144	0.107
SN74LVC573APW	TI	20	TSSOP	Octal Transparent D-Type Latches With 3-State Outputs	SMD 123-6400	0.300	0.200	0.151
SN74LVC574APW	TI	20	TSSOP	Octal D Type Flip/Flop	SMD 959-2814	0.400	0.310	0.240
SN74LVC646APW	TI	24	TSSOP	Octal Bus Transceiver And Register With 3-State Outputs	SMD 123-6401	0.810	0.580	0.440
SN74LVC841ADGVR	TI	24	TVSOP	10-Bit Bus-INTERFACE D-TYPE LATCH With 3-STATE OUTPUTS	SMD 123-6403	1.940	1.340	1.000
SN74LVC841APW	TI	24	TSSOP	10-Bit Bus-INTERFACE D-TYPE LATCH With 3-STATE OUTPUTS	SMD 123-6405	1.710	1.140	0.850
SN74LVC1404YZPR	TI	8	DSBGA	OSCILLATOR DRIVER for CRYSTAL OSCILLATOR OR CERAMIC RESONATOR	SMD 123-6310 RL	0.800	0.570	0.440
SN74LVC2244APW	TI	20	TSSOP	Octal Tri-State Buffer With Resistor	SMD 959-2741	0.300	0.240	0.177
SN74LVC2244ADW	TI	20	SOIC	Octal Buffer/Line Driver (3-State)	SMD 123-6351	0.380	0.280	0.200
SN74LVC257AD	TI	16	SOIC	Quadruple 2-Line To 1-Line Data Selector/Multiplexer With 3-State Outputs	SMD 128-7567	0.260	0.220	0.173
SN74LVCC3245APW	TI	24	TSSOP	Octal Bus Transceiver With Adjustable Output Voltage And 3-State Outputs	SMD 128-7636	0.840	0.590	0.460
SN74LVC4245ADW	TI	24	SOIC	Tri-State Octal Translating Transceiver	SMD 959-2776	0.780	0.500	0.360
SN74LVC4245APW	TI	24	TSSOP	Octal Bus Transceiver And 3.3-V To 5-V Shifter With 3-State Outputs	SMD 123-6393	0.650	0.480	0.350
SN74LVCC4245APW	TI	24	TSSOP	Octal Bus Transceiver With Adjustable Output Voltage and 3-State Outputs	NEW SMD 159-5406	0.890	0.640	0.510
74LVC4245APW	NXP	24	TSSOP	Octal Dual Supply Translating Transceiver (3-State)	NEW SMD 163-1648	0.670	0.450	0.360
SN74LVC4245ADBR	TI	24	SSOP	Octal BUS Transceiver	SMD 147-0927 RL	0.780	0.500	0.360
SN74LVC8T245DGVR	TI	24	TVSOP	8-Bit Dual-Supply Bus Transceiver With Configurable Voltage Translation And Three-State Outputs	SMD 123-6406 RL	0.930	0.660	0.510
SN74LVC8T245PW	TI	24	TSSOP	8-Bit Dual-Supply Bus Transceiver With Configurable Voltage Translation And Three-State Outputs	SMD 123-6407	0.790	0.550	0.400
SN74LVC8T245RHLR	TI	24	QFN	8bit Dual-Supply Bus Transceiver with Configurable Voltage Translation And Three-State Outputs	NEW SMD 160-1177 RL	0.980	0.710	0.550
SN74LVC16244AGQLR	TI	56	VFBGA	16-Bit Buffer/Driver With 3-State Outputs	123-6318	2.780	1.860	1.400
SN74LVC16374ADGVR	TI	48	TVSOP	16bit D-Type Flip-Flop Edge Triggered (3-State)	SMD 123-6319 RL	0.680	0.460	0.350
SN74LVC16646ADL	TI	56	SSOP	16bit Bus Transceiver And Register (3-State)	NEW SMD 159-5407	1.370	1.230	1.120

74LVCH Low Voltage High Speed CMOS Logic

74LVCH Low Voltage High Speed CMOS Logic

413330

Mftrs. List No.	Mftr.	Pins	Pkg	Function	Order Code	Price Each 1+	10+	100+
						MIXED QUANTITY PRICING		
SN74LVCH244APW	TI	20	TSSOP	Octal Buffer/Line Driver (3-State)	SMD 128-7574	0.300	0.220	0.164
SN74LVCH245APW	TI	20	TSSOP	Octal Tri-State Transceiver	SMD 959-2830	0.240	0.194	0.155
IDT74LVCH16244APVG	IDT	48	SSOP	Tri-State Output 16-Bit Line Driver	SMD 121-8000	2.400	1.500	1.290
IDT74LVCH16245APVG	IDT	48	SSOP	Tri-State Output 16-Bit Bus Transceiver	SMD 121-8002	1.660	1.040	0.890
SN74LVCH16373ADGVR	TI	48	TVSOP	16-Bit TRANSPARENT D-TYPE LATCH With 3-STATE OUTPUTS	SMD 123-6414 RL	0.680	0.460	0.350
IDT74LVCH16374APVG	IDT	48	SSOP	Tri-State Output 16-Bit D-Type Flip-Flop	SMD 121-8015	3.080	1.920	1.650
74LVCH162244ADGG	NXP	48	TSSOP	16bit Buffer/Line Driver (3-State)	NEW SMD 163-1644	0.610	0.450	0.350

MIXED QUANTITY PRICING Purchase mixed products within the same family and benefit from a lower price on the total quantity ordered

RL Re-reeling available

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74LVC1/2G, 74LVC1/2T Low Voltage CMOS Logic

74LVC1/2G, 74LVC1/2T Low Voltage CMOS Logic

A range of single gate functions various packages with 1.65V to 5.5V operation.

413332

Mftrs. List No.	Mftr.	Pins	Pkg	Function	Order Code	Price Each 1+	10+	100+
					MIXED QUANTITY PRICING			
74LVC1G00GW	NXP	5	SOT-353	Single 2-Input NAND Gate	NEW SMD 163-1681 RL	0.082	0.051	0.041
SN74LVC1G00DBVR	TI	5	SOT-23	Single 2-Input Positive-NAND Gate	SMD 128-7607 RL	0.200	0.147	0.109
SN74LVC1G00DCKR	TI	5	SC-70	Single 2-Input Positive-NAND Gate	SMD 128-7563 RL	0.118	0.085	0.064
SN74LVC1G02YEPR	TI	5	DSBGA	Single 2-Input Positive-NOR Gate	SMD 123-6321 RL	0.168	0.110	0.086
SN74LVC1G02YZAR	TI	5	DSBGA	Single 2-Input Positive-NOR Gate	SMD 123-6322 RL	0.340	0.220	0.177
SN74LVC1G02DBVR	TI	5	SOT-23	Single 2-Input Positive-NOR Gate	SMD 128-7579 RL	0.230	0.197	0.147
SN74LVC1G02DCKR	TI	5	SC-70	Single 2-Input Positive-NOR Gate	SMD 128-7580 RL	0.200	0.147	0.109
74LVC1G02GW	NXP	5	SOT-353	Triple 3-Input NOR Gate	NEW SMD 163-1682 RL	0.082	0.051	0.041
74LVC1G04GW	NXP	5	SOT-353	Uhs Inverter	NEW SMD 163-1683 RL	0.082	0.051	0.041
74LVC1GU04GW	NXP	5	SOT-353	Uhs Inverter	NEW SMD 163-1691 RL	0.082	0.051	0.041
SN74LVC1G04DBVR	TI	5	SOT-23	Single Inverter	SMD 128-7591 RL	0.200	0.147	0.109
SN74LVC1GX04DBVT	TI	6	SOT-23	Crystal Oscillator Driver	SMD 149-4935 RL	0.680	0.570	0.470
SN74LVC1GX04DCKT	TI	6	SC-70	Crystal Oscillator Driver	SMD 149-4937 RL	0.680	0.570	0.470
SN74LVC1G06DBVR	TI	5	SOT-23	Hex Inverter Buffer / Driver (OC)	SMD 110-5928 RL	0.340	0.230	0.153
SN74LVC1G07DBVR	TI	5	SOT-23	Buffer/Line Driver	SMD 110-2969 RL	0.320	0.220	0.144
SN74LVC1G07DCKR	TI	5	SC-70	Single Buffer/Driver with Open-Drain Output	SMD 128-7544 RL	0.240	0.181	0.136
SN74LVC1G07DCK6	TI	5	SC-70	Single Buffer/Driver With Open-Drain Output	SMD 123-6609	0.177	0.127	0.089
SN74LVC1G07YEPR	TI	5	DSBGA	Single Buffer/Driver With Open-Drain Output	SMD 123-6323 RL	0.250	0.158	0.125
SN74LVC1G08DBVT	TI	5	SOT-23	Single 2-Input Positive-AND Gate	SMD 123-6324 RL	0.310	0.260	0.220
SN74LVC1G08YZPR	TI	5	DSBGA	Single 2-Input Positive-AND Gate	SMD 123-6326 RL	0.200	0.131	0.103
SN74LVC1G08DBVR	TI	5	SOT-23	Single 2-Input Positive-AND Gate	SMD 128-7593 RL	0.144	0.105	0.079
SN74LVC1G08DCKR	TI	5	SC-70	Single 2-Input Positive-AND Gate	SMD 128-7597 RL	0.144	0.105	0.079
74LVC1G08GW	NXP	5	SOT-353	Single 2-Input AND Gate	NEW SMD 163-1684 RL	0.082	0.051	0.041
74LVC1G08GW,125	NXP	5	SOT-353		NEW 162-6473 RL	0.071	0.048	0.037
SN74LVC1G123DCTR	TI	8	SSOP	Single Retriggerable Monostable Multivibrator	SMD 123-6327 RL	0.450	0.290	0.200
74LVC1G14GW	NXP	5	SOT-353	Single Inverter with Schmitt Trigger	NEW SMD 163-1687 RL	0.082	0.051	0.041
SN74LVC1G14DBVT	TI	5	SOT-23	Single Schmitt-Trigger Inverter	SMD 123-6328 RL	0.530	0.350	0.270
SN74LVC1G14DCKR	TI	5	SC-70	Single Schmitt-Trigger Inverter	SMD 123-6329 RL	0.083	0.072	0.065
SN74LVC1G14DCKT	TI	5	SC-70	Single Schmitt-Trigger Inverter	SMD 123-6330 RL	0.480	0.320	0.250
SN74LVC1G14YEAR	TI	5	DSBGA	Single Schmitt-Trigger Inverter	SMD 123-6331 RL	0.340	0.220	0.177
SN74LVC1G14YEPR	TI	5	DSBGA	Single Schmitt-Trigger Inverter	123-6332	0.220	0.147	0.116
SN74LVC1G14DBVR	TI	5	SOT-23	Single Schmitt Trigger Inverter	SMD 147-0878 RL	0.340	0.240	0.160
SN74LVC1G17DBVE4	TI	5	SOT-23	Single Schmitt Trigger Buffer	SMD 123-6333	0.350	0.280	0.250
SN74LVC1G17YZPR	TI	5	DSBGA	Single Schmitt Trigger Buffer	SMD 123-6334 RL	0.410	0.270	0.210
SN74LVC1G17DBVRG4	TI	5	SOT-23	Single Schmitt Trigger Buffer	SMD 128-7608 RL	0.220	0.200	0.189
SN74LVC1G17DCKR	TI	5	SC-70	Single Schmitt Trigger Buffer	SMD 128-7609 RL	0.220	0.155	0.116
SN74LVC1G17DBVR	TI	5	SOT-23	Single Schmitt Trigger Buffer	SMD 147-0773 RL	0.340	0.230	0.153
SN74LVC1G19YZPR	TI	6	DSBGA	1-OF-2 DECODER/DEMULTIPLEXER	SMD 123-6335 RL	0.340	0.220	0.168
SN74LVC1G19DCKR	TI	6	SC-70	1-OF-2 Decoder/Demultiplier	SMD 128-7599 RL	0.164	0.135	0.100
SN74LVC1G27DCKR	TI	6	SC-70	Single 3-Input Positive-NOR Gate	SMD 123-6336 RL	0.177	0.114	0.092
SN74LVC1G32DBVR	TI	5	SOT-23	Single 2-Input Positive-OR Gate	SMD 128-7525 RL	0.200	0.147	0.109
74LVC1G32GW	NXP	5	SOT-353	Single 2-Input OR Gate	NEW SMD 163-1689 RL	0.082	0.051	0.041
SN74LVC1G32DCKT	TI	5	SC-70	Single 2-Input Positive-OR Gate	SMD 123-6340 RL	0.350	0.280	0.250
SN74LVC1G34DBVT	TI	5	SOT-23	Single Buffer Gate	SMD 149-4933 RL	0.530	0.390	0.290
SN74LVC1G34DCKT	TI	5	SC-70	Single Buffer Gate	NEW SMD 160-1170 RL	0.330	0.240	0.194
SN74LVC1T45DCKT	TI	6	SC-70	BCD to DecimAl Decoder/Driver (OC)	SMD 959-2733 RL	1.090	0.800	0.580
SN74LVC1T45YZPR	TI	6	DSBGA	Single bit Dual-Supply Bus Transceiver	SMD 149-4938 RL	0.500	0.320	0.230
SN74LVC1T45DBVT	TI	6	SOT-23	Single bit Dual-Supply Bus Transceiver	SMD 147-0916 RL	0.550	0.400	0.300
SN74LVC1G66DBVR	TI	5	SOT-23	Single AnaLog Switch	SMD 128-7586 RL	0.300	0.220	0.170
SN74LVC1G66DCKR	TI	5	SC-70	Single Analog Switch	SMD 128-7587 RL	0.300	0.220	0.170
74LVC1G66GW	NXP	5	SOT-353	Bilateral Switch	NEW SMD 163-1692 RL	0.102	0.071	0.061
SN74LVC1G79DCKR	TI	5	SC-70	Single Positive-Edge-Triggered D-Type Flip-Flop	SMD 128-7603 RL	0.240	0.167	0.124
SN74LVC1G79DCKT	TI	5	SC-70	Single Positive-Edge-Triggered D-Type Flip-Flop	SMD 123-6343 RL	0.320	0.260	0.220
SN74LVC1G80YEAR	TI	5	DSBGA	Single Positive-Edge-Triggered D-Type Flip-Flop	SMD 123-6344 RL	0.340	0.220	0.177
SN74LVC1G80YZPR	TI	5	DSBGA	Single Positive-Edge-Triggered D-Type Flip-Flop	SMD 123-6345 RL	0.220	0.148	0.113
SN74LVC1G80DCKR	TI	5	SC-70	Single Positive-Edge-Triggered D-Type Flip-Flop	SMD 128-7520 RL	0.240	0.167	0.124
SN74LVC1G80DBVT	TI	5	SOT-23	Single Positive-Edge-Triggered D-Type Flip-Flop	NEW SMD 160-1171 RL	0.300	0.220	0.194
SN74LVC1G86DBVR	TI	5	SOT-23	Single 2-Input EXCLUSIVE-OR Gate	SMD 128-7521 RL	0.125	0.101	0.074
SN74LVC1G86DCKR	TI	5	SC-70	Single 2-Input Exclusive OR Gate	SMD 128-7522 RL	0.240	0.176	0.130
SN74LVC1G97YZAR	TI	6	DSBGA	Configurable Multiple Function Gate	SMD 123-6347 RL	0.450	0.290	0.240
SN74LVC1G97YZPR	TI	6	DSBGA	Configurable Multiple Function Gate	SMD 123-6348 RL	0.430	0.290	0.200
SN74LVC1G97QDCKRQ1	TI	6	SC-70	Configurable Multiple Function Gate	NEW SMD 160-1172 RL	0.370	0.270	0.182
SN74LVC1G123DCUT	TI	8	US8	Single Retriggerable Monostable Multivibrator	SMD 149-4929	0.520	0.450	0.340
74LVC1G125GW	NXP	5	SOT-353	Bus Buffer/Line Driver (3-State)	NEW SMD 163-1685 RL	0.082	0.051	0.041
SN74LVC1G125DBVR	TI	5	SOT-23	Single Bus Buffer Gate with 3-State Output	SMD 147-0768 RL	0.320	0.220	0.144
SN74LVC1G125DCKR	TI	5	SOP	Single Bus Buffer Gate with 3-State Output	SMD 147-0771 RL	0.350	0.240	0.157
74LVC1G126GW	NXP	5	SOT-353	Bus Buffer/Line Driver (3-State)	NEW SMD 163-1686 RL	0.082	0.051	0.041
SN74LVC1G126DCKR	TI	5	SC70	Single Bus Buffer Gate with 3-State Output	NEW SMD 162-1010 RL	0.220	0.200	0.133
SN74LVC1G126DBVT	TI	5	SOT-23	Single Bus Buffer Gate with 3-State Output	SMD 147-0738 RL	0.580	0.420	0.310
SN74LVC1G139DCTT	TI	8	SM8	2-Line-to-4-Line Decoder	SMD 149-4930	0.480	0.380	0.300
SN74LVC1G175DBVT	TI	6	SOT-23	Single D-Type Flip-Flop with Asynchronous Clear	SMD 149-4931 RL	0.370	0.300	0.240
SN74LVC1G332DCKR	TI	6	SC-70	Single 3-Input Positive-OR Gate	SMD 149-4932 RL	0.350	0.240	0.157
SN74LVC1G3208DBVR	TI	6	SOT-23	Single 3-Input Positive OR-AND Gate	SMD 123-6338 RL	0.320	0.210	0.169
SN74LVC1G373DCKR	TI	6	SC-70	Single D-Type Latch With 3s Output	SMD 123-6341 RL	0.230	0.147	0.124
SN74LVC1G374DCKR	TI	6	SC-70	Single D-Type Flip-Flop With 3-State Output	SMD 123-6342 RL	0.230	0.147	0.124
SN74LVC1G3157DBVR	TI	6	SOP	SPDT Analog Switch	SMD 147-0910 RL	0.450	0.300	0.220
SN74LVC1G3208DBVT	TI	6	SOT-23	Single 3-Input Positive OR-AND Gate	SMD 123-6339 RL	0.370	0.260	0.192
SN74LVC2T45DCUT	TI	8	VSSOP	BCD to DecimAl Decoder/Driver (OC)	SMD 959-2768	1.070	0.770	0.600
SN74LVC2G00DCTR	TI	8	SM8	Dual 2-Input Positive-NAND Gate	NEW SMD 159-5405 RL	0.470	0.300	0.220
SN74LVC2G00DCUT	TI	8	VSSOP	Dual 2-Input Positive-NAND Gate	SMD 123-6356	0.360	0.290	0.260
SN74LVC2G02DCTR	TI	8	SSOP	Dual 2-Input Positive-NOR Gate	SMD 123-6358 RL	0.460	0.300	0.210
SN74LVC2GU04DCKR	TI	5	SC-70	Log INVERTER Gate, Dual	SMD 128-7413 RL	0.240	0.173	0.132
SN74LVC2G04DBVR	TI	6	SOT-23	Dual Inverter	SMD 128-7594	0.300	0.230	0.172
SN74LVC2G04DCKR	TI	6	SC-70	Dual Inverter Gate	SMD 147-0882 RL	0.260	0.184	0.136
SN74LVC2G06YZPR	TI	6	DSBGA	Dual Inverter Buffer/Driver with Open-Drain Output	SMD 123-6360 RL	0.290	0.194	0.150
SN74LVC2G06DCKR	TI	6	SC-70	Dual Inverter Buffer/Driver with Open-Drain Output	NEW SMD 160-1174 RL	0.330	0.250	0.171
SN74LVC2G07YZPR	TI	6	DSBGA	Dual Buffer/Driver With Open-Drain Output	SMD 123-6361 RL	0.250	0.164	0.126
SN74LVC2G07DCKT	TI	6	SOP	Dual Buffer/Driver with Open-Drain Output	NEW SMD 160-7644 RL	0.450	0.290	0.240
SN74LVC2G08YZPR	TI	8	DSBGA	Dual 2-Input Positive-AND Gate	SMD 123-6364 RL	0.510	0.330	0.240
SN74LVC2G08DCUR	TI	8	VSSOP	Dual 2-Input Positive AND Gate	SMD 147-0869 RL	0.430	0.270	0.196
SN74LVC2G14DCKR	TI	6	SC-70	Dual Schmitt Trigger Inverter	SMD 147-0885 RL	0.350	0.240	0.159
SN74LVC2G14IDCKRQ1	TI	6	SC-70	Automotive CataLog Dual Schmitt-Trigger Inverter	SMD 123-6370 RL	0.260	0.220	0.196
SN74LVC2G14YZPR	TI	6	DSBGA	Dual Schmitt Trigger Inverter	SMD 123-6372 RL	0.510	0.330	0.240
SN74LVC2G14DBVR	TI	6	SOT-23	Dual Schmitt Trigger Inverter	SMD 147-0884 RL	0.350	0.240	0.159
SN74LVC2G17DCKR	TI	6	SC-70	Dual Schmitt Trigger Buffer	SMD 128-7569 RL	0.300	0.210	0.154
SN74LVC2G17DBVR	TI	6	SOP	Dual Schmitt Trigger Buffer	SMD 147-0776 RL	0.350	0.240	0.174
SN74LVC2G32DCUT	TI	8	VSSOP	Dual 2-Input Positive-OR Gate	SMD 123-6373	0.370	0.330	0.290

RL Re-reeling available

Mftrs. List No.	Mftr.	Pins	Pkg	Function	Order Code	Price Each 1+	10+	100+
						MIXED QUANTITY PRICING		
SN74LVC2G241DCUT	TI	8	US8	Dual Buffer/Driver With 3-State Outputs	NEW SMD 160-1175●	0.470	0.410	0.350
SN74LVC2G32DCTR	TI	8	VSSOP	Dual 2-Input Positive-OR Gate	SMD 128-7570● RL	0.410	0.270	0.196
SN74LVC2G34DCKR	TI	6	SC-70	Dual Buffer Gate	NEW SMD 159-5409● RL	0.360	0.260	0.171
SN74LVC2G34DBVR	TI	6	SOT-23	Dual Buffer Gate	SMD 147-0888● RL	0.430	0.270	0.196
SN74LVC2T45YZPR	TI	8	DSBGA	Dual-Bit Dual Supply Transceiver	SMD 149-4939● RL	0.680	0.430	0.310
SN74LVC2T45DCTT	TI	8	SM	Dual bit Dual Supply Bus Transceiver	SMD 147-0924●	0.660	0.550	0.450
SN74LVC2G53DCUR	TI	8	TSSOP	Spdt Analog Switch	SMD 128-7601● RL	0.410	0.270	0.196
SN74LVC2G66DCTR	TI	8	SSOP	Dual AnaLog Switch	SMD 128-7611● RL	0.300	0.220	0.163
SN74LVC2G66DCUR	TI	8	SOIC	Dual AnaLog Switch	SMD 128-7612● RL	0.410	0.290	0.210
SN74LVC2G74DCTR	TI	8	SSOP	Single Positive-Edge-Triggered D-Type Flip-Flop With Clear And Preset	SMD 128-7632● RL	0.410	0.270	0.196
SN74LVC2G74DCUR	TI	8	VSSOP	Single Positive-Edge-Triggered D-Type Flip-Flop With Clear And Preset	SMD 128-7633● RL	0.450	0.300	0.220
SN74LVC2G74DCUT	TI	8	VSSOP	Single Positive-Edge-Triggered D-Type Flip-Flop With Clear And Preset	SMD 123-6379●	0.400	0.330	0.290
SN74LVC2G80YZPR	TI	8	DSBGA	Dual Positive-Edge-Triggered D-Type Flip-Flop	SMD 123-6381● RL	0.290	0.194	0.150
SN74LVC2G125DCUR	TI	8	VSSOP	Log BUFFER Gate, Dual 3-STATE	SMD 128-7415● RL	0.430	0.270	0.196
SN74LVC2G125YZPR	TI	8	DSBGA	Dual Bus Buffer Gate With 3-State Outputs	SMD 123-6366● RL	0.490	0.320	0.240
SN74LVC2G125DCTR	TI	8	SSOP	Dual Bus Buffer Gate with 3-State Output	SMD 147-0883● RL	0.430	0.270	0.196
SN74LVC2G132DCUT	TI	8	VSSOP	Dual 2-Input NAND Gate With SCHMITT-TRIGGER InputS	SMD 123-6369●	0.410	0.360	0.310
SN74LVC2G157DCTR	TI	8	SSOP	LogIC DATA SELECTOR/MUX	SMD 128-7414● RL	0.430	0.270	0.196
SN74LVC3G07DCTR	TI	8	SM8	Triple Buffer/Driver With Open-Drain Output	NEW SMD 160-1176● RL	0.520	0.330	0.250
SN74LVC3G17DCTR	TI	8	SSOP	Triple Schmitt-Trigger Buffer	SMD 123-6391● RL	0.500	0.340	0.250
SN74LVC3G34DCUR	TI	8	VSSOP	Triple BUFFER Gate	SMD 128-7565● RL	0.450	0.300	0.220
SN74LVC3G34YZPR	TI	8	DSBGA	Triple Buffer Gate	SMD 123-6392● RL	0.380	0.260	0.194

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Mftrs. List No.	Mftr.	Pins	Pkg	Function	Order Code	Price Each 1+	10+	100+	250+	500+
SN74LVCU04AD	TI	14	SOIC	Hex Inverter	SMD 123-6419●	0.310	0.200	0.158	0.134	0.124
SN74LVCU04APW	TI	14	TSSOP	Hex Inverter	SMD 123-6420●	0.470	0.300	0.240	0.200	0.184
SN74LVCU04APWT	TI	14	TSSOP	Hex Inverter	SMD 123-6421●	0.570	0.380	0.290	0.240	0.220
SN74LVU04APW	TI	14	SOIC	Hex Inverters	SMD 128-7568●	0.400	0.340	0.260	0.185	0.156
SN74LVU04APWT	TI	14	TSSOP	Hex Inverters	SMD 123-6463●	0.530	0.360	0.280	0.220	0.200

74LVT Low Voltage Logic

74LVT Low Voltage Logic

FAIRCHILD SEMICONDUCTOR™ Texas Instruments

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Mftrs. List No.	Mftr.	Pins	Pkg	Function	Order Code	Price Each 1+	10+	100+	250+
						MIXED QUANTITY PRICING			
SN74LVT125D	TI	14	SOIC	Tri-State Quad Buffer	SMD 959-2849●	0.920	0.730	0.580	– –
SN74LVT125PW	TI	14	TSSOP	3.3-V Abt Quadruple Bus Buffers With 3-State Outputs	SMD 128-7566●	0.990	0.820	0.610	0.470
74LVT240WM	FCH	20	SOIC	Octal Tri-State Inverter Buffer	SMD 325-2760▲	0.530	0.370	0.340	0.240
SN74LVT244BNSR	TI	20	SOIC	3.3-V Abt Octal Buffers/Drivers With 3-State Outputs	SMD 123-6435● RL	0.400	0.280	0.200	0.177
SN74LVT244BPW	TI	20	TSSOP	3.3-V Abt Octal Buffers/Drivers With 3-State Outputs	SMD 128-7616●	0.580	0.480	0.350	0.270
74LVT244MTC	FCH	20	TSSOP	Octal Tri-State Buffer	SMD 101-3792●	1.640	1.330	1.220	0.800
74LVT244WM	FCH	20	SOIC	Octal Tri-State Buffer	SMD 101-3793●	1.650	1.350	1.260	0.840
SN74LVT244BDW	TI	20	SOIC	Octal Tri-State Buffer	SMD 959-2857●	0.770	0.490	0.350	– –
SN74LVT245BGQNR	TI	20	VFBGA	3.3-V Abt Octal Bus Transceivers With 3-State Outputs	SMD 123-6436● RL	0.750	0.530	0.400	0.320
SN74LVT245BPW	TI	20	TSSOP	3.3-V Abt Octal Bus Transceivers With 3-State Outputs	SMD 123-6437●	0.520	0.360	0.280	0.220
74LVT245MTC	FCH	20	TSSOP	Octal Tri-State Transceiver	SMD 101-3794●	0.310	0.240	0.230	0.148
74LVT245WM	FCH	20	SOIC	Octal Tri-State Transceiver	SMD 101-3795●	0.950	0.800	0.710	0.490
74LVT373MTC	FCH	20	TSSOP	Tri-State Octal Transparent Latch	SMD 325-2590▲	0.750	0.400	0.380	0.290
74LVT373WM	FCH	20	SOIC	Tri-State Octal Transparent Latch	SMD 325-2607▲	0.870	0.480	0.460	0.340
74LVT573MTC	FCH	20	TSSOP	Octal D Type Latches	SMD 101-3796●	0.870	0.500	0.460	0.320
74LVT573WM	FCH	20	SOIC	Octal D Type Latches	SMD 325-2644▲	0.720	0.410	0.380	0.290
74LVT574MTC.	FCH	14	TSSOP	Octal D Type Flip/Flop	SMD 325-2656▲	0.610	0.350	0.320	0.230
74LVT574MTC	FCH	14	TSSOP	Octal D Type Flip/Flop	SMD 101-3797●	0.840	0.480	0.430	0.310
74LVT574WM	FCH	20	SOIC	Octal D Type Flip/Flop	SMD 101-3799●	0.410	0.230	0.210	0.152
SN74LVT16240DL	TI	48	SSOP	3.3-V ABT 16-Bit Buffers/Drivers With 3-State Outputs	SMD 123-6432●	1.060	0.710	0.530	0.450
74LVT16244MTD	FCH	48	TSSOP	Tri-State Output 16-Bit Line Driver	SMD 101-3802●	2.390	1.710	1.390	0.910
74LVT16245MTD	FCH	48	TSSOP	Tri-State Output 16-Bit Bus Transceiver	SMD 101-3803●	1.840	1.320	1.070	0.700
74LVT16373MTD.	FCH	48	TSSOP	Tri-State Output 16-Bit Transparent Latch	SMD 325-2735▲	1.110	0.870	0.700	0.440
74LVT16373MTD	FCH	48	TSSOP	Tri-State Output 16-Bit Transparent Latch	SMD 101-3805●	1.610	1.260	1.020	0.610
74LVT16374MTD	FCH	48	TSSOP	Tri-State Output 16-Bit D-Type Flip-Flop	SMD 101-3806●	1.050	0.820	0.660	0.390
SN74LVT162240DL	TI	48	SSOP	3.3-V ABT 16-Bit Buffers/Drivers With 3-State Outputs	SMD 123-6429●	1.060	0.710	0.530	0.450
74LVT162244MTD	FCH	48	TSSOP	Tri-State Output 16-Bit Buffer/Line Driver	SMD 101-3800●	0.700	0.520	0.480	0.340
74LVT162245MTD	FCH	48	TSSOP	Tri-State Output 16-Bit Transceiver	SMD 101-3801●	0.780	0.570	0.540	0.370

MIXED QUANTITY PRICING Purchase mixed products within the same family and benefit from a lower price on the total quantity ordered

74LVTH Low Voltage High Speed Logic

74LVTH Low Voltage CMOS Logic

FAIRCHILD SEMICONDUCTOR™ Texas Instruments

413627

Mftrs. List No.	Mftr.	Pins	Pkg	Function	Order Code	Price Each 1+	10+	100+	250+
						MIXED QUANTITY PRICING			
SN74LVTH125D	TI	14	SOIC	Tri-State Quad Buffer	SMD 959-2865●	0.500	0.320	0.230	– –
SN74LVTH125DBR	TI	14	SSOP	3.3-V Abt Quadruple Bus Buffers With 3-State Outputs	SMD 123-6439● RL	0.250	0.164	0.126	0.101
SN74LVTH125NSR	TI	14	SOIC	3.3-V Abt Quadruple Bus Buffers With 3-State Outputs	SMD 123-6440● RL	0.290	0.194	0.144	0.120
SN74LVTH125PW	TI	14	TSSOP	Tri-State Quad Buffer	SMD 959-2873●	0.330	0.280	0.220	– –
SN74LVTH244ADBR	TI	20	SSOP	3.3-V Abt Octal Buffers/Drivers With 3-State Outputs	SMD 123-6457● RL	0.360	0.240	0.185	0.147
SN74LVTH244ADW	TI	20	SOIC	3.3-V Abt Octal Buffers/Drivers With 3-State Outputs	SMD 128-7589●	0.510	0.400	0.300	0.240
SN74LVTH244APW	TI	20	TSSOP	Octal Tri-State Buffer	SMD 959-2890●	0.420	0.350	0.290	– –
74LVTH244MTC	FCH	20	TSSOP	Low Voltage Octal Buffer/Line Driver with 3-State Output	NEW SMD 160-7597●	0.240	0.165	0.121	– –
SN74LVTH245ADBR	TI	20	SSOP	3.3-V Abt Octal Bus Transceivers With 3-State Outputs	SMD 123-6458● RL	0.520	0.340	0.270	0.210
SN74LVTH245APW	TI	20	TSSOP	Octal Tri-State Transceiver	SMD 959-2903●	0.420	0.350	0.310	– –
SN74LVTH273NSR	TI	20	SOIC	3.3-V Abt Octal D-Type Flip-Flops With Clear	SMD 123-6459● RL	0.360	0.240	0.185	0.147
SN74LVTH541DW	TI	20	SOIC	Octal Buffer/Driver with 3-State Output	NEW SMD 162-1005●	1.210	1.030	0.860	0.670
SN74LVTH573PW	TI	20	TSSOP	Octal D Type Latches	SMD 959-2920●	0.290	0.250	0.200	– –
SN74LVTH574RGYR	TI	20	QFN	3.3-V Abt Octal Edge-Triggered D-Type Flip-Flops With 3-State Outputs	SMD 123-6461● RL	0.650	0.440	0.330	0.280

RL Re-reeling available

Farnell

74LVTH Low Voltage High Speed Logic - continued

74LVTH Low Voltage CMOS Logic - continued

Mftrs. List No.	Mftr.	Pins	Pkg	Function	Order Code	Price Each 1+	10+	100+	250+
						MIXED QUANTITY PRICING			
SN74LVTH652DBR	TI	24	SSOP	3.3-V Abt Octal Bus Transceivers And Registers With 3-State Outputs	SMD 123-6462●	1.670	1.140	0.820	0.760
SN74LVTH162373DL	TI	48	SSOP	3.3-V Abt 16-Bit Transparent D-Type Latches With 3-State Outputs	SMD 123-6443●	1.010	0.680	0.520	0.420
SN74LVTH16240DGGR	TI	48	TSSOP	3.3-V ABT 16-Bit Buffers/Drivers With 3-State Outputs	SMD 123-6444● RL	0.680	0.510	0.390	0.290
SN74LVTH16240DL	TI	48	SSOP	3.3-V ABT 16-Bit Buffers/Drivers With 3-State Outputs	SMD 123-6445●	1.010	0.680	0.520	0.420
SN74LVTH16241DL	TI	48	SSOP	3.3-V ABT 16-Bit Buffers/Drivers With 3-State Outputs	123-6446●	0.340	0.330	0.320	0.310
SN74LVTH16373ZQLR	TI	56	VFBGA	3.3-V Abt 16-Bit Transparent D-Type Latches With 3-State Outputs	SMD 123-6448● RL	1.120	0.840	0.670	0.560
SN74LVTH16374GRDR	TI	54	VFBGA	3.3-V ABT 16-Bit Edge-Triggered D-Type Flip-Flops With 3-State Outputs	123-6449●	2.100	1.400	1.060	0.880
SN74LVTH16374ZRDR	TI	54	VFBGA	3.3-V Abt 16-Bit Edge-Triggered D-Type Flip-Flops With 3-State Outputs	123-6450●	0.840	0.560	0.430	0.400
SN74LVTH16543DGGR	TI	56	TSSOP	ABT 16-Bit Registered Transceivers With 3-State Outputs	NEW SMD 160-0186● RL	1.160	0.820	0.580	0.530
SN74LVTH16500DGGR	TI	56	TSSOP	3.3-V Abt 18-Bit Universal Bus Transceivers With 3-State Outputs	SMD 123-6451●	1.130	0.800	0.670	0.660
SN74ALVTH16821DL	TI	56	SSOP	2.5-V/3.3-V 20-Bit Bus-Interface Flip-Flops With 3-State Outputs	NEW SMD 159-5411●	2.830	2.010	1.480	1.360
SN74LVTH18502APM	TI	64	LQFP	3.3-V Abt Scan Test Devices With 18-Bit Universal Bus Transceivers	SMD 123-6456●	5.810	3.880	3.230	3.150
SN74LVTH16244ADL	TI	48	PDIP	3.3-V ABT 16-Bit Buffers/Drivers With 3-State Outputs	SMD 128-7621●	1.070	0.760	0.580	0.440
SN74LVTH16245ADL	TI	48	SSOP	Tri-State Output 16-Bit Bus Transceiver	SMD 959-2881●	1.050	0.760	0.580	– –
SN74LVTH162244DL	TI	48	SSOP	ABT 16-Bit Buffers/Drivers With 3-State Outputs	NEW SMD 159-5412●	1.000	0.750	0.570	0.390
SN74LVTH162245DL	TI	48	SSOP	16bit Bus Transceiver with 3-State Output	NEW SMD 160-7908●	0.770	0.490	0.370	– –

74LVX Low Voltage CMOS Logic

74LVX Low Voltage CMOS Logic

FAIRCHILD SEMICONDUCTOR

Low Voltage CMOS Logic with 5V tolerant inputs and translation capability.

413336

Mftrs. List No.	Mftr.	Pins	Pkg	Function	Order Code	Price Each 1+	10+	100+	250+
						MIXED QUANTITY PRICING			
74LVX00M	FCH	14	SOIC	Quad 2 Input NAND Gate	SMD 101-4090●	0.390	0.310	0.210	0.120
74LVX02M	FCH	14	SOIC	Quad 2 Input Positive NOR Gate	SMD 642-400▲	0.500	0.310	0.250	0.159
74LVX08M	FCH	14	SOIC	Quad 2 Input Positive AND Gate	SMD 101-4093●	0.380	0.350	0.290	0.171
74LVX32M	FCH	14	SOIC	Quad 2 Input Positive OR Gate	SMD 101-4096●	0.250	0.210	0.200	0.132
74LVX74M	FCH	14	SOIC	Dual D Type Edge Triggered Flip/Flop	SMD 642-484▲	0.240	0.190	0.125	0.094
74LVX374M	FCH	20	SOIC	Tri-State Octal D Flip/Flop	SMD 642-447▲	0.520	0.470	0.380	0.280
74LVX04M	FCH	14	SOIC	Hex Inverter	SMD 101-4091●	0.350	0.240	0.157	0.118
74LVX04MTR	ST	14	SOP	Log HEX INVERTER	SMD 128-8459● RL	0.240	0.160	0.122	0.094
74LVX14TTR	ST	14	TSSOP	Log HEX INVERTER, SCHMITT	SMD 128-8462● RL	0.480	0.350	0.230	0.200
74LVX14M	FCH	14	SOIC	Hex Schmitt Trigger	SMD 101-4097● RL	0.410	0.280	0.183	0.137
74LVX125M	FCH	14	SOIC	Tri-State Quad Buffer	SMD 101-4099● RL	0.240	0.175	0.116	0.088
74LVX132TTR	ST	14	TSSOP	Log NAND Gate, Quad 2-IN	SMD 128-8458● RL	0.730	0.490	0.360	0.270
74LVXC3245TTR	ST	24	TSSOP	ICLog Bus TRANSCEIVER OCTAL	SMD 128-8494● RL	1.880	1.330	0.920	0.810
74LVX3245WM	FCH	24	SOIC	Tri-State Octal Translating Transceiver	SMD 101-4094●	1.010	0.720	0.550	0.410
74LVXC3245WM	FCH	24	SOIC	Tri-State Octal Translating Transceiver	SMD 101-4089●	2.000	1.740	1.470	1.060
74LVX4245WM	FCH	24	SOIC	Tri-State Octal Translating Transceiver	SMD 101-4095●	1.010	0.720	0.550	0.410
74LVXC4245WM	FCH	24	SOIC	Tri-State Octal Translating Transceiver	SMD 101-4101●	2.170	1.950	1.750	1.160
74LVXC3245MTC	FCH	24	TSSOP	Tri-State Octal Translating Transceiver	SMD 136-7337●	0.840	0.540	0.380	– –
74LVX3245MTC	FCH	24	TSSOP	Tri-State Octal Translating Transceiver	SMD 141-7669●	1.010	0.720	0.550	0.410
74LVX138M	FCH	16	SOIC	Expandable 3/8 Decoder	SMD 101-4100●	0.660	0.490	0.350	0.250

MIXED QUANTITY PRICING Purchase mixed products within the same family and benefit from a lower price on the total quantity ordered

IDTQS QuickSwitch Logic

IDTQS QuickSwitch Logic

New IDT

The QuickSwitch logic family is designed for high-speed bus connection and logic replacement. These devices have a sub-nano-second propagation delay, zero added noise and timing skew, and no additional static power dissipation.

528613

Mftrs. List No.	Mftr.	Pins	Pkg	Function	Order Code	Price Each 1+	10+	100+
						MIXED QUANTITY PRICING		
IDTQS4A101QG	IDT	16	QSOP	4-Channel Analog Switch	168-8299●	3.36	2.10	1.87
IDTQS3VH245PAG	IDT	20	TSSOP	8-Bit Bus Switch for Hot Swap Applications	168-8298●	0.84	0.53	0.47
IDTQS3245QG	IDT	20	QSOP	CMOS QuickSwitch 8-Bit Bus Switch	168-8293●	0.48	0.30	0.27
IDTQS32X245Q2G	IDT	40	QVSOP	CMOS QuickSwitch Double Width Bus Switch	168-8295●	1.80	1.13	1.00
IDTQS3257QG	IDT	16	QSOP	CMOS QuickSwitch Quad 2:1 Mux/Demux	168-8294●	0.84	0.53	0.47
IDTQS3384QG	IDT	24	QSOP	CMOS 10-Bit Bus Switch	168-8296●	0.56	0.35	0.31

74FST Fast Bus Switch CMOS Logic

74FST Fast Bus Switch CMOS Logic

FAIRCHILD SEMICONDUCTOR

These are High Speed CMOS TTL-compatible bus switches with low On-Resistance which allow for inputs to be connected to the outputs with minimal propagation delay and without additional ground bounce noise generated.

413337

Mftrs. List No.	Mftr.	Pins	Pkg	Function	Order Code	Price Each 1+	10+	100+
						MIXED QUANTITY PRICING		
FSTD3306L8X	FCH	8	MicroPak	2-Bit Low Power Bus Switch with Level Shifting	SMD 149-5463●	0.85	0.62	0.58
FST3125M	FCH	14	SOIC	4bit Bus Switch	SMD 101-3766●	1.31	1.07	0.74
FST3126M	FCH	14	SOIC	4bit Bus Switch	SMD 101-3767●	1.31	1.07	0.74
FST3257M	FCH	16	SOIC	8:1 Multiplexer/Demultiplexer Bus Switch	SMD 101-3770●	0.76	0.61	0.44
FST3384WM	FCH	24	SOIC	10bit Low Power Bus Switch	SMD 121-2944●	1.12	0.88	0.64

3244 (244 compatiable) 3245 (245 compatiable)

MIXED QUANTITY PRICING Purchase mixed products within the same family and benefit from a lower price on the total quantity ordered

RL Re-reeling available

Farnell

74C CMOS Logic

74C CMOS Logic

74C offers low power consumption and high noise immunity.

413340

Mftrs. List No.	Mftr.	Pins	Pkg	Function	Order Code	Price Each 1+	10+	100+
						MIXED QUANTITY PRICING		
MM74C00N	FCH	14	DIP	Quad 2 Input NAND Gate	101-3902●	1.20	0.82	0.59
MM74C74N.	FCH	14	DIP	Dual D Type Edge Triggered Flip/Flop	377-910▲	1.03	0.75	0.68
MM74C74N	FCH	14	DIP	Dual D Type Edge Triggered Flip/Flop	101-3903●	1.69	1.15	0.83
MM74C221N	FCH	16	DIP	Dual Monostable Multivibrator With Clear	101-3904●	3.86	2.64	1.96
MM74C244N	FCH	20	DIP	Octal Tri-State Buffer	101-3905●	3.55	2.42	1.80
MM74C373N	FCH	20	DIP	Tri-State Octal Transparent Latch	378-057▲	4.29	3.15	2.47
MM74C906N	FCH	14	DIP	Open Drain Buffer (Active Pull Down)	101-3906●	1.92	1.31	0.94
MM74C914N	FCH	14	DIP	Hex Schmitt Trigger,External Voltage Inputs	101-3908●	2.81	1.91	1.42
MM74C922N	FCH	18	DIP	16 Key KeyBoard Encoder	101-3909●	5.52	3.77	3.04
MM74C923N	FCH	20	DIP	20 Key KeyBoard Encoder	101-3910●	5.52	3.77	3.04

74AC Advanced CMOS Logic

74AC Advanced CMOS Logic

74AC offers high speed, reduced power consumption and has CMOS input voltage level compatibility.

413341

Mftrs. List No.	Mftr.	Pins	Pkg	Function	Order Code	Price Each 1+	10+	100+	500+
						MIXED QUANTITY PRICING			
74AC00SC	FCH	14	SOIC	Quad 2 Input NAND Gate	SMD 101-4139●	0.320	0.220	0.144	– –
CD74AC00M	TI	14	SOIC	Quad 2 Input NAND Gate	SMD 110-3061●	0.500	0.320	0.230	0.169
SN74AC00D	TI	14	SOIC	Quad 2 Input NAND Gate	SMD 959-0200●	0.182	0.147	0.115	– –
74AC10PC	FCH	14	DIP	Triple 3 Input Positive NAND Gate	101-4021●	0.300	0.240	0.199	0.150
74AC02PC..	FCH	14	DIP	Quad 2 Input Positive NOR Gate	383-491▲	0.159	0.127	0.107	0.086
74AC02PC	FCH	14	DIP	Quad 2 Input Positive NOR Gate	101-4016●	0.188	0.153	0.124	0.094
74AC02SC	FCH	14	SOIC	Quad 2 Input Positive NOR Gate	SMD 101-4156●	0.380	0.260	0.167	– –
CD74AC02M	TI	14	SOIC	Quad 2 Input Positive NOR Gate	SMD 958-9546●	0.210	0.169	0.130	– –
74AC08PC..	FCH	14	DIP	Quad 2 Input Positive AND Gate	383-510▲	0.165	0.133	0.109	0.087
74AC08PC	FCH	14	DIP	Quad 2 Input Positive AND Gate	101-4019●	0.168	0.138	0.111	0.085
74AC08SC..	FCH	14	SOIC	Quad 2 Input Positive AND Gate	SMD 687-820▲	0.159	0.121	0.113	– –
CD74AC08M	TI	14	SOIC	Quad 2 Input Positive AND Gate	SMD 110-3065●	0.500	0.320	0.230	0.169
SN74AC08D	TI	14	SOIC	Quad 2 Input Positive AND Gate	SMD 959-0226●	0.112	0.090	0.070	– –
74AC11PC	FCH	14	DIP	Triple 3 Input Positive AND Gate	383-533▲	0.320	0.250	0.210	0.168
74AC32PC..	FCH	14	DIP	Quad 2 Input Positive OR Gate	383-557▲	0.165	0.127	0.107	0.086
74AC32PC	FCH	14	DIP	Quad 2 Input Positive OR Gate	101-4023●	0.300	0.200	0.142	0.099
74AC32SC	FCH	14	SOIC	Quad 2 Input Positive OR Gate	SMD 101-4142●	0.200	0.152	0.099	– –
CD74AC32M.	TI	14	SOIC	Quad 2 Input Positive OR Gate	SMD 489-013	0.168	0.134	0.121	0.086
CD74AC32M	TI	14	SOIC	Quad 2 Input Positive OR Gate	SMD 110-3073●	0.290	0.220	0.177	0.128
SN74AC32D	TI	14	SOIC	Quad 2 Input Positive OR Gate	SMD 959-0269●	0.250	0.200	0.158	– –
74AC32MTC	FCH	14	TSSOP	Quad 2-Input OR Gate	SMD 136-7344●	0.128	0.106	0.092	0.066
74AC86SC	FCH	14	SOIC	Quad 2-Input Exclusive OR Gate	SMD 101-4151●	0.340	0.240	0.154	– –
SN74AC86D	TI	14	SOIC	Quadruple 2-Input EXCLUSIVE-OR GateS	SMD 128-7469●	0.220	0.200	0.159	0.123
CD74AC86E	TI	14	DIP	Quad 2-Input Exclusive OR Gate	110-5997●	0.290	0.220	0.188	0.137
CD74AC86M.	TI	14	SOIC	Quad 2-Input Exclusive OR Gate	SMD 489-098	0.300	0.290	0.280	0.270
CD74AC86M	TI	14	SOIC	Quad 2-Input Exclusive OR Gate	SMD 110-3082●	0.270	0.200	0.185	0.139
74AC74PC	FCH	14	DIP	Dual D Type Edge Triggered Flip/Flop	101-4024●	0.450	0.330	0.240	0.168
74AC74SC	FCH	14	SOIC	Dual D Type Edge Triggered Flip/Flop	SMD 101-4143●	0.380	0.260	0.167	– –
CD74AC74E	TI	14	DIP	Dual D Type Edge Triggered Flip/Flop	958-9554●	0.470	0.330	0.270	– –
CD74AC74M	TI	14	SOIC	Dual D Type Edge Triggered Flip/Flop	SMD 110-3078●	0.500	0.280	0.185	0.149
SN74AC74D	TI	14	SOIC	Dual D Type Edge Triggered Flip/Flop	SMD 959-0307●	0.450	0.300	0.220	– –
74AC175MTC	FCH	16	TSSOP	Quad D-Type Flip-Flop	SMD 141-7651●	0.290	0.220	0.169	0.146
74AC374PC	FCH	20	DIP	Tri-State Octal D Flip/Flop	383-661▲	0.360	0.260	0.220	0.169
CD74AC574M	TI	20	SOIC	Octal D Type Flip/Flop	SMD 110-3081●	0.640	0.470	0.340	0.260
74AC273PC	FCH	20	DIP	Octal D Type Flip/Flop With Clear	101-4028●	0.320	0.210	0.156	0.112
CD74AC273M	TI	20	SOIC	Octal D Type Flip/Flop With Clear	SMD 110-3072●	0.680	0.480	0.360	0.270
74AC04PC	FCH	14	DIP	Hex Inverter	101-4017●	0.380	0.260	0.170	0.127
74AC04SC..	FCH	14	SOIC	Hex Inverter	SMD 687-686▲	0.159	0.121	0.113	– –
74AC04SC	FCH	14	SOIC	Hex Inverter	SMD 101-4140●	0.370	0.250	0.169	– –
CD74AC04E	TI	14	DIP	Hex Inverter	110-2987●	0.510	0.310	0.200	0.153
CD74AC04M	TI	14	SOIC	Hex Inverter	SMD 110-3062●	0.470	0.320	0.230	0.169
SN74AC04D	TI	14	SOIC	Hex Inverter	SMD 959-0218●	0.250	0.200	0.158	– –
CD74AC05M	TI	14	SOIC	Hex Inverter (OC)	SMD 110-3063●	0.450	0.320	0.230	0.169
74AC14PC	FCH	14	DIP	Hex Schmitt Trigger	101-4022●	0.490	0.330	0.240	0.168
74AC14SC	FCH	14	SOIC	Hex Schmitt Trigger	SMD 101-4141● RL	0.380	0.250	0.169	– –
CD74AC14M	TI	14	SOIC	Hex Schmitt Trigger	SMD 110-6055●	0.500	0.320	0.230	0.169
SN74AC14D	TI	14	SOIC	Hex Schmitt Trigger	SMD 959-0234●	0.450	0.310	0.200	– –
74AC138PC	FCH	16	DIP	Expandable 3/8 Decoder	101-4025●	0.460	0.300	0.210	0.157
CD74AC138M	TI	16	SOIC	Expandable 3/8 Decoder	SMD 110-3066●	0.430	0.310	0.220	0.151
CD74AC157M.	TI	16	SOIC	Quad 2 Input Multiplexer	SMD 488-951	0.400	0.310	0.290	0.210
CD74AC157M	TI	16	SOIC	Quad 2 Input Multiplexer	SMD 110-3068●	0.370	0.270	0.194	0.148
CD74AC161E	TI	16	DIP	Synchronous 4 Bit Binary Counter	110-2991●	0.490	0.370	0.290	0.220
CD74AC161M	TI	16	SOIC	Synchronous 4 Bit Binary Counter	SMD 110-3069●	0.650	0.410	0.290	0.220
74AC125MTC	FCH	14	TSSOP	Quad Buffer with 3-STATE Outputs	SMD 136-7336●	0.167	0.134	0.110	0.098
74AC244PC..	FCH	20	DIP	Octal Tri-State Buffer	383-624▲	0.260	0.197	0.165	0.127
74AC244PC	FCH	20	DIP	Octal Tri-State Buffer	101-4026●	0.370	0.300	0.230	0.174
74AC244SC	FCH	20	SOIC	Octal Tri-State Buffer	SMD 101-4154● RL	0.420	0.280	0.200	– –
CD74AC244E	TI	20	DIP	Octal Tri-State Buffer	110-5998●	0.400	0.330	0.280	0.220
CD74AC244M	TI	20	SOIC	Octal Tri-State Buffer	SMD 110-3070●	0.430	0.300	0.260	0.210
SN74AC244PW	TI	20	TSSOP	Octal Tri-State Buffer	SMD 959-0242●	0.400	0.330	0.260	– –
74AC245PC..	FCH	20	DIP	Octal Tri-State Transceiver	383-636▲	0.230	0.169	0.146	0.113
74AC245PC	FCH	20	DIP	Octal Tri-State Transceiver	101-4027●	0.540	0.350	0.250	0.183
74AC245SC	FCH	20	SOIC	Octal Tri-State Transceiver	SMD 101-4153●	0.167	0.129	0.107	– –
CD74AC245M	TI	20	SOIC	Octal Tri-State Transceiver	SMD 110-3071●	0.380	0.300	0.270	0.220
SN74AC245DW	TI	20	SOIC	Octal Tri-State Transceiver	SMD 959-0250●	0.620	0.460	0.330	– –
CD74AC257M	TI	16	SOIC	Quad 2-Input Non-Inverting Multiplexers With 3-State Outputs, 74AC CMOSLogic	SMD 838-9004●	1.650	1.290	1.160	– –
SN74AC373DW	TI	20	SOIC	Tri-State Octal Transparent Latch	SMD 959-0277●	0.400	0.330	0.260	– –
SN74AC374DW	TI	20	SOIC	Octal D-Type Edge-Triggered Flip-flop with 3-State Output	NEW SMD 160-7720●	0.380	0.250	0.194	– –
MC74AC540NG	ON	20	DIP	Octal Buffer/Line Driver with 3-State Output	NEW 160-7769●	0.450	0.270	0.210	– –
74AC541PC	FCH	20	DIP	Octal Buffer and Line DR/RX Non-Inverting	383-685▲	0.490	0.360	0.320	0.240
74AC541SC	FCH	20	SOIC	Octal Buffer and Line DR/RX Non-Inverting	SMD 101-4152●	0.460	0.300	0.210	– –
CD74AC541E	TI	20	DIP	Octal Buffer and Line DR/RX Non-Inverting	121-4403●	0.490	0.360	0.260	0.185

RL Re-reeling available

74AC Advanced CMOS Logic - continued

74AC Advanced CMOS Logic - continued

Mftrs. List No.	Mftr.	Pins	Pkg	Function	Order Code	Price Each 1+	10+	100+	500+
						MIXED QUANTITY PRICING			
CD74AC541M.	TI	20	SOIC	Octal Buffer and Line DR/RX Non-Inverting	SMD 489-049	0.340	0.280	0.250	0.175
CD74AC541M	TI	20	SOIC	Octal Buffer and Line DR/RX Non-Inverting	SMD 110-3075●	0.620	0.400	0.290	0.210
MC74AC573DWG	ON	20	WSOIC	Octal Buffer/Line Driver with 3-State Output	SMD 160-7715● NEW	0.330	0.195	0.158	– –
74AC16244DL	TI	48	SSOP	Tri-State Output 16-Bit Line Driver	SMD 958-9481●	1.160	0.830	0.620	– –
CD74AC573E	TI	20	DIP	Octal D Type Latches	110-5999●	0.820	0.520	0.380	0.280
CD74AC573M	TI	20	SOIC	Octal D Type Latches	SMD 110-3079●	0.810	0.520	0.380	0.280
SN74AC573DW	TI	20	SOIC	Octal D Type Latches	SMD 959-0285●	0.620	0.460	0.330	– –
SN74AC573PW	TI	20	TSSOP	Octal D Type Latches	SMD 959-0293●	0.640	0.480	0.350	– –
CD74AC373M	TI	20	SOIC	Tri-State Octal Transparent Latch	SMD 110-3074●	0.700	0.520	0.380	0.280

MIXED QUANTITY PRICING Purchase mixed products within the same family and benefit from a lower price on the total quantity ordered

74ACT Advanced CMOS Logic

74ACT Advanced CMOS Logic

FAIRCHILD SEMICONDUCTOR™ TEXAS INSTRUMENTS

74ACT offers high speed, reduced power consumption and has TTL input voltage level compatibility.

413342

Mftrs. List No.	Mftr.	Pins	Pkg	Function	Order Code	Price Each 1+	10+	100+	500+
						MIXED QUANTITY PRICING			
74ACT00SC	FCH	14	SOIC	Quad 2 Input NAND Gate	SMD 101-4144●	0.320	0.220	0.144	– –
CD74ACT00E	TI	14	DIP	Quad 2 Input NAND Gate	110-2992●	0.280	0.210	0.191	0.155
CD74ACT00M	TI	14	SOIC	Quad 2 Input NAND Gate	SMD 110-3083●	0.260	0.194	0.177	0.144
SN74ACT00D	TI	14	SOIC	Quad 2 Input NAND Gate	SMD 959-0315●	0.250	0.200	0.158	– –
CD74ACT02M.	TI	14	SOIC	Quad 2 Input Positive NOR Gate	SMD 489-116	0.168	0.134	0.121	0.086
CD74ACT02M	TI	14	SOIC	Quad 2 Input Positive NOR Gate	SMD 110-3084●	0.500	0.320	0.230	0.169
74ACT04SC	FCH	14	SOIC	Hex Inverter	SMD 101-4145●	0.370	0.250	0.169	– –
CD74ACT04E	TI	14	DIP	Hex Inverter	110-2993●	0.340	0.250	0.177	0.128
CD74ACT04M	TI	14	SOIC	Hex Inverter	SMD 110-3085●	0.500	0.320	0.230	0.169
SN74ACT04D	TI	14	SOIC	Hex Inverter	SMD 959-0323●	0.250	0.200	0.158	– –
SN74ACT04PW	TI	14	TSSOP	Hex Inverter	SMD 959-0331●	0.157	0.129	0.095	– –
SN74ACT08D	TI	14	SOIC	Quadruple 2-Input Positive-AND GateS	SMD 128-7470●	0.300	0.260	0.196	0.137
74ACT08SC	FCH	14	SOIC	Quad 2 Input Positive AND Gate	SMD 101-4147●	0.320	0.220	0.144	– –
CD74ACT08E	TI	14	DIP	Quad 2 Input Positive AND Gate	110-6000●	0.380	0.290	0.260	0.185
CD74ACT08M	TI	14	SOIC	Quad 2 Input Positive AND Gate	SMD 110-3086●	0.260	0.135	0.101	0.097
CD74ACT14E	TI	14	DIP	Hex Schmitt Trigger	110-2994●	0.510	0.260	0.185	0.149
CD74ACT14M	TI	14	SOIC	Hex Schmitt Trigger	SMD 110-3087●	0.500	0.310	0.200	0.154
SN74ACT14D	TI	14	SOIC	Hex Schmitt Trigger	SMD 959-0340●	0.450	0.310	0.200	– –
74ACT32SC..	FCH	14	SOIC	Quad 2 Input Positive OR Gate	SMD 687-765▲	0.178	0.146	0.133	– –
74ACT32SC	FCH	14	SOIC	Quad 2 Input Positive OR Gate	SMD 101-4149●	0.220	0.185	0.144	– –
CD74ACT32M	TI	14	SOIC	Quad 2 Input Positive OR Gate	SMD 110-3092●	0.250	0.176	0.126	0.095
SN74ACT32D	TI	14	SOIC	Quad 2 Input Positive OR Gate	SMD 959-0382●	0.250	0.200	0.158	– –
74ACT74PC	FCH	14	DIP	Dual D Type Edge Triggered Flip/Flop	384-010▲	0.430	0.330	0.240	0.168
74ACT74SC..	FCH	14	SOIC	Dual D Type Edge Triggered Flip/Flop	SMD 687-868▲	0.165	0.140	0.127	– –
74ACT74SC	FCH	14	SOIC	Dual D Type Edge Triggered Flip/Flop	SMD 101-4159●	0.380	0.260	0.170	– –
CD74ACT74E	TI	14	DIP	Dual D Type Edge Triggered Flip/Flop	120-2015●	0.420	0.280	0.220	0.160
CD74ACT74M	TI	14	SOIC	Dual D Type Edge Triggered Flip/Flop	SMD 110-3098●	0.310	0.210	0.157	0.100
SN74ACT74D	TI	14	SOIC	Dual D Type Edge Triggered Flip/Flop	SMD 959-0420●	0.450	0.300	0.220	– –
SN74ACT86D	TI	14	SOIC	Quadruple 2-Input EXCLUSIVE-OR GateS	SMD 128-7498●	0.300	0.260	0.200	0.152
SN74ACT86PW	TI	14	SOIC	Quadruple 2-Input EXCLUSIVE-OR GateS	SMD 128-7447●	0.185	0.160	0.119	0.086
CD74ACT86M.	TI	14	SOIC	Quad 2-Input Exclusive OR Gate	SMD 489-281	0.290	0.210	0.168	0.129
CD74ACT86M	TI	14	SOIC	Quad 2-Input Exclusive OR Gate	SMD 110-3099●	0.590	0.420	0.340	0.300
74ACT138PC	FCH	16	DIP	Expandable 3/8 Decoder	384-021▲	0.420	0.360	0.310	0.240
74ACT138SC	FCH	16	SOIC	Expandable 3/8 Decoder	SMD 101-4161●	0.159	0.143	0.120	– –
CD74ACT138M.	TI	16	SOIC	Expandable 3/8 Decoder	SMD 489-293	0.250	0.197	0.168	0.123
CD74ACT138M	TI	16	SOIC	Expandable 3/8 Decoder	SMD 110-3100●	0.430	0.340	0.230	0.157
CD74ACT163M.	TI	16	SOIC	Binary Synchronous 4 Bit Counter	SMD 489-311	0.340	0.260	0.240	0.168
CD74ACT163M	TI	16	SOIC	Binary Synchronous 4 Bit Counter	SMD 110-3102●	0.290	0.220	0.177	0.135
CD74ACT164E	TI	14	DIP	8 Bit Serial In/Parallel Out Shift Register	110-2995●	0.650	0.410	0.290	0.220
74ACT240PC	FCH	20	DIP	Octal Tri-State Inverter Buffer	384-070▲	0.480	0.420	0.360	0.260
74ACT244PC..	FCH	20	DIP	Octal Tri-State Buffer	384-082▲	0.230	0.220	0.195	0.140
74ACT244PC	FCH	20	DIP	Octal Tri-State Buffer	101-4029●	0.430	0.380	0.350	0.250
SN74ACT244PWE4	TI	20	TSSOP	Octal Buffer/Line Driver (3-State)	128-7446●	0.510	0.400	0.300	0.240
74ACT244SC	FCH	20	SOIC	Octal Tri-State Buffer	SMD 101-4150●	0.450	0.300	0.220	– –
CD74ACT244E	TI	20	DIP	Octal Tri-State Buffer	110-6001●	0.450	0.330	0.210	0.145
CD74ACT244M	TI	20	SOIC	Octal Tri-State Buffer	SMD 110-3089●	0.820	0.520	0.380	0.280
SN74ACT244DW	TI	20	SOIC	Octal Tri-State Buffer	SMD 959-0358●	0.490	0.330	0.220	– –
74ACT245PC	FCH	20	DIP	Octal Tri-State Transceiver	101-4030●	0.540	0.340	0.250	0.182
74ACT245SC	FCH	20	SOIC	Octal Tri-State Transceiver	SMD 101-4148●	0.460	0.320	0.230	– –
CD74ACT245E.	TI	20	DIP	Octal Tri-State Transceiver	383-909	0.400	0.300	0.250	0.200
CD74ACT245E	TI	20	DIP	Octal Tri-State Transceiver	110-6002●	0.720	0.460	0.330	0.240
CD74ACT245M	TI	20	SOIC	Octal Tri-State Transceiver	SMD 110-3091●	0.720	0.460	0.330	0.240
SN74ACT245DW	TI	20	SOIC	Octal Tri-State Transceiver	SMD 959-0366●	0.430	0.280	0.198	– –
SN74ACT245PW	TI	20	TSSOP	Octal Tri-State Transceiver	SMD 959-0374●	0.400	0.330	0.260	– –
CD74ACT273E	TI	20	DIP	Octal D Type Flip/Flop With Clear	110-6003●	0.720	0.460	0.330	0.240
74ACT373PC	FCH	20	DIP	Tri-State Octal Transparent Latch	384-100▲	0.360	0.320	0.280	0.195
CD74ACT373M.	TI	20	SOIC	Tri-State Octal Transparent Latch	SMD 489-220	0.450	0.350	0.300	0.230
CD74ACT373M	TI	20	SOIC	Tri-State Octal Transparent Latch	SMD 110-3093●	0.830	0.640	0.570	0.460
CD74ACT374M.	TI	20	SOIC	Tri-State Octal D Flip/Flop	SMD 489-232	0.510	0.370	0.310	0.240
CD74ACT374M	TI	20	SOIC	Tri-State Octal D Flip/Flop	SMD 110-3094●	0.550	0.390	0.330	0.240
MC74ACT540NG	ON	20	PDIP	Octal Buffer/Line Driver with 3-State Output	NEW 160-7927●	0.450	0.270	0.210	– –
CD74ACT541E	TI	20	DIP	Octal Buffer and Line DR/RX Non-Inverting	110-6005●	0.650	0.410	0.300	0.220
CD74ACT541M	TI	20	SOIC	Octal Buffer and Line DR/RX Non-Inverting	SMD 110-3095●	0.720	0.460	0.330	0.240
74ACT573PC	FCH	20	DIP	Octal D Type Latches	101-4033●	0.570	0.360	0.260	0.193
CD74ACT573E.	TI	20	DIP	Octal D Type Latches	383-971	0.460	0.330	0.280	0.220
CD74ACT573E	TI	20	DIP	Octal D Type Latches	110-2996●	0.770	0.560	0.480	0.400
CD74ACT573M	TI	20	SOIC	Octal D Type Latches	SMD 110-3096●	0.720	0.460	0.330	0.240
SN74ACT573DW	TI	20	SOIC	Octal D Type Latches	SMD 959-0390●	0.720	0.460	0.330	– –
SN74ACT573PW	TI	20	TSSOP	Octal D Type Latches	SMD 959-0404●	0.400	0.330	0.260	– –
CD74ACT573M	TI	20	SOIC	Octal D Type Latches	SMD 110-3096●	0.720	0.460	0.330	0.240
74ACT574PC	FCH	20	DIP	Octal D Type Flip/Flop	101-4034●	0.490	0.420	0.370	0.280
74ACT574SC	FCH	20	SOIC	Octal D Type Flip/Flop	SMD 101-4157●	0.460	0.300	0.210	– –
CD74ACT574M	TI	20	SOIC	Octal D Type Flip/Flop	SMD 110-3097●	0.430	0.340	0.250	0.193

RL Re-reeling available

Farnell

Mftrs. List No.	Mftr.	Pins	Pkg	Function	Order Code	Price Each 1+	10+	100+	500+
						MIXED QUANTITY PRICING			
SN74ACT574DW	TI	20	SOIC	Octal D Type Flip/Flop	SMD 959-0412	0.720	0.460	0.330	– –
CD74ACT646EN	TI	24	DIP	Octal TS Bus Transceiver Non-Inverting	121-9428	1.470	1.040	0.800	0.670
CD74ACT646M	TI	24	SOIC	Octal TS Bus Transceiver Non-Inverting	SMD 110-3103	3.430	2.550	2.210	1.850
74ACT11244DW	TI	24	SOIC	Octal Buffer/Line Driver (3-State)	SMD 112-1591	2.110	1.440	1.070	– –
74ACT16244DL	TI	48	SSOP	Tri-State Output 16-Bit Line Driver	SMD 958-9490	1.190	0.810	0.580	– –
74ACT16244DGGR	TI	48	TSSOP	16-Bit Buffers/Line Drivers With 3-State Outputs	NEW SMD 160-0184 RL	1.030	0.760	0.570	0.490
74ACT16244MTDX	FCH	48	TSSOP	16bit Buffer/Driver with 3-State Output	NEW SMD 160-7590 RL	0.930	0.600	0.480	– –
74ACT16245DL	TI	48	SSOP	Tri-State Output 16-Bit Bus Transceiver	SMD 958-9503	1.810	1.450	1.120	– –
74ACT16374DL	TI	48	SSOP	Tri-State Output 16-Bit D-Type Flip-Flop	SMD 958-9511	1.390	1.110	0.860	– –

74ABT Advanced Bus Interface Logic

74ABT Advanced Bus Interface Logic

As well as offering the fastest speeds available, each ABT device delivers low power dissipation and low noise during simultaneous switching of all outputs. In addition the Philips QUBiC advanced BiCMOS process offers standby power of essentially zero.

413351

Mftrs. List No.	Mftr.	Pins	Pkg	Function	Order Code	Price Each 1+	10+	100+	250+
						MIXED QUANTITY PRICING			
74ABT125D.	NXP	14	SOIC	Tri-State Quad Buffer	SMD 568-790	0.450	0.290	0.260	0.210
74ABT125D	NXP	14	SOIC	Tri-State Quad Buffer	SMD 108-5352	0.660	0.400	0.280	0.200
SN74ABT125D	TI	14	SOIC	Tri-State Quad Buffer	SMD 959-0099	0.450	0.300	0.220	– –
SN74ABT244APW	TI	20	TSSOP	Octal Buffer/Line Driver (3-State)	SMD 128-7464	0.510	0.400	0.300	0.240
74ABT244D	NXP	20	SOIC	Octal Tri-State Buffer	SMD 108-5348	0.960	0.590	0.430	0.310
74ABT244N	NXP	20	DIP	Octal Tri-State Buffer	204-160	1.000	0.680	0.560	0.450
SN74ABT244ADW	TI	20	SOIC	Octal Tri-State Buffer	SMD 959-0145	0.720	0.460	0.330	– –
74ABT245D	NXP	20	SOIC	Octal Tri-State Transceiver	SMD 108-5349	0.880	0.580	0.430	0.330
SN74ABT245BDW	TI	20	SOIC	Octal Tri-State Transceiver	SMD 959-0153	0.650	0.410	0.290	– –
SN74ABT245BPW	TI	20	TSSOP	Octal Tri-State Transceiver	SMD 959-0161	0.520	0.400	0.300	– –
74ABT541D	NXP	20	SOIC	Octal Buffer and Line DR/RX Non-Inverting	SMD 108-5350	0.930	0.600	0.450	0.340
SN74ABT541BDW	TI	20	SOIC	Octal Buffer and Line DR/RX Non-Inverting	SMD 959-0170	0.770	0.520	0.380	– –
74ABT573AD	NXP	20	SOIC	Octal D Type Latches	SMD 108-5351	0.420	0.280	0.250	0.189
SN74ABT573ADW	TI	20	SOIC	Octal D Type Latches	SMD 959-0188	0.700	0.460	0.330	– –
SN74ABT16244ADL	TI	48	SSOP	Tri-State Output 16-Bit Line Driver	SMD 959-0102	1.010	0.820	0.630	– –
SN74ABT16245ADL	TI	48	SSOP	Tri-State Output 16-Bit Bus Transceiver	SMD 959-0110	1.070	0.760	0.580	– –
SN74ABT16373ADL	TI	48	SSOP	Tri-State Output 16-Bit Transparent Latch	SMD 959-0129	1.010	0.820	0.630	– –
SN74ABT16374ADL	TI	48	SSOP	Tri-State Output 16-Bit D-Type Flip-Flop	SMD 959-0137	1.010	0.820	0.630	– –
SN74ABT162244DL	TI	48	SSOP	16bit Buffer/Driver with 3-State Output	NEW SMD 162-1015	0.970	0.770	0.580	0.420

MIXED QUANTITY PRICING Purchase mixed products within the same family and benefit from a lower price on the total quantity ordered

74CBT/CBTLV Crossbar Technology Logic

74CBTLV Low-Voltage Crossbar Technology Logic

411489

Mftrs. List No.	Mftr.	Pins	Pkg	Function	Order Code	Price Each 1+	10+	100+
						MIXED QUANTITY PRICING		
SN74CBTLV1G125DCKR	TI	5	SC-70	Low-Voltage Single FET Bus SWITCH	128-7483	0.47	0.30	0.22
SN74CBTLV3125PW	TI	14	TSSOP	Low-Voltage Quadruple FET Bus SWITCH	SMD 128-7484	0.90	0.70	0.54
SN74CBTLV3245APW	TI	20	TSSOP	Tri-State Octal Translating Transceiver	SMD 959-0854	0.70	0.58	0.47
SN74CBTLV3253PW	TI	16	TSSOP	Low-Voltage Dual 1-OF-4 FET MULTIPLEXER/DEMULTIPLEXER	SMD 128-7534	0.90	0.79	0.60
SN74CBTLV3257PW	TI	16	TSSOP	Quad 2:1 Mux/Demux Bus Switch	SMD 959-0862	0.91	0.77	0.61
SN74CBTLV3384PW	TI	24	SOIC	Low-Voltage 10-Bit FET Bus Switch	SMD 128-7528	0.63	0.49	0.37

492619

Mftr.	Pins	Pkg	Function	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
TI	48	SSOP	20bit FET Bus Switch with Level Shifting	SN74CBTD16210DL	NEW SMD 162-1006	2.100	1.520	1.300	1.230	1.160
TI	56	SSOP	24bit FET Bus Switch with Level Shifting	SN74CBTD16211DL	NEW SMD 162-1008	2.330	1.670	1.280	1.200	1.160
TI	14	TSSOP	Quadruple FET Bus SWITCH	SN74CBT3125PW	SMD 128-7547	0.320	0.260	0.188	0.150	0.126
TI	14	QFN	Quadruple FET 2.5V / 3.3V Low Voltage High Bandwidth Bus Switch	SN74CB3Q3125RGYR	NEW SMD 160-1164 RL	0.820	0.630	0.490	0.340	0.280
TI	20	TSSOP	Octal FET Bus Switch	SN74CBT3245APWR	NEW SMD 162-1013 RL	0.470	0.330	0.240	0.220	0.210
TI	16	SOIC	4bit 1-Of-2 FET Multiplexer/Demultiplexer	SN74CBT3257D	SMD 128-7476	0.350	0.300	0.220	0.168	0.154
TI	8	TSSOP	Dual FET Bus Switch 2.5V / 3.3V Low Voltage, High Bandwidth	SN74CB3Q3305PW	NEW SMD 160-1165	0.840	0.560	0.390	0.280	0.240
TI	8	TSSOP	Dual FET Bus Switch	SN74CBT3306PW	SMD 128-7486	0.450	0.360	0.280	0.210	0.183
TI	8	SOIC	Dual FET Bus Switch	SN74CBT3306PWG4	SMD 128-7487	0.540	0.420	0.330	0.260	0.220
TI	8	TSSOP	Dual FET Bus Switch With Level Shifting	SN74CBTD3306PW	SMD 128-7557	0.400	0.310	0.240	0.185	0.158
TI	24	TSSOP	10-Bit FET Bus SWITCHES With LEVEL SHIFTING	SN74CBTD3384PW	SMD 128-7507	0.670	0.520	0.380	0.300	0.260
TI	24	TSSOP	10bit FET Bus Switch with Level Shifting	SN74CBTD3384PWR	NEW SMD 160-7857 RL	0.330	0.194	0.157	– –	– –
TI	24	SOIC	FET Bus Switch	SN74CBTD3861PW	SMD 128-7480	0.450	0.370	0.300	0.240	0.200

MIXED QUANTITY PRICING Purchase mixed products within the same family and benefit from a lower price on the total quantity ordered

RL Re-reeling available

74LS Low Power Schottky TTL

74LS Low Power Schottky TTL

Low Power Schottky offers the same speed as standard TTL but at one-fifth the power consumption.

413356

Mftrs. List No.	Mftr.	Pins	Pkg	Function	Order Code	Price Each 1+	10+	100+	250+
						MIXED QUANTITY PRICING			
SN74LS00D	TI	14	SOIC	Quad 2 Input NAND Gate	SMD 959-2156	0.460	0.330	0.250	– –
SN74LS00N.	TI	14	DIP	Quad 2 Input NAND Gate	110-6069	0.470	0.320	0.230	– –
SN74LS02N.	TI	14	DIP	Quad 2 Input Positive NOR Gate	110-6071	0.450	0.320	0.230	– –
SN74LS02NSR	TI	14	SOIC	Quad 2-Input Positive-NOR GateS	SMD 123-6240 RL	0.220	0.154	0.116	0.099
SN74LS04D	TI	14	SOIC	Hex Inverter	SMD 959-4574	0.500	0.320	0.230	– –
SN74LS04N..	TI	14	DIP	Hex Inverter	110-6072	0.490	0.320	0.230	– –
SN74LS04NSR	TI	14	SOIC	Hex Inverters	SMD 123-6241 RL	0.290	0.197	0.144	0.117
SN74LS05D	TI	14	SOIC	Hex Inverter (OC)	SMD 959-2164	0.500	0.320	0.230	– –
SN74LS05N	TI	14	DIP	Hex Inverter (OC)	110-5903	0.260	0.220	0.180	– –
SN74LS06D	TI	14	SOIC	Hex Inverter Buffer / Driver (OC)	SMD 959-2172	0.810	0.670	0.600	– –
SN74LS06NG4	TI	14	DIP	Hex Inverter Buffer / Driver (OC)	959-2180	0.810	0.670	0.600	– –
SN74LS07D	TI	14	SOIC	Hex Buffer Driver (OC)	SMD 959-2199	0.800	0.570	0.440	– –
SN74LS08NG4	TI	14	DIP	Quad 2 Input Positive AND Gate	959-2210	0.460	0.330	0.250	– –
SN74LS08D	TI	14	PDIP	Quadruple 2-Input Positive-AND GateS	SMD 128-7549	0.500	0.320	0.230	0.169
SN74LS11D	TI	14	SOIC	Triple 3-Input Positive-AND GateS	SMD 123-6242	0.330	0.250	0.191	0.157
SN74LS14D	TI	14	SOIC	Hex Schmitt Trigger	SMD 959-2326	0.430	0.270	0.196	– –
SN74LS14N.	TI	14	DIP	Hex Schmitt Trigger	110-6073	0.490	0.320	0.230	– –
SN74LS32D	TI	14	SOIC	Quad 2 Input Positive OR Gate	SMD 959-2393	0.250	0.210	0.183	– –
SN74LS32N.	TI	14	DIP	Quad 2 Input Positive OR Gate	110-6074	0.460	0.300	0.210	– –
SN74LS47N.	TI	16	DIP	BCD to 7 Segment Decoder/Driver (15V)	110-6075	1.280	0.910	0.700	– –
SN74LS74AD	TI	14	SOIC	Dual D Type Edge Triggered Flip/Flop	SMD 959-2466	0.250	0.210	0.183	– –
SN74LS74AN	TI	14	DIP	Dual D Type Edge Triggered Flip/Flop	110-5907	0.350	0.300	0.210	– –
SN74LS75N.	TI	16	DIP	Quad Bi-Stable Latch	110-6076	1.000	0.840	0.670	– –
SN74LS85N.	TI	16	DIP	4 Bit mAgnitude Comparator	110-6078	0.760	0.620	0.470	– –
SN74LS86AN.	TI	14	DIP	Quad 2-Input Exclusive OR Gate	110-6079	0.460	0.300	0.210	– –
SN74LS90N	TI	14	DIP	Decade Divide-by-12 and Binary Counter	NEW 147-0790	1.110	0.890	0.660	0.630
SN74LS123D	TI	16	SOIC	Dual One Shot Multivibrator	SMD 110-5904	0.350	0.320	0.260	– –
SN74LS125AD	TI	14	SOIC	Tri-State Quad Buffer	SMD 959-2245	0.650	0.410	0.290	– –
SN74LS138D	TI	16	SOIC	Expandable 3/8 Decoder	SMD 959-2288	0.500	0.360	0.310	– –
SN74LS138N.	TI	16	DIP	Expandable 3/8 Decoder	110-6080	0.650	0.410	0.290	– –
SN74LS139AN	TI	16	DIP	Dual 2 to 4 Decoder Demultiplexer	959-2296	0.650	0.410	0.290	– –
SN74LS145D	TI	16	SOIC	BCD to DecimAl Decoder/Driver (OC)	SMD 959-2300	0.600	0.450	0.330	– –
SN74LS157D	TI	16	PDIP	Quadruple 2-Line To 1-Line Data Selectors/Multiplexers	SMD 128-7513	0.360	0.310	0.250	0.200
SN74LS157N	TI	16	DIP	Quad 2 Input Multiplexer	110-5906	0.430	0.350	0.280	– –
SN74LS161ANSR	TI	16	SOIC	Synchronous 4-Bit Binary Counters	SMD 123-6243 RL	0.380	0.260	0.194	0.160
SN74LS164N	TI	14	DIP	8 Bit Serial In/Parallel Out Shift Register	117-8439	0.250	0.197	0.162	– –
SN74LS165AD	TI	16	SOIC	8 Bit Parallel In/Serial Out Shift Register	SMD 959-2334	0.470	0.380	0.290	– –
SN74LS166AD	TI	16	SOIC	SERIAL-OUT SHIFT REGISTERS	SMD 123-6245	0.440	0.300	0.210	0.184
SN74LS166AN	TI	16	SOIC	SERIAL-OUT SHIFT REGISTERS	128-7536	0.670	0.560	0.420	0.330
SN74LS193N.	TI	16	DIP	Synchronous Binary Up/Down Counter	110-6082	0.720	0.510	0.390	– –
SN74LS221DBR	TI	16	SSOP	Dual MONOSTABLE MULTIVIBRATORS With SCHMITT-TRIGGER InputS	SMD 123-6247 RL	0.460	0.340	0.270	0.220
SN74LS240N.	TI	20	DIP	Octal Tri-State Inverter Buffer	110-6083	0.740	0.480	0.340	– –
SN74LS243D	TI	14	SOIC	Quad Bus TRANSCEIVERS	SMD 123-6248	1.660	1.180	0.890	0.750
SN74LS244DW	TI	20	SOIC	Octal Tri-State Buffer	SMD 959-2342	0.780	0.500	0.360	– –
SN74LS244N.	TI	20	DIP	Octal Tri-State Buffer	110-6084	0.780	0.500	0.360	– –
SN74LS245DW	TI	20	SOIC	Octal Tri-State Transceiver	SMD 959-2350	0.780	0.500	0.360	– –
SN74LS245N.	TI	20	DIP	Octal Tri-State Transceiver	110-6085	0.680	0.500	0.360	– –
SN74LS247N	TI	16	DIP	BCD-To-Seven-Segment Decoders/Drivers	959-2369	1.280	0.910	0.700	– –
SN74LS253D	TI	16	SOIC	Dual 4-Line To 1-Line Data Selectors/Multiplexers With 3-State Outputs	SMD 123-6249	0.580	0.390	0.290	0.260
SN74LS259BN	TI	16	DIP	8 Bit Addressable Latch	SMD 959-2377	0.860	0.640	0.480	– –
SN74LS273DW	TI	20	TSSOP	Octal D-Type Flip-Flops With Clear	SMD 128-7537	0.540	0.470	0.340	0.250
SN74LS279AD	TI	16	SOIC	Quad /S-/R LATCHES	SMD 123-6251	0.550	0.420	0.320	0.280
SN74LS367AD	TI	16	SOIC	Hex Bus Drivers With 3-State Outputs	SMD 123-6253	0.610	0.450	0.330	0.270
SN74LS373DW	TI	20	SOIC	Tri-State Octal Transparent Latch	SMD 959-2407	0.720	0.460	0.330	– –
SN74LS373N.	TI	20	DIP	Tri-State Octal Transparent Latch	110-6086	0.720	0.460	0.330	– –
SN74LS374DW	TI	20	SOIC	Tri-State Octal D Flip/Flop	SMD 959-2415	0.590	0.460	0.330	– –
SN74LS374NG4	TI	20	DIP	Tri-State Octal D Flip/Flop	959-2423	0.640	0.470	0.340	– –
SN74LS390N	TI	16	DIP	Dual Decade Ripple Counter	121-4446	0.610	0.510	0.420	– –
SN74LS393N.	TI	14	DIP	Dual 4 Bit Binary Ripple Counter	110-6087	0.800	0.570	0.440	– –
SN74LS540N	TI	20	PDIP	Octal Buffer/Line Driver (3-State)	128-7550	1.070	0.760	0.580	0.440
SN74LS541DW	TI	20	SOIC	Octal Buffer and Line DR/RX Non-Inverting	SMD 959-2431	0.910	0.680	0.520	– –
SN74LS590N	TI	16	PDIP	8-Bit Binary Counters With Output Registers And 3-State Outputs	NEW 160-0188	5.530	3.920	3.180	2.910
SN74LS592D	TI	16	SOIC	8-Bit Binary Counters With Input Registers	SMD 123-6255	6.140	4.650	3.740	3.130
SN74LS645-1DW	TI	20	SOIC	Octal Bus Transceivers	SMD 123-6256	1.340	0.900	0.880	0.860
SN74LS684N	TI	20	DIP	8 Bit mAgnitude Comparator	121-4447	2.740	2.310	1.840	– –

74ALS Advanced Low Power Schottky TTL

74ALS Advanced Low Power Schottky TTL

413363

Mftrs. List No.	Mftr.	Pins	Pkg	Function	Order Code	Price Each 1+	10+	100+	250+
						MIXED QUANTITY PRICING			
DM74ALS00AN	FCH	14	DIP	Quad 2 Input NAND Gate	101-4162	0.490	0.330	0.240	0.168
SN74ALS00AD	TI	14	SOIC	Quad 2 Input NAND Gate	SMD 958-9392	0.550	0.410	0.290	– –
SN74ALS00AN	TI	14	DIP	Quad 2 Input NAND Gate	110-5945	0.680	0.410	0.330	– –
DM74ALS02N	FCH	14	DIP	Quad 2 Input Positive NOR Gate	792-263▲	0.290	0.210	0.146	0.106
SN74ALS02AN	TI	14	DIP	Quad 2 Input Positive NOR Gate	110-5946	0.680	0.430	0.310	– –
DM74ALS04BM	FCH	14	SOIC	Hex Inverter	SMD 632-508▲	0.390	0.270	0.196	0.137
DM74ALS04BN	FCH	14	DIP	Hex Inverter	792-305▲	0.330	0.250	0.166	0.121
SN74ALS04BD	TI	14	SOIC	Hex Inverter	SMD 958-9406	0.310	0.250	0.188	– –
SN74ALS04BN	TI	14	DIP	Hex Inverter	110-5947	0.680	0.430	0.310	– –
DM74ALS05AN	FCH	14	DIP	Hex Inverter (OC)	101-4163	0.420	0.300	0.240	0.150
SN74ALS08D	TI	14	TSSOP	Quadruple 2-Input Positive-AND GateS	SMD 128-7458	0.340	0.290	0.220	0.160
SN74ALS08N	TI	14	DIP	Quad 2 Input Positive AND Gate	110-5948	0.680	0.430	0.310	– –
DM74ALS09N	FCH	14	DIP	Quad 2 Input Positive AND Gate (OC)	792-317▲	0.380	0.290	0.230	0.150
SN74ALS10AN	TI	14	DIP	Triple 3-Input Positive NAND Gate	NEW 160-7809	0.360	0.220	0.171	– –
DM74ALS14N	FCH	14	DIP	Hex Schmitt Trigger	101-4176	1.760	0.870	0.700	0.510
DM74ALS20AN	FCH	14	DIP	Dual 4 Input Positive NAND Gate	793-140▲	0.310	0.143	0.123	0.120
DM74ALS21AN	FCH	14	DIP	Dual 4 Input Positive AND Gate	793-152▲	0.400	0.199	0.136	0.104
DM74ALS32N	FCH	14	DIP	Quad 2 Input Positive OR Gate	101-4164	0.490	0.330	0.240	0.168
SN74ALS32N	TI	14	DIP	Quad 2 Input Positive OR Gate	121-9427	0.650	0.410	0.290	– –
SN74ALS74AN	TI	14	DIP	Dual D Type Edge Triggered Flip/Flop	110-5950	0.780	0.500	0.360	– –
SN74ALS573CN..	TI	20	DIP	Dual J-K mAster Slave Flip/Flop	377-510	0.430	0.280	0.250	– –

RL Re-reeling available

Mftrs. List No.	Mftr.	Pins	Pkg	Function	Order Code	Price Each 1+	10+	100+	250+
						MIXED QUANTITY PRICING			
SN74ALS573CN	TI	20	DIP	Dual J-K mAster Slave Flip/Flop	110-5960●	0.740	0.530	0.410	– –
DM74ALS74AN	FCH	14	DIP	Dual D Type Edge Triggered Flip/Flop	792-457▲	0.610	0.460	0.370	0.162
SN74ALS574BN..	TI	20	DIP	Dual D Type Edge Triggered Flip/Flop	377-521	0.430	0.280	0.250	– –
SN74ALS574BN	TI	20	DIP	Dual D Type Edge Triggered Flip/Flop	110-5961●	0.740	0.530	0.410	– –
DM74ALS86N.	FCH	14	DIP	Quad 2-Input Exclusive OR Gate	792-469▲	0.350	0.165	0.133	0.119
SN74ALS112AN	TI	16	DIP	Dual J-K Negative-Edge-Triggered Flip-Flop with Clear and Preset	NEW 160-7722●	0.570	0.330	0.260	– –
DM74ALS125N	FCH	14	DIP	Tri-State Quad Buffer	101-4175●	1.040	0.880	0.750	0.590
DM74ALS138M	FCH	16	SOIC	Expandable 3/8 Decoder	SMD 101-4078●	0.500	0.320	0.230	0.169
DM74ALS138N..	FCH	16	DIP	Expandable 3/8 Decoder	792-470▲	0.068	– –	– –	– –
DM74ALS138N	FCH	16	DIP	Expandable 3/8 Decoder	101-4172●	0.460	0.230	0.177	0.161
SN74ALS138N	TI	16	DIP	Expandable 3/8 Decoder	110-5951●	0.480	0.300	0.280	– –
SN74ALS139D	TI	16	SOIC	Dual 2-to-4 Line Decoder/Demultiplexer	NEW SMD 160-7693●	0.420	0.270	0.210	– –
DM74ALS153N	FCH	16	DIP	Dual 4 Input Multiplexer	101-4177●	0.500	0.370	0.290	0.181
DM74ALS163BN	FCH	16	DIP	Binary Synchronous 4 Bit Counter	792-482▲	0.930	0.710	0.530	0.360
DM74ALS175N	FCH	16	DIP	Quad D Type Edge Triggered Flip/Flop	793-073▲	1.070	0.540	0.440	0.260
SN74ALS240AN	TI	20	DIP	Octal Tri-State Inverter Buffer	110-5952●	0.820	0.590	0.450	– –
DM74ALS244AN	FCH	20	DIP	Octal Tri-State Buffer	101-4173●	0.890	0.430	0.340	0.210
DM74ALS244AWM.	FCH	20	SOIC	Octal Tri-State Buffer	SMD 632-545▲	0.490	0.230	0.220	0.138
DM74ALS244AWM	FCH	20	SOIC	Octal Tri-State Buffer	SMD 101-4082●	0.350	0.240	0.175	0.145
SN74ALS244CDW	TI	20	SOIC	Octal Tri-State Buffer	SMD 958-9414●	0.770	0.550	0.420	– –
SN74ALS244CN	TI	20	DIP	Octal Tri-State Buffer	110-5953●	0.770	0.550	0.420	– –
DM74ALS245AN..	FCH	20	DIP	Octal Tri-State Transceiver	792-512▲	0.470	0.250	0.210	0.179
DM74ALS245AN	FCH	20	DIP	Octal Tri-State Transceiver	101-4174●	0.680	0.330	0.280	0.177
SN74ALS245ADW	TI	20	SOIC	Octal Tri-State Transceiver	SMD 110-6068●	0.770	0.550	0.420	0.320
SN74ALS245AN	TI	20	DIP	Octal Tri-State Transceiver	110-5955●	0.770	0.550	0.420	– –
DM74ALS273N	FCH	20	DIP	Octal D Type Flip/Flop With Clear	792-524▲	0.700	0.340	0.310	0.182
SN74ALS273N	TI	20	DIP	Octal D-Type Flip-Flop with Clear	NEW 160-7723●	0.610	0.370	0.290	– –
DM74ALS373N	FCH	20	DIP	Tri-State Octal Transparent Latch	792-536▲	0.740	0.480	0.340	0.250
DM74ALS373WM	FCH	20	SOIC	Tri-State Octal Transparent Latch	SMD 101-4084●	0.400	0.210	0.171	0.156
SN74ALS374AN	TI	20	DIP	Tri-State Octal D Flip/Flop	110-5956●	0.740	0.530	0.410	– –
DM74ALS540AN	FCH	20	DIP	Octal Buffer and Line DR/RX Inverted	792-354▲	0.440	0.310	0.240	0.230
SN74ALS540DW	TI	20	SOIC	Octal Buffer and Line DR/RX Inverted	SMD 959-0803●	2.420	1.750	1.400	– –
SN74ALS540N	TI	20	DIP	Octal Buffer and Line DR/RX Inverted	110-5958●	0.840	0.710	0.620	– –
DM74ALS541N.	FCH	20	DIP	Octal Buffer and Line DR/RX Non-Inverting	792-366▲	0.610	0.340	0.280	0.220
DM74ALS541N	FCH	20	DIP	Octal Buffer and Line DR/RX Non-Inverting	101-4165●	0.720	0.510	0.390	0.290
SN74ALS541DW	TI	20	SOIC	Octal Buffer and Line DR/RX Non-Inverting	SMD 959-0811●	1.340	1.060	0.770	– –
SN74ALS541N	TI	20	DIP	Octal Buffer and Line DR/RX Non-Inverting	110-5959●	1.200	0.850	0.650	– –
DM74ALS573BN	FCH	20	DIP	Octal D Type Latches	101-4166●	1.580	1.060	0.830	0.600
SN74ALS573CDW	TI	20	SOIC	Octal D Type Latches	SMD 959-0820●	0.740	0.530	0.410	– –
DM74ALS574AN	FCH	20	DIP	Octal D Type Flip/Flop	101-4167●	0.860	0.630	0.490	0.370
DM74ALS645AN	FCH	20	DIP	Octal Bus Transceiver	101-4168●	0.850	0.400	0.330	0.300

74FCT Fast CMOS Technology Logic

74 FCT Fast CMOS Technology Logic

New

The FCT logic family is designed for high-current-drive, bus-interface applications.

528614

Mftrs. List No.	Mftr.	Pins	Pkg	Function	Order Code	Price Each 1+	10+	100+
						MIXED QUANTITY PRICING		
IDT74FCT244ATSOG	IDT	20	SOIC	Fast CMOS Octal Buffer/Line Driver	168-8289●	0.950	0.560	0.400
CY74FCT244ATSOC	TI	20	SOIC	Octal Buffer/Line Driver with 3-State Output	SMD 147-0769●	0.520	0.360	0.280
CY74FCT245ATPC	TI	20	DIP	8bit Transceiver	SMD 147-0923●	0.650	0.410	0.290
CY74FCT245TSOC	TI	20	SOIC	8bit Transceiver	SMD 147-0920●	0.390	0.280	0.210
CY74FCT573ATPC	TI	20	DIP	Octal Transparent D-Type Latch with 3-State Output	160-7830●	0.340	0.220	0.171
IDT74FCT807BTSOG	IDT	20	SOIC	1:10 Clock Driver w/TTL Outputs	168-8292●	5.300	3.120	2.260
CY74FCT825CTQCT	TI	24	SSOP	D-Type Flip-Flop (3-State)	SMD 838-9144●	0.400	0.330	0.300
IDT74FCT2245ATQG	IDT	20	QSOP	Octal Bi-Directional Transceiver	168-8288●	0.950	0.560	0.400
IDT74FCT3244AQG	IDT	20	QSOP	Octal Buffer/Line Driver	168-8290●	2.100	1.240	0.890
IDT74FCT3807SOG	IDT	20	SOIC	1:10 Clock Driver	168-8291●	2.050	1.210	0.870
IDT74FCT16245ATPVG	IDT	48	SSOP	16-Bit Bi-Directional Transceiver	168-8287●	1.700	1.000	0.720

74F 'FAST' TTL

74F 'FAST' TTL

74F offer very high switching speeds together with the output drive capability of LS TTL.

413364

Mftrs. List No.	Mftr.	Pins	Pkg	Function	Order Code	Price Each 1+	10+	100+	250+
						MIXED QUANTITY PRICING			
SN74F00D	TI	14	PDIP	Quad 2-Input Positive-NAND GateS	SMD 128-7490●	0.220	0.200	0.154	0.112
74F00PC..	FCH	14	DIP	Quad 2 Input NAND Gate	376-061▲	0.360	0.230	0.181	0.133
74F00SC	FCH	14	SOIC	Quad 2 Input NAND Gate	SMD 632-636▲	0.380	0.260	0.185	0.130
N74F00N	NXP	14	DIP	Quad 2 Input NAND Gate	376-590●	0.400	0.280	0.200	– –
74F02PC	FCH	14	DIP	Quad 2 Input Positive NOR Gate	376-073▲	0.310	0.210	0.167	0.109
74F02SC	FCH	14	SOIC	Quad 2 Input Positive NOR Gate	SMD 632-648▲	0.430	0.290	0.230	0.150
74F04PC	FCH	14	DIP	Hex Inverter	101-3884●	0.490	0.330	0.240	0.168
SN74F04D	TI	14	SOIC	Hex Inverter	SMD 110-6054●	0.410	0.270	0.196	– –
N74F07N	NXP	14	DIP	Hex driver With open collector outputs	120-1276●	1.160	0.790	0.630	– –
SN74F08D	TI	14	TSSOP	Quadruple 2-Input Positive-AND Gate	SMD 128-7542●	0.158	0.140	0.107	0.077
74F08PC	FCH	14	DIP	Quad 2 Input Positive AND Gate	101-3885●	0.300	0.210	0.152	0.102
74F14PC..	FCH	14	DIP	Hex Schmitt Trigger	376-127▲	0.280	0.178	0.121	0.082
74F14PC	FCH	14	DIP	Hex Schmitt Trigger	101-3886●	0.133	0.111	0.104	0.099
SN74F32D	TI	14	SOIC	Quad 2-Input Positive-OR GateS	SMD 128-7488●	0.158	0.140	0.107	0.077
74F32PC..	FCH	14	DIP	Quad 2 Input Positive OR Gate	376-164▲	0.220	0.127	0.093	0.067
74F32PC	FCH	14	DIP	Quad 2 Input Positive OR Gate	101-3887●	0.230	0.131	0.094	0.091
74F38PC	FCH	14	DIP	Quad 2 Input NAND Buffer (OC)	376-188▲	0.290	0.186	0.143	0.095
SN74F74D	TI	14	SOIC	Dual Positive-Edge-Triggered D-Type Flip-Flops With Clear And Preset	SMD 128-7495●	0.168	0.132	0.109	0.092
SN74F74N	TI	14	PDIP	Dual Positive-Edge-Triggered D-Type Flip-Flops With Clear And Preset	128-7535●	0.270	0.210	0.155	0.111
74F74PC..	FCH	14	DIP	Dual D Type Edge Triggered Flip/Flop	376-190▲	0.220	0.146	0.101	0.082

RL Re-reeling available

Farnell

74F 'FAST' TTL - continued

74F 'FAST' TTL - continued

Mftrs. List No.	Mftr.	Pins	Pkg	Function	Order Code	Price Each 1+	10+	100+	250+
						MIXED QUANTITY PRICING			
74F74PC	FCH	14	DIP	Dual D Type Edge Triggered Flip/Flop	101-3888●	0.430	0.270	0.196	0.145
74F86PC	FCH	14	DIP	Quad 2-Input Exclusive OR Gate	101-3891●	0.290	0.180	0.124	0.115
SN74F125D	TI	14	PDIP	Quadruple Bus Buffer Gate With 3-State Outputs	SMD 128-7529●	0.220	0.200	0.155	0.111
74F125PC	FCH	14	DIP	Tri-State Quad Buffer	376-231▲	0.520	0.360	0.230	0.141
74F138PC..	FCH	16	DIP	Expandable 3/8 Decoder	376-243▲	0.320	0.220	0.140	0.097
74F138PC	FCH	16	DIP	Expandable 3/8 Decoder	101-3893●	0.450	0.310	0.197	0.159
74F14PC	FCH	14	DIP	Hex Schmitt Trigger	101-3886●	0.133	0.111	0.104	0.099
SN74F138D	TI	16	SOIC	Expandable 3/8 Decoder	SMD 959-4558●	0.280	0.240	0.193	– –
74F153PC	FCH	16	DIP	Dual 4 Input Multiplexer	376-267▲	0.600	0.420	0.280	0.162
SN74F153D	TI	16	SOIC	Dual 1-OF-4 Data Selectors/MULTIPLEXERS	SMD 128-7477●	0.177	0.151	0.120	0.092
SN74F157AD	TI	16	PDIP	Quadruple 2-Line To 1-Line Data Selectors/Multiplexers	SMD 128-7481●	0.134	0.120	0.093	0.075
74F157APC	FCH	16	DIP	Quad 2 Input Multiplexer	376-279▲	0.112	0.110	0.108	0.106
74F161APC	FCH	16	DIP	Synchronous 4 Bit Binary Counter	376-292▲	0.680	0.430	0.310	0.230
74F163APC	FCH	16	DIP	Binary Synchronous 4 Bit Counter	376-309▲	0.650	0.460	0.260	0.171
74F174SC	FCH	16	SOIC	Hex D Type Flip/Flop With Clear	SMD 632-752▲	0.400	0.310	0.240	0.159
74F175PC	FCH	16	DIP	Quad D Type Edge Triggered Flip/Flop	376-346▲	0.790	0.550	0.350	0.210
74F193PC..	FCH	16	DIP	Synchronous Binary Up/Down Counter	376-371▲	0.960	0.660	0.490	0.380
74F193PC	FCH	16	DIP	Synchronous Binary Up/Down Counter	101-3894●	2.000	1.370	1.010	0.660
SN74F240N	TI	20	DIP	Octal Buffer/Driver with 3-State Output	NEW 166-7381●	0.470	0.360	0.270	0.199
SN74F244DW	TI	20	SOIC	OCTAL TRI-STATE BUFFER DIP20	SMD 128-7510●	0.400	0.330	0.250	0.183
SN74F244NE4	TI	20	TSSOP	Octal Buffer/Line Driver (3-State)	128-7511●	0.470	0.350	0.260	0.195
74F244PC	FCH	20	DIP	Octal Tri-State Buffer	376-401▲	0.720	0.460	0.330	0.240
SN74F245N	TI	20	SOIC	Octal Bus Transceivers	128-7532●	0.390	0.280	0.220	0.177
74F245PC	FCH	20	DIP	Octal Tri-State Transceiver	101-3896●	0.680	0.430	0.310	0.230
74F245SC.	FCH	20	SOIC	Octal Tri-State Transceiver	SMD 632-776▲	0.280	0.176	0.144	0.102
74F245SC	FCH	20	SOIC	Octal Tri-State Transceiver	SMD 101-4088●	0.340	0.230	0.167	0.116
SN74F245DW	TI	20	SOIC	Octal Tri-State Transceiver	SMD 958-9422●	0.570	0.360	0.260	– –
74F373PC.	FCH	20	DIP	Tri-State Octal Transparent Latch	376-450▲	0.260	0.181	0.176	0.172
74F373PC	FCH	20	DIP	Tri-State Octal Transparent Latch	101-3897●	0.470	0.320	0.240	0.198
74F373SC	FCH	20	SOIC	Tri-State Octal Transparent Latch	SMD 632-788▲	0.600	0.370	0.320	0.210
SN74F373DW	TI	20	TSSOP	Octal D-Type Transparent Latches	SMD 128-7533●	0.290	0.210	0.159	0.123
SN74F374N	TI	20	DIP	Octal D-Type Edge-Triggered Flip-Flop	NEW 166-7382●	0.470	0.360	0.270	0.199
74F521PC	FCH	20	DIP	Octal Comparator	101-3898●	0.730	0.470	0.330	0.230
74F541PC	FCH	20	DIP	Octal Buffer and Line DR/RX Non-Inverting	101-3899●	0.870	0.610	0.490	0.310
74F543SPC	FCH	24	DIP	Octal Registered Transceiver	NEW 160-7894●	0.970	0.610	0.490	– –
CY74FCT573ATPC	TI	20	DIP	Octal Transparent D-Type Latch with 3-State Output	NEW 160-7830●	0.340	0.220	0.171	– –
74F573PC	FCH	20	DIP	Octal D Type Latches	101-3901●	0.610	0.390	0.280	0.192
CY74FCT825CTQCT	TI	24	SSOP	74FCT, 8-Bit Bus Interface Flip-Flops With 3-State Outputs	SMD 838-9144●	0.400	0.330	0.300	– –
74F827SPC	FCH	24	DIP	10 Bit Buffer/Line Driver	376-565▲	2.490	2.070	1.770	1.320

MIXED QUANTITY PRICING Purchase mixed products within the same family and benefit from a lower price on the total quantity ordered

74 TTL

74 TTL

Designed for use in basic circuits where speed and power consumption are not critical.

413366

Mftrs. List No.	Mftr.	Pins	Pkg	Function	Order Code	Price Each 1+	10+	100+	+
						MIXED QUANTITY PRICING			
SN7400N	TI	14	DIP	Quad 2 Input NAND Gate	110-5937●	0.80	0.63	0.50	– –
SN7404NG4	TI	14	DIP	Hex Inverter	959-0056●	1.44	1.16	0.86	– –
SN7406D	TI	14	SOIC	Hex Inverter Buffer / Driver (OC)	SMD 959-0064●	0.85	0.61	0.47	– –
SN7406N	TI	14	DIP	Hex Inverter Buffer / Driver (OC)	110-5938●	0.78	0.61	0.46	– –
SN7407D	TI	14	SOIC	Hex Buffer Driver (OC)	SMD 959-0072●	0.85	0.61	0.47	– –
SN7407N	TI	14	DIP	Hex Buffer Driver (OC)	110-5939●	0.68	0.57	0.43	– –
SN7417N	TI	14	DIP	Hex Buffer/Driver (OC)	110-5940●	1.13	0.78	0.66	– –
SN7425N	TI	14	DIP	Dual 4 Input Positive NOR Gate	110-5941●	1.16	0.79	0.61	– –
SN7447AN	TI	16	DIP	BCD to 7 Segment Decoder/Driver (15V)	959-0080●	1.46	1.12	0.90	– –
SN74121N	TI	14	DIP	One Shot Multivibrator	110-5943●	1.46	0.98	0.79	– –
SN74123N	TI	16	DIP	Dual One Shot Multivibrator	110-5908●	1.19	0.97	0.81	– –
SN74128N	TI	16	DIP	Quad 2 Input NOR Line Driver	110-5944●	0.85	0.60	0.47	– –
SN74150N	TI	24	DIP	16 Line Multiplexer	110-5909●	1.86	1.50	1.20	– –

4000 CMOS

4000 CMOS

4000 CMOS offers low power consumption, high noise immunity and operates over 3V to 15V (18V max.).

413385

Mftrs. List No.	Mftr.	Pins	Pkg	Function	Order Code	Price Each 1+	10+	100+	250+	500+
						MIXED QUANTITY PRICING				
CD4001BCM	FCH	14	SOIC	Quad 2 Input NOR Gate	SMD 101-4053● RL	0.320	0.220	0.146	– –	– –
CD4001BE	TI	14	DIP	Quad 2 Input NOR Gate	110-6096	0.410	0.270	0.194	0.136	0.102
CD4001BM	TI	14	SOIC	CMOS Quad 2-Input NOR Gate	SMD 112-1596●	0.340	0.230	0.169	– –	– –
HEF4001BP	NXP	14	DIP	Quad 2 I/p NOR Gate	384-434●	0.570	0.420	0.320	0.250	0.220
HEF4001BT	NXP	14	SOIC	Dual 2 Input NAND Gate (Driver)	SMD 108-5277●	0.320	0.220	0.162	0.136	0.117
MC14001BCPG	ON	14	DIP	Quad 2-Input NOR Gate	966-5455●	0.460	0.360	0.260	– –	– –
MC14001BDG	ON	14	SOIC	Quad 2-Input NOR Gate	SMD 966-6303●	0.188	0.150	0.110	– –	– –
MC14001UBDG	ON	14	SOIC	Quad 2 Input NOR Gate	SMD 119-1820●	0.220	0.125	0.096	– –	– –
HEF4002BP	NXP	14	DIP	Dual 4 Input NOR Gate	384-471●	0.880	0.630	0.460	0.340	0.280
HEF4002BT	NXP	14	SOIC	Dual 4 Input NOR Gate	SMD 108-5278●	0.590	0.460	0.330	0.220	0.195
CD4007UBE	TI	14	DIP	CMOS Dual Complementary Pair Plus Inverter	112-1597●	0.340	0.220	0.170	– –	– –
HCF4007UBEY	ST	14	DIP	Dual Complementary Pair plus Inverter	975-5543●	0.410	0.270	0.197	0.144	0.124
MC14007UBCPG	ON	14	DIP	4000 CMOS	966-4556●	0.250	0.132	0.124	– –	– –
MC14007UBDG	ON	14	SOIC	Dual Comparator Pair Plus Inverter	SMD 966-5110●	0.310	0.210	0.182	– –	– –
MC14008BCPG	ON	16	DIP	4bit Full Adder	966-5757●	0.560	0.490	0.370	– –	– –

RL Re-reeling available

Mftrs. List No.	Mftr.	Pins	Pkg	Function	Order Code	Price Each 1+	10+	100+	250+	500+
						MIXED QUANTITY PRICING				
HCF4010M013TR	ST	16	SOIC	LogIC HEX BUFFER/CONVERTERS	SMC 128-8446● RL	0.360	0.270	0.184	0.161	0.131
CD4011BCM	FCH	14	SOIC	Quad 2 Input NAND Gate	SMC 101-4056● RL	0.320	0.220	0.146	0.110	0.082
CD4011BE	TI	14	DIP	Quad 2 Input NAND Gate	110-6098●	0.410	0.270	0.194	0.136	0.102
HEF4011BP	NXP	14	DIP	Quad 2 I/p NAND Gate	384-574●	0.480	0.420	0.330	0.220	0.200
HEF4011BT	NXP	14	SOIC	Quad 2 Input NAND Gate	SMC 108-5279●	0.320	0.210	0.144	0.108	0.080
HEF4011UBP	NXP	14	DIP	Quad 2 Input NAND Gate	120-1286●	0.420	0.340	0.250	0.185	0.145
CD4012BE	TI	14	DIP	CMOS Dual 4-Input NAND Gate	112-1599●	0.300	0.220	0.158	– –	– –
CD40107BE	TI	8	DIP	CMOS Dual 2-Input NAND Buffer/Driver	112-1598●	0.430	0.280	0.198	– –	– –
MC14011BCPG	ON	14	DIP	Quad 2-Input NAND Gate	966-5463●	0.460	0.360	0.260	– –	– –
MC14011BDG	ON	14	SOIC	Quad 2-Input NAND Gate	SMC 966-6311●	0.410	0.320	0.220	– –	– –
MC14012BCPG	ON	14	DIP	4000 CMOS	966-4572●	0.460	0.310	0.240	– –	– –
MC14012BDG	ON	14	SOIC	4000 Series CMOSLogIC (SO)	SMC 966-4840●	0.450	0.290	0.210	– –	– –
CD4013BCN	FCH	14	DIP	Dual D Flip/Flop With Set/Reset	101-4035●	0.430	0.300	0.220	0.152	0.115
CD4013BCM	FCH	14	SOIC	Dual D Flip/Flop With Set/Reset	SMC 101-4057● RL	0.380	0.260	0.172	0.129	0.096
CD4013BE	TI	14	DIP	Dual D Flip/Flop With Set/Reset	110-6099●	0.410	0.270	0.194	0.136	0.102
CD4013BM	TI	14	SOIC	D Type Flip-Flop, 4000 CMOSLogic	SMC 112-2459●	0.450	0.300	0.220	– –	– –
HCF4013BM1	ST	14	SOIC	Dual D Flip/Flop With Set/Reset	SMC 109-4187●	0.310	0.220	0.184	0.119	0.109
HEF4013BP	NXP	14	DIP	Dual D F/F S/R	384-630●	0.710	0.600	0.440	0.380	0.320
HEF4013BT	NXP	14	SOIC	Dual D Flip/Flop With Set/Reset	SMC 120-1288●	0.320	0.220	0.195	0.169	0.156
MC14013BCPG	ON	14	DIP	Dual Type D Flip/Flop	966-5471●	0.550	0.450	0.320	– –	– –
MC14013BDG	ON	14	SOIC	Dual Type D Flip/Flop	SMC 966-6320●	0.300	0.192	0.164	– –	– –
MC14014BCPG	ON	16	DIP	4000 CMOS	966-4580●	0.300	0.240	0.168	– –	– –
CD4015BE	TI	16	DIP	Registers, 4000 CMOSLogic	225-6447●	0.540	0.340	0.250	– –	– –
HCF4015BEY	ST	16	DIP	Dual 4 Bit Static Shift Register	311-8587▲	0.420	0.360	0.340	0.210	0.177
HEF4015BP	NXP	16	DIP	Dual 4 Bit Static Shift Register	SMC 384-677●	0.540	0.530	0.520	0.390	0.360
MC14015BCPG	ON	16	DIP	4000 CMOS	966-4599●	0.250	0.188	0.134	– –	– –
MC14015BDG	ON	16	SOIC	4000 Series CMOSLogIC (SO)	SMC 966-4858●	0.620	0.490	0.300	– –	– –
CD4016BCM	FCH	14	SOIC	Quad Bi-Lateral Switch	SMC 101-4058● RL	0.420	0.340	0.250	0.141	0.121
CD4016BCN	FCH	14	DIP	Quad Bi-Lateral Switch	101-4070●	0.450	0.300	0.220	– –	– –
CD4016BE	TI	14	TSSOP	CMOS Quad BILATERAL SWITCH	128-7422●	0.310	0.240	0.177	0.141	0.118
HEF4016BP	NXP	14	DIP	Quad Bi-Lateral Switch	384-690●	0.500	0.490	0.440	0.390	0.360
MC14016BCPG	ON	14	DIP	Quad AnaLog Switch/Quad Multiplexer	966-5706●	0.580	0.400	0.280	– –	– –
MC14016BDG	ON	14	SOIC	Quad AnaLog Switch/Quad Multiplexer	SMC 966-6338●	0.195	0.142	0.102	– –	– –
CD4017BE	TI	16	DIP	Decade Counter / Divider	110-6100●	0.430	0.270	0.196	0.145	0.116
HEF4017BP	NXP	16	DIP	Decade Counter / Divider	384-720●	0.830	0.820	0.780	0.490	0.450
HEF4017BT	NXP	16	SOIC	Decade Counter / Divider	SMC 108-5280●	0.430	0.310	0.210	0.182	0.176
MC14017BCPG	ON	16	DIP	4000 CMOS	966-6621●	0.590	0.410	0.290	– –	– –
MC14017BDG	ON	16	SOIC	Decade Counter / Divider	SMC 110-4712●	0.310	0.250	0.192	– –	– –
HCF4017M013TR	ST	16	SOIC	Log DECADE COUNTER	SMC 128-8447● RL	0.500	0.310	0.240	0.210	0.167
MC14018BCPG	ON	16	DIP	4000 CMOS	966-4602●	0.390	0.250	0.177	– –	– –
MC14018BD	ON	16	SOIC	Presettable Divide-by-N Counter	SMC 354-8340▲	0.560	0.340	0.260	– –	– –
CD4020BE	TI	16	DIP	14 Stage Ripple Carry Binary Counter	110-6101	0.250	0.188	0.132	0.110	0.095
HEF4020BP	NXP	16	DIP	14 Stage Ripple Carry Binary Counter	384-781●	0.590	0.550	0.400	0.350	0.310
HCF4020BEY	ST	16	DIP	14 Stage Ripple Carry Binary Counter	109-4188●	0.580	0.500	0.350	0.300	0.230
MC14020BCPG	ON	16	DIP	14-Bit Binary Counter	966-5480●	0.610	0.520	0.370	– –	– –
CD4021BCM	FCH	16	SOIC	8 Bit Static Shift Register	SMC 101-4059●	0.380	0.260	0.187	0.131	0.099
CD4021BCN	FCH	16	DIP	8 Bit Static Shift Register	101-4036●	0.510	0.330	0.240	0.175	0.141
HCF4021BEY	ST	16	DIP	8 Bit Static Shift Register	311-8642▲	0.320	0.300	0.280	0.260	0.240
HEF4021BP	NXP	16	DIP	8 Bit Static Shift Register	SMC 384-800●	0.440	0.340	0.270	0.200	0.165
MC14020BDG	ON	16	SOIC	8 Bit Static Shift Register	SMC 119-1821●	0.350	0.290	0.220	– –	– –
MC14021BCPG	ON	16	DIP	8bit Static Shift Register	966-5498●	0.450	0.340	0.250	– –	– –
HEF4023BP	NXP	14	DIP	Triple 3 Input NAND Gate	384-847●	0.550	0.400	0.300	0.220	0.166
MC14023BCPG	ON	14	DIP	Triple 3-Input NAND Gate	966-5501●	0.340	0.240	0.161	– –	– –
MC14023BDG	ON	14	SOIC	Triple 3 Input NAND Gate	SMC 119-1823●	0.220	0.142	0.110	– –	– –
HEF4024BP	NXP	14	DIP	7 Bit Binary Counter	384-860●	0.560	0.410	0.330	0.320	0.290
MC14024BCPG	ON	14	DIP	4000 CMOS	966-4610●	0.300	0.175	0.143	– –	– –
MC14024BDG	ON	14	SOIC	4000 Series CMOSLogIC (SO)	SMC 966-4866●	0.310	0.270	0.192	– –	– –
HEF4025BP	NXP	14	DIP	Triple 3 Input NOR Gate	384-896●	0.580	0.410	0.330	0.320	0.300
MC14025BCPG	ON	14	DIP	Triple 3-Input NOR Gate	966-5285●	0.580	0.400	0.280	– –	– –
MC14025BDG	ON	14	SOIC	Triple 3 Input NOR Gate	SMC 119-1824●	0.370	0.220	0.161	– –	– –
CD4027BE	TI	16	DIP	Dual J-K Flip/Flop	110-6102●	0.450	0.300	0.220	0.151	0.114
HCF4027BEY	ST	16	DIP	Dual J-K Flip/Flop	120-6490●	0.260	0.189	0.151	0.124	0.121
HEF4027BP	NXP	16	DIP	Dual J-K Flip/Flop	384-938●	0.660	0.650	0.600	0.490	0.420
HEF4027BT	NXP	16	SOIC	Dual J-K Flip/Flop	SMC 108-5282●	0.460	0.340	0.310	0.220	0.210
MC14027BCPG	ON	16	DIP	Dual J-K Flip-Flop	966-5510●	0.620	0.420	0.300	– –	– –
MC14027BDG	ON	16	SOIC	Dual J-K Flip-Flop	SMC 966-6354●	0.690	0.470	0.340	– –	– –
HCF4028BEY	ST	16	DIP	BCD-to-DecimAl Decoder	109-4189●	0.370	0.270	0.220	0.177	0.151
HEF4028BP	NXP	16	DIP	BCD-to-DecimAl Decoder	SMC 384-963●	0.640	0.570	0.500	0.390	0.350
MC14028BCPG	ON	16	DIP	BCD-to-DecimAl Decoder	966-5528●	0.460	0.350	0.270	– –	– –
MC14028BDG	ON	16	SOIC	BCD-to-DecimAl Decoder	SMC 966-6362●	0.380	0.290	0.192	– –	– –
MC14029BCPG	ON	16	DIP	4000 CMOS	966-4629●	0.500	0.430	0.310	– –	– –
HEF4030BP	NXP	14	DIP	Quad EX-OR Gate	385-013●	0.540	0.380	0.300	0.260	0.210
HEF4030BT	NXP	14	SOIC	Quad EX-OR Gate	SMC 120-1267●	0.380	0.290	0.220	0.182	0.150
CD4040BE	TI	16	DIP	12 Bit Binary Ripple Counter/Divider	110-6103●	0.450	0.300	0.220	0.152	0.115
HEF4040BP	NXP	16	DIP	12 Bit Binary Ripple Counter/Divider	385-086●	0.700	0.530	0.460	0.410	0.400
HEF4040BT	NXP	16	SOIC	12 Bit Binary Ripple Counter/Divider	SMC 120-1289●	0.510	0.430	0.380	0.360	0.280
MC14040BCPG	ON	16	DIP	12-Bit Binary Counter	966-5544●	0.630	0.470	0.330	– –	– –
MC14040BDG	ON	16	SOIC	12-Bit Binary Counter	SMC 966-6370●	0.400	0.310	0.240	– –	– –
HCF4042BEY	ST	16	DIP	Quad D Latch	109-4192●	0.550	0.380	0.330	0.220	0.198
MC14042BCPG	ON	16	DIP	4000 CMOS	966-4637●	0.390	0.290	0.194	– –	– –
HEF4043BP	NXP	16	DIP	Quad Tri-State NOR R/S Latch	385-165●	0.710	0.610	0.520	0.440	0.410
CD4043BE	TI	16	DIP	CMOS Quad NOR R/S Latch With 3-State Outputs	112-1602●	0.540	0.340	0.250	– –	– –
MC14043BCPG	ON	16	DIP	4000 CMOS	966-4645●	0.680	0.450	0.330	– –	– –
MC14043BDG	ON	16	SOIC	Quad R-S Latches	SMC 966-5145●	0.460	0.310	0.260	– –	– –
HEF4044BP	NXP	16	DIP	Quad Tri-State NAND R/S Latch	385-190●	0.690	0.590	0.490	0.440	0.380
MC14044BCPG	ON	16	DIP	4000 CMOS	966-4653●	0.480	0.350	0.300	– –	– –
MC14044BDG	ON	16	SOIC	Quad R-S Latches	SMC 966-5153●	0.350	0.260	0.200	– –	– –
CD4046BE	TI	16	DIP	Phase Locked Loop	110-6104●	0.500	0.320	0.230	0.169	0.136
HEF4046BP	NXP	16	DIP	Phase Locked Loop	385-219●	0.760	0.750	0.630	0.530	0.460
HEF4046BT	NXP	16	SOIC	Phase Locked Loop	SMC 108-5283●	0.480	0.320	0.290	0.240	0.195
MC14046BCPG	ON	16	DIP	4000 CMOS	966-4661●	0.630	0.490	0.350	– –	– –
MC14046BDWG	ON	16	SOIC	Phase Locked Loop	SMC 966-6389●	0.390	0.280	0.220	– –	– –
CD4047BCN	FCH	14	DIP	Monostable/Astable Multivibrator	101-4037●	0.460	0.320	0.230	0.158	0.127
CD4047BE	TI	14	DIP	Monostable/Astable Multivibrator	110-6105●	0.430	0.290	0.210	0.145	0.109
HEF4047BP	NXP	14	DIP	Monostable/Astable Multivibrator	SMC 385-244●	0.790	0.720	0.650	0.570	0.500
HEF4047BT	NXP	14	SOIC	Monostable/Astable Multivibrator	SMC 108-5284●	0.450	0.410	0.370	0.330	0.290
CD4049UBCM	FCH	16	SOIC	Hex Inverting Buffer	SMC 101-4060●	0.410	0.290	0.188	0.141	0.105
CD4049UBCN	FCH	16	DIP	Hex Inverting Buffer	101-4038●	0.430	0.270	0.196	0.145	0.116
CD4049UBE	TI	16	DIP	Hex Inverting Buffer	110-6106●	0.450	0.300	0.220	0.151	0.114
CD4049UBNSR	TI	16	SO	Hex Buffer/Converter	NEW SMC 162-0999● RL	0.290	0.270	0.220	0.147	0.096
HEF4049BP	NXP	16	DIP	Hex Inverting Buffer	385-281●	0.460	0.450	0.440	0.380	0.350
HEF4049BT	NXP	16	SOIC	Hex Inverting Buffer	SMC 120-1290●	0.390	0.270	0.230	0.220	0.176
MC14049BCPG	ON	16	DIP	4000 CMOS	966-4670●	0.550	0.430	0.310	– –	– –
MC14049UBCPG	ON	16	DIP	4000 CMOS	966-4688●	0.620	0.420	0.300	– –	– –

RL Re-reeling available

Farnell

4000 CMOS - continued

4000 CMOS - continued

Mftrs. List No.	Mftr.	Pins	Pkg	Function	Order Code	Price Each 1+	10+	100+	250+	500+
						MIXED QUANTITY PRICING				
MC14049UBDG	ON	16	SOIC	Hex Inverting Buffer	SMD 966-5170	0.210	0.150	0.106	– –	– –
CD4050BCMX	FCH	16	SOIC	Hex Buffer	SMD 101-4061 RL	0.310	0.250	0.240	0.171	0.150
CD4050BCN	FCH	16	DIP	Hex Buffer	101-4039	0.490	0.310	0.220	0.163	0.131
CD4050BE	TI	16	DIP	Hex Buffer	110-6108	0.220	0.191	0.161	0.131	0.101
HCF4050BEY	ST	16	DIP	Hex Buffer	109-4194	0.310	0.290	0.230	0.162	0.137
HEF4050BP	NXP	16	DIP	Hex Buffer	385-311	0.490	0.480	0.470	0.410	0.380
HEF4050BT	NXP	16	SOIC	Hex Buffer	SMD 108-5285	0.420	0.340	0.220	0.210	0.150
MC14050BCPG	ON	16	DIP	Hex Buffer	966-5552	0.630	0.430	0.310	– –	– –
MC14050BDG	ON	16	SOIC	Hex Buffer	SMD 966-6397	0.300	0.220	0.142	– –	– –
CD4051BCM	FCH	16	SOIC	Single 8 Channel Multiplexer	SMD 101-4062	0.420	0.290	0.210	0.143	0.108
CD4051BCN	FCH	16	DIP	Single 8 Channel Multiplexer	101-4040	0.470	0.310	0.220	0.163	0.131
HEF4051BT	NXP	16	SOIC	Single 8 Channel Multiplexer	SMD 120-1291	0.420	0.390	0.360	0.330	0.300
HEF4053BT	NXP	16	SOIC	Triple 2 Channel Multiplexer	SMD 120-1292	0.370	0.280	0.210	0.155	0.115
CD4051BE	TI	16	DIP	Single 8 Channel Multiplexer	110-6109	0.510	0.350	0.250	0.177	0.133
CD4051BM	TI	16	SOIC	Single 8-Channel AnaLog Multiplexer/Demultiplexer, 4000 CMOSLogic	SMD 838-8970	0.220	0.162	0.111	– –	– –
HCF4051BEY	ST	16	DIP	Single 8 Channel Multiplexer	975-5551	0.550	0.340	0.260	0.230	0.184
HEF4051BP	NXP	16	DIP	Single 8 Chan. Mux	385-347	0.490	0.480	0.470	0.460	0.440
HEF4051BT	NXP	16	SOIC	Single 8 Channel Multiplexer	SMD 120-1291	0.420	0.390	0.360	0.330	0.300
MC14051BCPG	ON	16	DIP	AnaLog Multiplexers/Demultiplexers	966-5684	0.460	0.430	0.340	– –	– –
MC14051BDG	ON	16	SOIC	AnaLog Multiplexers/Demultiplexers	SMD 966-6400	0.370	0.280	0.210	– –	– –
CD4052BCM	FCH	16	SOIC	Differential 4 Channel Multiplexer	SMD 101-4063	0.410	0.280	0.200	0.140	0.106
CD4052BCN	FCH	16	DIP	Differential 4 Channel Multiplexer	101-4041	0.470	0.310	0.220	0.163	0.131
CD4052BE	TI	16	DIP	Differential 4 Channel Multiplexer	958-9538	0.260	0.220	0.184	– –	– –
HCF4052BEY	ST	16	DIP	Differential 4 Channel Multiplexer	109-4195	0.310	0.290	0.230	0.162	0.139
HEF4052BP	NXP	16	DIP	Differential 4 Channel Multiplexer	SMD 385-360	0.530	0.480	0.430	0.380	0.340
HEF4052BT	NXP	16	SOIC	Differential 4 Channel Multiplexer	SMD 108-5286	0.470	0.420	0.290	0.280	0.270
MC14052BCPG	ON	16	DIP	AnaLog Multiplexers/Demultiplexers	966-5692	0.490	0.390	0.300	– –	– –
CD4052BPWR	TI	16	TSSOP	Differential 4-Channel Analog Multiplexer/Demultiplexer	NEW SMD 162-1016 RL	0.290	0.270	0.250	0.160	0.096
CD4053BCM	FCH	16	SOIC	Triple 2 Channel Multiplexer	SMD 101-4064	0.410	0.270	0.196	0.137	0.104
CD4053BCN	FCH	16	DIP	Triple 2 Channel Multiplexer	101-4042	0.470	0.310	0.220	0.164	0.132
CD4053BE	TI	16	DIP	Triple 2 Channel Multiplexer	110-6110	0.410	0.270	0.194	0.136	0.102
CD4053BM	TI	16	SOIC	Triple 2-Channel AnaLog Multiplexer/Demultiplexer, 4000Logic	SMD 838-8989	0.320	0.260	0.240	– –	– –
HEF4053BP	NXP	16	DIP	Triple 2 Channel Multiplexer	SMD 385-384	0.580	0.560	0.550	0.470	0.450
HEF4053BT	NXP	16	SOIC	Triple 2 Channel Multiplexer	SMD 120-1292	0.370	0.280	0.210	0.155	0.115
MC14052BDG	ON	16	SOIC	AnaLog Multiplexers/Demultiplexers	SMD 966-6419	0.370	0.310	0.240	– –	– –
MC14053BCPG	ON	16	DIP	4000 CMOS	966-4696	0.580	0.500	0.360	– –	– –
MC14053BDG	ON	16	SOIC	AnaLog Multiplexers/Demultiplexers	SMD 966-6427	0.460	0.310	0.260	– –	– –
HEF4059BP	NXP	24	DIP	Programmable Divide-by-N Counter	385-402	4.230	4.140	3.980	2.680	2.220
CD4060BCM	FCH	16	SOIC	14 Stage Ripple Carry Binary Counter	SMD 101-4065	0.420	0.290	0.210	0.143	0.108
CD4060BCN	FCH	16	DIP	14 Stage Ripple Carry Binary Counter	101-4044	0.490	0.310	0.220	0.163	0.131
CD4060BE	TI	16	DIP	14 Stage Ripple Carry Binary Counter	110-6111	0.490	0.330	0.240	0.168	0.127
HCF4060BEY	ST	16	DIP	14 Stage Ripple Carry Binary Counter	120-6492	0.360	0.270	0.230	0.162	0.139
HEF4060BP	NXP	16	DIP	14 Stage Ripple Carry Binary Counter	385-438	0.730	0.700	0.670	0.430	0.400
HEF4060BT	NXP	16	SOIC	14 Stage Ripple Carry Binary Counter	SMD 120-1294	0.470	0.380	0.330	0.230	0.220
MC14060BCPG	ON	16	DIP	14-Stage Binary Counter/Oscillator	966-5560	0.380	0.350	0.250	– –	– –
MC14060BDG	ON	16	SOIC	14-Stage Binary Counter/Oscillator	SMD 966-6435	0.310	0.220	0.177	– –	– –
HCF4060M013TR	ST	16	SOIC	Log BINARY COUNTER 14-STAGE	SMD 128-8444 RL	0.380	0.270	0.188	0.161	0.131

MIXED QUANTITY PRICING Purchase mixed products within the same family and benefit from a lower price on the total quantity ordered

413419

Mftrs. List No.	Mftr.	Pins	Pkg	Function	Order Code	Price Each 1+	10+	100+	250+	500+
						MIXED QUANTITY PRICING				
CD4066BCM	FCH	14	SOIC	Quad Bi-Lateral Switch	SMD 101-4066 RL	0.350	0.240	0.159	0.120	0.089
CD4066BCN	FCH	14	DIP	Quad Bi-Lateral Switch	101-4045	0.410	0.270	0.196	0.137	0.104
CD4066BE	TI	14	DIP	Quad Bi-Lateral Switch	110-6112	0.410	0.270	0.194	0.136	0.102
HEF4066BP	NXP	14	DIP	Quad Bi-Lateral Switch	385-475	0.480	0.470	0.460	0.340	0.330
HEF4066BT	NXP	14	SOIC	Quad Bi-Lateral Switch	SMD 108-5287	0.410	0.280	0.200	0.195	0.169
MC14066BCPG	ON	14	DIP	4000 CMOS	966-4700	0.550	0.450	0.320	– –	– –
MC14066BDG	ON	14	SOIC	Quad AnaLog Switch/Quad Multiplexer	SMD 966-6443	0.320	0.210	0.180	– –	– –
HEF4067BP	NXP	24	DIP	16 Channel AnaLogue Multiplexer/Demultiplexer	SMD 385-499	2.920	2.860	2.800	2.010	1.650
MC14067BDWG	ON	24	SOIC	4000 Series CMOSLogIC (SO)	SMD 966-4882	1.140	0.910	0.650	– –	– –
HEF4068BP	NXP	14	DIP	8 Input NAND Gate	385-505	0.610	0.520	0.400	0.260	0.250
CD4069UBCN	FCH	14	DIP	Hex Inverter	101-4046	0.340	0.270	0.196	0.137	0.104
CD4069UBE	TI	14	DIP	Hex Inverter	110-6113	0.410	0.270	0.194	0.136	0.102
HCF4069UBEY	ST	14	DIP	Hex Inverter	975-5560	0.280	0.172	0.138	0.109	0.107
HEF4069UBP	NXP	14	DIP	Hex Inverter	385-530	0.530	0.500	0.480	0.430	0.370
HEF4069UBT	NXP	14	SOIC	Hex Inverter	SMD 120-1295	0.340	0.240	0.200	0.150	0.122
MC14069UBCPG	ON	14	DIP	Hex Inverter	966-5579	0.430	0.310	0.260	– –	– –
MC14069UBDG	ON	14	SOIC	Hex Inverter	SMD 966-6451	0.340	0.240	0.200	– –	– –
CD4070BE	TI	14	DIP	Quad Exclusive OR Gate	110-6114	0.410	0.270	0.194	0.136	0.102
CD4070BM	TI	14	SOIC	Quad EXOR Gate, 4000 CMOSLogic	SMD 838-8997	0.450	0.300	0.220	– –	– –
HEF4070BP	NXP	14	DIP	Quad Exclusive OR Gate	385-566	0.460	0.450	0.340	0.280	0.270
HEF4070BT	NXP	14	SOIC	Quad Exclusive OR Gate	SMD 108-5288	0.410	0.310	0.230	0.150	0.143
MC14070BCPG	ON	14	DIP	Quad XOR Gate	966-5714	0.510	0.410	0.300	– –	– –
MC14070BDG	ON	14	SOIC	Quad XOR Gate	SMD 966-6460	0.370	0.260	0.220	– –	– –
CD4071BE	TI	14	DIP	Quad 2 Input OR Gate	110-6115	0.410	0.270	0.194	0.136	0.102
HEF4071BP	NXP	14	DIP	Quad 2 Input OR Gate	385-591	0.540	0.400	0.330	0.300	0.290
HEF4071BT	NXP	14	SOIC	Quad 2 Input OR Gate	SMD 108-5289	0.380	0.250	0.182	0.143	0.136
MC14071BCPG	ON	14	DIP	Quad 2-Input OR Gate	966-5587	0.540	0.360	0.260	– –	– –
MC14071BDG	ON	14	SOIC	Quad 2-Input OR Gate	SMD 966-6478	0.199	0.133	0.117	– –	– –
HCF4072BEY	ST	14	DIP	Dual 4 Input OR Gate	120-9161	0.410	0.270	0.197	0.143	0.124
HEF4072BP	NXP	14	DIP	Dual 4 Input OR Gate	385-610	0.810	0.570	0.460	0.350	0.340
HEF4073BP	NXP	14	DIP	Triple 3 Input AND Gate	385-633	0.440	0.420	0.350	0.340	0.330
MC14073BCPG	ON	14	DIP	4000 CMOS	966-4726	0.450	0.310	0.270	– –	– –
CD4073BE	TI	14	DIP	CMOS Triple 3-Input AND Gate	112-1603	0.490	0.330	0.240	– –	– –
HCF4075BEY	ST	14	DIP	Triple 3 Input OR Gate	109-4198	0.310	0.183	0.140	0.121	0.115
HEF4075BP	NXP	14	DIP	Triple 3 Input OR Gate	385-657	0.580	0.350	0.280	0.183	0.166
MC14076BCPG	ON	16	DIP	4-Bit D-Type Register With Three-State Outputs	966-6630	0.650	0.480	0.390	– –	– –
CD4077BM	TI	14	SOIC	CMOS Quad Exclusive-NOR Gate	SMD 112-1604	0.340	0.220	0.170	– –	– –
HCF4077BEY	ST	14	DIP	Quad Exclusive NOR Gate	109-4199	0.186	0.131	0.116	0.080	0.078
HEF4077BP	NXP	14	DIP	Quad Exclusive NOR Gate	385-694	0.570	0.450	0.370	0.330	0.300
MC14077BCPG	ON	14	DIP	4000 CMOS	966-4734	0.270	0.185	0.162	– –	– –
MC14077BDG	ON	14	SOIC	Quad Exclusive NOR Gate	SMD 966-6486	0.350	0.260	0.210	– –	– –

RL Re-reeling available

Mftrs. List No.	Mftr.	Pins	Pkg	Function	Order Code	Price Each 1+	10+	100+	250+	500+
						MIXED QUANTITY PRICING				
CD4081BE	TI	14	DIP	Quad 2 Input AND Gate	110-6116●	0.410	0.270	0.194	0.136	0.102
CD4081BM	TI	14	SOIC	Quad 2-Input AND Gate, 4000 CMOSLogic	SMD 112-2563●	0.340	0.270	0.240	– –	– –
HEF4081BP	NXP	14	DIP	Quad 2 I/p AND Gate	385-736●	0.390	0.380	0.360	0.250	0.220
HEF4081BT	NXP	14	SOIC	Quad 2 Input AND Gate	SMD 108-5290●	0.410	0.280	0.187	0.143	0.119
MC14081BCPG	ON	14	DIP	Quad 2-Input AND Gate	966-5595●	0.500	0.360	0.260	– –	– –
MC14081BDG	ON	14	SOIC	Quad 2-Input AND Gate	SMD 966-6494●	0.250	0.173	0.148	– –	– –
CD4081BPW	TI	14	TSSOP	Quadruple 2-Input AND Gate	NEW SMD 160-1154●	0.370	0.270	0.182	0.134	0.096
HEF4082BP	NXP	14	DIP	Dual 4 Input AND Gate	385-750●	0.380	0.330	0.310	0.280	0.240
MC14082BCPG	ON	14	DIP	4000 CMOS	966-4742●	0.430	0.290	0.240	– –	– –
MC14082BDG	ON	14	SOIC	Dual 4-Input AND Gate	SMD 966-5188●	0.220	0.133	0.113	– –	– –
CD4093BCM	FCH	14	SOIC	Quad 2 Input NAND Schmitt Trigger	SMD 101-4068● RL	0.350	0.240	0.157	0.118	0.087
CD4093BCN	FCH	14	DIP	Quad 2 Input NAND Schmitt Trigger	101-4047●	0.420	0.290	0.210	0.143	0.108
CD4093BE	TI	14	DIP	Quad 2 Input NAND Schmitt Trigger	110-6117●	0.410	0.270	0.194	0.136	0.102
HEF4093BP	NXP	14	DIP	Quad 2 Input NAND Schmitt Trigger	385-815●	0.600	0.540	0.420	0.310	0.280
HEF4093BT	NXP	14	SOIC	Quad 2 Input NAND Schmitt Trigger	SMD 120-1296●	0.370	0.250	0.188	0.162	0.136
MC14093BDG	ON	14	SOIC	Quad 2-Input NAND Schmitt Trigger	SMD 966-6508●	0.290	0.240	0.178	– –	– –
CD4093BCN	FCH	14	DIP	Quad 2 Input NAND Schmitt Trigger	101-4047●	0.420	0.290	0.210	0.143	0.108
MC14093BCPG	ON	14	DIP	Quad 2-Input NAND Schmitt Trigger	966-5609●	0.550	0.380	0.270	– –	– –
CD4094BE	TI	16	DIP	8 Bit Shift Register/Latch	110-6118●	0.510	0.350	0.250	0.177	0.133
HEF4094BP	NXP	16	DIP	8 Bit Shift Register/Latch	SMD 385-840●	0.700	0.690	0.680	0.530	0.490
HEF4094BT	NXP	16	SOIC	8 Bit Shift Register/Latch	SMD 120-1297●	0.410	0.370	0.360	0.290	0.220
MC14094BCPG	ON	16	DIP	4000 CMOS	966-4750●	0.320	0.270	0.240	– –	– –
MC14094BDG	ON	16	SOIC	8-Bit Shift/Store Register With Three-State Outputs	SMD 966-6516●	0.400	0.290	0.250	– –	– –
HCF4094M013TR	ST	16	SOIC	Log Bus REGISTER, 8-STAGE	SMD 128-8445● RL	0.540	0.350	0.240	0.191	0.162
CD4094BPW	TI	16	TSSOP	Shift-And-Store Bus Register	NEW SMD 159-5402●	0.470	0.330	0.240	0.157	0.121
CD4098BE	TI	16	DIP	Retriggerable Dual Monostable Multivibrator	110-6121●	0.510	0.350	0.250	0.177	0.133
HCF4099BEY.	ST	16	DIP	8 Bit Addressable Latch	312-0181▲	0.097	– –	– –	– –	– –
HCF4099BEY	ST	16	DIP	8 Bit Addressable Latch	975-5578●	0.650	0.430	0.350	0.330	0.250
MC14099BCPG	ON	16	DIP	8-Bit Addressable Latches	966-5722●	0.480	0.400	0.340	– –	– –
MC14099BDWG	ON	16	SOIC	8-Bit Addressable Latches	SMD 966-5196●	0.810	0.590	0.480	– –	– –
HEF4104BP	NXP	16	DIP	Tri-State Quad Low Voltage to High Voltage Translator	SMD 385-890●	1.230	0.910	0.710	0.490	0.420
MC14106BCPG	ON	14	DIP	Hex Schmitt Trigger	966-5765●	0.610	0.410	0.300	– –	– –
MC14106BDG	ON	14	SOIC	Hex Schmitt Trigger	SMD 966-6524●	0.460	0.300	0.220	– –	– –
HEF4069UBT	NXP	14	SOIC	Hex Inverter	SMD 120-1295●	0.340	0.240	0.200	0.150	0.122
MC14174BCPG	ON	16	DIP	Hex D-Type Flip-Flop	966-6648●	0.400	0.330	0.260	– –	– –
MC14490DWG	ON	16	SOIC	Hex Contact Bounce Eliminator (3 to 18V dc)	SMD 119-1828●	5.580	4.130	2.940	– –	– –
MC14490PG	ON	16	DIP	Hex Bounce Eliminator	966-4947●	3.780	2.900	2.070	– –	– –
MC14503BCPG	ON	16	DIP	4000 CMOS	966-4769●	0.450	0.280	0.192	– –	– –
MC14504BCPG	ON	16	DIP	Hex Level Shifter	966-5064●	0.960	0.650	0.470	– –	– –
MC14504BDG	ON	16	SOIC	Hex Level Shifter	SMD 966-5218●	0.840	0.680	0.580	– –	– –
CD4511BE	TI	16	DIP	BCD to 7 Segment Decoder Driver	110-6122●	0.580	0.400	0.280	0.198	0.150
HCF4511BEY	ST	16	DIP	BCD to 7 Segment Decoder Driver	109-4201●	0.550	0.500	0.430	0.380	0.230
HEF4511BP	NXP	16	DIP	BCD to 7 Segment Decoder Driver	386-005●	0.970	0.940	0.760	0.640	0.600
HEF4511BT	NXP	16	SOIC	BCD to 7 Segment Decoder Driver	SMD 108-5291●	0.640	0.510	0.420	0.310	0.230
MC14511BCPG	ON	16	DIP	BCD-to-7 Segment Latch/Decoder/Driver	966-5617●	0.500	0.430	0.340	– –	– –
MC14511BDG	ON	16	SOIC	BCD-to-7 Segment Latch/Decoder/Driver	SMD 966-6532●	0.580	0.400	0.280	– –	– –
MC14512BCPG	ON	16	DIP	8-Channel Data Selector	966-5625●	0.550	0.400	0.350	– –	– –
MC14513BCPG.	ON	18	DIP	BCD-to-7 Segment Latch/Decoder/Driver	966-5269●	1.230	0.990	0.760	– –	– –
HEF4514BP	NXP	24	DIP	4 Bit Latch/4 to 16 Line Decoder (High)	386-042●	1.770	1.530	1.360	0.950	0.730
HEF4514BT	NXP	24	SOIC	4 Bit Latch/4 to 16 Line Decoder (High)	SMD 120-1298●	0.920	0.910	0.890	0.880	0.760
HCF4516BEY	ST	16	DIP	Binary Up/Down Counter	120-9162●	1.000	0.850	0.600	0.430	0.370
HEF4516BP	NXP	16	DIP	Binary Up/Down Counter	386-080●	0.900	0.880	0.820	0.580	0.520
MC14516BCPG	ON	16	DIP	Binary Up/Down Counter	966-5293●	0.550	0.480	0.350	– –	– –
MC14516BDG	ON	16	SOIC	4000 Series CMOSLogIC (SO)	SMD 966-4904●	0.470	0.270	0.210	– –	– –
CD4518BE	TI	16	DIP	Dual Synchronous Up Counter	110-6123●	0.470	0.300	0.220	0.159	0.143
HEF4518BP	NXP	16	DIP	Dual Synchronous Up Counter	386-133●	0.900	0.810	0.750	0.600	0.570
MC14518BCPG	ON	16	DIP	Dual BCD Up Counter	966-5633●	0.960	0.660	0.470	– –	– –
MC14518BDWG	ON	16	SOIC	Dual Synchronous Up Counter	SMD 119-1825●	0.480	0.280	0.220	– –	– –
CD4520BE	TI	16	DIP	CMOS Dual Binary Up-Counter	112-1605●	0.430	0.270	0.196	– –	– –
HEF4520BP	NXP	16	DIP	Dual Synchronous Up Counter	386-182●	0.640	0.600	0.530	0.410	0.380
HEF4520BT	NXP	16	SOIC	Dual Synchronous Up Counter	SMD 108-5292●	0.910	0.690	0.550	0.400	0.320
MC14520BCPG	ON	16	DIP	Dual BCD Up Counter	966-5676●	0.720	0.630	0.460	– –	– –
HEF4521BP	NXP	16	DIP	24 Stage Freq. Divider	386-194●	1.360	0.990	0.750	0.550	0.490
HEF4521BT	NXP	16	SOIC	24 Stage Frequency Divider	SMD 108-5294●	0.700	0.650	0.520	0.360	0.280
MC14521BCPG	ON	16	DIP	4000 CMOS	966-4793●	0.960	0.650	0.470	– –	– –
HEF4526BP	NXP	16	DIP	Divide-by-N Counter (Binary)	386-236●	0.940	0.890	0.690	0.470	0.420
MC14526BCPG	ON	16	DIP	Presettable 4-Bit Down Counters	966-5730●	0.690	0.590	0.450	– –	– –
HEF4528BP	NXP	16	DIP	Dual Retriggerable Resettable/Monostable Multivibrator	SMD 386-273●	0.600	0.460	0.370	0.300	0.240
HEF4528BT	NXP	16	SOIC	Dual Retriggerable Resettable/Monostable Multivibrator	SMD 108-5295●	0.360	0.280	0.210	0.166	0.132
MC14528BCPG	ON	16	DIP	Dual Monostable Multivibrator	966-5749●	0.580	0.410	0.340	– –	– –
MC14528BDG	ON	16	SOIC	Dual Monostable Multivibrator	SMD 966-6567●	0.440	0.300	0.250	– –	– –
HCF4532BEY	ST	16	DIP	8 Input Priority Encoder	120-6493●	0.930	0.630	0.430	0.240	0.210
MC14532BCPG	ON	16	DIP	8bit Priority Encoder	966-5641●	1.140	0.840	0.730	– –	– –
MC14532BDG	ON	16	SOIC	8bit Priority Encoder	SMD 966-5226●	0.910	0.670	0.580	– –	– –
MC14536BCPG	ON	16	DIP	4000 CMOS	966-4807●	0.880	0.640	0.470	– –	– –
MC14536BDWG	ON	16	SOIC	Programmable Timer	SMD 966-5234●	1.140	0.860	0.720	– –	– –
CD4538BCN	FCH	16	DIP	Dual Monostable Multivibrator	101-4048●	0.540	0.340	0.250	0.181	0.146
HEF4538BP	NXP	16	DIP	Dual Monostable Multivibrator	SMD 386-339●	0.940	0.820	0.650	0.430	0.370
HEF4538BT	NXP	16	SOIC	Dual Monostable Multivibrator	SMD 120-1299●	0.640	0.630	0.560	0.380	0.310
MC14538BCPG	ON	16	DIP	Dual Precision Monostable	966-5650●	0.760	0.520	0.370	– –	– –
MC14538BDG	ON	16	SOIC	Dual Precision Monostable	SMD 966-6575●	0.540	0.380	0.310	– –	– –
MC14538BDWG	ON	16	SOIC	4000 Series CMOSLogIC (SO)	SMD 966-4920●	0.480	0.300	0.210	– –	– –
HCF4538M013TR	ST	16	SOP	LogIC MULTIVIBRATOR	SMD 128-8448● RL	0.470	0.300	0.230	0.200	0.151
HCF4541M013TR	ST	16	SOIC	TIMER, Programmable	SMD 128-8449● RL	0.240	0.174	0.123	0.108	0.088
CD4541BCMX	FCH	14	SOIC	Programmable Oscillator Timer	SMD 101-4069● RL	0.300	0.240	0.210	0.106	0.086
CD4541BCN	FCH	14	DIP	Programmable Oscillator Timer	101-4049●	0.430	0.270	0.196	0.145	0.116
CD4541BE	TI	14	DIP	Programmable Oscillator Timer	110-6124●	0.410	0.270	0.194	0.136	0.102
HEF4541BP	NXP	14	DIP	Programmable Oscillator Timer	386-376●	0.800	0.660	0.600	0.480	0.460
HEF4541BT	NXP	14	SOIC	Programmable Oscillator Timer	SMD 108-5296●	0.370	0.270	0.220	0.180	0.139
MC14541BCPG	ON	14	DIP	Programmable Oscillator-Timer	966-5668●	0.660	0.450	0.320	– –	– –
MC14541BDG	ON	14	SOIC	Programmable Oscillator-Timer	SMD 966-6583●	0.570	0.430	0.370	– –	– –
HEF4543BP	NXP	16	DIP	BCD to 7 Segment Latch/Decoder/Driver for LCDs	386-390●	0.770	0.570	0.460	0.370	0.300
MC14543BCPG	ON	16	DIP	4000 CMOS	966-4815●	0.720	0.490	0.350	– –	– –
MC14543BDG	ON	16	SOIC	4000 Series CMOSLogIC (SO)	SMD 966-4939●	0.460	0.280	0.200	– –	– –
MC14551BCPG	ON	16	DIP	Quad 2-Channel AnaLog Multiplexer/Demultiplexer	966-5072●	1.610	1.290	1.000	– –	– –
MC14551BDG	ON	16	SOIC	Quad 2-Channel AnaLog Multiplexer/Demultiplexer	SMD 966-5242●	1.370	1.070	0.880	– –	– –
HCF4555BEY.	ST	16	DIP	Dual Binary-to-1 of 4 Decoder (Active High Outputs)	312-0260▲	0.560	0.430	0.290	0.240	0.230
HEF4555BP	NXP	16	DIP	Dual Binary-to-1 of 4 Decoder (Active High Outputs)	386-431●	0.920	0.730	0.520	0.390	0.300
MC14555BCPG	ON	16	DIP	Dual Binary to 1-of-4 Decoder/Demultiplexer	966-5277●	0.460	0.330	0.290	– –	– –
MC14555BDG	ON	16	SOIC	Dual Binary to 1-of-4 Decoder/Demultiplexer	SMD 966-5250●	0.590	0.450	0.390	– –	– –
HCF4556BEY.	ST	16	DIP	Dual Binary-to-1 of 4 Decoder/Demultiplexer (Inverting)	312-0272▲	0.104	– –	– –	– –	– –
HCF4556BEY	ST	16	DIP	Dual Binary-to-1 of 4 Decoder/Demultiplexer (Inverting)	975-5594●	0.710	0.550	0.430	0.260	0.210
MC14556BCPG	ON	16	DIP	Logic CMOS Decoder/Demultiplexer 1-4	966-4823●	0.300	0.200	0.151	– –	– –
MC14557BCPG	ON	16	DIP	1-to-64 Bit Variable Length Shift Register	119-1819●	0.810	0.520	0.400	– –	– –

RL Re-reeling available

4000 CMOS - continued

Mftrs. List No.	Mftr.	Pins	Pkg	Function	Order Code	Price Each 1+	10+	100+	250+	500+
						MIXED QUANTITY PRICING				
MC14569BCPG	ON	16	DIP	Programmable Dual Binary/BCD Counter	119-1831	3.090	1.970	1.750	– –	– –
MC14569BDWG	ON	16	SOIC	Programmable Dual Binary/BCD Counter	SMD 120-9631	1.480	0.920	0.800	– –	– –
MC14572UBCPG	ON	16	DIP	Hex Gate	966-5080	0.600	0.450	0.390	– –	– –
MC14584BCPG	ON	14	DIP	Hex Schmitt Trigger	966-5099	0.630	0.430	0.310	– –	– –
MC14584BDG	ON	14	SOIC	Hex Schmitt Trigger	SMD 966-5102	0.340	0.250	0.210	– –	– –
HCF4585BEY	ST	16	DIP	4 Bit mAgnitude Comparator	312-0284▲	0.710	0.560	0.430	0.260	0.210
HEF4585BP	NXP	16	DIP	4 Bit mAgnitude Comparator	386-522	0.950	0.790	0.600	0.470	0.390
MC14585BCPG	ON	16	DIP	4000 CMOS	966-4831	0.490	0.370	0.280	– –	– –
MC14585BDG	ON	16	SOIC	4 Bit mAgnitude Comparator	SMD 119-1839	0.530	0.390	0.310	– –	– –
CD4724BCN	FCH	16	DIP	8 Bit Addressable Latch	101-4050	0.320	0.210	0.157	0.125	0.122
HCF40103BEY	ST	16	DIP	8 Bit Synchronous Binary Down Counter	975-5888	2.830	2.040	1.250	0.530	0.480
CD40106BCM	FCH	14	SOIC	Hex Schmitt Trigger	SMD 101-4054 RL	0.370	0.250	0.165	0.124	0.092
CD40106BCN	FCH	14	DIP	Hex Schmitt Trigger	101-4051	0.450	0.300	0.220	0.152	0.115
CD40106BE	TI	14	DIP	Hex Schmitt Trigger	110-6097	0.410	0.270	0.194	0.136	0.102
CD40106BM	TI	14	SOIC	Hex Schmitt Trigger	SMD 958-9520	0.350	0.260	0.220	– –	– –
HCF40106BEY	ST	14	DIP	Hex Schmitt Trigger	975-5608	0.450	0.280	0.220	0.190	0.151
HEF40106BP	NXP	14	DIP	Hex Schmitt Trigger	386-662	0.480	0.470	0.460	0.360	0.340
HEF40106BT	NXP	14	SOIC	Hex Schmitt Trigger	SMD 120-1301	0.380	0.300	0.240	0.200	0.176
HCF40107BEY	ST	8	DIP	Dual 2 Input NAND Gate (Driver)	975-5896	0.550	0.340	0.260	0.210	0.196
CD40147BE	TI	16	DIP	10-to-4-Line BCD Prority Encoder, 4000 CMOSLogic	386-704	2.000	1.500	0.990	– –	– –
CD40174BE	TI	16	DIP	Hex D Flip/Flop	959-4540	0.460	0.300	0.210	– –	– –
HEF40244BP	NXP	20	DIP	Octal Buffers With Tri-State Outputs	386-820	1.880	1.720	1.420	0.960	0.770
CD40257BE	TI	16	DIP	CMOS Quad 2-Line-to-1-Line Data Selector/Multiplexer	112-1600	0.430	0.290	0.210	– –	– –

Emitter Coupled Logic (ECL)

Emitter Coupled Logic (ECL)

These ECL devices offer high-speed operation with low skew and jitter, the range includes clock distribution and translation devices for interface to other logic families. The family is particularly suited to broadband communications including fibre data transmission, wide area networking (WAN) and Automatic Test equipment (ATE).

SMD

ON Semiconductor

229971

	Pins/ Package	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
10001	8/D-PAK	ECL 4-Input OR/NOR Gate	MC100EL01DG	NEW SMD 160-7757	4.81	2.88	2.24
10004	8/SOIC	ECL 2-Input AND/NAND Gate	MC100EL04DG	NEW SMD 160-7758	5.24	3.12	2.45
1005	8/SOIC	ECL 2-Input Differential AND/NAND Gate	MC10EP05DG	NEW SMD 160-7764	6.84	4.33	3.40
1012	8/SOIC	Low Impedance Drive Buffer	MC10EL12DG	NEW SMD 165-9703	4.78	2.84	2.23
100EL14	20/SOIC	1:5 Clock Distribution Chip	MC100EL14DWG	NEW SMD 160-7916	8.66	5.49	4.32
100EP14	20/TSSOP	1:5 Differential ECL/PECL/HSTL Clock Driver	MC100EP14DTG	NEW SMD 160-7918	10.50	6.27	4.91
10014	20/SOIC	1:5 Clock distribution circuit	MC100LVEL14DWG	SMD 119-2080	10.00	8.36	6.67
10016	8/SOIC	Differential driver/receiver	MC100EL16DG	SMD 119-2064	5.13	3.99	3.01
10016	8/SOIC	Differential driver/receiver	MC100EP16DG	SMD 119-2075	5.80	4.76	3.82
10016	8/SOIC	Differential driver/receiver	MC100LVEL16DG	SMD 119-2081	5.13	3.99	3.01
10016	8/SOIC	Differential Receiver/Driver	MC100EP16VADG	NEW SMD 160-7605	5.79	3.66	2.89
10016	8/TSSOP	Differential Receiver/Driver	MC100EP16VADTG	NEW SMD 160-7606	5.79	3.66	2.89
10016	8/TSSOP	ECL Differential Receiver	MC100LVEP16DTG	NEW SMD 160-7609	6.93	4.40	3.45
100016	20/TSSOP	ECL 8bit Synchronous Binary Up Counter	MC100EP016AFAG	NEW SMD 160-7661	25.03	15.87	12.45
10016	8/TSSOP	ECL Differential Receiver/Driver	MC100EP16DTG	NEW SMD 160-7763	5.19	3.31	2.61
10016	8/SOIC	ECL Differential Receiver/Driver	MC10EP16DG	NEW SMD 160-7766	5.19	3.31	2.61
10EL16	8/SOIC	ECL Differential Receiver	MC10EL16DR2G	NEW SMD 160-7877 RL	3.86	2.44	1.91
10ELT20	8/SOIC	TTL to Differential PECL Translator	MC10ELT20DG	NEW SMD 160-7878	3.66	2.34	1.84
10EPT20	8/SOIC	LVTTL/LVCMOS to Differential LVPECL Translator	MC10EPT20DG	NEW SMD 160-7883	6.93	4.40	3.45
10020	8/TSSOP	TTL/PECL Translator	MC100ELT20DTG	SMD 119-2068	4.35	3.49	2.51
10020	8/TSSOP	LVTTL/LVPECL translator	MC100EPT20DTG	SMD 119-2076	11.69	9.36	7.37
100EPT20	8/SOIC	LVTTL/LVCMOS to Differential LVPECL Translator	MC100EPT20DG	NEW SMD 160-7865	7.44	4.44	3.49
10021	8/SOIC	PECL/TTL Translator	MC100ELT21DG	SMD 119-2069	4.69	3.93	3.14
10021	8/TSSOP	LCPEC/LVTTL translator	MC100EPT21DTG	SMD 119-2077	7.59	5.90	4.46
10ELT21	8/SOIC	Differential PECL to TTL Translator	MC10ELT21DG	NEW SMD 160-7879	3.66	2.34	1.84
100EPT22	8/SOIC	Dual LVTTL/LVCMOS to Differential LVPECL Translator	MC100EPT22DG	NEW SMD 160-7867	6.93	4.40	3.45
10022	8/TSSOP	Dual LVTTL/LVPECL translator	MC100EPT22DTG	SMD 119-2078	11.03	8.47	6.12
10022	8/SOIC	Dual TTL/PECL Translator	MC100ELT22DG	SMD 119-2070	4.92	4.13	3.31
10023	8/SOIC	Dual TTL/PECL Translator	MC100ELT23DG	SMD 119-2071	4.70	3.48	2.48
100ELT23	8/TSSOP	Dual Differential LVPECL/LVDS to LVTTL Translator	NB100ELT23LDTG	NEW SMD 160-7888	3.66	2.34	1.84
10024	8/SOIC	TTL/ECL Translator	MC100ELT24DG	SMD 119-2072	4.70	3.48	2.48
100EPT24	8/TSSOP	LVTTL/LVCMOS to Differential LVECL Translator	MC100EPT24DTG	NEW SMD 160-7872	7.70	4.88	3.84
10025	8/SOIC	ECL/TTL/ Translator	MC100ELT25DG	SMD 119-2074	4.92	4.13	3.31
10025	8/TSSOP	ECL/TTL translator	MC100EPT25DTG	SMD 119-2079	10.96	9.22	7.29
100ELT25	8/TSSOP	Differential ECL to TTL Translator	MC100ELT25DTG	NEW SMD 160-7863	3.93	2.36	1.85
10ELT25	8/SOIC	Differential ECL to TTL Translator	MC10ELT25DG	NEW SMD 160-7882	3.93	2.36	1.85
100EPT26	8/SOIC	Fanout Differential LVPECL/LVDS to LVTTL Translator	MC100EPT26DG	NEW SMD 160-7874	7.70	4.88	3.84
10031	8/SOIC	ECL D Flip-Flop with Set and Reset	MC100EL31DG	NEW SMD 160-7707	5.30	3.36	2.64
10032	8/SOIC	Differential ÷2 divider	MC100LVEL32DG	SMD 119-2082	5.63	4.71	3.77
10032	8/SOIC	3.3V / 5V ECL Divide-by-2 Divider	MC100EP32DG	NEW SMD 160-7663	6.93	4.40	3.45
100EP32	8/TSSOP	3.3V / 5V ECL Divide-by-2 Divider	MC100EP32DTG	NEW SMD 160-7664	6.93	4.40	3.45
10033	8/SOIC	5V ECL Divide-by-4 Divider	MC100EL33DG	NEW SMD 160-7660	4.81	2.88	2.24
10033	8/SOIC	3.3V / 5V ECL Divide-by-4 Divider	MC100EP33DG	NEW SMD 160-7665	6.93	4.40	3.45
100EP33	8/TSSOP	3.3V / 5V ECL Divide-by-4 Divider	MC100EP33DTG	NEW SMD 160-7919	6.93	4.40	3.45
10034	18/SOIC	1:3 Clock driver - Div 2/4/8	MC100EL34DG	SMD 119-2065	8.55	7.50	5.67
10035	8/SOIC	ECL JK Flip-Flop	MC100EL35DG	NEW SMD 160-7708	4.81	2.88	2.24
10052	8/SOIC	ECL Differential Data and Clock D Flip-Flop	MC100EL52DG	NEW SMD 160-7710	4.82	3.07	2.41
10056	20/TSSOP	3.3V / 5V ECL Dual Differential 2:1 Multiplexer	MC100EP56DTG	NEW SMD 160-7687	10.23	6.10	4.80
10056	20/SOIC	3.3V / 5V ECL Dual Differential 2:1 Multiplexer	MC100EP56DWG	NEW SMD 160-7688	11.15	6.65	5.23
10056	20/SOIC	Dual differential 2:1 multiplexer	MC100EL56DWG	SMD 119-2066	8.53	7.96	7.51
10058	8/SOIC	2:1 Differential multiplexer	MC100EL58DG	SMD 119-2067	6.89	5.79	4.62
1089	8/SOIC	Coaxial cable driver	MC10EL89DG	SMD 119-2083	6.61	5.42	4.41
100EL90	8/SOIC	Triple ECL Input to LVPECL Output Translator	MC100LVEL90DWG	NEW SMD 160-7875	8.66	5.49	4.32
10107	16/DIP	Triple 2-Input Exclusive OR/XNOR Gate	MC10H107PG	NEW 160-7767	2.88	1.81	1.43

RL Re-reeling available

	Pins/ Package	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
100111	28/PLCC	4 bit Flip-Flop	MC100E111FNG	SMD 119-2060	9.05	7.58	5.92
100112	28/PLCC	Quad Driver	MC100E112FNG	NEW SMD 160-7604	8.56	5.43	4.26
100137	28/PLCC	8bit Ripple Counter	MC100E137FNG	NEW SMD 160-7659	10.59	6.71	5.29
195	32/QFN	Low power VCO	MC100EP195MNG	SMD 136-9723	14.13	10.59	9.09
1001648	8/SOIC	Ecl Voltage Controlled Oscillator	MC100EL1648DG	NEW SMD 119-2063	9.99	8.27	6.61

Emitter Coupled Logic (ECL)

MICREL®

422985

	Pins/ Package	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
100EL11	8/SOIC	5V/3V 1:2 Differential Fanout Buffer	SY100EL11VZG	SMD 110-0688	2.22	1.84	1.43
100EL16	8/MSOP	5V/3V Differential Receiver	SY100EL16VZG	SMD 110-0687	1.67	1.38	1.06
100EL31	8/SOIC	D Flip-Flop With Set & Reset	SY100EL31ZG	SMD 110-0691	3.15	2.64	2.03
100EL32	8/SOIC	5V/3.3V ÷ 2 Divider	SY100EL32VZG	SMD 110-0690	2.81	1.91	1.42
100EL56	20/SOIC	5V/3.3V Dual Differential 2:1 Multiplexer	SY100EL56VZG	SMD 110-0689	3.14	2.63	2.02
100ELT22	8/SOIC	3.3V Dual TTL-to-Differential PECL Translator	SY100ELT22LZG	SMD 110-0684	1.60	1.33	1.02
100ELT22	8/SOIC	Dual TTL-to-Differential PECL Translator	SY100ELT22ZG	SMD 110-0682	1.60	1.33	1.02
100ELT23	8/SOIC	3.3V Dual Differential LVPECL-to-LVTTL Translator	SY100ELT23LZG	SMD 110-0686	1.83	1.52	1.17
100ELT23	8/SOIC	Dual Differential PECL Translator	SY100ELT23ZG	SMD 110-0685	1.60	1.33	1.02
55851	10/MSOP	2.5V/3V/5V, 3.0GHz CML AnyGate™AnyLogic W/50 Or 100 Outputs	SY55851AUKG	SMD 110-0698	6.45	4.40	3.81
55857	10/MSOP	2.5Gbps Any Input-to-LVPECL Dual Translator	SY55857LKG	SMD 110-0693	5.72	3.90	3.15
55858	32/TQFP	2.5V/3.3V/5V 3.0GHz Dual 2 X 2 CML Crosspoint Switch w/Internal Termination	SY55858UHG	SMD 110-0694	10.84	9.04	6.97
89828	64/TQFP	3.3V 1GHz Dual 1:10 Precision LVDS Fanout Buffer/Translator With 2:1 Input Multiplexer	SY89828LHG	SMD 110-0700	16.80	– –	– –
89831	16/MLF	2GHz Any Diff. In-to-LVPECL Ultra Low-Jitter and Skew 1:4 Fanout Buffer/Translator w/Internal Termination	SY89831UMG	SMD 110-0696	4.41	3.10	3.02
89833	16/MLF	3.3V, 2GHz Any Differential Input-to-LVDS 1:4 Fanout Buffer/Translator w/Internal Termination	SY89833LMG	SMD 110-0697	4.41	3.10	3.02
89874	16/MLF	2.5GHz Any Diff. In-to-LVPECL Programmable Clock Divider/Fanout Buffer With Internal Termination	SY89874UMG	SMD 110-0699	4.75	3.37	3.29

Programmable Logic Devices

GAL® Generic Array Logic (Trademark of Lattice Semiconductors) devices are fabricated using very high-speed Electrically Erasable CMOS (E^2CMOS), which offers the highest degree of testability and quality of any process technology, as well as instant erasability, making GAL devices ideal for prototyping and manufacturing. GAL devices can directly replace PAL devices in nearly every application. They offer the low power consumption of CMOS (¼ to ½ that of bipolar devices). Output logic macrocells are utilised to allow the user to configure outputs as needed. By bringing all these features together into a single product line, the GAL family is ideally suited to replace TTL random logic, low-density gate arrays, and all other programmable logic. The GAL family offers the benefits of reduced system cost, product size and power requirements, as well as higher reliability and greater simplified system design.

210582

210923

	Mftr.	Description	P'gation Delay (ns)max	Supply Current (mA)max	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
16LV8	LAT	CMOS EEPLD, Low Voltage 3.3V, 16 i/p, 8 prog. o/pLogic mAcrocells	8	70	GAL16LV8D-5LJN	SMD 969-9686	6.02	4.34	3.69
16V8	LAT	CMOS EEPLD, Low Power, 16 i/p, 8 prog., o/pLogic mAcrocells	7.5	115	GAL16V8D-7LJN	SMD 969-9732	2.09	1.83	1.33
16V8	LAT	CMOS EEPLD, Low Power, 16 i/p, 8 prog., o/pLogic mAcrocells	7.5	115	GAL16V8D-7LPN	969-9740	2.64	2.32	1.69
16V8	LAT	CMOS EEPLD - 16 i/p, 8 prog. o/pLogic mAcrocells	10	115	GAL16V8D-10LPN	110-1471	5.53	4.31	3.71
16V8	LAT	CMOS EEPLD - 16 i/p, 8 prog. o/pLogic mAcrocells	15	90	GAL16V8D-15LJN	SMD 969-9708	1.39	1.18	0.90
16V8	LAT	CMOS EEPLD - 16 i/p, 8 prog. o/pLogic mAcrocells	15	90	GAL16V8D15LPN	969-9953	2.63	2.05	1.90
16V8	LAT	CMOS EEPLD, Quarter Power, 16 i/p, 8 prog., o/pLogic mAcrocells	15	55	GAL16V8D-15QJN	SMD 969-9783	1.61	1.23	1.04
16V8	LAT	CMOS EEPLD - 16 i/p, 8 prog. o/pLogic mAcrocells, Quarter Power	15	55	GAL16V8D-15QPN	969-9678	2.16	1.46	1.23
16V8	LAT	CMOS EEPLD - 16 i/p, 8 prog. o/pLogic mAcrocells	25	90	GAL16V8D25LPN	969-9961	3.01	2.27	1.93
16V8	LAT	CMOS EEPLD, Quarter Power, 16 i/p, 8 prog., o/pLogic mAcrocells	25	55	GAL16V8D-25QJN	SMD 969-9775	1.32	1.00	0.84
16V8	LAT	CMOS EEPLD, Quarter Power, 16 i/p, 8 prog., o/pLogic mAcrocells	25	55	GAL16V8D-25QPN	969-9767	1.32	1.00	0.84
16V8	LAT	GAL16V8 compatible CMOS, Zero Standby Power, Erasable PLD	15	100	GAL16V8Z-15QP	271-652	4.48	3.56	3.05
20RA10	LAT	CMOS EEPLD, High Speed Asynchronous, 20 i/p, 8 prog. o/pLogic mAcrocells	15	100	GAL20RA10B-15LP	332-7413	9.42	6.70	5.77
20RA10	LAT	CMOS EEPLD, High Speed Asynchronous, 20 i/p, 8 prog. o/pLogic mAcrocells	20	100	GAL20RA10B-20LP	332-7425	9.00	6.31	5.24
20V8	LAT	CMOS EEPLD, 20 i/p, 8 prog. o/pLogic mAcrocells, Quarter Power	25	55	GAL20V8B-25QP	332-7462	1.86	1.40	1.18
20V8	LAT	CMOS EEPLD, 20 i/p, 8 prog. o/pLogic mAcrocells	15	90	GAL20V8B-15LJN	SMD 110-1465	1.81	1.42	1.19
20V8	LAT	CMOS EEPLD	25	90	GAL20V8B-25LJN	SMD 110-1469	3.18	2.15	1.86
20V8	LAT	CMOS EEPLD, 20 i/p, 8 prog. o/pLogic mAcrocells, Quarter Power	25	55	GAL20V8B-25QP	332-7462	1.86	1.40	1.18
20V8	LAT	CMOS EEPLD, 20 i/p, 8 prog. o/pLogic mAcrocells, Quarter Power	25	55	GAL20V8B-25QP	332-7462	1.86	1.40	1.18
20V8B	LAT	E2 CMOS PLD Generic Array Logic	5	90	GAL20V8B-25LPN	135-9296	2.89	1.80	1.46
20V8C	LAT	E2CMOS PLD Generic Array Logic	7.5	115	GAL20V8C-7LJN	SMD 157-1922	5.38	4.04	3.23
22V10	LAT	E2CMOS PLD Generic Array Logic	4	140	GAL22V10D-4LJN	SMD 157-1923	16.03	12.02	9.62
22V10	LAT	E2CMOS PLD Generic Array Logic	5	140	GAL22V10D-5LJN	SMD 157-1924	13.21	9.91	7.94
22V10	LAT	E2CMOS PLD Generic Array Logic	7.5	140	GAL22V10D-7LPN	157-1925	11.39	8.55	6.84
22V10	LAT	CMOS In-System Programmable EEPLD, Low Power, 22 i/p, 10 prog., o/pLogic mAcrocells (PLCC Package)	10	140	ISPGAL22V10C-10LJN	SMD 110-1467	5.25	3.98	3.34
22V10	LAT	CMOS In-System Programmable EEPLD, Low Power, 22 i/p, 10 prog., o/pLogic mAcrocells (PLCC Package)	15	140	ISPGAL22V10C-15LJN	SMD 110-1466	4.63	3.51	2.95
22V10	LAT	CMOS EEPLD, Low Power, 22 i/p, 10 prog., o/pLogic mAcrocells	7.5	140	GAL22V10D-7LJN	SMD 969-9805	9.88	7.96	6.70
22V10	LAT	CMOS EEPLD, Low Power, 22 i/p, 10 prog., o/pLogic mAcrocells	10	130	GAL22V10D-10LJN	SMD 969-9791	5.84	4.43	3.72
22V10	LAT	CMOS EEPLD, Quarter Power, 22 i/p, 10 prog., o/pLogic mAcrocells	10	55	GAL22V10D-10QPN	969-9848	8.29	6.27	5.29
22V10	LAT	CMOS EEPLD	15	130	GAL22V10D-15LJN	SMD 969-9635	7.85	6.69	6.22
22V10	LAT	CMOS EEPLD - 22 i/p, 10 prog. o/pLogic mAcrocells	15	130	GAL22V10D-15LPN	969-9643	7.85	6.69	6.22
22V10	LAT	CMOS EEPLD, Quarter Power, 22 i/p, 10 prog., o/pLogic mAcrocells	15	55	GAL22V10D-15QPN	969-9821	6.66	5.12	4.32
22V10	LAT	CMOS EEPLD - 22 i/p, 10 prog. o/pLogic mAcrocells	25	130	GAL22V10D-25LPN	969-9651	6.78	4.69	4.08
22V10	LAT	CMOS EEPLD, Quarter Power, 22 i/p, 10 prog., o/pLogic mAcrocells	25	55	GAL22V10D-25QJN	SMD 969-9813	3.92	2.98	2.51
22V10	LAT	CMOS EEPLD - 22 i/p, 10 prog. o/pLogic mAcrocells	25	55	GAL22V10D-25QPN	969-9660	6.50	4.40	3.81
22V10	LAT	CMOS EEPLD, In-circuit Programmable, 22 i/p, 10 prog. o/pLogic mAcrocells	15	140	ISPGAL22V10C15LK	SMD 332-7670	4.55	3.18	2.68
PAL16L8	TI	Low-Power High-Performance, IMPACT PAL Circuit	25	–	TIBPAL16L8-25CN	NEW 161-0184	1.44	0.84	0.63

RL Re-reeling available

Programmable Logic Devices - continued

ATF16V8, 22V10 EEPLDs

The ATF16V8CZ & ATF22V10C are high-performance CMOS (electrically erasable) PLDs that utilise Atmel's proven electrically erasable Flash memory technology. All speed ranges are specified over the full 5V ± 10% range for industrial temperature ranges.

The ATF22V10CQZ provides a zero power CMOS PLD solution with 5V operating voltages, powering down automatically to the zero power-mode through Atmel's patented Input Transition Detection (ITD) circuitry when the device is idle, offering zero (25 µA worst case standby power.

502135

Mftrs. List No.	Pins/Pkg	Macrocells	Usable Gates	I/O Lines	t_{PD}	Temperature Range	Order Code	Price Each 1+	10+	100+
ATF16V8CZ-15JU	20/PLCC	8	150	8	15ns	-40 - 85°C	SMD 155-1767●	2.15	1.80	1.36
ATF16V8CZ-15PU	20/DIP	8	150	8	15ns	-40 - 85°C	155-1768●	2.15	1.80	1.36
ATF22V10C-15JU	28/PLCC	10	350	10	15ns	-40 - 85°C	SMD 155-1769●	2.12	1.76	1.33
ATF22V10C-15PU	24/PDIP	10	350	10	15ns	-40 - 85°C	155-1770●	2.12	1.76	1.33
ATF22V10CQZ-20JU	28/PLCC	10	350	10	20ns	-40 - 85°C	SMD 155-1771●	2.91	2.46	1.85
ATF22V10CQZ-20PU	24/PDIP	10	350	10	20ns	-40 - 85°C	155-1773●	2.91	2.43	1.85

ATF15XX-DK3 Development/Programming Kit



This CPLD Development/Programmer Kit is a complete development system and an ISP programmer for the ATF15xx family of industry standard pin CPLDs. The kit provides designers with a very quick and easy way to develop prototypes and evaluate new designs.

Kit Includes:

- CPLD Development/Programmer Board
- 44-pin TQFP Socket Adapter Board
- Atmel CPLD ISP Multi-Volt Download Cable
- Atmel PLD Software CDs
- Two 44-pin TQFP Sample Devices

502136

Mftrs. List No.	Description	Order Code	Price Each
ATF15XX-DK3	ATF15XX-DK3 CPLD Development Kit	155-1776●	85.26

ATF15XX, ATF25XX CPLDs

The ATF150x are high performance, high density complex programmable logic devices that utilise Atmel's proven electrically-erasable technology. These devices easily integrate logic from several TTL, SSI, MSI, LSI and classic PLDs. The enhanced routing switch matrices increase usable gate count and the odds of successful pin-locked design modifications.

The ATF2500C is a high-performance CMOS (electrically-erasable) programmable logic device (PLD) that utilizes Atmel's proven electrically-erasable technology. With its fully connected logic array and flexible macrocell structure, high gate utilization is easily obtainable.

502134

Mftrs. List No.	Pins/Pkg	Macrocells	Usable Gates	I/O Lines	t_{PD}	Temperature Range	Order Code	Price Each 1+	10+	100+
ATF1502ASL-25AU44	44/TQFP	32	750	32	25ns	-40 - 85°C	SMD 155-1763●	3.05	2.50	2.50
ATF1502ASV-15AU44	44/TQFP	32	750	32	15ns	-40 - 85°C	SMD 155-1765●	2.46	2.05	1.55
ATF1504ASVL-20AU44	44/TQFP	64	1500	32	20ns	-40 - 85°C	SMD 155-1766●	4.31	3.57	2.70
ATF2500C-15JU	44/PLCC	24	2500	24	15ns	-40 - 85°C	SMD 155-1774●	7.36	6.12	4.67
ATF2500C-20PU	40/PDIP	24	2500	24	20ns	-40 - 85°C	155-1775●	6.57	5.42	4.17

Ultra37000 CPLD Family

The Ultra37000™ family of CMOS CPLDs provides a range of high-density programmable logic solutions with excellent system performance. The architecture is based on a number of logic blocks that are connected by a Programmable Interconnect Matrix (PIM). Each logic block features its own product term array, product term allocator, and 16 macrocells. The PIM distributes signals from the logic block outputs and all input pins to the logic block inputs.

	Macrocells	Gate Equivalents	I/O Pins	Speed (ns)	Supply Current (mA)	Pkg/Pins Package	Mftrs. List No.
37064	64	2000	69	6	10	TQFP	CY37064P100-125AXC
37064	64	2000	37	6	10	TQFP	CY37064P44-125AXC
37128	128	3800	69	6.5	10	TQFP	CY37128P100-100AXC

387100

Mftrs. List No.	Order Code	Price Each 1+	10+	100+
CY37064P100-125AXC	SMD 891-1347●	8.76	6.72	5.70
CY37064P44-125AXC	SMD 891-1355●	7.13	4.86	3.92
CY37128P100-100AXC	SMD 891-1363●	13.68	10.28	8.66

CDROM Programmable Logic Techniques ELPLD

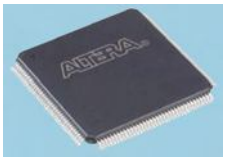
This CD ROM gives a thorough introduction to programmable logic design techniques to CPLD and FPGA programming using Altera's Quartus II Web Edition software. The CD starts with an introduction to designing with Quartus II using block diagrams, at basic and intermediate levels. Then the CD ROM takes students through the process of developing combinational and sequential logic designs using both Verilog and VHDL descriptor languages. The CD is suitable for those who have some experience of digital logic and want to get to grips with modern CPLD and FPGA techniques. A number of example projects in block diagrams, Verilog and VHDL are included.

- Complete guide to logic design using Quartus II
- Includes example projects
- Includes courses in both Verilog and VHDL

475524

	Mftrs. List No.	Order Code	Price Each
CD-ROM, PROG LOGIC TECHNIQUES	ELPLDSI	138-2480	84.86

ACEX™ 1K FPGAs



ACEX 1K devices provide a die-efficient, low-cost architecture by combining look-up table architecture with embedded array blocks. LUT-based logic provides optimized performance and efficiency for data-path, register intensive, mathematical, or digital signal processing designs, while EABs implement RAM, ROM, dual-port RAM, or first-in first-out (FIFO) functions. These elements make ACEX 1K suitable for complex logic functions and memory functions such as digital signal processing, wide data-path manipulation, data transformation and microcontrollers, as required in high-performance communications applications.

503997

RL Re-reeling available

Device	Pins/ Package	Typical Gates	Max. System Gates	Logic Elements	EABs	Total RAM bits	I/O Pins	Operating Temperature	Mftrs. List No.	Order Code	Price Each
FPGA	144/TQFP	10000	56,000	576	3	12,288	92	0°C to +70°C	EP1K10TC144-3N	SMD 145-3500●	9.59
FPGA	100/TQFP	10000	56,000	576	3	12,288	66	0°C to +70°C	EP1K10TC100-3N	SMD 154-9323●	8.86
FPGA	208/PQFP	10000	56,000	576	3	12,288	120	0°C to +70°C	EP1K10QC208-2N	SMD 154-9326●	13.72
FPGA	208/PQFP	30000	119,000	1,728	6	24,576	147	0°C to +70°C	EP1K30QC208-3N	SMD 145-3491●	13.67
FPGA	144/TQFP	30000	119,000	1,728	6	24,576	102	0°C to +70°C	EP1K30TC144-3N	SMD 992-6089●	21.79
FPGA	144/TQFP	50000	199,000	2,880	10	40,960	102	0°C to +70°C	EP1K50TC144-1N	SMD 154-9324●	35.50
FPGA	208/PQFP	50000	199,000	2,880	10	40,960	147	0°C to +85°C	EP1K50QC208-3N	NEW SMD 163-7226●	17.14
FPGA	208/PQFP	100000	257,000	4,992	12	49,152	147	0°C to +70°C	EP1K100QC208-3N	SMD 154-9325●	31.73

FLEX 6000 / 8000A PLDs

ALTERA

New

Altera's Flexible Logic Element MatriX (FLEX®) family combines the benefits of both EPLDs and FPGAs.

The FLEX 6000 programmable logic device family provides a low-cost alternative to high-volume gate array designs. The devices have reconfigurable SRAM elements, which give designers the flexibility to quickly change their designs during prototyping and design testing. FLEX 6000 devices are reprogrammable, and they are 100% tested prior to shipment.

FLEX 8000 devices provide a large number of storage elements for applications such as digital signal processing (DSP), wide-data-path manipulation, and data transformation. These devices are an excellent choice for bus interfaces, TTL integration, coprocessor functions, and high-speed controllers. The high-pin-count packages can integrate multiple 32-bit buses into a single device.

501719

Mftrs. List No.	Pins/Pkg	Number of Logic Blocks/Elements	Usable Gates	I/Os Lines	Voltage Supply (Typ)	Temperature Range	Order Code	Price Each
Flex 6000								
EPF6016ATC144-3N	144/TQFP	1320	16000	117	3.30V	0°C to +85°C	SMD 154-9396●	20.37
EPF6010ATC144-3N	144/TQFP	880	10000	102	3.30V	0°C to +85°C	SMD 154-9397●	16.92
EPF6016AQC208-3N	208/PQFP	1320	16000	171	3.30V	0°C to +85°C	SMD 154-9398●	23.54
EPF6024AQC208-3N	208/PQFP	1960	24000	171	3.30V	0°C to +85°C	SMD 154-9399●	34.40
EPF6024AQC240-3N	240/PQFP	1960	24000	199	3.30V	0°C to +85°C	SMD 154-9400●	31.90
EPF6016TC144-3N	144/TQFP	1320	16000	117	5V	0°C to +85°C	SMD 163-7249●	15.08
Flex 8000								
EPF8282ATC100-4N	100/TQFP	208	2500	78	–	0°C to +85°C	SMD 154-9401●	10.42
EPF8636AQC160-4N	160/PQFP	504	6000	118	–	0°C to +85°C	SMD 154-9402●	22.18
EPF8282ALC84-4N	84/PLCC	208	2500	68	–	0°C to +85°C	SMD 154-9403●	7.29
EPF8636ALC84-4N	84/PLCC	504	6000	68	3.30V	0°C to +85°C	SMD 154-9404●	16.92

FLEX 10K PLDs

ALTERA

New

The FLEX 10K® embedded programmable logic family delivers the flexibility of traditional programmable logic together with the efficiency and density of embedded gate arrays. The family spans three process generations. The 2.5-V, 0.22-micron FLEX 10KE devices average 20% to 30% faster than the equivalent 0.30-micron FLEX 10KA devices, which operate at 3.3 V. Similarly, FLEX 10KA devices are an average of 20% to 30% faster than the 0.42-micron FLEX 10K devices, which operate at 5.0 V.

501708

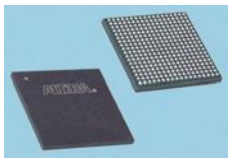
Mftrs. List No.	Pins/Pkg	Number of Logic Blocks/Elements	Usable Gates	I/Os Lines	Voltage Supply (Typ)	Temperature Range	Order Code	Price Each
EPF10K10TC144-3N	144/TQFP	576	10000	102	5.0V	0 - 85°C	SMD 154-9377●	30.85
EPF10K20TC144-3N	144/TQFP	1152	20000	102	5.0V	0 - 85°C	SMD 154-9378●	54.43
EPF10K10QC208-3N	208/PQFP	576	10000	134	5.0V	0 - 85°C	SMD 154-9380●	29.46
EPF10K20RC208-3N	208/RQFP	1152	20000	147	5.0V	0 - 85°C	SMD 154-9383●	66.43
EPF10K70RC240-3N	240/RQFP	3744	70000	189	5.0V	0 - 85°C	SMD 154-9387●	264.39
EPF10K30ATC144-3N	144/TQFP	1728	30000	102	3.3V	0 - 85°C	SMD 154-9379●	40.54
EPF10K10AQC208-3N	208/PQFP	576	10000	134	3.3V	0 - 85°C	SMD 154-9381●	20.20
EPF10K30AQC240-3N	240/PQFP	1728	30000	189	3.3V	0 - 85°C	SMD 154-9384●	47.53
EPF10K50VQC240-3N	240/PQFP	2880	50000	189	3.3V	0 - 85°C	SMD 154-9385●	85.18
EPF10K50VRC240-3N	240/RQFP	2880	50000	189	3.3V	0 - 85°C	SMD 154-9386●	88.68
EPF10K30EQC208-2N	208/PQFP	1728	30000	147	2.5V	0 - 85°C	SMD 154-9382●	44.35
EPF10K30ETC144-1N	144/TQFP	1728	30000	102	2.5V	0 - 85°C	SMD 154-9389●	57.19
EPF10K100EQC240-3N	240/PQFP	4992	100000	189	2.5V	0 - 85°C	SMD 154-9391●	105.02
EPF10K50EQC240-3N	240/PQFP	2880	50000	189	2.5V	0 - 85°C	SMD 154-9392●	73.52
EPF10K50SQC240-1N	240/PQFP	3744	50000	189	2.5V	0 - 85°C	SMD 154-9393●	130.69
EPF10K30EFC256-3N	256/FBGA	1728	30000	176	2.5V	0 - 85°C	SMD 154-9394●	36.18
EPF10K100EFC484-1N	484/FBGA	4992	100000	338	2.5V	0 - 85°C	SMD 154-9395●	228.69

MAX3000/7000 Programmable Logic Devices

ALTERA

SMD

New



MAX 3000A devices use CMOS EEPROM cells to implement logic functions. The user-configurable architecture accommodates a variety of independent logic functions. The devices can be reprogrammed for quick and efficient iterations during design development and debugging cycles, and can beprogrammed and erased up to 100 times.

The MAX 7000 family provides programmable speed/power optimisation. Speed-critical portions of a design can run at high speed/full power, while the remaining portions run at reduced speed/low power. MAX 7000E and MAX 7000S devices also provide an option that reduces the slew rate of the output buffers, minimizing noise transients when non-speed-critical signals are switching.

503927

Pins/Package	Usable Gates	Macrocells	Logic Array Blocks	I/O pins	Delay Time t_{PD} (ns)	Mftrs. List No.	Order Code	Price Each
MAX3000 Devices								
44/TQFP	600	32	2	34	10	EPM3032ATC4410N	SMD 145-3507●	1.24
44/TQFP	600	32	2	34	4.5	EPM3032ATC44-4N	SMD 154-9414●	2.77
44/TQFP	600	32	2	34	7.5	EPM3032ATC44-7N	SMD 154-9415●	1.69
44/TQFP	600	32	2	34	10	EPM3032ATI44-10N	SMD 154-9416●	1.69
44/PLCC	600	32	2	34	4.5	EPM3032ALC44-10N	SMD 163-7250●	0.85
44/TQFP	600	32	2	34	4.5	EPM3032ATC44-10N	SMD 163-7251●	0.92
44/TQFP	1250	64	4	34	10	EPM3064ATC4410N	SMD 145-3505●	2.27
100/TQFP	1250	64	4	66	7.5	EPM3064ATC100-7N	SMD 154-9407●	4.07
100/TQFP	1250	64	4	66	4.5	EPM3064ATC100-4N	SMD 154-9405●	6.38
100/TQFP	1250	64	4	66	4.5	EPM3064ATI100-10N	SMD 154-9410●	4.07
44/PLCC	1250	64	4	34	10	EPM3064ALC44-10N	SMD 154-9412●	3.26
44/PLCC	1250	64	4	34	4.5	EPM3064ALC44-4N	SMD 154-9413●	5.23
44/TQFP	1250	64	4	34	10	EPM3064ATC44-10N	SMD 154-9417●	2.77
44/TQFP	1250	64	4	34	4.5	EPM3064ATC44-4N	SMD 154-9419●	5.77
44/TQFP	1250	64	4	34	7.5	EPM3064ATC44-7N	SMD 154-9422●	3.16
44/TQFP	1250	64	4	34	10	EPM3064ATI44-10N	SMD 154-9423●	3.16
100/TQFP	2500	128	8	80	10	EPM3128ATC100-10N	SMD 145-3461●	7.67
100/TQFP	2500	128	8	80	5	EPM3128ATC100-5N	SMD 154-9408●	20.36
100/TQFP	2500	128	8	80	7.5	EPM3128ATC100-7N	SMD 154-9409●	12.69
144/TQFP	2500	128	8	96	10	EPM3128ATC144-10N	SMD 154-9411●	13.99
144/TQFP	5000	256	16	116	10	EPM3256ATC144-10N	SMD 145-3462●	17.16
208/PQFP	5000	256	16	158	7.5	EPM3256AQC208-10N	SMD 163-7252●	11.73

RL Re-reeling available

Programmable Logic Devices - continued

MAX3000/7000 Programmable Logic Devices - continued

Pins/Package	Usable Gates	Macrocells	Logic Array Blocks	I/O pins	Delay Time t_{PD} (ns)	Mftrs. List No.	Order Code	Price Each
MAX7000 Devices								
44/PLCC	600	32	2	36	6	EPM7032SLC44-6N	SMD 154-9447●	8.71
44/PLCC	600	32	2	36	7.5	EPM7032SLI44-7N	SMD 154-9448●	5.26
44/TQFP	600	32	2	36	5	EPM7032STC44-5N	SMD 154-9451●	10.07
44/TQFP	600	32	2	36	7.5	EPM7032STC44-7N	SMD 154-9452●	4.10
44/PLCC	600	32	2	36	5	EPM7032SLC44-10N	SMD 163-7254●	2.61
44/PLCC	1250	64	4	36	6	EPM7064SLC44-5N	SMD 992-5899●	22.93
44/TQFP	1250	64	4	36	10	EPM7064STC44-10N	SMD 992-5902●	7.69
100/TQFP	1250	64	4	68	7.5	EPM7064STI100-7N	SMD 154-9426●	25.43
44/PLCC	1250	64	4	36	7.5	EPM7064SLI44-7N	SMD 154-9450●	11.67
44/TQFP	1250	64	4	36	5	EPM7064STC44-5N	SMD 154-9453●	24.51
44/TQFP	1250	64	4	36	7.2	EPM7064STC44-7N	SMD 154-9454●	13.91
44/TQFP	1250	64	4	36	7.2	EPM7064STI44-7N	SMD 154-9456●	15.95
84/PLCC	1250	64	4	68	10	EPM7064SLC84-10N	SMD 154-9457●	7.45
44/PLCC	1250	64	4	36	7.5	EPM7064SLC44-7N	SMD 154-9449●	9.05
44/PLCC	1250	64	4	36	5	EPM7064SLC44-10N	SMD 163-7255●	3.67
100/TQFP	2500	128	8	84	15	EPM7128STC100-15N	SMD 992-5937●	15.42
100/PQFP	2500	128	8	84	7.5	EPM7128SQC100-7N	SMD 154-9424●	28.00
100/PQFP	2500	128	8	84	10	EPM7128SQI100-10N	SMD 154-9425●	27.61
100/TQFP	2500	128	8	84	7.5	EPM7128STC100-7N	SMD 154-9427●	30.30
100/TQFP	2500	128	8	84	10	EPM7128STI100-10N	SMD 154-9428●	28.06
160/PQFP	2500	128	8	100	10	EPM7128SQC160-10N	SMD 154-9435●	24.51
160/PQFP	2500	128	8	100	10	EPM7128SQI160-10N	SMD 154-9436●	32.43
84/PLCC	2500	128	8	68	7.5	EPM7128SLC84-7N	SMD 154-9458●	23.19
84/PLCC	2500	128	8	68	10	EPM7128SLI84-10N	SMD 154-9459●	19.36
100/TQFP	2500	128	8	84	10	EPM7128AETC100-10N	SMD 145-3460●	14.93
144/TQFP	2500	128	8	100	7.5	EPM7128AETC144-7N	SMD 154-9432●	25.67
84/PLCC	2500	128	8	68	6	EPM7128SLC84-15N	SMD 163-7256●	8.04
100/TQFP	3200	160	10	84	10	EPM7160STC100-10N	SMD 154-9429●	25.67
100/TQFP	3200	160	10	84	10	EPM7160STI100-10N	SMD 154-9430●	33.86
160/PQFP	3200	160	10	104	10	EPM7160SQC160-10N	SMD 154-9437●	33.45
84/PLCC	3200	160	10	64	10	EPM7160SLC84-10N	SMD 154-9460●	22.48
160/PQFP	3750	192	12	124	7.5	EPM7192SQC160-7N	SMD 154-9434●	52.85
160/PQFP	3750	192	12	124	10	EPM7192SQC160-10N	SMD 154-9438●	39.68
160/PQFP	3750	192	12	124	7.5	EPM7192SQI160-10N	SMD 154-9439●	51.55
208/PQFP	5000	256	16	164	10	EPM7256SQC208-10N	SMD 154-9442●	43.47
208/RQFP	5000	256	16	164	10	EPM7256SRI208-10N	SMD 154-9444●	87.65
144/TQFP	5000	256	16	120	7.5	EPM7256AETC144-7N	SMD 154-9433●	42.50
208/PQFP	5000	256	16	164	10	EPM7256AEQC208-10N	SMD 154-9440●	34.67
208/PQFP	5000	256	16	164	7.5	EPM7256AEQC208-7N	SMD 154-9441●	47.78
256/FBGA	5000	256	16	164	10	EPM7256AEFC256-10N	SMD 154-9445●	17.23
256/FBGA	5000	256	16	164	7.5	EPM7256AEFC256-7N	SMD 154-9446●	22.18

MAX II Development Kit

ALTERA



Altera's MAX® II Development Kit comes with a complete design environment. The kit enables users to evaluate the MAX II feature set or begin prototyping a design prior to receiving custom hardware. It includes all software, cables, and accessories needed to ensure an easy and productive evaluation of the MAX II CPLD.

Contents:

- MAX II Development Board
- Quartus® II Web Edition design software
- Cables and accessories
- Reference designs and demos for MAX II

478358

Mftrs List No.	Order Code	Price Each
DK-MAXII-1270N	142-8132●	134.91

Altera MAX-CPLD Value Pack

ALTERA

LEAP ELECTRONIC CO.,LTD.





Altera's MAX® II Development Kit comes with a complete design environment. The kit enables users to evaluate the MAX II feature set or begin prototyping a design prior to receiving custom hardware.
Leap Electronics design board is programmable so the operation can be changed using only software alterations, instead of the constant design and manufacturing of small circuits using a number of logical devices on a bread board.
This value pack allows the user to Weigh Costs against features, benefits and performance.

This value pack gives the user an option to weigh costs against features, benefits and performance.

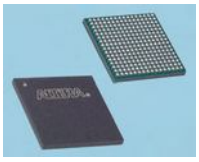
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Mftrs. List No.	Order Code	Price Each
MAX-CPLD PROMO	152-6458●	140.71

MAX II EPMxx CPLDs

ALTERA

SMD



The MAX® II family of instant-on, non-volatile CPLDs is based on a 0.18-µm, 6-layer-metal-flash process. Featuring MultiVolt™ core, a user flash memory (UFM) block, and enhanced in-system programmability (ISP), MAX II devices are designed to reduce cost and power while providing programmable solutions for applications such as bus bridging, I/O expansion, power-on reset (POR) and sequencing control, and device configuration control.

503960

Device	Pins/ Package	Logic Elements	Typical Equivalent Macrocells	Equivalent Macrocell Range	UFM Size (bits)	I/O Pins	Operating Temperature	Mftrs. List No.	Order Code	Price Each
CPLD	100/TQFP	240	192	128 to 240	8,192	80	0 - 85°C	EPM240T100C4N	SMD 145-3502●	7.40
CPLD	100/TQFP	240	192	128 to 240	8,192	80	0 - 85°C	EPM240T100C5N	SMD 145-3503●	5.35
CPLD	100/TQFP	240	192	128 to 240	8,192	80	0 - 85°C	EPM240T100C3N	NEW SMD 154-9466●	9.75
CPLD	100/TQFP	240	192	128 to 240	8,192	80	-40 - 100°C	EPM240T100I5N	NEW SMD 154-9468●	7.40
CPLD	100/MBGA	240	192	128 to 240	8,192	80	0 - 85°C	EPM240GM100C5N	NEW SMD 154-9462●	4.70
CPLD	100/TQFP	240	192	128 to 240	8,192	80	0 - 85°C	EPM240GT100C3N	NEW SMD 154-9465●	9.75
CPLD	100/FBGA	240	192	128 to 240	8,192	80	0°C to +85°C	EPM240F100C5N	NEW SMD 163-5094●	4.41

RL Re-reeling available

Device	Pins/ Package	Logic Elements	Typical Equivalent Macrocells	Equivalent Macrocell Range	UFM Size (bits)	I/O Pins	Operating Temperature	Mftrs. List No.	Order Code	Price Each
CPLD	100/MBGA	240	192	128 to 240	8,192	80	0°C to +85°C	EPM240M100C5N	NEW SMD 163-5095●	4.53
CPLD	256/FBGA	570	440	240 to 570	8,192	160	0 - 85°C	EPM570F256C4N	SMD 145-3479●	27.00
CPLD	256/FBGA	570	440	240 to 570	8,192	160	0 - 85°C	EPM570F256C5N	SMD 145-3483●	19.33
CPLD	100/TQFP	570	440	240 to 570	8,192	76	0 - 85°C	EPM570T100C4N	SMD 145-3489●	16.66
CPLD	100/TQFP	570	440	240 to 570	8,192	76	0 - 85°C	EPM570T100C5N	SMD 145-3498●	11.85
CPLD	100/MBGA	570	440	240 to 570	8,192	76	0 - 85°C	EPM570M100C4N	NEW SMD 154-9464●	12.60
CPLD	100/TQFP	570	440	240 to 570	8,192	76	0 - 85°C	EPM570T100C3N	NEW SMD 154-9470●	21.74
CPLD	100/TQFP	570	440	240 to 570	8,192	76	-40 - 100°C	EPM570T100I5N	NEW SMD 154-9471●	15.23
CPLD	144/TQFP	570	440	240 to 570	8,192	116	0 - 85°C	EPM570T144C3N	NEW SMD 154-9475●	32.17
CPLD	144/TQFP	570	440	240 to 570	8,192	116	-40 - 100°C	EPM570T144I5N	NEW SMD 154-9476●	22.55
CPLD	100/FBGA	570	440	240 to 570	8,192	76	0 - 85°C	EPM570GF100C5N	NEW SMD 154-9461●	9.43
CPLD	100/MBGA	570	440	240 to 570	8,192	76	0 - 85°C	EPM570GM100C5N	NEW SMD 154-9463●	10.87
CPLD	100/TQFP	570	440	240 to 570	8,192	76	-40 - 100°C	EPM570GT100C5N	NEW SMD 154-9469●	11.85
CPLD	144/TQFP	570	440	240 to 570	8,192	116	0 - 85°C	EPM570GT144C3N	NEW SMD 154-9474●	32.17
CPLD	100/FBGA	570	440	240 to 570	8,192	160	0°C to +85°C	EPM570F100C5N	NEW SMD 163-5096●	10.22
CPLD	100/MBGA	570	440	240 to 570	8,192	160	0°C to +85°C	EPM570M100C5N	NEW SMD 163-5097●	10.11
CPLD	144/TQFP	570	440	240 to 570	8,192	160	0°C to +85°C	EPM570T144C5N	NEW SMD 163-5099●	13.70
CPLD	256/MBGA	570	440	240 to 570	8,192	160	0°C to +85°C	EPM570M256C5N	NEW SMD 163-5100●	16.44
CPLD	144/TQFP	1270	980	570 to 1270	8,192	116	0 - 85°C	EPM1270T144C3N	SMD 145-3471●	40.45
CPLD	144/TQFP	1270	980	570 to 1270	8,192	116	0 - 85°C	EPM1270T144C5N	SMD 145-3481●	20.22
CPLD	144/TQFP	1270	980	570 to 1270	8,192	116	-40 - 100°C	EPM1270T144I5N	NEW SMD 154-9473●	28.34
CPLD	256/FBGA	1270	980	570 to 1270	8,192	212	0 - 85°C	EPM1270F256C4N	NEW SMD 154-9477●	32.20
CPLD	256/FBGA	1270	980	570 to 1270	8,192	212	-40 - 100°C	EPM1270F256I5N	NEW SMD 154-9478●	32.20
CPLD	144/TQFP	1270	980	570 to 1270	8,192	116	0 - 85°C	EPM1270GT144C5N	NEW SMD 154-9472●	18.51
CPLD	256/MBGA	1270	980	570 to 1270	8,192	212	0 - 85°C	EPM1270GM256C5N	NEW SMD 154-9483●	22.98
CPLD	256/FBGA	1270	980	570 to 1270	8,192	212	0°C to +85°C	EPM1270F256C5N	NEW SMD 163-5101●	21.39
CPLD	256/MBGA	1270	980	570 to 1270	8,192	212	0°C to +85°C	EPM1270M256C5N	NEW SMD 163-5102●	21.39
CPLD	256/FBGA	2210	1700	1270 to 2210	8,192	204	0 - 85°C	EPM2210F256C4N	NEW SMD 154-9481●	36.21
CPLD	256/FBGA	2210	1700	1270 to 2210	8,192	204	-40°C to +100°C	EPM2210F256I5N	NEW SMD 154-9482●	36.21
CPLD	256/FBGA	2210	1700	1270 to 2210	8,192	272	0°C to +85°C	EPM2210F256C5N	NEW SMD 163-5103●	24.07
CPLD	324/FBGA	2210	1700	1270 to 2210	8,192	272	0°C to +85°C	EPM2210F324C5N	NEW SMD 163-5105●	27.44

MAX IIZ CPLDs



The MAX® II family of instant-on, non-volatile CPLDs is based on a 0.18-µm, 6-layer-metal-flash process, with densities from 240 to 2,210 logic elements and non-volatile storage of 8 Kbits. These devices offer high I/O counts, fast performance, and reliable fitting versus other CPLD architectures. Featuring MultiVolt core, a user flash memory (UFM) block, and enhanced in-system programmability.

510464

Pins/ Package	Logic Elements	Typical Equivalent Macrocells	Equivalent Macrocell Range	UFM Size (bits)	I/O Pins	tPD (ns)	Operating Temperature	Mftrs. List No.	Order Code	Price Each
68/MBGA	240	192	128 to 240	8,192	54	7.5	0 - 85°C	EPM240ZM68C7N	SMD 160-2343●	7.89
68/MBGA	240	192	128 to 240	8,192	54	7.5	0 - 85°C	EPM240ZM68C6N	SMD 160-2344●	11.77
100/MBGA	240	192	128 to 240	8,192	80	7.5	0 - 85°C	EPM240ZM100C7N	SMD 160-2345●	10.24
100/MBGA	240	192	128 to 240	8,192	80	7.5	0 - 85°C	EPM240ZM100C6N	SMD 160-2346●	12.32
100/MBGA	570	440	240 to 570	8,192	76	9	0 - 85°C	EPM570ZM100C7N	SMD 160-2347●	18.21
100/MBGA	570	440	240 to 570	8,192	76	9	0 - 85°C	EPM570ZM100C6N	SMD 160-2348●	27.32
144/MBGA	570	440	240 to 570	8,192	116	9	0 - 85°C	EPM570ZM144C7N	SMD 160-2349●	28.36
144/MBGA	570	440	240 to 570	8,192	116	9	0 - 85°C	EPM570ZM144C6N	SMD 160-2350●	23.42
256/MBGA	570	440	240 to 570	8,192	160	9	0 - 85°C	EPM570ZM256C7N	SMD 160-2351●	25.51
256/MBGA	570	440	240 to 570	8,192	160	9	0 - 85°C	EPM570ZM256C6N	SMD 160-2352●	44.38

FPT-3 plus Logic Circuit Design Board

LEAP ELECTRONIC CO.,LTD.

CPLD / FPGA Hardware & Software Development Unit



- Latest CPLD / FPGA Development System
- Develop hardware circuits using Circuit Graphics and VHDL
- Support Altera CPLD MAX700S devices
- System clock 1.8432MHz
- 1250 Logic Gates & 64 LCs
- 8 LED, a buzzer & 2 digit 7 segement output displays
- 8 logic DIP switches and 4 sets of negative pulse press button

475227

	Mftrs. List No.	Order Code	Price Each
CPLD/FPGA Logic Circuit Design Board	FPT-3-PLUS	137-8694●	33.03

Arria GX FPGA Development Kit



This development kit delivers a complete environment for the development and testing of designs implementing high-speed serial interfaces in Arria GX FPGAs. It is built on a PCIe form-factor card and targets the development of designs utilizing PCI Express x1 and x4, Gigabit Ethernet, and/or Serial RapidIO® (SRIO) protocols.

Kit Includes:

- Arria GX development board
- Quartus® II Web Edition design software
- PCI Express Development Kit, Arria GX Edition CD ROM
- Cable and accessories

504452

Mftrs. List No.	Description	Order Code	Price Each
DK-DEV-1AGX60N	Arria GX FPGA Development Kit	156-0818●	805.02

Arria GX FPGAs

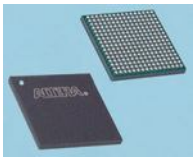
The Arria™ GX family of devices combines protocol-optimized serial transceivers with reliable packaging technology and a proven logic array. They include 4 to 12 high-speed transceiver channels, each incorporating clock/data recovery (CDR) technology and embedded SERDES circuitry optimally designed to support PCI-Express, Gigabit Ethernet, and Serial RapidIO protocols.

501823

Pins/Pkg	Number of Logic Blocks/ Elements	Block RAM	I/Os Lines	Transceiver Channels	Voltage Supply (Typ)	Temperature Range	Mftrs. List No.	Order Code	Price Each
1152/FBGA	50160	313 b	514	8	1.2V	0 - 85°C	EP1AGX50DF1152C6N . .	SMD 154-9328●	229.20
1152/FBGA	60100	326 b	514	12	1.2V	0 - 85°C	EP1AGX60EF1152C6N . .	SMD 154-9329●	354.95
1152/FBGA	90,220	478 b	538	12	1.15V bis 1.25V	0°C to +85°C	EP1AGX90EF1152C6N . .	NEW SMD 163-7225●	458.77
484/FBGA	21580	166 b	230	4	1.2V	0 - 85°C	EP1AGX20CF484C6N . . .	SMD 154-9330●	70.40
484/FBGA	21580	166 b	230	4	1.2V	-40 - 100°C	EP1AGX20CF484I6N . . .	SMD 154-9331●	84.48
780/FBGA	21580	166 b	341	4	1.2V	0 - 85°C	EP1AGX20CF780C6N . . .	SMD 154-9332●	84.48
780/FBGA	33520	197 b	341	8	1.2V	0 - 85°C	EP1AGX35DF780C6N . . .	SMD 154-9333●	128.29
780/FBGA	60100	326 b	350	8	1.2V	0 - 85°C	EP1AGX60DF780C6N . . .	SMD 154-9334●	211.88

Programmable Logic Devices - continued

Cyclone FPGA Family



The Cyclone® field programmable gate array family is based on a 1.5-V, 0.13-µm, all-layer copper SRAM process. With features like phaselockedloops for clocking and a dedicated double data rate (DDR) interface to meet DDR SDRAM and fast cycle RAM (FCRAM) memory requirements, Cyclone devices are a cost-effective solution for data-path applications. These devices support various I/O standards, including LVDS at data rates up to 640 megabits per second (Mbps), and 66- and 33-MHz, 64- and 32-bit peripheral component interconnect (PCI), for interfacing with and supporting ASSP and ASIC devices.

503908

Device	Pins/ Package	Logic Elements	M4K RAM Blocks	Total RAM bits	PLLs	I/O Pins	Operating Temperature	Mftrs. List No.	Order Code	Price Each
1C3T100	100/TQFP	2,910	13	59,904	1	65	0 - 85°C	EP1C3T100C8N	SMD 145-3501	9.53
1C3T100	100/TQFP	2,910	13	59,904	1	65	-40 - 100°C	EP1C3T100I7N	SMD 145-3494	14.26
1C3T144	144/TQFP	2,910	13	59,904	1	104	0 - 85°C	EP1C3T144C8N	SMD 145-3499	9.36
1C3T144	144/TQFP	2,910	13	59,904	1	104	-40 - 100°C	EP1C3T144I7N	SMD 145-3485	14.91
1C4F324	324/FBGA	4,000	17	78,336	2	249	0 - 85°C	EP1C4F324C8N	SMD 145-3486	14.65
1C4F400	400/FBGA	4,000	17	78,336	2	301	0 - 85°C	EP1C4F400C8N	NEW SMD 154-9375	19.59
1C6T144	144/TQFP	5,980	20	92,160	2	98	0 - 85°C	EP1C6T144C8N	SMD 145-3492	13.33
1C6F256	256/FBGA	5,980	20	92,160	2	185	0 - 85°C	EP1C6F256C8N	SMD 145-3482	18.18
1C6F256	256/FBGA	5,980	20	92,160	2	185	-40 - 100°C	EP1C6F256I7N	SMD 145-3478	26.25
1C6FQ240	240/PQFP	5,980	20	92,160	2	185	0°C to +85°C -	EP1C6Q240C8N	NEW SMD 163-5093	14.96
1C12Q240	240/PQFP	12,060	52	239,616	2	173	0 - 85°C	EP1C12Q240C8N	SMD 145-3477	27.04
1C12F256	256/FBGA	12,060	52	239,616	2	185	0 - 85°C	EP1C12F256C8N	SMD 145-3475	28.48
1C12F256	256/FBGA	12,060	52	239,616	2	185	-40 - 100°C	EP1C12F256I7N	SMD 145-3467	45.57
1C12F324	324/FBGA	12,060	52	239,616	2	249	0 - 85°C	EP1C12F324C8N	NEW SMD 154-9372	33.17
1C20F324	324/FBGA	20,060	64	294,912	2	301	0 - 85°C	EP1C20F324C8N	NEW SMD 154-9373	53.46
1C20F400	400/FBGA	20,060	64	294,912	2	301	0 - 85°C	EP1C20F400C8N	NEW SMD 154-9374	47.94

Video Development Kit - Cyclone II Edition



New

This video development kit delivers a complete development environment for digital video and image processing using Cyclone II FPGAs and Texas Instruments TVP5146 family of video analog-to-digital (A/D) converters. The kit assists the entire design process from design conception through hardware implementation.

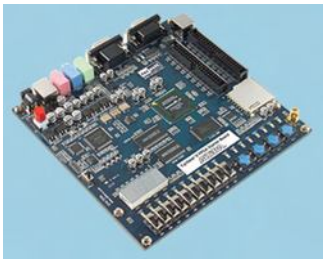
Kit Includes:

- Cyclone II EP2C70 DSP development board
- Cyclone II EP2C70F672C6 device
- Video input daughtercard
- MATLAB/Simulink evaluation software
- DSP Builder development tool
- Quartus II development kit edition (DKE)
- Evaluation IP cores
- USB-Blaster™ download cable
- Power supply and international power cords
- System reference designs and labs

519896

Mftrs. List No.	Description	Order Code	Price Each
DK-VIDEO-2C70N	Cyclone II Video Development Kit	163-5110	863.88

Cyclone II FPGA Starter Development Kit



New

This kit provides the user with an integrated control environment that includes a software controller, USB command controller, multi-port SRAM/SDRAM/flash memory controller and demonstration circuitry specified in Verilog code. These features enable users to implement and test designs without the need to use complex APIs, host control software or SRAM/SDRAM/flash memory controllers.

Kit Includes:

- Cyclone II FPGA Starter Development board
- Altera Development Suite Tools CD-ROMs
- Cables and power supply
- six rubber (silicon) covers for the development board stands and extender pins
- Clear plastic cover for the board

504447

Mftrs. List No.	Description	Order Code	Price Each
DK-CYCII-2C20N	Cyclone II FPGA Starter Development Kit	156-0812	144.93

Nios® II Evaluation Kit

Cyclone II Edition



New

The Nios®II Development Kit, Cyclone® II Edition provides everything needed for system-on-a-programmable-chip (SOPC) development. Based on the Nios II family of embedded processors and the low-cost Cyclone II EP2C35 device, this development kit provides an ideal environment for developing and prototyping a wide range of price-sensitive embedded applications.

Kit Includes:

- Nios development board
- USB-Blaster™ download cable
- Ethernet cable
- Ethernet cross-over adapter
- Ethernet PHY daughter board
- LCD module
- 9-pin RS-232 serial cable
- DC power supply
- Three regional power cables

504448

Mftrs. List No.	Description	Order Code	Price Each
DK-NIOS-2C35N	Nios II Development Kit, Cyclone II Edition	156-0813	767.92

PCI Development Kit

Cyclone II Edition



New

This PCI Development Kit, Cyclone™ II Edition is a complete PCI and PCI-X prototyping and testing kit, based on the Cyclone II device. PCI transactions between the board and the host PC can be performed, as well as configuring the board with either the factory-programmed or user-programmable design.

Kit Includes:

- Cyclone II EP2C35 PCI development board
- PCI Development Kit, Cyclone II Edition CD-ROM
- Quartus® II Software Development Kit Edition
- Jungo WinDriver Development Toolkit
- PLD Applications PCI-X CORE CD-ROM
- MegaCore® IP Library CD-ROM
- USB-Blaster™ download cable and USB cable
- Power supply and adapter cables

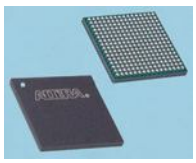
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Mftrs. List No.	Description	Order Code	Price Each
DK-PCI-2C35N	PCI Development Kit, Cyclone II Edition	156-0816	721.38

RL Re-reeling available

Farnell

Cyclone II FPGA Family



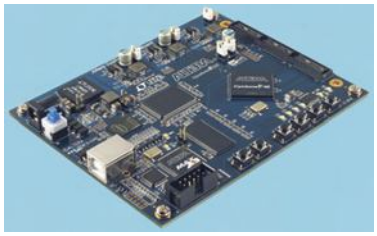
Cyclone® II FPGAs can be used alone or as DSP co-processors to improve price-to-performance ratios for DSP applications. They support the Nios II embedded processor which allows implementation of custom-fit embedded processing solutions. They can also expand the peripheral set, memory, I/O, or performance of embedded processors. New and advanced features include, embedded multipliers, external memory interface support for DDR2 and QDRII memory devices, on-chip series termination, and support for more differential and single-ended I/O standards.

503882

Device	Pins/ Package	Logic Elements	M4K RAM Blocks (128x36 Bits)	Total RAM bits	Embedded Multipliers	PLLs	I/O Pins	Operating Temperature
2C5T144	144/TQFP	4,608	26	119,808	13	2	89	0 - 85°C
2C5T144	144/TQFP	4,608	26	119,808	13	2	89	0 - 85°C
2C5Q208	208/PQFP	4,608	26	119,808	13	2	142	-40 - 100°C
EP2C5Q208	208/PQFP	4,608	26	119,808	13	2	142	0°C to +85°C
EP2C5F256	256/FBGA	4,608	26	119,808	13	2	158	0°C to +85°C
2C8T144	144/TQFP	8,256	36	165,888	18	2	85	0 - 85°C
2C8T114	144/TQFP	8,256	36	165,888	18	2	85	-40 - 100°C
2C8Q208	208/PQFP	8,256	36	165,888	18	2	138	0 - 85°C
2C8Q208	208/PQFP	8,256	36	165,888	18	2	138	-40 - 100°C
2C8F256	256/FBGA	8,256	36	165,888	18	2	182	0 - 85°C
2C15AF256	256/FBGA	14, 448	52	239,616	26	4	152	0 - 85°C
2C15AF256	256/FBGA	14, 448	52	239,616	26	4	152	-40 - 100°C
2C15AF484	484/FBGA	14, 448	52	239,616	26	4	315	0 - 85°C
2C20Q240	240/PQFP	18,752	52	239,616	26	4	142	0 - 85°C
2C20F256	256/FBGA	18,752	52	239,616	26	4	152	0 - 85°C
2C20AF256	256/FBGA	18,752	52	239,616	26	4	152	-40 - 100°C
2C20F256	256/FBGA	18,752	52	239,616	26	4	152	0 - 85°C
2C20F256	256/FBGA	18,752	52	239,616	26	4	152	-40 - 100°C
2C20F484	484/FBGA	18,752	52	239,616	26	4	315	-40 - 100°C
EP2C20F484	484/FBGA	18,752	52	239,616	26	4	315	0°C to +85°C
2C35F484	484/FBGA	33,216	105	483,840	35	4	322	0 - 85°C
2C35F484	484/FBGA	33,216	105	483,840	35	4	322	-40 - 100°C
2C35U484	484/UFBGA	33,216	105	483,840	35	4	322	-40 - 100°C
2C35F672	672/FBGA	33,216	105	483,840	35	4	475	-40 - 100°C
EP2C35F484	484/FBGA	33,216	105	483,840	35	4	322	0°C to +85°C
EP2C35U484	484/UBGA	33,216	105	483,840	35	4	322	0°C to +85°C
EP2C35F672	672/FBGA	33,216	105	483,840	35	4	475	0°C to +85°C
2C50F484	484/FBGA	50,528	129	594,432	86	4	294	-40 - 100°C
EP2C50F484	484/FBGA	50,528	129	594,432	86	4	294	0°C to +85°C
EP2C50U484	484/UBGA	50,528	129	594,432	86	4	294	0°C to +85°C
EP2C50F672	672/FBGA	50,528	129	594,432	86	4	450	0°C to +85°C
EP2C70F672	672/FBGA	68,416	250	1,152,000	150	4	422	0°C to +85°C
EP2C70F896	896/FBGA	68,416	250	1,152,000	150	4	622	0°C to +85°C

Mftrs. List No.	Order Code	Price Each
EP2C5T144C7N	SMD 145-3495●	13.64
EP2C5T144C8N	SMD 145-3497●	11.41
EP2C5Q208I8N	NEW SMD 166-3193●	11.70
EP2C5Q208C8N	NEW SMD 163-5081●	10.96
EP2C5F256C8N	NEW SMD 163-5082●	10.86
EP2C8T144C8N	SMD 145-3487●	17.10
EP2C8T144I8N	NEW SMD 166-3192●	18.58
EP2C8Q208C8N	SMD 145-3484●	18.09
EP2C8Q208I8N	NEW SMD 166-3194●	18.96
EP2C8F256C8N	SMD 145-3480●	20.94
EP2C15AF256C8N	NEW SMD 154-9347●	29.43
EP2C15AF256I8N	NEW SMD 154-9348●	35.32
EP2C15AF484C8N	NEW SMD 154-9353●	33.05
EP2C20Q240C8N	SMD 145-3472●	32.54
EP2C20F256C8N	SMD 145-3473●	38.04
EP2C20AF256I8N	NEW SMD 154-9349●	44.06
EP2C20F256C7N	SMD 145-3469●	45.62
EP2C20F256I8N	NEW SMD 166-3195●	35.96
EP2C20F484I8N	NEW SMD 166-3196●	39.52
EP2C20F484C8N	NEW SMD 163-5083●	37.08
EP2C35F484C7N	SMD 145-3465●	100.95
EP2C35F484I8N	SMD 145-3466●	91.77
EP2C35U484I8N	NEW SMD 154-9357●	96.19
EP2C35F672I8N	NEW SMD 166-3199●	87.56
EP2C35F484C8N	NEW SMD 163-5084●	71.64
EP2C35U484C8N	NEW SMD 163-5085●	71.64
EP2C35F672C8N	NEW SMD 163-5087●	78.80
EP2C50F484I8N	NEW SMD 166-3198●	150.04
EP2C50F484C8N	NEW SMD 163-5088●	126.42
EP2C50U484C8N	NEW SMD 163-5089●	126.42
EP2C50F672C8N	NEW SMD 163-5090●	134.85
EP2C70F672C8N	NEW SMD 163-5091●	159.38
EP2C70F896C8N	NEW SMD 163-5092●	202.28

Cyclone III FPGA Starter Kit



The Cyclone® III FPGA Starter Kit is easy to use, and an ideal introduction for users who have never designed with FPGAs before. For experienced FPGA designers checking out the Cyclone III architecture, systems can leverage 60 percent (on average) faster performance and 50 percent lower power that Cyclone FPGAs offer over the competition. Several design examples included in the kit make for a quick "out-of-the-box" evaluation experience.

Contents:
- Cyclone III Starter Board
- Cyclone III FPGA Starter Kit CD-ROM
- Download instructions to receive the latest software

478369

Mftrs List No.	Order Code	Price Each
DK-START-3C25N	142-8131●	177.31

Cyclone III FPGA Development Kit



New

This development kit combines a Cyclone III® FPGA with a robust set of memories and user interfaces. The kit provides an integrated control environment that includes a USB command controller, a multi-port SRAM/DDR SDRAM/flash memory controller, Ethernet, an on-board current meter, and an example design with demonstration circuitry specified in Verilog code to help you get started quickly with your own designs.

Kit Includes:
- Cyclone III development board
- Cyclone III EP3C120F780 FPGA
- Power cord with plug adapters (US, UK, EU)
- Two HSMC connectors
- One USB type B connector
- Three HSMC debug cards
- Complete Design Suite DVD
- Development Kit, CD-ROM

519892

Mftrs. List No.	Description	Order Code	Price Each
DK-DEV-3C120N	Cyclone III FPGA Development Kit	163-5106●	1,196.79

DSP Development Kit

Cyclone III Edition



New

The DSP Development Kit, Cyclone III Edition delivers a complete digital signal processing (DSP) development environment for design engineers. The kit facilitates the entire design process from design conception through hardware implementation.

Kit Includes:
- Cyclone III development board
- Data Conversion HSMC
- DSP Builder development tool
- Quartus® II development software
- MATLAB/Simulink evaluation software
- Evaluation intellectual property (IP) cores
- power supply and cables

504451

Mftrs. List No.	Description	Order Code	Price Each
DK-DSP-3C120N	DSP Development Kit, Cyclone III Edition	156-0817●	1,308.17

Nios® II Embedded Evaluation Kit

Cyclone III Edition



New

The Nios® II Embedded, Cyclone III Edition Evaluation Kit includes a full-featured FPGA development board, LCD Multimedia Daughtercard, hardware and software development tools, documentation and accessories needed to begin embedded and system on a programmable chip designs using FPGAs.

Kit Includes:
- Nios II Embedded Evaluation Board
- Nios II Embedded Evaluation Kit CD-ROM
- Altera Complete Design Suite DVD
- SD-Card Reader (USB 2.0)
- SD-Card Flash
- USB Cable
- DC power supply

Programmable Logic Devices - continued

Nios® II Embedded Evaluation Kit - continued

Cyclone III Edition - continued

504449

Mftrs. List No.	Description	Order Code	Price Each
DK-N2EVAL-3C25N	Nios II Embedded Evaluation Kit, Cyclone III Edition	**156-0814●**	379.25

Blaster Download Cables



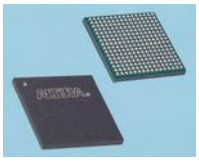


The ByteBlaster™ II and the USB-Blaster™ download cables allow you to program and configure Altera® devices. The cables drive configuration data from your PC to the device on the PCB, meaning design changes can be downloaded directly to the device. This makes for easier prototyping and also allows you to carry out multiple design iterations in quick succession.

519035

Description	Mftrs. List No.	Connetor Type A	Connetor Type B	Order Code	Price Each
ByteBlaste™ II download cable	PL-BYTEBLASTER2N	25 Pin Male Header Parallel	10 Pin Female Plug	**163-1973●**	119.35
USB-Blaste™ download cable	PL-USB-BLASTER-RCN	USB Universal Plug	10 Pin Female Plug	**163-1975●**	221.90

Cyclone III FPGA Family



The Cyclone® III FPGA family delivers a combination of low power, high functionality, and low cost. Video and image processing, displays, and wireless are just a few of the many application areas where these FPGAs can be used. All Cyclone III devices support vertical migration within the same package. This allows designers to optimize density and cost as the design evolves.

503894

Device	Pins/ Package	Logic Elements	Memory (Kbits)	Multipliers	PLLs	Global Clock Networks	I/O Pins	Operating Temperature	Mftrs. List No.	Order Code	Price Each
3C5F256	256/FBGA	5,136	414	23	2	10	182	0°C to +85°C	EP3C5F256C8N	NEW SMD **154-9367●**	12.69
3C5E144	144/EQFP	5,136	414	23	2	10	94	0°C to +85°C	EP3C5E144C8N	NEW SMD **163-5055●**	9.61
3C5M164	164/MQFP	5,136	414	23	2	10	106	0°C to +85°C	EP3C5M164C8N	NEW SMD **163-5056●**	11.75
3C5U256	256/UBGA	5,136	414	23	2	10	182	0°C to +85°C	EP3C5U256C8N	NEW SMD **163-5057●**	13.01
3C10E144	144/EQFP	10,320	414	23	2	20	94	0°C to +85°C	EP3C10E144C7N	NEW SMD **154-9363●**	19.59
3C10U256	256/UBGA	10,320	414	23	2	20	182	0°C to +85°C	EP3C10U256C8N	NEW SMD **154-9368●**	21.90
3C10E144	144/EQFP	10,320	414	23	2	20	94	0°C to +85°C	EP3C10E144C8N	NEW SMD **163-5058●**	15.17
3C10M164	164/MBGA	10,320	414	23	2	20	106	0°C to +85°C	EP3C10M164C8N	NEW SMD **163-5059●**	16.84
3C10F256	256/FBGA	10,320	414	23	2	20	182	0°C to +85°C	EP3C10F256C8N	NEW SMD **163-5060●**	18.54
3C16Q240	240/PQFP	15,408	504	56	4	20	160	0°C to +85°C	EP3C16Q240C8N	NEW SMD **154-9365●**	23.81
3C16F256	256/FBGA	15,408	504	56	4	20	168	0°C to +85°C	EP3C16F256C8N	NEW SMD **154-9366●**	25.12
3C16F484	484/FBGA	15,408	504	56	4	20	346	0°C to +85°C	EP3C16F484C8N	NEW SMD **154-9369●**	28.18
3C16E144	144/EQFP	15,408	504	56	4	20	84	0°C to +85°C	EP3C16E144C8N	NEW SMD **163-5061●**	20.02
3C16M164	164/MBGA	15,408	504	56	4	20	92	0°C to +85°C	EP3C16M164C8N	NEW SMD **163-5063●**	22.55
3C16U256	256/UBGA	15,408	504	56	4	20	168	0°C to +85°C	EP3C16U256C8N	NEW SMD **163-5064●**	25.02
3C16U484	484/UBGA	15,408	504	56	4	20	346	0°C to +85°C	EP3C16U484C8N	NEW SMD **163-5065●**	28.87
3C25E144	144/EQFP	24,624	594	66	4	20	82	0°C to +85°C	EP3C25E144C8N	SMD **145-3474●**	31.96
3C25F256	256/FBGA	24,624	594	66	4	20	156	0°C to +85°C	EP3C25F256C8N	SMD **145-3470●**	36.27
3C25F324	324/FBGA	24,624	594	66	4	20	215	0°C to +85°C	EP3C25F324C8N	SMD **145-3468●**	34.39
3C25E144C8	144/EQFP	24,624	594	66	4	20	82	0°C to +85°C	EP3C25E144C8NES	NEW SMD **163-5066●**	31.18
3C25Q240	240/PQFP	24,624	594	66	4	20	148	0°C to +85°C	EP3C25Q240C8N	NEW SMD **163-5067●**	32.04
3C25U256	256/UBGA	24,624	594	66	4	20	156	0°C to +85°C	EP3C25U256C8N	NEW SMD **163-5068●**	37.08
3C40F484	484/FBGA	39,600	1,134	126	4	20	331	0°C to +85°C	EP3C40F484C8N	NEW SMD **154-9370●**	73.39
3C40U484	484/UBGA	39,600	1,134	126	4	20	331	0°C to +85°C	EP3C40U484C8N	NEW SMD **154-9371●**	80.81
3C40Q240	240/PQFP	39,600	1,134	126	4	20	128	0°C to +85°C	EP3C40Q240C8N	NEW SMD **163-5069●**	58.97
3C40F324	324/FBGA	39,600	1,134	126	4	20	195	0°C to +85°C	EP3C40F324C8N	NEW SMD **163-5070●**	59.08
3C40F780	780/FBGA	39,600	1,134	126	4	20	535	0°C to +85°C	EP3C40F780C8N	NEW SMD **163-5071●**	80.61
3C55F484	484/FBGA	55,856	2,340	156	4	20	327	0°C to +85°C	EP3C55F484C8N	NEW SMD **163-5072●**	111.78
3C55U484	484/UBGA	55,856	2,340	156	4	20	327	0°C to +85°C	EP3C55U484C8N	NEW SMD **163-5073●**	115.10
3C55F780	780/FBGA	55,856	2,340	156	4	20	377	0°C to +85°C	EP3C55F780C8N	NEW SMD **163-5075●**	119.26
3C80F484	484/FBGA	81,264	2,745	244	4	20	295	0°C to +85°C	EP3C80F484C8N	NEW SMD **163-5076●**	148.13
3C80U484	484/UBGA	81,264	2,745	244	4	20	295	0°C to +85°C	EP3C80U484C8N	NEW SMD **163-7224●**	144.88
3C80F780	780/FBGA	81,264	2,745	244	4	20	429	0°C to +85°C	EP3C80F780C8N	NEW SMD **163-5077●**	194.11
3C120F484	484/FBGA	119,088	3,888	288	4	20	283	0°C to +85°C	EP3C120F484C8N	NEW SMD **163-5079●**	305.52
3C120F780	780/FBGA	119,088	3,888	288	4	20	531	0°C to +85°C	EP3C120F780C8N	NEW SMD **163-5080●**	330.28

See the **Dataman 48Pro** universal 48-pin programmer on page 124

DSP Development Kit - Stratix II Professional Edition



This development kit delivers a complete digital signal processing (DSP) development environment for Stratix II devices with the added benefit of being RoHS compliant. The kit assists the entire design process from design conception through hardware implementation.

Kit Includes:

- Stratix II development board
- Stratix II EP2S180F1020C3 device
- DSP Builder development tool
- Quartus® II development software
- MATLAB/Simulink evaluation software
- Evaluation intellectual property (IP) cores
- System reference designs and labs
- Power supplies
- Cables
- All relevant documentation

519893

Mftrs. List No.	Description	Order Code	Price Each
DK-DSP-2S180N	Stratix II Develoment Kit Professional Edition . .	**163-5107●**	5,051.60

DSP Development Kit - Stratix II Edition



This development kit delivers a complete digital signal processing (DSP) development environment for Stratix II devices with the added benefit of being RoHS compliant. The kit assists the entire design process from design conception through hardware implementation.

Kit Includes:
- Stratix II development board
- Stratix II EP2S60F1020C4 device
- DSP Builder development tool
- Quartus® II development software
- MATLAB/Simulink evaluation software
- Evaluation intellectual property (IP) cores
- System reference designs and labs
- Power supplies
- Cables
- All relevant documentation

519894

Mftrs. List No.	Description	Order Code	Price Each
DK-DSP-2S60N	Stratix II Develoment Kit	163-5108	1,575.00

Nios II Development Kit - Stratix II Edition



This development kit provides a complete development environment for hardware and software designers working on system-level designs. The kit is based on the Nios II family of embedded processors and the Stratix II EP2S60 device and is ideal for designing and prototyping a wide range of embedded applications.

Kit Includes:
- Nios development board
- USB-Blaster™ download cable
- Ethernet cable
- Ethernet cross-over adapter
- Ethernet PHY daughter board
- LCD module
- 9-pin RS-232 serial cable
- DC power supply
- Three regional power cables
- Altera Complete Design Suite
- Nios II Development Kit User Guide
- Quartus® II Installation & Licensing for Windows Manual

519895

Mftrs. List No.	Description	Order Code	Price Each
DK-NIOS-2S60N	Nios II Development Kit	163-5109	784.87

Stratix, Stratix II & Stratix GX / GXII

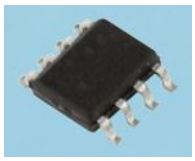
Stratix devices are optimized for DSP applications that enable efficient implementation of high-performance filters and multipliers. They support various I/O standards and also offer a complete clock management solution with its hierarchical clock structure.
The Stratix GX device family is a powerful fusion of 3.125-Gbps transceiver technology with the award winning Stratix FPGA architecture.

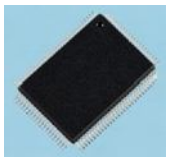
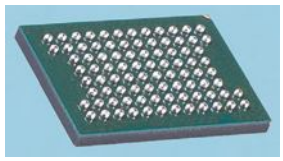
Stratix II FPGAs are based on the same feature set as Stratix devices, with many key enhancements. Stratix II devices have a new and innovative logic structure that offers higher performance and higher density at a lower cost than comparable FPGAs.
These devices provide a strong solution for the growing number of applications and protocols requiring multi-gigabit serial I/O. These transceivers provide robust noise immunity and excellent jitter performance across an operating range of 600 Mbps to 6.375 Gbps, while maintaining low power consumption.

501759

Mftrs. List No.	Pins/Pkg	Number of Logic Blocks/Elements	Block RAM	I/Os Lines	Transceiver Channels	Voltage Supply	Temperature Range	Order Code	Price Each
Stratix									
EP1S10F484C7N	484/FBGA	10000	921 kb	335	0	1.425V à 1.575V	0°C to +85°C	SMD 154-9494	108.52
EP1S20F780C7N	780/FBGA	20000	1669 kb	586	0	1.425V to 1.575V	0°C to +85°C	SMD 154-9495	234.67
EP1S25F780C6N	780/FBGA	25000	1945 kb	597	0	1.425V to 1.575V	0°C to +85°C	SMD 154-9496	613.99
EP1S25F672C7N	672/FBGA	25,660	1945 kb	473	0	1.425V to 1.575V	0°C to +85°C	SMD 163-7227	251.38
EP1S30F780C7N	780/FBGA	30000	3317 kb	597	0	1.425V to 1.575V	0°C to +85°C	SMD 154-9497	396.56
Stratix II									
EP2S15F672C3N	672/FBGA	15000	419 kb	366	0	1.15V to 1.25V	0°C to +85°C	SMD 154-9486	213.45
EP2S15F484C3N	484/FBGA	15000	419 kb	342	0	1.15V to 1.25V	0°C to +85°C	SMD 163-7232	138.26
EP2S15F484C5N	484/FBGA	15000	419 kb	342	0	1.15V to 1.25V	0°C to +85°C	SMD 163-7233	87.98
EP2S30F484C3N	484/FBGA	30000	1370 kb	342	0	1.15V to 1.25V	0°C to +85°C	SMD 154-9485	402.30
EP2S30F672C3N	672/FBGA	30000	1370 kb	500	0	1.15V to 1.25V	0°C to +85°C	SMD 154-9487	440.29
EP2S30F672C5N	672/FBGA	30000	1370 kb	500	0	1.15V to 1.25V	0°C to +85°C	SMD 154-9489	277.13
EP2S30F484C5N	484/FBGA	30000	1370 kb	342	0	1.15V to 1.25V	0°C to +85°C	SMD 163-7236	188.54
EP2S60F1020C3N	1020/FBGA	60,440	2544 kb	718	0	1.15V to 1.25V	0°C to +85°C	SMD 163-7237	662.81
EP2S60F1020C5N	1020/FBGA	60,440	2544 kb	718	0	1.15V to 1.25V	0°C to +85°C	SMD 163-7238	414.78
EP2S90F1020C5N	1020/FBGA	90,960	4520 kb	758	0	1.15V to 1.25V	0°C to +85°C	SMD 163-7239	1,068.38
EP2S180F1020C3N	1020/FBGA	179,400	9383 kb	742	0	1.15V to 1.25V	0°C to +85°C	SMD 163-7234	4,524.89
EP2S180F1508C5N	1508/FBGA	179,400	9383 kb	1170	0	1.15V to 1.25V	0°C to +85°C	SMD 163-7235	3,079.44
Stratix III									
EP3SL150F1152C4N	1152/FBGA	142500	6390 kb	736	8	1.05V to 1.15V	0°C to +85°C	SMD 163-7245	1,408.58
Stratix GX, GX II									
EP1SGX10CF672C6N	672/FBGA	10,570	920 kb	362	4	1.425V to 1.575V	0°C to +85°C	SMD 163-7229	153.34
EP1SGX25CF672C7N	672/FBGA	25000	1945 kb	455	4	1.425V to 1.575V	0°C to +85°C	SMD 154-9484	406.16
EP2SGX30DF780C3N	780/FBGA	30000	1370 kb	361	8	1.15V to 1.25V	0°C to +85°C	SMD 154-9490	476.04
EP2SGX30CF780C5N	780/FBGA	33,880	1370 kb	361	8	1.15V to 1.25V	0°C to +85°C	SMD 163-7242	221.22
EP2SGX60CF780C5N	780/FBGA	60000	2544 kb	364	4	1.15V to 1.25V	0°C to +85°C	SMD 154-9491	529.67
EP2SGX60DF780C5N	780/FBGA	60000	2544 kb	364	8	1.15V to 1.25V	0°C to +85°C	SMD 154-9493	547.56
EP2SGX60EF1152C5N	1152/FBGA	60,440	2544 kb	534	8	1.15V to 1.25V	0°C to +85°C	SMD 163-7243	455.00
EP2SGX90FF1508C5N	1508/FBGA	90,960	4520 kb	650	8	1.15V to 1.25V	0°C to +85°C	SMD 163-7244	1,184.85
EP2SGX130GF1508C4N	1508/FBGA	132,540	6748 kb	361	8	1.15V to 1.25V	0°C to +85°C	SMD 163-7240	2,882.52
EP1SGX40GF1020C6N	1020/FBGA	41,250	3423 kb	624	20	1.425V to 1.575V	0°C to +85°C	SMD 163-7231	1,144.63

Serial Configurable CPLD Memory



These flash memory devices serially configure Stratix® III, Stratix II GX, and Stratix II FPGAs, Arria™ GXFPGAs, and the Cyclone® series FPGAs using the active serial (AS) configuration scheme.

Features:
- Low cost, low-pin count, and non-volatile memory
- Low current during configuration and near-zero standby mode current
- Enables the Nios® processor to access unused flash memory through AS memory interface
- Re-programmable memory with more than 100,000 erase/program cycles
- Write protection support for memory sectors using status register bits
- In-system programming support with SRunner software driver
- In-system programming support with USB Blaster™, EthernetBlaster™, or ByteBlaster™ II download cables

504000

Device	Pins/ Package	Memory Type	Memory Size	Operating Temp.
EPC1	20/PLCC	OTP	1Mbit	0°C to +70°C
EPC1	8/DIP	OTP	1Mbit	0°C to +85°C
EPCS1	8/SOIC	Flash	1Mbit	-40°C to +85°C
EPC2	20/PLCC	Flash	1.6Mbit	0°C to +70°C
EPC2	32/TQFP	Flash	1.6Mbit	0°C to +70°C
EPCS4	8/SOIC	Flash	4Mbit	-40°C to +85°C

Mftrs. List No.	Order Code	Price Each
EPC1LC20N	SMD 154-9342	11.14
EPC1PC8N	163-7248	4.61
EPCS1SI8N	SMD 145-3504	3.12
EPC2LC20N	SMD 154-9336	18.27
EPC2TC32N	SMD 154-9337	21.22
EPCS4SI8N	SMD 145-3496	11.58

RL Re-reeling available

Programmable Logic Devices - continued

Serial Configurable CPLD Memory - continued

Device	Pins/ Package	Memory Type	Memory Size	Operating Temp.
EPC8	100/PQFP	Flash	8Mbit	0°C to +70°C
EPCS16	8/SOIC	Flash	16Mbit	-40°C to +85°C
EPCS16	16/SOIC	Flash	16Mbit	-40°C to +85°C
EPC16	88/UBGA	Flash	16Mbit	0°C to +70°C
EPC16	100/PQFP	Flash	16Mbit	-40°C to +85°C
EPC1441	20/PLCC	OTP	430Kbit	0°C to +70°C
EPC1441	32/TQFP	OTP	430Kbit	0°C to +70°C
EPC1441	8/DIP	OTP	400Kbit	0°C to +85°C

Mftrs. List No.	Order Code	Price Each
EPC8QC100N	SMD 154-9335	35.65
EPCS16SI8N	SMD 145-3463	15.12
EPCS16SI16N	SMD 145-3493	14.49
EPC16UC88N	SMD 154-9338	49.80
EPC16QI100N	SMD 163-7247	47.34
EPC1441LC20N	SMD 154-9341	3.12
EPC1441TC32N	SMD 154-9343	3.52
EPC1441PC8N	163-7246	2.26

FPT-1 CPLD/FPGA Experimental Kit Logic Circuit Design

LEAP ELECTRONIC CO.,LTD.



A circuit board which can be used for different purposes with the minimum amount of effort and expense. Instead of the constant design and manufacturing of small circuits using a number of logical devices on a bread board, this kit is programmable so the operation can be changed using only sofware alterations. The board is interfaced with the PC via the printer port and is ideal for experimenting with different ciruit designs.

Features:

- Uses CPLD/FPGA software and hardware in logical IC design, in order to replace complicated TTL/CMOS design
- Saves time and money by reuse of same circuit, ammended and operated using software with no physical changes needed
- Uses graphics and VHDL, ABEL, ADHL to develop circuits
- Programs finished file to EPROM (FLASH) to be operated independantly
- Interface to PC via printer port for downloading
- Operated with DOS and Windows 9X/ME/2000/NT
- A choice of two chip board modules can be used

Hardware Specifications:

- Support Devices -
  (1) ALTERA EPF10K10TC144 (TQFP144pin)
  (2) XILINX XCS10TQ144 (TQFP144pin)
- 8 x 2 LED output
- 8 x 2 Logical input toggle
- Four pulse keystrokes produced (two positive pules, two negative pulses)
- Six digit and seven node display
- 10MHz Oscillator
- 25-pin D type connector (Printer port download FPGA)
- Supports ALTERA MAX +Plus II Baseline and XILINX Foundations development system

372150

Mftrs. List No.	Order Code	Price Each
FPT-1+FPT-EPF10K10TC144	767-0230	78.84

CoolRunner-II CPLD Starter Kit

XILINX

New



The CoolRunner-II Starter Kit contains everything designers need to evaluate CoolRunner-II CPLDs. The Kit's evaluation board has a high-speed USB interface for power and programming, several features for easy prototyping, expansion slots, and an optional SPI ROM pad for memory interfacing. The kit also includes a 16x2 LCD display, USB cable, and reference designs for easy evaluation.

Features:

- Complete "Out-of-the-Box" evaluation platform
- CoolRunner-II Utility Window
- Easy set-up and monitoring
- DataGATE evaluation "switch"
- Free reference designs

525535

Mftrs. List No.	Description	Order Code	Price Each
SK-CRII-L-G	CoolRunner-II Starter Kit	167-0944	33.11

CoolRunner™-II CPLDs

XILINX

SMD New

CoolRunner-II CPLDs deliver the high speed and ease of use associated with the XC9500/XL/XV CPLD family with the extremely low power versatility of the XPLA3 family in a single CPLD. This means that the exact same parts can be used for high-speed data communications/computing systems and leading edge portable products, with the added benefit of In System Programming. Low power consumption and high-speed operation are combined into a single family that is easy to use and cost effective. Clocking techniques and other power saving features extend the users' power budget.

526350

Pins/Pkg	Macrocells	I/O Pins	T_{PD}	$F_{SYSTEM1}$	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
44/VQFP	64	33	4.6ns	263MHz	XC2C64A-7VQG44C	SMD 160-5831	3.03	2.33	1.92
100/VQFP	128	80	5.7ns	244MHz	XC2C128-7VQG100C	SMD 160-5829	6.61	5.09	4.75
100/VQFP	256	80	5.7ns	263MHz	XC2C256-7VQG100C	SMD 160-5830	19.05	14.65	13.01
144/TQFP	384	118	7.1ns	217MHz	XC2C384-10TQG144C	SMD 167-1085	18.39	– –	– –
324/FBGA	384	240	7.1ns	217MHz	XC2C384-10FGG324C	SMD 167-1086	29.46	– –	– –
208/PQFP	512	173	7.1ns	179MHz	XC2C512-10PQG208C	SMD 167-1087	34.01	– –	– –

XC9500 ISP Programmable CPLDs

XILINX

The XC9500 CPLD family provides advanced in-system programming and test capabilities for high performance, general purpose logic integration. All devices are in-system programmable for a minimum of 10,000 program/erase cycles. Extensive IEEE 1149.1 (JTAG) boundary-scan support is also included on all family members.

- High-performance, Fmax to 125MHz (5V devices) and 200MHz (XL - 3.3V devices)
- In-system programmable via JTAG Interface
- Endurance of 10,000 program/erase cycles with 20 year data retention
- Program/erase over full commercial voltage and temperature range
- Enhanced pin-locking architecture
- Global and product term clocks, output enables, set and reset signals
- Extensive IEEE Std 1149.1 boundary-scan (JTAG) support
- Programmable power reduction mode in each macrocell
- Individual output enable per output pin with local inversion
- Slew rate control on individual outputs
- User programmable ground pin capability
- Extended pattern security features for design protection
- High-drive 24 mA outputs
- 3.3 V or 5 V I/O capability
- Excellent quality and reliability

Device	Macro Cells	Usable Gates	Function Blocks	Max. User I/O
9536	36	800	2	36
9572	72	1600	4	72
95144	144	3200	8	117
95288	288	6400	16	192

234925

	Mftr.	Pins	Pins	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
9536	XLX	44	PLCC	In-system Programmable Flash CPLD, 15ns, 100MHz	XC9536-15PCG44C	SMD 119-3226	3.56	2.81	2.51
9536	XLX	44	VQFP	In-system Programmable Flash CPLD, 15ns, 100MHz	XC9536-15VQG44C	SMD 119-3227	3.56	2.81	2.51
9536	XLX	44	PLCC	In-system Programmable Flash CPLD, 10ns, 100MHz, 3.3V (IND TEMP)	XC9536XL-10PCG44C	SMD 119-3228	1.25	0.92	0.82
9536	XLX	64	VQFP	In-system Programmable Flash CPLD, 10ns, 100MHz, 3.3V (IND TEMP)	XC9536XL-10VQG64C	SMD 119-3229	1.45	1.13	1.10
9572	XLX	44	PLCC	In-system Programmable CPLD, 15ns, 125MHz	XC9572-15PCG44C	SMD 119-3230	4.43	3.38	3.04
9572	XLX	84	PLCC	In-system Programmable CPLD, 15ns, 125MHz	XC9572-15PCG84C	SMD 119-3231	6.55	4.71	3.88

RL Re-reeling available

	Mftr.	Pins	Pins	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
9572	XLX	44	PLCC	In-system Programmable CPLD, 10ns, 125MHz 3.3V	XC9572XL-10PCG44C	SMD 119-3232	1.82	1.61	1.57
9572	XLX	100	TQFP	In-system Programmable CPLD, 10ns, 125MHz 3.3V	XC9572XL-10TQG100C	SMD 119-3233	2.30	2.20	2.14
9572	XLX	44	VQFP	In-system Programmable CPLD, 10ns, 3.3V	XC9572XL-10VQG44C	NEW SMD 160-5849	3.03	2.33	1.92
95144	XLX	144	TQFP	In-system Programmable CPLD, 10ns, 3.3V	XC95144XL-10TQG144C	NEW SMD 160-5846	8.61	6.63	5.46
95288	XLX	256	BGA	In-system Programmable CPLD, 10ns, 3.3V	XC95288XL-10BGG256C	NEW SMD 160-5848	15.35	11.81	10.49

Platform Cable USB II



The Platform Cable USB II combines in-circuit configuration and programming of all Xilinx devices with its own integrated firmware which is held in a small form factor pod attached to the cable.
It is certified by the USB Implementors Forum (USB-IF), has industry-leading performance and is compatible with Full Speed (USB 1.1) and Hi-Speed (USB 2.0) ports. This product is an upgrade to and backwards compatible with Platform Cable USB and will address the new generation of PCs that have eliminated legacy IEEE 1284 parallel ports.

Features:
- Encapsulated innovative FPGA-based acceleration firmware
- True plug-and-play
- Bus-powered USB device (no power supply required)
- Automatically senses and adapts to target I/O voltage
- Firmware downloadable over cable
- Target power status LED
- CE and FCC compliant
- Compatible with target voltages in the range of +1.5 VDC to +5 VDC
- iMPACT and ChipScope™ tool support in ISE® software v6.3.03i (Windows only)
- Compatible with Windows and Linux operating systems
- Supports Boundary Scan and Slave-Serial configuration modes
- Backwards compatibility

515236

Mftrs. List No.	Description	Order Code	Price Each
HW-USB-IIG	Platform USB Cable II	164-9384	230.09

XC1700 / XCF04S & XCF32P Configuration PROMs

an easy-to use, cost-effective, and reprogrammable method for storing large Xilinx FPGA configuration bitstreams.

XCF32P Features:
- 1.8V Supply Voltage
- Serial or Parallel FPGA Configuration Interface (up to 33 MHz)
- Design Revision Technology Enables Storing and Accessing Multiple Design Revisions for Configuration
- Built-In Data Decompressor Compatible with Xilinx Advanced Compression Technology

XCF04S Features:
- 3.3V Supply Voltage
- Serial FPGA Configuration Interface (up to 33 MHz)

The **XC1700** family of serial configuration PROMs (SCPs) provides an easy-to-use, cost-effective method for storing Xilinx FPGA configuration bit-streams. The **XCF04S** & **XCF32P** PROMs provide

XC1700 Features:
- On-chip address counter incremented by each rising edge on the clock input
- Simple interface to the FPGA requires only one user I/O pin
- Cascadable for storing longer or multiple bit-streams
- Programmable reset polarity (active High or active Low) for compatibility with different FPGA solutions
- Low-power CMOS EPROM process
- Available in 5V and 3.3V (XL) versions
- Available in 8-pin DIL plastic packages, and commercial and industrial temperature ranges
- Programming support by leading programmer manufacturers
- XC1736 = 36288 configuration bits
- XC1765 = 65536 configuration bits
- XC17S30XL = 249168 configuration bits
- XC17S40XL = 330696 configuration bits

234916

	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
04	20	TSSOP	Platform Flash PROM, 4M-bit, 3.3V	XCF04SV0G20C	NEW SMD 160-5850	9.16	7.04	5.79
32	48	FBGA	Platform Flash PROM, 32M-bit, 1.8V	XCF32PFSG48C	NEW SMD 160-5851	34.55	26.59	21.87
32	48	TSOP	Platform Flash PROM, 32M-bit, 1.8V	XCF32PV0G48C	NEW SMD 160-5852	34.55	26.59	21.87
17	8	DIP	Configuration PROM for Xilinx 'SPARTAN' FPGAs, 249,168 Bits	XC17S30XLPDG8C	119-3222	7.30	5.47	3.97
17	8	DIP	FPGA serial configuration PROM, 330,696 Bits, 3.3V	XC17S40XLPDG8C	119-3239	8.17	6.95	5.18
1736	8	DIP	Configuation PROM for Xilinx FPGAs, 36,288 Bits	XC1736EPDG8C	119-3220	4.36	3.26	2.37
1765	8	DIP	Configuation PROM for Xilinx FPGAs, 65,536 Bits	XC1765EPDG8C	119-3221	6.90	5.16	3.75

Embedded Development HW/SW Kit

Virtex-5 FX70T PowerPC & MicroBlaze Processor Edition



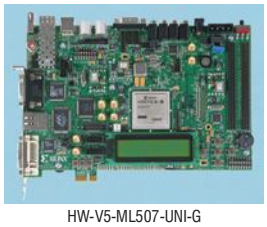
The Virtex®-5 FX70T development kit enables high performance embedded design in Xilinx FPGAs.
This integrated kit supplies an ML507 development board, Platform Studio embedded tool suite and ISE® design software, supporting both the PowerPC® 440 hard and MicroBlaze™ soft processors.

Features Include:
- Xilinx Device: XC5VFX70TFFG1136
- Flexible Virtex-5 FXT ML507 Development Board
- Award Winning Platform Studio embedded tool suite
- Complete ISE Foundation™ FPGA design software
- Powerful reference designs accelerate your development
- Communications cables and comprehensive documentation

526325

Mftrs. List No.	Description	Order Code	Price Each
DK-V5-EMBD-ML507-G	Embedded Development HW/SW Kit	167-3072	2,174.46

Virtex-5 Development/Evaluation Systems



HW-V5-ML507-UNI-G

The **ML507** is a general purpose FPGA, RocketIO™ GTX , and Embedded System development board that provides feature-rich general purpose evaluation and development platform.
It includes on-board memory and industry standard connectivity interfaces and delivers a versatile development platform for embedded applications.
ML501 is a feature-rich and low-cost evaluation/development platform which provides easy and practical access to resources available in the on-board Virtex®-5 LX50 FPGA device. Supported by industry standard interfaces and connectors, ML501 is a versatile development platform for multiple applications.
The **ML555** for PCI-Express® supports PCIe®/PCI-X™/PCI™. This complete development kit passed PCI-SIG compliance for PCI Express v1.1 and enables you to rapidly create and evaluate designs using PCI Express, PCI-X and PCI interfaces.

526270

Mftrs. List No.	Description	Order Code	Price Each
HW-V5-ML507-UNI-G	ML507 Evaluation Platform	167-1116	1,014.55
HW-V5-ML501-UNI-G	VIRTEX-5 Development Kit	160-5853	839.00
HW-V5-ML555-G	VIRTEX-5 Development Kit for PCI I/F	160-5828	1,751.98

Virtex®-5 Multi-Platform FPGAs

Virtex®-5 FPGAs are the world's first 65nm FPGA family fabricated in 1.0v, triple-oxide process technology, providing up to 330,000 logic cells, 1,200 I/O pins, 48 low power transceivers, and built-in PowerPC® 440, PCIe® endpoint and Ethernet MAC blocks, depending upon the device selected.
- **Virtex®-5 LX** - Optimised for High Performance Logic (1.0V)
- **Virtex®-5 LXT** - Optimised for High Performance Logic, with Low Power Serial Connectivity (1.0V)
- **Virtex®-5 FXT** - Optimised for Embedded Processing, with High Speed Serial Connectivity (1.0V)
- **Virtex®-5 SXT** - Optimised for DSP, with Low Power Serial Connectivity (1.0V)

Programmable Logic Devices - continued

Virtex®-5 Multi-Platform FPGAs - continued

526360

Pins/Pkg	Slices	Logic Cells	CLB Flip-Flops	I/O Pins	Configuration Memory (Mbits)	Mftrs. List No.	Order Code	Price Each 1+	+	+
Virtex-5 LX										
676/FBGA	4800	30720	19200	400	8.4	XC5VLX30-1FFG676C	SMD 167-1104●	107.83	– –	– –
676/FBGA	7200	46080	28800	440	12.6	XC5VLX50-1FFG676C	SMD 167-1105●	185.08	– –	– –
676/FBGA	12960	82944	51840	440	21.9	XC5VLX85-1FFG676C	SMD 167-1106●	373.56	– –	– –
676/FBGA	17280	110592	69120	440	29.1	XC5VLX110-1FFG676C	SMD 167-1107●	550.15	– –	– –
Virtex-5 LXT										
323/BGA	3120	19968	12480	172	6.3	XC5VLX20T-1FFG323C	SMD 160-5844●	96.80	– –	– –
665/BGA	4800	30720	19200	360	9.4	XC5VLX30T-1FFG665C	SMD 160-5845●	142.91	– –	– –
1136/FBGA	7200	46080	28800	480	14.1	XC5VLX50T-1FFG1136C	SMD 167-1109●	356.58	– –	– –
1136/FBGA	12960	82944	51840	480	23.4	XC5VLX85T-1FFG1136C	SMD 167-1111●	394.79	– –	– –
1136/FBGA	17280	110592	69120	640	31.2	XC5VLX110T-1FFG1136C	SMD 167-1112●	729.28	– –	– –
1136/FBGA	24320	34560	97280	640	43.1	XC5VLX155T-1FFG1136C	SMD 167-1113●	1,067.18	– –	– –
Virtex-5 FXT										
665/FBGA	5120	32768	20480	360	13.6	XC5VFX30T-1FFG665C	SMD 167-1102●	184.23	– –	– –
665/FBGA	11200	71680	44800	360	27.1	XC5VFX70T-1FFG665C	SMD 167-1103●	413.46	– –	– –
Virtex-5 SXT										
665/FBGA	5440	34816	21760	360	13.4	XC5VSX35T-1FFG665C	SMD 167-1114●	187.63	– –	– –
665/FBGA	8160	52224	32640	360	20.0	XC5VSX50T-1FFG665C	SMD 167-1115●	356.58	– –	– –

Virtex®-4 Multi-Platform FPGAs

XILINX®

SMD New

Tthe Virtex-4 Family from Xilinx greatly enhances programmable logic design capabilities, making it a powerful alternative to ASIC technology.
The basic Virtex-4 building blocks are enhancements of those found in the popular Virtex, Virtex-E, Virtex-II, Virtex-II Pro, and Virtex-II Pro X product families,so previous-generation designs are upward compatible.

● **Virtex®-4 FX** - Optimised for Embedded Processing & Serial Connectivity (1.2 Volt)

526365

Pins/Pkg	Slices	Logic Cells	CLB Flip-Flops	I/O Pins	Configuration Memory (Mbits)	Mftrs. List No.	Order Code	Price Each 1+	+	+
Virtex-4 FX										
668/BGA	5472	12312	10944	320	4.8	XC4VFX12-10FFG668C	SMD 160-5842●	119.85	– –	– –
672/BGA	8544	19244	17088	320	7.2	XC4VFX20-10FFG672C	SMD 160-5843●	119.45	– –	– –

XtremeDSP Starter Platform
Spartan-3A DSP 1800A Edition

XILINX®



New

Evaluate DSP applications using the versatile XtremeDSP™ Starter Platform powered by the Spartan®-3A DSP 1800A FPGA.
This evaluation platform delivers instant access to Spartan-3A DSP family capabilities and supports industry-standard peripherals, connectors, and interfaces. It is designed for use with the Xilinx System Generator for DSP and ISE® design tools.

527749

Mftrs. List No.	Description	Order Code	Price Each
HW-SD1800A-DSP-SB-UNI-G	XtremeDSP Starter Platform	160-5854●	271.96

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Spartan® Starter Kits

XILINX®

New



HW-SPAR3AN-SK-UNI-G



HW-SPAR3A-SK-UNI-G



HW-SPAR3E-SK-UK-G

The Spartan®-3AN Starter Kit provides out-of-the-box functionality to quickly evaluate device features and implement designs. This kit includes an evaluation board with 10/100 Ethernet PHY, 64 Mbytes of DDR2 SDRAM, 4 Mbit Platform Flash, two 16Mbit SPI serial Flash, ADC and DAC circuitry, a 2x16 LCD display, connectors supporting high-speed I/O standards, and more.
The Spartan®-3A Starter Kit delivers instant access to Spartan-3A FPGA device features such as SUSPEND power-saving mode, high-speed I/O options, DDR2 SDRAM memory interface, commodity flash configuration support, and FPGA/IP protection using Device DNA Security.
The Spartan®-3E FPGA Starter Kit is a complete development board solution giving designers instant access to the capabilities of the Spartan-3E family. Complete kit includes board, power supply, evaluation software, resource CD (application notes, white papers, data sheets, etc.), and USB cable.

515235

Mftrs. List No.	Description	Order Code	Price Each
HW-SPAR3AN-SK-UNI-G	Spartan-3AN Starter Kit	160-5824●	207.44
HW-SPAR3A-SK-UNI-G	Spartan-3A Starter Kit	160-5825●	207.44
HW-SPAR3E-SK-UK-G	Spartan-3E Starter Kit	160-5826●	137.36

RL Re-reeling available

Farnell

Spartan-3 Generation FPGAs

The Spartan-3 generation of FPGAs includes the popular, high-volume Spartan-3, Spartan- 3E, Spartan-3A, Spartan-3AN, and Spartan-3A DSP platforms. These families of Field Programmable Gate Arrays (FPGAs) are specifically designed to meet the needs of high volume, cost-sensitive electronic applications, such as consumer products. The Spartan-3 generation offer densities ranging from 50,000 to 5 million system gates.

525933

Pins/Pkg	System Gates	Equivalent Logic Cells	I/O Pins	Dedicated Multipliers	DCMs	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
Spartan 3										
144/TQFP	50K	1, 728	97	4	2	XC3S50-5TQG144C	SMD 160-5839●	15.60	12.00	9.89
144/TQFP	400K	8,064	97	16	4	XC3S400-5TQG144C	SMD 160-5836●	27.84	21.42	17.62
676/FBGA	4M	62,208	489	96	4	XC3S4000-4FGG676C	SMD 160-5834●	70.45	65.73	62.42
Spartan 3A										
100/VQFP	50K	1,584	68	3	2	XC3S50A-4VQG100C	SMD 167-1088●	5.05	– –	– –
144/TQFP	50K	1,584	108	3	2	XC3S50A-4TQG144C	SMD 167-1089●	6.81	– –	– –
256/TBGA	50K	1,584	144	3	2	XC3S50A-4FTG256C	SMD 167-1090●	8.01	– –	– –
320/FBGA	200K	4,032	248	16	4	XC3S200A-4FGG320C	SMD 167-1092●	13.67	– –	– –
320/FBGA	400K	8,064	251	20	4	XC3S400A-4FGG320C	SMD 167-1093●	19.32	– –	– –
400/FBGA	700K	13,248	311	20	8	XC3S700A-4FGG400C	SMD 167-1094●	26.33	– –	– –
484/FBGA	700K	13,248	372	20	8	XC3S700A-4FGG484C	SMD 167-1095●	29.26	– –	– –
256/FTBGA	1400K	25,344	161	32	8	XC3S1400A-4FTG256C	SMD 167-1096●	25.39	– –	– –
484/FBGA	1400K	25,344	375	32	8	XC3S1400A-4FGG484C	SMD 167-1097●	38.08	– –	– –
676/FBGA	1400K	25,344	502	32	8	XC3S1400A-4FGG676C	SMD 167-1098●	43.90	– –	– –
Spartan 3A DSP										
484/BGA	1800K	37,440	309	–	1	XC3SD1800A-4CSG484C	SMD 160-5855●	72.32	67.51	64.08
Spartan 3AN										
144/TQFP	50K	1,584	108	3	2	XC3S50AN-4TQG144C	SMD 160-5840●	10.67	8.20	6.75
400/FBGA	400K	8,064	311	20	4	XC3S400AN-4FGG400C	SMD 160-5837●	25.56	25.09	24.45
484/FBGA	700K	13,248	372	20	8	XC3S700AN-4FGG484C	SMD 160-5841●	31.55	30.97	30.18
256/TBGA	200K	4,032	195	16	4	XC3S200AN-4FTG256C	SMD 167-1100●	13.72	– –	– –
676/FBGA	1400K	25,344	502	32	8	XC3S1400AN-4FGG676C	SMD 167-1101●	48.31	– –	– –
Spartan 3E										
144/TQFP	100K	2,160	108	4	2	XC3S100E-4TQG144C	SMD 160-5856●	11.80	9.83	7.48
256/FTBGA	250K	5,508	190	12	4	XC3S250E-4FTG256C	SMD 160-5833●	21.42	16.49	13.56
320/FBGA	500K	10,476	232	20	4	XC3S500E-4FGG320C	SMD 160-5838●	23.83	22.25	21.13
400/FBGA	1200K	19,512	304	28	8	XC3S1200E-4FGG400C	SMD 160-5832●	29.18	27.24	25.85

Spartan-XL FPGAs

The Spartan-XL families are a high-volume production FPGA solution that delivers all the key requirements for ASIC replacement up to 40,000 gates. These requirements include high performance, on-chip RAM, core solutions and prices that, in high volume, approach and in many cases are equivalent to mask programmed ASIC devices. The Spartan series is the result of years of FPGA design experience and feedback from thousands of customers. By streamlining the Spartan series feature set, leveraging advanced process technologies and focusing on total cost management, the Spartan series delivers the key features required by ASIC and other high-volume logic users while avoiding the initial cost, long development cycles and inherent risk of conventional ASICs.

- First ASIC replacement FPGA for high-volume production with on-chip RAM
- Streamlined feature set based on XC4000 architecture
- System performance beyond 80 MHz
- Unlimited reprogrammability
- Low cost
- On-chip SelectRAM™ memory
- Fully PCI compliant
- Full readback capability for program verification and internal node observability
- Dedicated high-speed carry logic
- Internal 3-state bus capability
- Eight global low-skew clock or signal networks
- IEEE 1149.1-compatible Boundary Scan logic
- 3.3V supply for low power with 5V tolerant I/Os (XL only)
- 12 mA or 24 mA output drive (XL only)

Device	Logic Cells	Max. System Gates	Typical Gate Range Logic and RAM	Configurable Logic Block Matrix	No. of Flip-Flops	Total Distributed RAM Bits	Max. User I/O
05/05XL	238	5000	2000 - 5000	10 x 10	360	3200	77

234926

	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
05	100	VTQFP	SPARTAN(tm) FPGA, 5000 Gates, 77 I/O lines, 4ns propagation delay, 3.3V.	XCS05XL-4VQG100C	SMD 119-3234●	9.49	7.98	6.32

ECP2/M FPGA Family



The LatticeECP2/M family of FPGA devices is optimized to deliver high performance features such as advanced DSP blocks, high speed SERDES (ECP2M family only) and high speed source synchronous interfaces in an economical FPGA fabric.
These devices include LUT-based logic, distributed and embedded memory, Phase Locked Loops (PLLs), Delay Locked Loops (DLLs), pre-engineered source synchronous I/O support, enhanced sysDSP blocks and advanced configuration support, including dual boot capabilities. Every device in the family has a JTAG port. This family also provides an on-chip oscillator and soft error detect capability.

The LatticeECP2M device family features high speed SERDES with PCS. These high jitter tolerance and low transmissionjitter SERDES with PCS blocks can be configured to support an array of popular data protocols includingPCI Express, Ethernet (1GbE and SGMII), OBSAI and CPRI. Transmit Pre-emphasis and Receive Equalization settings make SERDES suitable for chip to chip and small form factor backplane applications.

Features:
- High Logic Density for System Integration
- 6K to 95K LUTs
- 90 to 583 I/Os
- Embedded SERDES (LatticeECP2M Only)
- Data Rates 250 Mbps to 3.125 Gbps
- Up to 16 channels per device
- PCI Express, Ethernet (1GbE, SGMII), OBSAI, CPRI and Serial RapidIO
- sysDSP™ Block
- 3 to 42 blocks for high performance multiply and accumulate
- Each block supports: One 36x36, four 18X18 or eight 9X9 multipliers
- Flexible Memory Resources

55Kbits to 5308Kbits sysMEM™ Embedded Block RAM (EBR)
- 18Kbit block
- Single, pseudo dual and true dual port
- Byte Enable Mode support

12K to 202Kbits distributed RAM
- Single port and pseudo dual port
- sysCLOCK Analog PLLs and DLLs

Two GPLLs and up to six SPLLs per device
- Clock multiply, divide, phase & delay adjust
- Dynamic PLL adjustment

Two general purpose DLLs per device
- Pre-Engineered Source Synchronous I/O
- DDR registers in I/O cells
- Dedicated gearing logic

Source synchronous standards support
- SPI4.2, SFI4 (DDR Mode), XGMII
- High Speed ADC/DAC devices

Dedicated DDR and DDR2 memory support
-DDR1: 400 (200MHz) / DDR2: 533 (266MHz)

Dedicated DQS support
- Programmable sysI/O™ Buffer Supports Wide Range Of Interfaces
- Flexible Device Configuration
- 1149.1 Boundary Scan compliant
- Dedicated bank for configuration I/Os
- SPI boot flash interface
- Dual boot images supported
- TransFR™ I/O for simple field updates
- Soft Error Detect macro embedded
- System Level Support
- ispTRACY™ internal logic analyzer capability
- On-chip oscillator for initialization & general use
- 1.2V power supply

RL Re-reeling available

Programmable Logic Devices - continued

ECP2/M FPGA Family - continued

507570

Pkg / Pins	LUTs (K)	Supply Voltage	I/Os	Speed Grade	Temperature	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
FPBGA / 256	12	1.2	193	-5	0 - 85°C	LFE2-12E-5FN256C	SMD 157-1964●	27.41	22.85	18.28
TQFP / 144	12	1.2	93	-5	0 - 85°C	LFE2-12E-5TN144C	SMD 157-1966●	22.06	16.54	13.24
FPBGA / 256	12	1.2	193	-6	0 - 85°C	LFE2-12E-6FN256C	SMD 157-1967●	31.53	26.28	21.02
PQFP / 208	12	1.2	131	-6	0 - 85°C	LFE2-12E-6QN208C	SMD 157-1968●	30.26	25.22	20.18
TQFP / 144	12	1.2	93	-6	0 - 85°C	LFE2-12E-6TN144C	SMD 157-1969●	23.89	19.91	15.93
FPBGA / 484	20	1.2	331	-5	0 - 85°C	LFE2-20E-5FN484C	SMD 157-1970●	40.74	33.95	27.16
PQFP / 208	20	1.2	131	-5	0 - 85°C	LFE2-20E-5QN208C	SMD 157-1971●	33.10	27.58	22.07
FPBGA / 672	20	1.2	402	-6	0 - 85°C	LFE2-20E-6FN672C	SMD 157-1972●	48.41	42.90	– –
PQFP / 208	20	1.2	131	-6	0 - 85°C	LFE2-20E-6QN208C	SMD 157-1973●	28.41	25.18	– –
FPBGA / 484	35	1.2	331	-5	0 - 85°C	LFE2-35E-5FN484C	SMD 157-1974●	44.56	42.21	– –
FPBGA / 484	50	1.2	339	-5	0 - 85°C	LFE2-50E-5FN484C	SMD 157-1975●	68.20	64.60	– –
TQFP / 144	6	1.2	90	-5	0 - 85°C	LFE2-6E-5TN144C	SMD 157-1976●	11.07	8.30	6.64
TQFP / 144	6	1.2	90	-6	0 - 85°C	LFE2-6E-6TN144C	SMD 157-1978●	13.06	9.81	7.85
FPBGA / 900	70	1.2	583	-5	0 - 85°C	LFE2-70E-5FN900C	SMD 157-1979●	101.85	96.69	– –
FPBGA / 900	100	1.2	416	-5	0 - 85°C	LFE2M100E-5FN900C	SMD 157-1980●	458.14	446.39	– –
FPBGA / 1152	100	1.2	520	-6	0 - 85°C	LFE2M100E-6FN1152C	SMD 157-1981●	371.05	352.26	– –
FPBGA / 256	20	1.2	140	-5	0 - 85°C	LFE2M20E-5FN256C	SMD 157-1982●	32.31	31.29	– –
FPBGA / 256	20	1.2	140	-6	0 - 85°C	LFE2M20E-6FN256C	SMD 157-1983●	48.34	42.84	– –
FPBGA / 256	35	1.2	140	-5	0 - 85°C	LFE2M35E-5FN256C	SMD 157-1984●	50.23	44.51	– –
FPBGA / 672	35	1.2	410	-5	0 - 85°C	LFE2M35E-5FN672C	SMD 157-1985●	61.14	54.18	– –
FPBGA / 484	35	1.2	303	-6	0 - 85°C	LFE2M35E-6FN484C	SMD 157-1986●	66.87	59.25	– –
FPBGA / 900	50	1.2	410	-5	0 - 85°C	LFE2M50E-5FN900C	SMD 157-1987●	107.30	95.08	– –
FPBGA / 484	50	1.2	270	-6	0 - 85°C	LFE2M50E-6FN484C	SMD 157-1988●	100.89	97.72	– –
FPBGA / 900	70	1.2	416	-5	0 - 85°C	LFE2M70E-5FN900C	SMD 157-1991●	145.49	128.92	– –
FPBGA / 900	70	1.2	416	-6	0 - 85°C	LFE2M70E-6FN900C	SMD 157-1992●	214.27	189.87	– –

LatticeEC Advanced Evaluation Board



The LatticeEC Advanced Evaluation Board provides a platform to evaluate, test, and debug designs with the support of LatticeEC advanced interface capabilities. The board provides easy access to PCI, DDR SDRAM, FCDRAM and SPI4.2 interfaces. It features a LatticeEC FPGA with a 1.2V DC core and can accommodate all pin compatible LatticeEC devices in the 672-ball fpBGA (1mm pitch) package.

Features:

- Required voltages supplied by PCI or one external 5V DC supply
- ispVM® System programming support
- SPI3 Flash device included for non-volatile configuration storage
- ispDOWNLOAD® cable included
- 5V AC adapter included
- PCI edge connector (120-pin) for 32-bit PCI interface
- SODIMM socket supporting 16-bit, 200MHz 200-pin DDR SDRAM
- Onboard FCRAM
- SPI4.2 interface via VHDM connectors
- Prototyping area with access to over 150 I/O pins
- SMA connectors included (10) for high-speed clock and data interfacing

451803

Mftrs. List No.	Order Code	Price Each
LFEC6E-L-EV	129-1871●	148.25

LFEC Series FPGAs

- 18 Kbits to 498 Kbits sysMEM™ Embedded
- Up to 131 Kbits distributed RAM
- Distributed and block memory
- Implements interface up to DDR400 (200MHz)
- Up to four analog PLLs per device
- Clock multiply, divide and phase shifting
- 1.2V power supply
- Features optimized for mainstream applications
- Low cost TQFP and PQFP packaging
- Commercial Temperature range of 0°C to 85°C

451367

	Pins/Pkg	I/O Lines	Mftrs. List No.	Order Code	Price Each
1	208/PQFP	112	LFEC1E-5QN208C	SMD 129-1843●	11.31
1	100/TQFP	67	LFEC1E-5TN100C	SMD 129-1840●	9.96
1	144/TQFP	97	LFEC1E-5TN144C	SMD 129-1842●	11.62
3	208/PQFP	145	LFEC3E-5QN208C	SMD 129-1846●	15.14
3	100/TQFP	67	LFEC3E-5TN100C	SMD 129-1844●	12.09
3	144/TQFP	97	LFEC3E-5TN144C	SMD 129-1845●	13.59
6	208/PQFP	147	LFEC6E-5QN208C	SMD 129-1848●	27.19
6	144/TQFP	97	LFEC6E-5TN144C	SMD 129-1847●	21.32
6	208/PQFP	147	LFECP6E-5QN208C	SMD 129-1850●	28.91
6	144/TQFP	97	LFECP6E-5TN144C	SMD 129-1849●	22.76

LFXP Series FPGAs

- Non-volatile, Infinitely Reconfigurable
- Sleep Mode
- TransFR™ Reconfiguration (TFR)
- Extensive Density and Package Options
- Embedded and Distributed Memory
- Flexible I/O Buffer
- Dedicated DDR Memory Support
- Low cost TQFP and PQFP packaging
- Commercial Temperature range of 0°C to 85°C

451437

	Pins/Pkg	I/O Lines	Operating Temperature	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
2	208/PQFP	146	0°C to +85°C	LFXP2-17E-5QN208C8W	NEW SMD 157-1921●	29.74	24.78	19.83
2	256/FTBGA	201	0°C to +85°C	LFXP2-17E-5FTN256C8W	NEW SMD 157-1993●	34.50	28.74	23.00
2	484/FPBGA	358	0°C to +85°C	LFXP2-17E-5FN484C8W	NEW SMD 157-1994●	38.24	31.86	25.50
2	484/FPBGA	363	0°C to +85°C	LFXP2-30E-5FN484C	NEW SMD 157-1996●	65.38	54.48	43.58
2	484/FPBGA	363	0°C to +85°C	LFXP2-40E-5FN484C	NEW SMD 157-1997●	85.00	70.84	56.67
2	672/FPBGA	540	0°C to +85°C	LFXP2-40E-5FN672C	NEW SMD 157-1998●	88.75	73.96	59.17
2	144/TQFP	100	0°C to +85°C	LFXP2-5E-5TN144C	NEW SMD 157-1999●	12.51	10.43	8.34
2	208/PQFP	146	0°C to +85°C	LFXP2-5E-5QN208C	NEW SMD 157-2000●	14.85	12.38	9.90
2	256/FTBGA	172	0°C to +85°C	LFXP2-5E-5FTN256C	NEW SMD 157-2001●	15.30	12.75	10.20
2	144/TQFP	100	0°C to +85°C	LFXP2-8E-5TN144C	NEW SMD 157-2002●	16.03	13.36	10.69
2	208/PQFP	146	0°C to +85°C	LFXP2-8E-5QN208C	NEW SMD 157-2004●	18.40	15.32	12.26
2	256/FTBGA	201	0°C to +85°C	LFXP2-8E-5FTN256C	NEW SMD 157-2005●	18.83	15.69	12.56
3	208/PQFP	136	0°C to +85°C	LFXP3C-5QN208C	SMD 129-1859●	21.18	17.65	15.13
3	100/TQFP	62	0°C to +85°C	LFXP3C-5TN100C	SMD 129-1857●	15.60	– –	– –
3	144/TQFP	100	0°C to +85°C	LFXP3C-5TN144C	SMD 129-1858●	19.35	16.13	13.82
3	208/PQFP	136	0°C to +85°C	LFXP3E-5QN208C	SMD 129-1854●	17.80	– –	– –
3	100/TQFP	62	0°C to +85°C	LFXP3E-5TN100C	SMD 129-1851●	15.31	– –	– –
3	144/TQFP	100	0°C to +85°C	LFXP3E-5TN144C	SMD 129-1852●	16.26	– –	– –
6	208PQFP	142	0°C to +85°C	LFXP6C-5QN208C	SMD 129-1861●	30.96	25.81	22.13
6	144TQFP	100	0°C to +85°C	LFXP6C-5TN144C	SMD 129-1860●	21.39	20.83	20.30
6	208PQFP	142	0°C to +85°C	LFXP6E-5QN208C	SMD 129-1856●	26.90	– –	– –
6	144TQFP	100	0°C to +85°C	LFXP6E-5TN144C	SMD 129-1855●	25.42	– –	– –

RL Re-reeling available

LatticeXP2 Standard Evaluation Board



The LatticeXP2 Standard Evaluation Board is a flexible platform designed to help the user quickly evaluate the features and performance of the LatticeXP2 FPGA, or aid in development of custom designs. Common uses for this evaluation board include: A Single Board Computer system. An analog-to-digital, and digital-to-analog mixed signal source/sink. A platform for evaluating the I/O characteristics of the FPGA.

Features:
- LatticeXP2 FPGA (LFXP2-17E-4F484C)
- Single printed circuit board solution
- Eight LEDs for visual feedback
- Seven-segment LED
- Eight-position switch input
- General purpose push buttons
- SRAM memory
- Compact Flash connector
- RS232 DB9 Female connector
- LCD connector with backlight/contrast controls
- IEEE 1149.1 JTAG programming/boundary-scan interface
- Built-in USB download for use with ispVM® software
- Power supply manager for testing supply sequencing
- Selectable voltage for bank 6 I/O
- Replaceable oscillator for reference clocks
- SMA connectors to LatticeXP2 clock input/general purpose I/O pins
- 100mil center-center test point grid

508179

Mftrs. List No.	Descirption	Order Code	Price Each 1+
LFXP2-17E-L-EV	LatticeXP2 Standard Evaluation Board	**157-1995**	716.84

MachXO™ Standard Evaluation Board



The MachXO Standard Evaluation board provides a convenient platform to evaluate electrical characteristics of the MachXO device, and to evaluate, test and de-bug custom logic designs. The board includes selectable power for mixed core I/O voltage operation. A 33MHz oscillator, as well as an ispClock™ PLL synthesis device are also included on the board.

Features:
- MachXO 256-fpBGA
- Single printed circuit board solution
- Eight LEDs for visual feedback
- 8-bit input switch
- General purpose push-button
- 1149.1 JTAG programming/boundary-scan interface
- Built-in power supply operating with an DC input between 5V and 20V
- Selectable CORE voltage for the MachXO
- Selectable voltages for a portion of the I/O banks
- Built-in adjustable oscillator for reference clocking source
- Lattice ispClock5610 multiple output PLL
- SMA connector landing pads (not populated) - MachXO clock input/GPIO pins
- RJ-45 connector (not populated)
- LCD/GPIO footprint
- 100mil center-center test point grid
- Impedance controlled Mictor (not populated)

508191

Mftrs. List No.	Descirption	Order Code	Price Each 1+
LCMXO2280C-L-EV	MachXO-2280C Standard Evaluation Board	**157-1946**	246.47

MachXO USB Starter Kit



The MachXO Starter Kit is a simple, yet versatile solution allowing for detailed analysis of the MachXO performance and technology. The board is also a convenient platform to help the user get started with their own MachXO design. Lattice's ispLEVER development tools included in the MachXO Starter Kit offer a comprehensive design environment for the MachXO architecture.

Features:
- MachXO device LCMXO640C-3TN144C
- Built in USB download capability with USB controller and MachXO256 device
- Power supply and JTAG via USB
- 24 Mhz oscillator
- Power LED and 8 status LEDs
- 4-DIP switch and push button reset

507247

Mftrs. List No.	Descirption	Order Code	Price Each 1+
HWD-XO-USB	MachXO USB Starter Kit	**157-1927**	72.40

MachXO 256 Starter Evaluation Board



The Lattice MachXO Starter Evaluation Board provides a convenient platform to evaluate, test and debug user designs. The board features a Lattice MachXO256 cross-over programmable logic device in a 100-pin TQFP package, power input jacks, a 33MHz clock oscillator and I/O connections. The Lattice MachXO I/Os are connected to a rich variety of interfaces, including switches (momentary and ON/OFF), LEDs, 0.10" headers and PCB test points.

Features:
- Lattice MachXO device
- Prototyping area
- Access to 81 user I/Os
- Independent voltage control for core and I/O
- 33MHz on-board oscillator
- Status LEDs and Input switches
- Pads for optional board expansion
- AC adapter
- Lattice ispDOWNLOAD® cable, to download programming files to the MachXO device

451794

Mftrs. List No.	Order Code	Price Each
LCMXO256C-S-EV	**129-1869**	100.39

MachXO Crossover PLDs

The MachXO family of crossover programmable logic devices (PLDs) combines CPLD and FPGA attributes together to optimally serve applications such as bus bridging, bus interface and control that traditionally were implemented in CPLDs or low capacity FPGAs. MachXO includes PLLs and embedded memory along with features expected in CPLDs. The devices use look-up tables (LUTs) and embedded block memories traditionally associated with FPGAs for flexible and efficient logic implementation. Through non-volatile technology, the devices provide the single-chip, highsecurity, instant-on capabilities traditionally associated with CPLDs. Finally, advanced process technology and careful design will provide the high pin-to-pin performance also associated with CPLDs.

Features:
- Non-volatile, Infinitely Reconfigurable
  - Instant-on - powers up in microseconds
  - Single chip, no external configuration memory required
  - Excellent design security, no bit stream to intercept
  - Reconfigure SRAM based logic in milliseconds
  - SRAM and non-volatile memory programmable through JTAG port
  - Supports background programming of non-volatile memory
- Sleep Mode
  - Allows up to 100x static current reduction
- TransFR™ Reconfiguration (TFR)
  - In-field logic update while system operates
- High I/O to Logic Density
  - 256 to 2280 LUT4s
  - 73 to 271 I/Os with extensive package options
  - Density migration supported
  - Lead free/RoHS compliant packaging
- Embedded and Distributed Memory
  - Up to 27.6 Kbits sysMEM™ Embedded Block RAM
  - Up to 7.5 Kbits distributed RAM
  - Dedicated FIFO control logic
- Flexible I/O Buffer
  - Programmable sysIO™ buffer supports wide range of interface
- sysCLOCK™ PLLs
  - Up to two analog PLLs per device
  - Clock multiply, divide, and phase shifting
- System Level Support
  - IEEE Standard 1149.1 Boundary Scan
  - Onboard oscillator
  - IEEE 1532 compliant in-system programming

451256

Pkg / Pins	LUTs	Supply Voltage	I/Os	Speed Grade	Temperature	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
TQFP / 100	256	1.2	78	-3	0 - 85°C	LCMXO256E-3TN100C	NEW SMD **157-1954**	6.87	5.15	4.13
TQFP / 100	256	1.2	78	-4	0 - 85°C	LCMXO256E-4TN100C	NEW SMD **157-1955**	6.41	4.81	3.85
TQFP / 100	256	1.8V/2.5V/3.3V	78	-3	0 - 85°C	LCMXO256C-3TN100C	NEW SMD **157-1951**	5.59	4.19	3.35
TQFP / 100	256	1.8V/2.5V/3.3V	78	-4	0 - 85°C	LCMXO256C-4TN100C	NEW SMD **157-1952**	6.41	4.81	3.85
TQFP	256	1.8V/2.5V/3.3V	78	-5	0 - 85°C	LCMXO256C-5TN100C	SMD **129-1824**	8.43	7.03	6.02
TQFP / 144	640	1.2	113	-3	0 - 85°C	LCMXO640E-3TN144C	NEW SMD **157-1961**	11.32	8.49	6.79
FTBGA / 256	640	1.2	159	-3	0 - 85°C	LCMXO640E-3FTN256C	NEW SMD **157-1960**	13.49	10.12	8.10
FTBGA / 256	640	1.2	159	-4	0 - 85°C	LCMXO640E-4FTN256C	NEW SMD **157-1962**	14.90	11.17	8.95
TQFP	640	1.2	74	-5	0 - 85°C	LCMXO640E-5TN100C	SMD **129-1834**	12.01	10.01	8.58
TQFP / 144	640	1.8V/2.5V/3.3V	113	-3	0 - 85°C	LCMXO640C-3TN144C	NEW SMD **157-1957**	11.32	8.49	7.05
FTBGA / 256	640	1.8V/2.5V/3.3V	159	-3	0 - 85°C	LCMXO640C-3FTN256C	NEW SMD **157-1956**	13.49	10.12	8.10
TQFP / 144	640	1.8V/2.5V/3.3V	113	-4	0 - 85°C	LCMXO640C-4TN144C	NEW SMD **157-1959**	12.82	9.61	7.70
FTBGA / 256	640	1.8V/2.5V/3.3V	159	-4	0 - 85°C	LCMXO640C-4FTN256C	NEW SMD **157-1958**	14.90	11.17	8.95
TQFP	640	1.8V/2.5V/3.3V	74	-5	0 - 85°C	LCMXO640C-5TN100C4W	SMD **129-1825**	14.96	12.48	10.69
TQFP / 144	640	1.8V/2.5V/3.3V	113	-5	0 - 85°C	LCMXO640C-5TN144C4W	SMD **129-1826**	16.60	13.83	11.86
TQFP / 144	1200	1.2	113	-3	0 - 85°C	LCMXO1200E-3TN144C	NEW SMD **157-1939**	14.90	11.17	8.95
FTBGA / 256	1200	1.2	211	-3	0 - 85°C	LCMXO1200E-3FTN256C	NEW SMD **157-1938**	17.07	12.80	10.24

RL Re-reeling available

Farnell

Programmable Logic Devices - continued

MachXO Crossover PLDs - continued

Pkg / Pins	LUTs	Supply Voltage	I/Os	Speed Grade	Temperature	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
TQFP / 144	1200	1.2	113	-4	0 - 85°C	LCMX01200E-4TN144C	NEW SMD 157-1942●	17.23	12.93	10.33
FTBGA / 256	1200	1.2	211	-4	0 - 85°C	LCMX01200E-4FTN256C	NEW SMD 157-1940●	19.30	14.49	11.58
TQFP / 144	1200	1.8V/2.5V/3.3V	113	-3	0 - 85°C	LCMX01200C-3TN144C	NEW SMD 157-1935●	14.90	11.17	8.95
FTBGA / 256	1200	1.8V/2.5V/3.3V	211	-3	0 - 85°C	LCMX01200C-3FTN256C	NEW SMD 157-1934●	17.07	12.80	10.24
TQFP / 144	1200	1.8V/2.5V/3.3V	113	-4	0 - 85°C	LCMX01200C-4TN144C	NEW SMD 157-1937●	17.23	12.93	10.33
FTBGA / 256	1200	1.8V/2.5V/3.3V	211	-4	0 - 85°C	LCMX01200C-4FTN256C	NEW SMD 157-1936●	19.30	14.49	11.58
TQFP	1200	1.8V/2.5V/3.3V	73	-5	0 - 85°C	LCMX01200C-5TN100C	SMD 129-1827●	19.69	16.41	14.07
TQFP / 144	1200	1.8V/2.5V/3.3V	113	-5	0 - 85°C	LCMX01200C-5TN144C	SMD 129-1829●	17.78	14.82	12.71
TQFP / 144	2280	1.2	113	-3	0 - 85°C	LCMX02280E-3TN144C	NEW SMD 157-1948●	20.67	17.23	13.79
FTBGA / 256	2280	1.2	211	-3	0 - 85°C	LCMX02280E-3FTN256C	NEW SMD 157-1947●	22.62	18.86	15.08
TQFP / 144	2280	1.2	113	-4	0 - 85°C	LCMX02280E-4TN144C	NEW SMD 157-1950●	24.04	20.04	16.03
FTBGA / 256	2280	1.2	211	-4	0 - 85°C	LCMX02280E-4FTN256C	NEW SMD 157-1949●	25.99	21.65	17.33
TQFP / 144	2280	1.8V/2.5V/3.3V	113	-3	0 - 85°C	LCMX02280C-3TN144C	NEW SMD 157-1944●	20.67	17.23	13.79
FTBGA / 256	2280	1.8V/2.5V/3.3V	211	-3	0 - 85°C	LCMX02280C-3FTN256C	NEW SMD 157-1943●	22.62	18.86	15.08
TQFP / 144	2280	1.8V/2.5V/3.3V	113	-4	0 - 85°C	LCMX02280C-4TN144C	NEW SMD 157-1945●	24.04	20.04	16.03
TQFP	2280	1.8V/2.5V/3.3V	73	-5	0 - 85°C	LCMX02280C-5TN100C	SMD 129-1831●	26.37	21.98	18.84
TQFP / 144	2280	1.8V/2.5V/3.3V	113	-5	0 - 85°C	LCMX02280C-5TN144C	SMD 129-1832●	27.59	22.99	19.71

ispMACH 4000V/B

The high performance ispMACH 4000 family offers a SuperFAST CPLD solution. The ispMACH 4000 family includes 3.3, 2.5 volt power supply versions, designated the ispMACH 4000V and ispMACH 4000B devices, respectively. The ispMACH 4000 devices couple industry leading speed performance with the lowest dynamic power consumption available while supporting I/O standards between 3.3 and 2.5 volts.The ispMACH 4000 family offers densities ranging from 32 to 256 macrocells. There are multiple density-I/O combinations in Thin Quad Flat Pack (TQFP) packages ranging from 44 to 100 pins.The devices offer ease of design by enhanced macrocells with individual clock, reset, preset and clock enable controls, wide input gating for fast counters, state machines and address decoders. System integration is aided by hot-socketing, open drain capability, input pull-up, pull-down or bus-keeper, 3.3V PCI compatibility, IEEE 1149.1 boundary scan testability, In-System Programmability using IEEE 1532 interface.

Macrocells	I/Os	t^{PD} (ns)	Frequency (MHz, max)	Vcc (V)	Pins/ Package	Mftrs. List No.
32	30	7.5	400	3.3	44/TQFP	LC4032V-75TN44C
64	64	7.5	400	3.3	44/TQFP	LC4064V-75TN44C
128	64	7.5	333	3.3	100/TQFP	LC4128V-75TN100C
256	64	7.5	322	3.3	100/TQFP	LC4256V-75TN100C

239716

Mftrs. List No.	Order Code	Price Each 1+	10+	100+
LC4032V-75TN44C	SMD 969-9899●	3.50	2.66	2.24
LC4064V-75TN44C	SMD 969-9902●	4.79	3.63	3.06
LC4128V-75TN100C	SMD 969-9910●	28.50	21.56	18.15
LC4256V-75TN100C	SMD 969-9929●	48.39	36.28	30.80

Macrocells	I/Os	t^{PD} (ns)	Frequency (MHz, max)	Vcc (V)	Pins/ Package	Mftrs. List No.
4	64	32	10	200	5	44/PLCC	M4A5-64/32-10JNC
4	32	32	10	200	5	44/TQFP	M4A5-32/32-10VNC
4	64	32	10	200	5	44/TQFP	M4A5-64/32-10VNC
4	128	64	10	200	5	100/TQFP	M4A5-128/64-10VNC
4032	32	32	7.5	400	3.3	48/TQFP	LC4032V-75TN48C
4064	64	32	7.5	400	3.3	48/TQFP	LC4064V-75TN48C
4032	32	32	7.5	400	1.8	48/TQFP	LC4032ZC-75TN48C
4064	32	32	7.5	400	1.8	48/TQFP	LC4064ZC-75TN48C
4064	64	64	7.5	400	1.8	100/TQFP	LC4064ZC-75TN100C
4128	128	64	7.5	400	1.8	100/TQFP	LC4128ZC-75TN100C

451228

Mftrs. List No.	Order Code	Price Each 1+	10+	100+
M4A5-64/32-10JNC	NEW SMD 160-5222●	6.37	4.53	4.23
M4A5-32/32-10VNC	SMD 129-1813●	7.80	6.37	5.39
M4A5-64/32-10VNC	SMD 129-1814●	9.81	8.03	6.80
M4A5-128/64-10VNC	SMD 129-1815●	22.49	18.40	15.56
LC4032V-75TN48C	SMD 129-1817●	3.25	2.71	2.33
LC4064V-75TN48C	SMD 129-1818●	5.83	4.86	4.18
LC4032ZC-75TN48C	SMD 129-1819●	2.59	2.16	1.87
LC4064ZC-75TN48C	SMD 129-1820●	2.12	2.07	2.03
LC4064ZC-75TN100C	SMD 129-1821●	6.23	5.20	4.45
LC4128ZC-75TN100C	SMD 129-1822●	7.73	7.13	6.18

MACH - Macro Array CMOS High-Density

The MACH® 4 family from Lattice offers an exceptionally flexible architecture and delivers a superior CPLD solution of easy-to-use silicon products and software tools. The overall benefits for users are a guaranteed and predictable CPLD solution, faster time-to-market, greater flexibility and lower cost.

Macrocells	Gate Equivalents	I/O Pins	Flip-Flops	Speed (ns)	Pkg/Pins Package	Mftrs. List No.
128	5000	–	192	15	PLCC / 84	M4-128N/64-15JC
128	–	64	–	10	TQFP	M4A3-128/64-10VNC
128	5000	–	192	10	PQFP / 100	M4A5-128/64-10YC
192	–	96	–	10	TQFP / 144	M4A5-192/96-10VNC
256	–	128	–	10	PQFP / 208	M4A5-256/128-10YC

210492

Mftrs. List No.	Order Code	Price Each 1+	10+	100+
M4-128N/64-15JC	SMD 301-0089	17.17	14.42	13.25
M4A3-128/64-10VNC	SMD 969-9880●	14.22	10.79	9.07
M4A5-128/64-10YC	SMD 301-0119	24.40	13.58	11.64
M4A5-192/96-10VNC	SMD 969-9872●	38.40	28.79	23.99
M4A5-256/128-10YC	SMD 414-0011	59.33	47.62	40.26

ispLEVER Base Version for Windows



ispLEVER is the complete design environment for the latest Lattice programmable logic products. It includes a comprehensive set of powerful tools for all design tasks, including project management, IP integration, design planning, place and route, in-system logic analysis, and more. The software is provided on CD-ROM and DVD for Windows and includes a USB Download Cable.

Device Support:
- All the latest Lattice programmable logic families

Platform Support:
- Windows: 2000 / XP

Includes:
- One year of software maintenance updates
- USB Cable

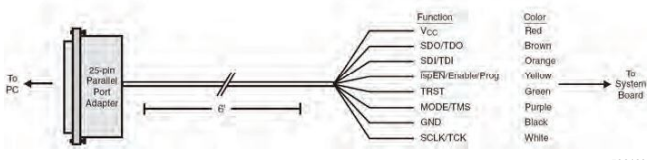
508184

Mftrs. List No.	Descirption	Order Code	Price Each 1+
LS-HDL-BASE-PC-N	ispLEVER Base Version	157-2006●	923.01

ispDOWNLOAD Cable

For Programming Lattice ISP Devices

Lattice ispDOWNLOAD cables are designed to facilitate in-system programming for all Lattice Semiconductor ISP™ devices with 1.2V, 1.8V, 2.5V, 3.3V, 5.0V core voltages, directly from a PC. This cable connects to the PC Parallel port, and uses fly-wire connectors to the target system board for maximum flexibility. Included are adapters for easy interface to widely used 1x8 and 2x5 header configurations.



508189

Mftrs. List No.	Descirption	Order Code	Price Each 1+
HW-DLN-3C	ispDOWNLOAD Cable with Parallel PC Connection	157-1926●	60.97

RL Re-reeling available

isp (In-System Programmable) High-Density

These are High-Density CMOS EEPLD, 80MHz devices.

210495

Device	Macrocells	Gate Equivalents	Inputs & I/O	Registers	Speed (ns)	Supply Current (mA)	Pins/ Package	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
1016	–	2000	32	96	7.5	90	44 PLCC	ISPLSI1016E-125LJN	SMD 135-9294●	15.13	10.66	9.23
1024	96	4000	54	144	15	190	68 PLCC	ISPLSI1024-80LJ	SMD 640-682	32.44	28.43	26.28
1032	–	6000	64	192	7.5	190	84 PLCC	ISPLSI1032E-70LJN	SMD 135-9295●	16.72	11.79	10.29
2032	32	1000	34	32	10	110	44 PLCC	ISPLSI2032E-110LJ44	SMD 332-7711	4.68	3.33	2.88
2064	64	2000	64		10	175	84 PLCC	ISPLSI2064A-100LJN84	NEW SMD 157-1929●	9.33	7.00	5.80

ispPAC-POWR Power Management Devices

The LA-ispPAC-POWR1014/A and ispPAC-POWR1014/A Power Manager II are general-purpose power-supply monitors and sequence controllers, incorporating both in-system programmable logic and in-system programmable analog functions implemented in non-volatile E2CMOS® technology. These devices provides 10 independent analog input channels to monitor up to 10 power supply test points. Each of these input channels has two independently programmable comparators to support both high/low and in-bounds/out-of-bounds (window-compare) monitor functions. Four general-purpose digital inputs are also provided for miscellaneous control functions.

Features:
- ● Monitor and Control Multiple Power Supplies
- - Simultaneously monitors up to 10 power supplies
- - Provides up to 14 output control signals
- - Programmable digital and analog circuitry
- ● Embedded PLD for Sequence Control
- - 24-macrocell CPLD implements both state machines and combinatorial logic functions
- ● Embedded Programmable Timers
- - Four independent timers
- - 32µs to 2 second intervals for timing sequences
- ● Analog Input Monitoring
- - 10 independent analog monitor inputs
- - 2 programmable threshold comparators per analog input
- - Hardware window comparison
- ● High-Voltage FET Drivers
- - Power supply ramp up/down control
- - Programmable current and voltage output
- - Independently configurable for FET control or digital output

507347

Mftrs. List No.	Pins/ Pkg	CPLD Macrocells	Programmable Comparators	Trip Points per Input	Power-off Detection	Number of Outputs	FET Drivers	ADC Resolution	I^2C Support	Order Code	Price Each 1+	10+	100+
ISPPAC-POWR1014A-01TN148I	48/TQFP	24	20	368	75mV	14	2	10 Bit	✓	SMD 129-1862●	7.24	6.03	5.17
ISPPAC-POWR1014-01TN148I	48/TQFP	24	20	368	75mV	14	2	–	–	NEW SMD 157-1931●	6.33	4.75	3.80
LA-ISPPAC-POWR1014-01TN48E	48/TQFP	24	20	368	75mV	14	2	–	–	NEW SMD 157-1932●	7.11	5.33	4.27
LA-ISPPAC-POWR1014A-01TN48E	48/TQFP	24	20	368	75mV	14	2	10 Bit	✓	NEW SMD 157-1933●	7.93	5.95	4.76

Lattice ispPAC-POWR Devices and Evaluation Board



The Lattice ispPAC - POWR604 and ispPAC-POWR1208 incorporate both in-system programmable logic and in-system programmable analogue circuits to perform special functions for power supply sequencing and monitoring.

Features:
- ● Monitor and Control Multiple Power Supplies
- ● Embedded PLD for Sequence Control
- ● Embedded Programmable Timers
- ● Analogue Comparators for Monitoring
- ● Embedded Oscillator
- ● Programmable Output Configurations
- ● 2.25V to 5.5V supply range
- ● Easy-to-use Windows compatible software for logic and sequence design

PAC - POWR1208-EV Evaluation Board

The PAC-POWR1208-EV evaluation board allows the designer to quickly configure and evaluate the ispPAC-POWR1208 on a fully assembled printed circuit board.

Features:
- ● Double sided board
- ● supports 44-pin TQFP package
- ● Header for user I/O
- ● JTAG programming cable connector
- ● Pad array for user prototyping

311736

Mftrs. List No.	Order Code	Price Each 1+	10+	100+
ISPPAC-POWR1208-01TN44I	SMD 969-9937●	21.01	17.50	14.85
ISPPAC-POWR1220AT8-01TN100I	SMD 129-1863●	19.72	16.42	14.10

ispClock 5620A Development Kit



The ispClock 5620 Development Kit includes everything the designer needs to quickly configure and evaluate the ispClock5620A on a fully assembled printed-circuit board. The four-layer board supports a 100-pin TQFP package, a header for user I/O and a JTAG programming cable connector. SMA connectors are installed to provide high-signal integrity access to selected high-speed I/O signals.

Includes:
- ● ispClock5620A Evaluation Board
- ● ispDOWNLOAD Cable
- ● AC Adapter
- ● User Documentation

508186

Mftrs. List No.	Descirption	Order Code	Price Each
PAC-SYSCLK5620AV	ispClock 5620A Development Kit	157-2007	304.52

ispClock™ Family

The ispClock5610A and ispClock5620A are in-system-programmable high-fanout enhanced zero delay clock generators designed for use in high performance communications and computing applications.
The **ispClock5610A** provides up to 10 single-ended or five differential clock outputs.
The **ispClock5620A** provides up to 20 single-ended or 10 differential clock outputs.

Features:
- ● 8MHz to 400MHz Input/Output Operation
- ● Low Output to Output Skew
- ● Low Jitter Peak-to-Peak
- ● Up to 20 Programmable Fan-out Buffers
- ● Fully Integrated High-Performance PLL
- ● Precision Programmable Phase Adjustment (Skew) Per Output
- ● Up to Five Clock Frequency Domains
- ● Flexible Clock Reference and External Feedback Inputs
- ● All Inputs and Outputs are Hot Socket Compliant
- ● Four User-programmable Profiles Stored in E2CMOS® Memory
- ● Full JTAG Boundary Scan Test In-SystemProgramming Support
- ● Exceptional Power Supply Noise Immunity

Device	Ref. Input Pairs	Feedback Input Pairs	Clock Outputs	Device	Ref. Input Pairs	Feedback Input Pairs	Clock Outputs
ispClock5610A	1	10	10	ispClock5620A	2	20	20

451167

Pins/Pkg	Description	Mftrs. List No.	Order Code	Price Each
48 / TQFP	ISP Clock Generator	ISPPAC-CLK5610AV-01TN48I	SMD 129-1867●	24.85
100 / TQFP	ISP Clock Generator	ISPPAC-CLK5620AV-01TN100C	SMD 129-1866●	20.75
100 / TQFP	ISP Clock Generator	ISPPAC-CLK5620AV-01TN100I	SMD 129-1868●	14.89

Programmable Logic Devices - continued

EB481 - PLC Builder

matrix multimedia



New

This bundle includes everything that is needed to rapidly develop a fully working Programmable Logic Controller system. All circuit diagrams for the boards are supplied which allows for development of a circuit board once a system has been prototyped.
Flowcode 3 facilitates extremely rapid development of your system, and the combination of Flowcode and the ECIO means that users can develop systems that are fully USB reprogrammable in the field.

Kit Includes:

- E-Blocks LED board
- E-Block LCD board
- E-Blocks Switch board
- E-Blocks Relay board
- Opto-isolator board
- E-Block ECIO Application board
- ECIO 40 pin USB programmable device
- International power supply
- USB lead
- Professional version of Flowcode 3

516721

Mftrs. List No.	Description	Order Code	Price Each
EB481	Build your own PLC bundle	162-0638	153.13

Static RAMs

SRAM (Static Random Access Memory)

210856

Mftr.	Pins	Pkg	Memory Size	Memory Config	Operating Voltage (V)	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
2K												
NXP	8	DIP	2Kbit	256 x 8bit	2.5 to 6	PCF8570P/F5	120-1302	1.97	1.34	1.28	1.25	– –
NXP	8	SOIC	2Kbit	256 x 8bit	2.5 to 6	PCF8570T/F5	SMD 120-1337	1.97	1.34	0.96	0.90	– –
16K												
MAX	24	DIP	16Kbit	2K x 8bit	4.5 to 5.5	DS2016-100+	125-6395	9.13	6.38	3.73	3.66	– –
IDT	24	DIP	16Kbit	2K x 8bit	4.5 to 5.5	IDT6116SA45PDG	121-8012	5.78	4.80	4.12	– –	– –
64K												
CYP	28	DIP	64Kbit	8K x 8bit	4.5 to 5.5	CY7C185D-15PXC	121-7551	3.69	2.61	2.35	– –	– –
CYP	28	SOIC	64Kbit	8K x 8bit	4.5 to 5.5	CY6264-70SNXC	SMD 891-1460	3.88	3.19	2.54	– –	– –
AMIC	28	DIP	64Kbit	8K x 8bit	4.5 to 5.5	A623308A-70SF	911-7245	2.33	1.71	1.49	– –	– –
AMIC	28	SOP	64Kbit	8K x 8bit	4.5 to 5.5	A623308M-70SF	SMD 111-2027	2.32	1.70	1.49	– –	– –
128K												
IDT	68	PLCC	128Kbit	16K x 8bit	4.5 to 5.5	IDT7006L15JG	SMD 126-0371	20.64	15.37	13.94	– –	– –
256K												
CYP	28	SOJ	256Kbit	32K x 8bit	4.5 to 5.5	CY7C199C-12VXC	SMD 891-1533	1.50	1.17	1.00	– –	– –
BSI	28	DIP	256Kbit	32K x 8bit	2.4 to 5.5	BS62LV256PCP70	869-8139	3.26	2.51	2.34	2.11	1.99
BSI	28	SOP	256Kbit	32K x 8bit	2.4 to 5.5	BS62LV256SCP70	SMD 869-8147	3.33	2.52	2.40	2.17	2.01
IDT	28	SOJ	256Kbit	32K x 8bit	3 to 3.6	IDT71V256SA20YG	SMD 121-7994	2.04	– –	– –	– –	– –
ALL	28	SOJ	256Kbit	32K x 8bit	3 to 3.6	AS7C3256A-10JIN	NEW SMD 156-2914	1.48	1.18	0.99	0.92	0.84
ALL	28	TSOP	256Kbit	32K x 8bit	3 to 3.6	AS7C3256A-10TIN	NEW SMD 156-2916	1.48	1.18	0.99	0.92	0.84
ISSI	28	SOJ	256Kbit	32K x 8bit	3.135 to 3.63	IS61LV256AL-10JLI	SMD 127-1827	1.97	1.39	1.35	1.32	1.28
IDT	28	SOJ	256Kbit	32K x 8bit	4.5 to 5.5	IDT71256SA20YG	SMD 121-8010	7.51	6.08	5.42	4.96	– –
BSI	28	TSOP	256Kbit	32K x 8bit	2.4 to 5.5	BS62LV256TIP55	SMD 148-8937	1.13	0.92	0.76	0.70	0.65
BSI	28	PDIP	256Kbit	32K x 8bit	2.4 to 5.5	BS62LV256PIP55	148-8951	1.27	1.01	0.84	0.78	0.72
BSI	28	SOP	256Kbit	32K x 8bit	2.4 to 5.5	BS62LV256SIP55	SMD 148-8948	1.07	0.85	0.71	0.66	0.61
ISSI	28	SOP	256Kbit	32K x 8bit	4.5 to 5.5	IS62C256AL-45ULI	SMD 107-7671	3.63	3.43	3.18	2.31	2.28
ISSI	28	SOJ	256Kbit	32K x 8bit	4.5 to 5.5	IS61C256AL-12JLI	SMD 127-1826	1.97	1.39	1.35	1.32	1.28
CYP	28	SOIC	256Kbit	32K x 8bit	4.5 to 5.5	CY62256NLL-55SNXI	NEW SMD 165-0073	1.92	1.27	0.98	– –	– –
ALL	28	SOJ	256Kbit	32K x 8bit	4.5 to 5.5	AS7C256A-12JIN	NEW SMD 156-2910	1.48	1.18	0.99	0.92	0.84
ALL	28	TSOP	256Kbit	32K x 8bit	4.5 to 5.5	AS7C256A-12TIN	NEW SMD 156-2911	1.48	1.18	0.99	0.92	0.84
NEC	28	SOIC	256Kbit	32K x 8bit	4.5 to 5.5	UPD43256BGU-70LL-A	SMD 120-9615	7.83	6.16	5.04	– –	– –
1Mb												
REN	32	SOP	1Mbit	128K x 8bit	4.5 to 5.5	M5M51008DFP-70H#BT	SMD 883-0207	3.89	3.24	2.61	– –	– –
BSI	32	DIP	1Mbit	128K x 8bit	2.4 to 5.5	BS62LV1027PCP55	869-8155	3.91	2.95	2.80	2.56	2.37
BSI	32	SOP	1Mbit	128K x 8bit	2.4 to 5.5	BS62LV1027SCP55	SMD 869-8163	4.03	3.04	2.90	2.61	2.42
ISSI	32	SOP	1Mbit	128K x 8bit	4.5 to 5.5	IS62C1024AL-35QLI	SMD 107-7672	4.50	3.73	3.08	2.74	2.67
IDT	44	SOJ	1Mbit	64K x 16bit	4.5 to 5.5	IDT71016S20YG	SMD 121-8011	6.43	4.94	3.96	– –	– –
IDT	32	SOJ	1Mbit	128K x 8bit	4.5 to 5.5	IDT71024S12YG	SMD 108-1515	1.70	1.42	1.13	– –	– –
NEC	32	SOIC	1Mbit	128K x 8bit	4.5 to 5.5	UPD431000AGW-70LL-A	SMD 120-9614	11.88	10.86	9.04	– –	– –
BSI	44	TSOP-2	1Mbit	64K x 16bit	2.4 to 5.5	BS616LV1010EIP70	SMD 148-8924	1.97	1.58	1.32	1.21	1.12
BSI	32	STSOP	1Mbit	128K x 8bit	2.4 to 5.5	BS62LV1027STIP55	SMD 148-8931	1.67	1.34	1.11	1.03	0.96
BSI	32	TSOP	1Mbit	128K x 8bit	2.4 to 5.5	BS62LV1027TIP55	SMD 148-8932	1.64	1.32	1.09	1.01	0.94
BSI	32	SOP	1Mbit	128K x 8bit	2.4 to 5.5	BS62LV1027SIP55	SMD 148-8949	1.55	1.24	1.04	0.96	0.90
BSI	32	PDIP	1Mbit	128K x 8bit	2.4 to 5.5	BS62LV1027PIP55	148-8952	1.69	1.36	1.13	1.04	0.97
ISSI	44	TSOP	1Mbit	64K x 16bit	3.135 to 3.63	IS61LV6416-10TLI	SMD 127-1828	4.88	3.99	3.67	3.35	3.10
CYP	32	SOJ	1Mbit	128K x 8bit	3 to 3.6	CY7C1019DV33-10VXI	NEW SMD 165-0074	2.54	1.68	1.30	– –	– –
CYP	44	TSOP	1Mbit	64K x 16bit	2.2 to 3.6	CY62126EV30LL-45ZSXI	NEW SMD 165-0059	2.19	1.45	1.14	– –	– –
ALL	32	PDIP	1Mbit	128K x 8bit	5.5 to 2.7	AS6C1008-55PCN	NEW 156-2896	2.18	1.74	1.45	1.34	1.24
ALL	32	SOP	1Mbit	128K x 8bit	2.7 to 5.5	AS6C1008-55SIN	NEW SMD 156-2898	1.86	1.49	1.24	1.14	1.07
ALL	32	TSOP	1Mbit	128K x 8bit	2.7 to 5.5	AS6C1008-55TIN	NEW SMD 156-2899	1.86	1.49	1.24	1.14	1.07
ALL	32	SOJ	1Mbit	128K x 8bit	4.5 to 5.5	AS7C1024B-12JCN	NEW SMD 156-2908	2.45	1.95	1.63	1.50	1.40
ALL	32	TSOP	1Mbit	128K x 8bit	4.5 to 5.5	AS7C1024B-12TCN	NEW SMD 156-2909	2.45	1.95	1.63	1.50	1.40
ALL	32	TSOP	1Mbit	128K x 8bit	3 to 3.6	AS7C31024B-12TCN	NEW SMD 156-2912	2.76	2.20	1.84	1.70	1.57
ALL	44	TSOP	1Mbit	64K x 16bit	3 to 3.6	AS7C31026B-12TCN	NEW SMD 156-2913	2.46	1.96	1.64	1.51	1.41
ALL	44	SOJ	1Mbit	64K x 16bit	3 to 3.6	AS7C31026B-12JCN	NEW SMD 156-2925	2.46	1.96	1.64	1.51	1.41
ALL	32	SOJ	1Mbit	128K x 8bit	3 to 3.6	AS7C31024B-15JCN	NEW SMD 156-2928	2.76	2.20	1.84	1.70	1.57
2Mb												
BSI	44	TSOP-2	2Mbit	128K x 16bit	2.4 to 5.5	BS616LV2016EIP55	SMD 148-8927	2.28	1.82	1.51	1.40	1.31
BSI	32	SOP	2Mbit	256K x 8bit	2.4 to 5.5	BS62LV2006SIP55	SMD 148-8933	2.28	1.82	1.51	1.40	1.31
BSI	32	STSOP	2Mbit	256K x 8bit	2.4 to 5.5	BS62LV2006STIP55	SMD 148-8935	2.45	1.96	1.63	1.51	1.40
BSI	32	TSOP	2Mbit	256K x 8bit	2.4 to 5.5	BS62LV2006TIP55	SMD 148-8936	2.38	1.90	1.59	1.46	1.36
	48	FBGA	2Mbit	128K x 16bit	2.2 to 3.6	CY62137EV30LL-45BVXI	NEW SMD 165-0062	3.51	2.32	1.81	– –	– –
4Mb												
ISSI	44	TSOP	4Mbit	256K x 16bit	2.5 to 3.6	IS62WV25616BLL-55TLI	SMD 127-1831	6.41	6.08	5.92	5.76	5.62
CYP	44	TSOP	4Mbit	512K x 8bit	3 to 3.6	CY7C1049CV33-10ZXC	SMD 891-1509	7.19	5.63	4.99	– –	– –
ISSI	44	TSOP	4Mbit	256K x 16bit	3.135 to 3.63	IS61LV25616AL-10TL	SMD 107-7674	6.12	4.00	3.89	3.79	3.69
ISSI	36	SOJ	4Mbit	512K x 8bit	3.135 to 3.63	IS61LV5128AL-10KLI	SMD 107-7675	8.87	7.09	5.90	5.01	4.67
ISSI	44	TSOP	4Mbit	512K x 8bit	3.135 to 3.63	IS61LV5128AL-10TLI	SMD 107-7676	6.13	4.00	3.89	3.79	3.69
BSI	32	DIP	4Mbit	512K x 8bit	2.4 to 5.5	BS62LV4006PCP55	869-8171	10.78	8.16	7.74	7.03	6.48
BSI	44	TSOP	4Mbit	256K x 16bit	2.4 to 5.5	BS616LV4017ECP55	SMD 869-8210	10.83	8.22	7.83	7.06	6.53
BSI	32	TSOP-2	4Mbit	512K x 8bit	2.4 to 5.5	BS62LV4006EIP55	SMD 148-8938	3.98	3.17	2.65	2.45	2.28
BSI	32	SOP	4Mbit	512K x 8bit	2.4 to 5.5	BS62LV4006SIP55	SMD 148-8939	3.06	2.45	2.04	1.89	1.75
BSI	32	STSOP	4Mbit	512K x 8bit	2.4 to 5.5	BS62LV4006STIP55	SMD 148-8940	3.65	2.92	2.44	2.24	2.09
BSI	32	TSOP	4Mbit	512K x 8bit	2.4 to 5.5	BS62LV4006TIP55	SMD 148-8941	2.94	2.35	1.96	1.81	1.68
BSI	48	BGA	4Mbit	256K x 16bit	2.4 to 5.5	BS616LV4017AIP55	SMD 148-8928	4.27	3.41	2.85	2.62	2.45
BSI	44	TSOP-2	4Mbit	256K x 16bit	2.4 to 5.5	BS616LV4017EIP55	SMD 148-8944	3.81	3.05	2.53	2.35	2.18
BSI	32	PDIP	4Mbit	512K x 8bit	2.4 to 5.5	BS62LV4006PIP55	SMD 148-8950	3.51	2.81	2.35	2.16	2.01
CYP	44	TSOP	4Mbit	256K x 16bit	2.2 to 3.6	CY62146EV30LL-45ZSXI	NEW SMD 165-0064	5.73	3.79	2.94	– –	– –
CYP	44	TSOP	4Mbit	256K x 16bit	2.2 to 3.6	CY62147EV30LL-45ZSXI	NEW SMD 165-0065	5.83	3.87	2.99	– –	– –

RL Re-reeling available

Mftr.	Pins	Pkg	Memory Size	Memory Config	Operating Voltage (V)	Mftrs. List No.	Order Code	1+	10+	Price Each 100+	250+	500+
4Mb												
CYP	32	SOIC	4Mbit	512K x 8bit	4.5 to 5.5	CY62148ELL-55SXI	NEW SMD 165-0066	6.88	4.55	3.53	– –	– –
CYP	32	TSOP	4Mbit	512K x 8bit	4.5 to 5.5	CY62148EV30LL-45ZSXI	NEW SMD 165-0067	5.73	3.79	2.94	– –	– –
CYP	44	TSOP	4Mbit	256K x 16bit	4.5 to 5.5	CY7C1041D-10ZSXI	NEW SMD 165-0076	6.22	4.13	3.19	– –	– –
CYP	48	FBGA	4Mbit	256K x 16bit	3.3 to 3.6	CY7C1041DV33-10BVXI	NEW SMD 165-0077	4.86	3.22	2.49	– –	– –
CYP	44	TSOP	4Mbit	256K x 16bit	3.3 to 3.6	CY7C1041DV33-10ZSXI	NEW SMD 165-0078	4.86	3.22	2.49	– –	– –
ALL	32	PDIP	4Mbit	512K x 8bit	2.7 to 5.5	AS6C4008-55PCN	NEW 156-2900	4.21	3.37	2.82	2.59	2.42
ALL	32	SOP	4Mbit	512K x 8bit	2.7 to 5.5	AS6C4008-55SIN	NEW SMD 156-2901	3.83	3.06	2.55	2.35	2.19
ALL	32	TSOP	4Mbit	512K x 8bit	2.7 to 5.5	AS6C4008-55TIN	NEW SMD 156-2902	3.83	3.06	2.55	2.35	2.19
ALL	36	SOJ	4Mbit	512K x 8bit	3 to 3.6	AS7C34096A-12JIN	NEW SMD 156-2917	4.79	3.83	3.19	2.94	2.75
ALL	44	TSOP	4Mbit	512K x 8bit	3 to 3.6	AS7C34096A-12TIN	NEW SMD 156-2918	4.79	3.83	3.19	2.94	2.75
ALL	44	SOJ	4Mbit	256K x 16bit	3 to 3.6	AS7C34098A-12JIN	NEW SMD 156-2919	4.79	3.83	3.19	2.94	2.75
ALL	44	TSOP	4Mbit	256K x 16bit	3 to 3.6	AS7C34098A-12TIN	NEW SMD 156-2920	4.79	3.83	3.19	2.94	2.75
ALL	36	SOJ	4Mbit	512K x 8bit	4.5 to 5.5	AS7C4096A-12JIN	NEW SMD 156-2921	4.79	3.83	3.19	2.94	2.75
ALL	44	TSOP	4Mbit	512K x 8bit	4.5 to 5.5	AS7C4096A-12TIN	NEW SMD 156-2922	4.79	3.83	3.19	2.94	2.75
ALL	44	SOJ	4Mbit	256K x 16bit	4.5 to 5.5	AS7C4098A-12JIN	NEW SMD 156-2923	4.79	3.83	3.19	2.94	2.75
ALL	44	TSOP	4Mbit	256K x 16bit	4.5 to 5.5	AS7C4098A-12TIN	NEW SMD 156-2924	4.79	3.83	3.19	2.94	2.75
8Mb												
ISSI	44	TSOP	8Mbit	512K x 16bit	3.135 to 3.63	IS61LV51216-10TLI	SMD 107-7677	23.53	20.27	17.80	15.67	14.72
ISSI	44	TSOP	8Mbit	512K x 16bit	3.135 to 3.63	IS61LV51216-10TLI	SMD 107-7677	23.53	20.27	17.80	15.67	14.72
BSI	44	TSOP	8Mbit	1M x 8bit	2.4 to 5.5	BS62LV8001ECP55	SMD 869-8201	20.14	17.04	14.77	13.43	12.61
BSI	44	TSOP	8Mbit	512K x 16bit	2.4 to 5.5	BS616LV8017EC-55	SMD 508-9669▲	21.72	16.39	14.62	– –	– –
BSI	44	TSOP	8Mbit	512K x 16bit	2.4 to 5.5	BS616LV8017ECP55	SMD 869-8228	20.03	16.98	14.74	13.37	12.56
BSI	48	BGA	8Mbit	1M x 8bit	1.65 to 3.6	BH62UV8001AIG55	SMD 148-8923	5.28	4.23	3.53	3.25	3.03
BSI	48	BGA	8Mbit	512K x 16bit	1.65 to 3.6	BH616UV8011AIG55	SMD 148-8919	5.54	4.44	3.70	3.42	3.17
BSI	48	TSOP-1	8Mbit	512K x 16bit	1.65 to 3.6	BH616UV8010TIG55	SMD 148-8920	5.42	4.33	3.61	3.34	3.10
BSI	48	Mini BGA	8Mbit	512K x 16bit	2.4 to 5.5	BS616LV8016FIP55	SMD 148-8929	6.79	5.45	4.54	4.18	3.89
BSI	48	Mini BGA	8Mbit	512K x 16bit	2.4 to 5.5	BS616LV8017FIP55	SMD 148-8930	6.67	5.34	4.46	4.11	3.82
BSI	48	Mini BGA	8Mbit	1M x 8bit	2.4 to 5.5	BS62LV8001FIP55	SMD 148-8942	7.56	6.04	5.03	4.65	4.32
BSI	44	TSOP-2	8Mbit	1M x 8bit	2.4 to 5.5	BS62LV8001EIP55	SMD 148-8943	6.10	4.89	4.07	3.75	3.49
BSI	44	TSOP-2	8Mbit	512K x 16bit	2.4 to 5.5	BS616LV8017EIP55	SMD 148-8945	6.17	4.93	4.11	3.79	3.52
CYP	48	FBGA	8Mbit	512K x 16bit	2.2 to 3.6	CY62157EV30LL-45BVXI	NEW SMD 165-0068	8.79	5.82	4.50	– –	– –
CYP	44	TSOP	8Mbit	512K x 16bit	2.2 to 3.6	CY62157EV30LL-45ZSXI	NEW SMD 165-0069	8.79	5.82	4.50	– –	– –
ALL	44	TSOP	8Mbit	1M x 8bit	2.7 to 5.5	AS6C8008-55ZIN	NEW SMD 156-2904	7.56	6.04	5.04	4.65	4.31
ALL	48	TFBGA	8Mbit	1M x 8bit	2.7 to 5.5	AS6C8008-55BIN	NEW SMD 156-2905	7.56	6.04	5.04	4.65	4.31
ALL	44	TSOP	8Mbit	512K x 16bit	2.7 to 5.5	AS6C8016-55ZIN	NEW SMD 156-2906	7.56	6.04	5.04	4.65	4.31
ALL	48	TFBGA	8Mbit	512K x 16bit	2.7 to 5.5	AS6C8016-55BIN	NEW SMD 156-2907	7.56	6.04	5.04	4.65	4.31
256K												
CYP	100	TQFP	9Mbit	256K x 36bit	3.135 to 3.6	CY7C1354C-166AXC	NEW SMD 165-0083	20.66	12.52	10.24	– –	– –
256K												
ISSI	44	TSOP	16Mbit	2M x 8bit	2.4 to 5.5	BS62LV1600ECP55	SMD 127-1840	22.96	18.79	17.22	15.89	14.58
BSI	48	BGA	16Mbit	2M x 8bit	1.65 to 3.6	BH62UV1601AIG55	SMD 148-8921	9.99	7.99	6.66	6.15	5.72
BSI	48	BGA	16Mbit	1M x 16bit	2.4 to 5.5	BS616LV1611FIP55	SMD 148-8925	13.09	10.48	8.73	8.06	7.48
BSI	48	TSOP-1	16Mbit	1M x 16bit	2.4 to 5.5	BS616LV1611TIG55	SMD 148-8926	13.47	10.77	8.99	8.29	7.70
BSI	44	TSOP	16Mbit	2M x 8bit	2.4 to 5.5	BS62LV1600EIP55	SMD 148-8953	13.05	10.45	8.70	8.03	7.46
BSI	48	Mini BGA	16Mbit	1M x 16bit	1.65 to 3.6	BH616UV1611AIP55	SMD 148-7215	8.81	7.05	5.88	5.43	5.03
CYP	48	FBGA	16Mbit	1M x 16bit	2.2 to 3.6	CY62167DV30LL-55BVXI	NEW SMD 165-0070	12.02	7.97	6.17	– –	– –
CYP	48	TSOP	16Mbit	1M x 16bit	2.2 to 3.6	CY62167DV30LL-55ZXI	NEW SMD 165-0071	12.02	7.97	6.17	– –	– –
CYP	48	FBGA	16Mbit	2M x 8bit or 1M x 16bit	2.2 to 3.6	CY62167EV30LL-45BVXI	NEW SMD 165-0072	12.02	7.97	6.17	– –	– –
CYP	54	TSOP	16Mbit	1M x 16bit	3 to 3.6	CY7C1061AV33-10ZXC	NEW SMD 165-0079	37.78	22.90	18.72	– –	– –
CYP	54	TSOP	16Mbit	1M x 16bit	3 to 3.6	CY7C1061AV33-10ZXI	NEW SMD 165-0080	37.78	22.90	18.72	– –	– –
CYP	54	TSOP	16Mbit	1M x 16bit	3 to 3.6	CY7C1061AV33-12ZXC	NEW SMD 165-0081	37.78	22.90	18.72	– –	– –
CYP	54	TSOP	2Mbit	256K x 8bit	3 to 3.6	CY7C1069AV33-10ZXC	NEW SMD 165-0082	37.78	22.90	18.72	– –	– –
256K												
CYP	100	TQFP	18Mbit	1M x 18bit or 512K x 36bit	3.135 to 3.6	CY7C1371D-133AXC	NEW SMD 165-0084	38.26	23.19	18.95	– –	– –

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Asynchronous and Synchronous SRAMs









484450

Pins/ Pkg	Operating Temperature	Access Time	Description	Mftrs. List No.	Order Code	1+	10+	Price Each 100+	250+	500+
Asynchronous										
71108 32/TSOP-2	0 to 70°C	10ns	1Mb (128K x 8) Asynchronous SRAM	GS71108AGP-10	SMD 144-7510	2.44	2.12	1.88	1.69	1.55
71108 32/TSOP-2	-40 to 85°C	10ns	1Mb (128K x 8) Asynchronous SRAM	GS71108AGP-10I	SMD 144-7512	2.63	2.29	2.02	1.81	1.67
71108 32/TSOP-2	0 to 70°C	12ns	1Mb (128K x 8) Asynchronous SRAM	GS71108AGP-12	SMD 144-7513	2.32	2.02	1.78	1.60	1.47
71116 44/TSOP-2	-40 to 85°C	10ns	1Mb (64K x 16) Asynchronous SRAM	GS71116AGP-10I	SMD 144-7514	2.40	2.09	1.85	1.66	1.52
71116 44/TSOP-2	0 to 70°C	12ns	1Mb (64K x 16) Asynchronous SRAM	GS71116AGP-12	SMD 144-7515	2.44	2.12	1.88	1.69	1.55
71116 44/TSOP-2	0 to 70°C	8ns	1Mb (64K x 16) Asynchronous SRAM	GS71116AGP-8	SMD 144-7516	2.59	2.25	1.99	1.78	1.65
71024 100/TQFP	0 to 70°C	10ns	1.5Mb (64K x 24) Asynchronous SRAM	GS71024GT-10	SMD 144-7507	4.74	4.12	3.64	3.27	3.00
71024 100/TQFP	-40 to 85°C	12ns	1.5Mb (64K x 24) Asynchronous SRAM	GS71024GT-12I	SMD 144-7508	5.18	4.50	3.99	3.57	3.28
71024 100/TQFP	0 to 70°C	8ns	1.5Mb (64K x 24) Asynchronous SRAM	GS71024GT-8	SMD 144-7509	7.33	6.38	5.64	5.05	4.65
72108 36/TSOP-2	-40 to 85°C	12ns	2Mb (256K x 8) Asynchronous SRAM	GS72108AGP-12I	SMD 144-7517	4.37	3.80	3.36	3.01	2.77
72116 44/TSOP-2	-40 to 85°C	10ns	2Mb (128K x 16) Asynchronous SRAM	GS72116AGP-10I	SMD 144-7519	4.22	3.67	3.25	2.91	2.68
73024 119/FPBGA	-40 to 85°C	10ns	3Mb (128K x 24) Asynchronous SRAM	GS73024AGB-10I	SMD 144-7521	17.10	14.87	13.15	11.79	10.83
74108 44/TSOP-2	-40 to 85°C	10ns	4Mb (512K x 8) Asynchronous SRAM	GS74108AGP-10I	SMD 144-7522	5.24	4.55	4.03	3.61	3.32
74116 44/TSOP-2	0 to 70°C	12ns	4Mb (256K x 16) Asynchronous SRAM	GS74116AGP-12	SMD 144-7523	4.24	3.70	3.26	2.93	2.69
74116 44/TSOP-2	-40 to 85°C	10ns	4Mb (256K x 16) Asynchronous SRAM	GS74116AGP-10I	SMD 144-7524	5.24	4.55	4.03	3.61	3.32
74116 44/TSOP-2	-40 to 85°C	8ns	4Mb (256K x 16) Asynchronous SRAM	GS74116AGP-8I	SMD 144-7525	7.56	6.57	5.82	5.21	4.79

Static RAMs - continued

Asynchronous and Synchronous SRAMs - continued

	Pins/ Pkg	Operating Temperature	Access Time	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
Synchronous											
84032	100/TQFP	0 to 70°C	-	4Mb (128K x 32) Synchronous-Burst SRAM, 150MHz Cycle Frequency. . .	GS84032AGT-150	SMD 144-7527●	4.12	3.58	3.17	2.85	2.61
840	100/TQFP	0 to 70°C	-	4Mb (128K x 36) Synchronous NBT SRAM, 166MHz Cycle Frequency . . .	GS840Z36AGT-166	SMD 144-7528●	4.82	4.19	3.72	3.32	3.05
842	119/BGA	0 to 70°C	-	4Mb (128K x 36) Synchronous NBT SRAM, 150MHz Cycle Frequency . . .	GS842Z36AGB-150	SMD 144-7529●	7.22	6.28	5.55	4.98	4.57
880	100/TQFP	0 to 70°C	-	9Mb (256K x 36) Synchronous NBT SRAM, 150MHz Cycle Frequency . . .	GS880Z36BGT-150	SMD 144-7530●	10.88	9.46	8.37	7.50	6.89
816032	100/TQFP	0 to 70°C	-	18Mb (512K x 32) Synchronous-Burst SRAM, 200MHz Cycle Frequency. .	GS816032BGT-200	SMD 144-7526●	18.32	15.93	14.10	12.64	11.60

Dual Port RAM

210604

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
8K									
7C131	CYP	52	PLCC	8K (1K x 8) CMOS Dual-Port SRAM, 55ns acc.	CY7C131-55JXC	SMD 121-7545●	5.29	3.61	3.36
32K									
7133	IDT	68	PLCC	32K (2K x 16) CMOS Dual-Port SRAM, 35ns acc.	IDT7133SA35JG	SMD 121-8009●	14.54	12.10	9.12
7134	IDT	52	PLCC	32K (4K x 8) CMOS Dual-Port SRAM, 35ns acc.	IDT7134SA35JG	SMD 121-8008●	23.71	16.36	13.77

Static RAM Support ICs

210861

	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
1210	8	DIP	Non-Volatile Controller, 1 RAM	DS1210+	118-7975●	2.89	2.69	2.51
1210	16	SOIC	Non-Volatile Controller, 1 RAM	DS1210S+	SMD 118-8034●	4.66	2.99	2.11
1211	20	DIP	Non-Volatile Controller, 8 RAMs.	DS1211+	129-0851●	18.12	14.02	12.45
1213B	28	DIL Socket	SmArt Socket - accepts 2K 8 or 8K 8 RAMs	DS1213B	485-342▲	15.16	12.01	9.94
1213C	28	DIL Socket	SmArt Socket - accepts 8K 8 or 32K 8 RAMs	DS1213C	392-753▲	13.85	10.70	9.50
1213D	32	DIL Socket	SmArt Socket - accepts 8K 8, 32K 8, 128K 8 or 512K 8 RAMs	DS1213D	485-275▲	15.41	11.92	10.58
1216B	28	DIL Socket	SmArt Watch - accepts 2K 8 or 8K 8 RAMs.	DS1216B	485-354▲	20.80	17.28	14.08
1236	16	DIP	Micro mAnager Chip.	DS1236-10+	128-5405●	9.42	6.06	4.27

First-In, First-Out (FIFO)

FIFOs

FIFOs provide temporary storage of data in sequence so that the first word to the input port will be the first at the output port. The ports work independently and the data can be read and written at different rates.
FIFOs have memory locations which inhibit further data input if full and can only send stored data out.
The time to complete an operation is called the Access time which can determine the system speed in which the device is operating.

210859

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
7201	IDT	32	PLCC	512 x 9 CMOS FIFO, 35ns acc.	IDT7201LA35JG	SMD 121-8005●	4.72	3.02	2.70
7202	IDT	32	PLCC	1K x 9 CMOS FIFO, 35ns acc.	IDT7202LA35JG	SMD 121-8006●	4.74	3.28	3.03
72221	IDT	32	TQFP	1K x 9 CMOS SYNC FIFO, 15ns acc.	IDT72221L15PFG	SMD 121-7995●	10.33	7.78	6.66
72231	IDT	32	TQFP	2K x 9 CMOS SYNC FIFO, 15ns acc.	IDT72231L15PFG	SMD 121-7996●	13.24	11.44	9.89
7204	IDT	28	SOIC	4K x 9 CMOS ASYNC FIFO, 12ns acc.	IDT7204L12SOG	SMD 108-1527●	10.63	7.09	6.07
7204	IDT	32	PLCC	4K x 9 CMOS FIFO, 35ns acc.	IDT7204L35JG	SMD 121-8007●	13.68	7.32	5.63
7205	IDT	32	PLCC	4K x 9 CMOS SYNC FIFO, 20ns acc.	IDT7205L20JG	SMD 121-7997●	17.56	13.09	11.86
74V215	TI	64	TQFP	512 X 18 SYNCHRONOUS FIFO Memory	SN74V215-20PAG	123-6480●	9.09	6.05	4.49
74V225	TI	64	TQFP	1024 X 18 SYNCHRONOUS FIFO Memory	SN74V225-7PAG	SMD 123-6481●	6.43	5.71	4.43
74V235	TI	64	TQFP	2048 X 18 SYNCHRONOUS FIFO Memory	SN74V235-15PAG	SMD 123-6482●	6.98	6.13	5.45

Non-Volatile RAM & Memory Modules

Non-Volatile CMOS RAMs with Battery Back-up

The ZEROPOWER NVRAM is a non-volatile RAM with internal lithium battery, directly replacing industry standard SRAMs.

Features:

- Power-fail control circuit
- Unlimited write cycles
- 10 years of data retention in power absence
- Pin and function compatible with standard SRAMs
- Automatic power-fail chip deselect and write protect

210796

Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
4	4 SOIC	SNAPHAT® battery for the M48Z08/18 range	M4Z28-BR00SH1	SMD 688-344	5.95	4.74	3.36	3.00	2.93
4	2 SOIC	SNAPHAT® lithium battery (130mAh) for ZEROPOWER® products and NVRAM controllers . .	M4Z32-BR00SH1	334-2268	9.61	7.38	5.98	5.05	4.81
4	4 SNAPHAT	3V 48 mAh Battery Operated Crystal	M4T28-BR12SH1	SMD 146-7820●	6.06	– –	– –	– –	– –
4	4 SOIC	TIMEKEEPER® SNAPHAT® (Battery & Crystal)	M4T32-BR12SH6	SMD 139-1519●	10.10	8.21	6.17	5.82	5.31
4	4 SNAPHAT	SNAPHAT® lithium battery & Crystal (130mAh) for TIMEKEEPER® products and TIMEKEEPER® controllers	M4T32-BR12SH1	146-7740●	7.41	– –	– –	– –	– –
4128	SO	512-Bit (64b × 8) Serial RTC and NVRAM supervisor, 2.7 to 3.2V, I²C Bus compatible, 44 Bytes of general purpose RAM, Century register, Embedded Crystal, IND TEMP.	M41ST85WMX6	SMD 122-4436●	7.78	6.29	4.75	4.09	3.98
4128	SO	1280-Bit (160 x 8) Secure Serial RTC and NVRAM Supervisor, 2.7 to 3.6V With TAmper Detection, IND TEMP.	M41ST87WMX6	SMD 122-4437●	10.60	8.00	6.17	5.68	4.95
418	SOIC	Serial access TIMEKEEPER® Real-time Clock/Calendar, 2.0 to 5.5V, I2C Bus compatible, Y2K compliant, IND TEMP.	M41T00M6E	SMD 988-2634●	1.42	1.17	1.06	1.01	0.99
418	SOIC	512-Bit (64b × 8) Serial access TIMEKEEPER® SRAM, 2.0 to 5.5V, I2C Bus compatible, 56 Bytes of general purpose RAM, Century register, IND TEMP	M41T11M6E	SMD 988-2642●	3.02	2.26	1.78	1.51	1.35
4128	SOIC	512-Bit (64b × 8) Serial access TIMEKEEPER® SRAM, 2.0 to 5.5V, I2C Bus compatible, 56 Bytes of general purpose RAM, Century register, IND TEMP (requires SNAPHAT® Battery & Crystal)	M41T11MH6E	SMD 975-5810●	6.52	5.04	3.59	3.06	2.74

RL Re-reeling available

Farnell

Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
418	SOIC	512-Bit (64b × 8) Serial access TIMEKEEPER® SRAM, I2C Bus compatible, 56 Bytes of general purpose RAM, Century register, 5.0V ±10%, IND TEMP	M41T56M6E	SMD 988-2650●	1.47	1.18	1.06	0.97	0.94
4128	SOIC	512-Bit (64b × 8) Serial access TIMEKEEPER® SRAM, I2C Bus compatible, 56 Bytes of general purpose RAM, Century register, 5.0V ±10%, IND TEMP (requires SNAPHAT® Battery & Crystal)	M41T56MH6E	SMD 988-2669●	2.46	2.17	2.11	2.06	2.01
418	SOIC	RTC W/ANALog CALIBRATION,RST,I2C	M41T82RM6E	SMD 129-2455●	3.11	2.42	2.10	1.86	1.63
4116	SOIC	512-Bit (64 x 8) Serial RTC, 44 bytes of general purpose RAM , 2.7 to 5.5V, I²C Bus compatible, IND TEMP.	M41T94MQ6E	SMD 109-4273●	4.44	3.42	2.44	– –	– –
4824	DIP	16K (2K × 8) TIMEKEEPER® SRAM - 70ns, 5V +10%/-5%	M48T02-70PC1	975-5764●	16.04	13.77	12.83	12.60	10.99
4824	DIP	16K (2K × 8) TIMEKEEPER® SRAM, 200ns acc., Vpfd <4.75V	M48T02-200PC1	975-6515●	22.82	17.61	13.36	12.78	11.15
4824	DIP	16K (2K × 8) TIMEKEEPER® SRAM, 150ns acc	M48T02-150PC1	975-6388●	18.13	17.61	13.36	12.78	11.33
4828	DIP	64K (8K × 8) TIMEKEEPER® SRAM, 100ns acc	M48T08-100PC1	975-6396●	19.44	18.91	15.97	13.68	13.33
4828	DIP	64K (8K × 8) TIMEKEEPER® SRAM, 150ns acc., Vpfd <4.75V	M48T08-150PC	975-6540●	22.39	18.64	16.88	16.22	15.67
4828	SOH	64 KBit (8 Kb x 8) TIMEKEEPER® SRAM - 100ns, 5V.	M48T08Y-10MH1E	SMD 122-4443●	12.06	8.79	7.40	7.21	7.02
4824	DIP	16K (2K × 8) TIMEKEEPER® SRAM, 150ns acc., Vpfd <4.5V	M48T12-150PC1	975-6523●	20.07	17.61	13.36	12.78	12.04
4824	DIP	16K (2K × 8) TIMEKEEPER® SRAM, 200ns acc., Vpfd <4.5V	M48T12-200PC1	975-6531●	17.26	14.65	14.26	13.87	13.51
4824	PCDIP	16 KBit (2 Kb x 8) TIMEKEEPER® SRAM - 100ns, 5V.	M48T12-70PC1	122-4444●	9.67	7.92	7.08	6.90	6.72
4828	DIP	64K (8K × 8) TIMEKEEPER® SRAM, 100ns acc., Vpfd <4.5V	M48T18-100PC1	975-6558●	23.40	20.30	15.97	14.52	13.17
4828	DIP	64K (8K × 8) TIMEKEEPER® SRAM, 150ns acc., Vpfd <4.5V	M48T18-150PC	975-6566●	22.12	18.64	18.13	17.64	17.20
4828	DIP	SRAM Timekeeper. 64K (8K x 8bit)	M48T18-150PC1	146-7734●	18.23	– –	– –	– –	– –
4828	DIP	SRAM Timekeeper, 256K (32K x 8bit)	M48T35-70PC1	146-7735●	18.23	– –	– –	– –	– –
4828	PCDIP	NVRAM Timekeeper, CAPHAT	M48T35AV-10PC1	NEW 157-6955●	28.50	21.37	16.23	– –	– –
4828	SOIC	256k (32K × 8) TIMEKEEPER® SRAM-70ns, vpfd<4.5v	M48T35Y-70MH1E	SMD 988-2936●	11.93	9.94	9.01	8.67	8.40
4828	DIP	256K (32K × 8) TIMEKEEPER® SRAM, 70ns acc., Vpfd <4.5V	M48T35Y-70PC1	975-6574●	20.60	20.03	15.97	14.52	13.17
4844	SOIC	256K (32K × 8) TIMEKEEPER® SRAM - 70ns, 5V ±10%, Watchdog, Reset O/P, Alarms, Battery Low flag, Wake-up, Century register, (requires SNAPHAT® Battery & Crystal)	M48T37Y-70MH1E	SMD 988-2626●	12.46	10.20	8.01	7.80	7.60
4828	PCDIP	NVRAM Timekeeper, CAPHAT	M48T58-70PC1	NEW 157-6957●	16.61	13.62	12.49	– –	– –
4828	SOIC	64K (8K × 8) TIMEKEEPER® SRAM - 70ns, 5V ±10% (requires SNAPHAT® battery & crystal)	M48T58Y-70MH1E	SMD 988-2600●	6.97	6.06	5.49	– –	– –
4828	DIP	64K (8K × 8) TIMEKEEPER® SRAM - 70ns, 5V ±10%	M48T58Y-70PC1	975-5772●	16.04	12.64	10.22	9.95	9.69
4828	SOIC	64K (8K × 8) TIMEKEEPER® SRAM - 70ns, 5V ±10%, Watchdog, reset O/P, Alarms, Battery Low Flag, Wake-up (requires SNAPHAT® Battery & Crystal)	M48T59Y-70MH1E	SMD 988-2618●	8.67	7.10	5.78	5.62	5.49
4828	DIP	64K (8K × 8) TIMEKEEPER® SRAM - 70ns, 5V ±10%, Watchdog, reset O/P, Alarms, Battery Low Flag, Wake-up	M48T59Y-70PC1	975-5780●	15.06	14.64	14.24	13.87	13.51
4828	SOH	5V PC Real-time Clock, Drop-in replacement for PC Clock/Calendar, Pin and functionally compatible With DS128887, 1Kb (128bx8). Requires SNAPHAT® Battery & crystal.	M48T86MH1	SMD 334-2621▲	1.47	– –	– –	– –	– –
4828	DIP	5V PC Real-time Clock, Drop-in replacement for PC Clock/Calendar, Pin and functionally compatible With DS128887, 1Kb (128bx8). Requires SNAPHAT® Battery & crystal.	M48T86MH1E	SMD 988-2677●	3.40	2.53	2.32	2.26	2.20
4832	DIP	1M (128K × 8) TIMEKEEPER® SRAM - 70ns, 5V ±10% (integral Battery & Crystal)	M48T128Y-70PM1	975-5799●	40.15	38.25	28.75	26.14	23.70
4844	SOIC	3.3V Timekeeper® SRAM Supervisor	M48T201V-85MH1E	SMD 122-4445●	9.21	6.73	4.82	4.06	3.86
4844	SOIC	TIMEKEEPER® Controller for up to 8 x 512K LPSRAMs, 70ns, 5V ±10%,Watchdog, Reset O/P, Alarms, Battery Low flag, Square Wave O/P, Century register (requires SNAPHAT® Battery and Crystal)	M48T201Y-70MH1E	SMD 115-9688●	6.50	5.64	5.48	5.34	5.20
4832	DIP	4M (512K × 8) TIMEKEEPER® SRAM - 70ns, 5V ±10% (integral Battery & Crystal)	M48T512Y-70PM1	975-5802●	75.12	65.24	59.14	56.82	55.07
4824	DIP	16K (2K × 8) ZEROPower® SRAM - 150ns Access	M48Z02-150PC1	975-6400●	12.47	10.10	8.17	7.51	6.55
4824	DIP	16K (2K × 8) ZEROPower® SRAM - 200ns Access	M48Z02-200PC1	975-6582●	11.88	9.61	8.17	7.51	6.55
4824	DIP	16K (2K × 8) ZEROPower® SRAM - 70ns, 5V +10%/-5%	M48Z02-70PC1	975-5748●	12.47	10.10	7.97	7.51	6.55
4828	DIP	64K (8K × 8) ZEROPower® SRAM - 100ns Access VCC=4.75V to 5.5V	M48Z08-100PC1	975-6418●	16.98	14.24	11.76	11.24	9.76
4828	DIP	64K (8K × 8) ZEROPower® SRAM - 100ns Access VCC=4.5V to 5.5V	M48Z18-100PC1	975-6426●	16.98	14.24	11.76	11.24	9.76
4828	PCDIP	NVRAM Zeropower, CAPHAT	M48Z35AV-10PC1	NEW 157-6958●	11.81	9.69	7.39	– –	– –
4828	SOIC	256K (32K × 8) SNAPHAT® SRAM - 70ns, 5V ±10% (requires battery)	M48Z35Y-70MH1E	SMD 988-2588●	10.24	8.09	7.31	7.04	6.82
4828	DIP	256K (32K × 8) ZEROPower® SRAM - 70ns, 5V ±10%	M48Z35Y-70PC1	975-5756●	20.89	17.09	14.51	13.88	12.04
4828	PCDIP	NVRAM Zeropower, 256K	M48Z35-70PC1	146-7739●	16.73	– –	– –	– –	– –
4828	DIP	64K (8K × 8) ZEROPower® CMOS SRAM - 70ns Access, VPFD <4.75V	M48Z58-70PC1	975-6590●	13.89	11.69	9.65	9.23	8.01
4828	DIP	64K (8K × 8) ZEROPower® CMOS SRAM - 70ns Access, VPFD <4.5V	M48Z58Y-70PC1	975-6604●	10.30	8.12	7.49	7.29	7.10
4832	PMDIP	NVRAM Zeropower	M48Z128Y-70PM1	NEW 157-6956●	33.22	24.93	18.92	– –	– –
4824	PCDIP	16KB NVRAM, 5V	M48Z12-150PC1	NEW 160-7930●	12.09	7.35	5.79	– –	– –
4828	PCDIP	64K NVRAM Timekeeper	M48T08-150PC1	146-7733●	18.23	– –	– –	– –	– –
4832	DIP	1M (128K × 8) ZEROPower® SRAM - 70ns, 3.3V ±10%, Reset O/P, Battery Low O/P	M48Z129V-85PM1	109-4274●	28.85	24.00	21.43	20.60	19.96

Non-Volatile CMOS RAMs with Battery Back-Up

MAXIM

Non-Volatile CMOS RAMs with battery back-up giving data retention of over 10 years during the absence of power. The automatic write protection prevents data corruption during power fluctuations.

Directly replaces Static RAM, EPROM or EEPROM.

210505

Part No.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
1220	24	DIP	16K (2K × 8) NonVolatile CMOS RAM - 150ns Access	DS1220Y-150+	127-0392●	16.11	11.96	9.28
1220	24	DIP	16K (2K × 8) NonVolatile CMOS RAM - 200ns Access	DS1220Y-200+	128-5406●	13.37	9.49	7.99
1225	28	DIP	64K (8K × 8) NonVolatile CMOS RAM - 150ns Access	DS1225Y-150+	122-4208●	16.91	11.99	10.09
	28	DIP	64k Nonvolatile SRAM	DS1225AD-200+	137-9713●	17.58	11.29	6.61
1225	28	DIP	64K (8K × 8) NonVolatile CMOS RAM - 200ns Access	DS1225Y-200+	130-6330●	14.02	10.74	8.45
1230	28	DIP	256K (32K × 8) NonVolatile CMOS RAM - 200ns Access	DS1230Y-200+	130-6331●	18.54	11.92	10.21
1230	28	DIP	256K (32K × 8) NonVolatile CMOS RAM - 150ns Access	DS1230Y-150+	130-6335●	23.73	15.26	8.92
	28	DIP	64k NV SRAM with Phantom Clock	DS1243Y-120+	137-9805●	25.66	16.50	11.28
1230	28	DIP	256k Nonvolatile SRAM	DS1230Y-100+	137-9798●	18.54	11.92	10.21
1230	28	DIP	256k Nonvolatile SRAM	DS1230Y-120+	137-9799●	18.54	11.92	10.21
1230	28	DIP	256K (32K × 8) NonVolatile CMOS RAM - 150ns Access	DS1230Y-150	504-877▲	24.32	19.90	15.64
1245	32	DIP	1Mb (128K × 8) NonVolatile CMOS RAM - 120ns Access	DS1245Y-120+	128-5407●	33.36	21.45	12.55
1245	32	DIP	1Mb (128K × 8) NonVolatile CMOS RAM - 100ns Access	DS1245Y-100+	130-6329●	33.36	21.45	12.55
1312	8	SOIC	Non-Volatile Contoller With Battery Monitor	DS1312S-2+	NEW SMD 160-6345●	8.47	6.15	4.83
1314	8	SOIC	3V NVRAM Controller with Lithium Battery Monitor	DS1314S-2+	SMD 137-9755●	14.27	9.17	5.93
1642	24	DIP	16K (2K × 8) NonVolatile Timekeeping CMOS RAM - 100ns Access	DS1642-100+	130-6323●	21.44	13.78	9.41
1643	28	DIP	64K NVRAM	DS1643-100+	125-6272●	22.32	14.35	9.80
1644	28	DIP	256K (32K × 8) NonVolatile Timekeeping CMOS RAM - 120ns Access	DS1644-120+	122-4209●	26.04	16.74	11.44
1647	32	DIP	4M Nonvolatile Timekeeping RAM	DS1647-120+	137-9724●	37.00	29.04	19.83
9034	—	—	PowerCap without crystal, snapon lithium power source for NonVolatile Timekeeping RAMs,provides 10 year battery backup Compatible with DS1644/6 xxx PowerCap modules	DS9034PC	119-660	3.16	3.10	3.04

RL Re-reeling available

Farnell

Non-Volatile RAM & Memory Modules - continued

Non-Volatile RAMs

Each GR Series non-volatile RAM is a pin compatible drop-in replacement for a normal static RAM device. Data is protected by an automatic write inhibit function during power loss. The power down circuit is referenced at 4.5V. At this point the device is write protected and the memory contents are retained by the lithium power source. The rapid power down of 10µs and low standby power ensure no special considerations are required when using these devices. Data can be retained for up to 10 years.

The 'H' suffix indicates an extended temperature range of -40°C to +85°C.

222123

	Pins/ Package	Description	Mftrs. List No.	Order Code	Price Each 1+	5+	10+
281	24/DIP	16K (2K × 8) Non-Volatile RAM - equivalent 6116, 100ns	GR281	120-2099	16.27	14.08	12.33
881	28/DIP	64K (8K × 8) Non-Volatile RAM - equivalent 6264, 100ns	GR881	120-2100	20.09	16.22	13.61
881	28/DIP	64K (8K × 8) Non-Volatile RAM - equivalent 6264, 100ns	GR881-H	120-2103	26.09	21.75	17.07
3281	28/DIP	256K (32K × 8) Non-Volatile RAM - equivalent 62256, 100ns	GR3281	120-2101	37.51	27.29	21.44
3281	28/DIP	256K (32K × 8) Non-Volatile RAM - equivalent 62256, 70ns	GR3281-7	120-2105	33.39	27.76	23.26
3281	28/DIP	256K (32K × 8) Non-Volatile RAM - equivalent 62256, 100ns	GR3281-H	120-2104	37.27	33.54	30.19
12883	32/DIP	1Mb (128K × 8) Non-Volatile RAM - equivalent 628128, 100ns	GR12883	120-2102	49.51	42.00	39.30

Mémoire RAM statique Non-Volatile

These devices are fast Static Random Access Memory (SRAM) with a non-volatile element in each memory cell. The embedded non-volatile elements incorporate QuantumTrap™ technology producing the world's most reliable non-volatile memory.
The SRAM provides infinite read and write cycles, while independent, nonvolatile data resides in the non-volatile elements. Data transfers from the SRAM to the non-volatile elements takes place automatically at power down. On power up, data is restored to the SRAM from the non-volatile memory.

524635

Pkg	Pins	Memory Size	Memory Config	Access Time	Operating Temperature	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	+	+
256 Kbit												
SOIC	32	256Kbit	32K x 8bit	45	-40°C to +85°C	CY14B256L-SZ45XI	SMD 166-1361	16.49	10.98	9.16	– –	– –
SSOP	48	256Kbit	32K x 8bit	45	-40°C to +85°C	CY14B256K-SP45XI	SMD 166-1362	19.55	13.04	10.86	– –	– –
1 Mbit												
SOIC	32	1Mbit	128K x 8bit	35	0°C to +70°C	CY14B101L-SZ35XC	SMD 166-1356	26.55	17.71	14.74	– –	– –
SOIC	32	1Mbit	128K x 8bit	45	0°C to +70°C	CY14B101L-SZ45XC	SMD 166-1357	25.87	17.25	14.37	– –	– –
SSOP	48	1Mbit	128K x 8bit	45	-40°C to +85°C	CY14B101K-SP45XI	SMD 166-1359	30.20	20.13	16.78	– –	– –

FRAM

Ferroelectric RAM (FRAM) is a RAM based device that uses the ferroelectric effect for a storage mechanism. This is a completely different mechanism than the one used by other non-volatile memories, which use floating gate technology. The ferroelectric effect is the ability of a material to store an electric polarisation in the absence of an applied electric field. The advantage of using this technology is that devices can be produced as pin-for-pin replacements for current memory devices but with the following new features:

- Number of write cycles increased from 100,000 to 10,000,000,000 (10 billion)
- Write speed is the same as read speed (NoDelay™)
- Higher noise immunity as the data does not have to remain stable for the usual 10 milli-seconds write period.
- New PCB design is not necessary as the new parts are 'drop in' replacements.
- Can be used as RAM with the added advantage of being non-volatile (NV-RAM), battery back-up not being required.

227405

	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
Parallel								
4Kbit	8	SOIC	Serial FRAM - 400KHz Bus speed	FM24C04A-G	SMD 121-0785	0.88	0.80	0.72
16Kbit	8	SOIC	Serial FRAM - 400KHz Bus speed	FM24C16A-G	SMD 121-0787	1.29	1.15	1.06
16Kbit	8	SOIC	Serial FRAM SPI - 2.1MHz Bus speed	FM25C160-G	SMD 121-0789	1.29	1.15	1.06
64Kbit	28	SOIC	Parallel FRAM	FM1608-120-SG	SMD 120-2307	3.83	3.47	3.22
64Kbit	8	SOIC	Serial FRAM - 1MHz Bus speed	FM24C64-G	SMD 121-0788	2.07	1.91	1.72
64Kbit	8	SOIC	Serial FRAM SPI - 5MHz Bus speed	FM25640-G	SMD 121-0790	2.07	1.91	1.72
64Kbit	8	SOIC	64K (8192 x 8) Serial FRAM Memory, 1MHz Bus speed, I²C	FM24CL64-G	SMD 121-0795	2.33	2.14	1.95
64Kbit	8	SOIC	64K (8192 x 8) Serial FRAM Memory, High-speed, SPI	FM25CL64-G	SMD 121-0796	2.33	2.14	1.95
256Kbit	28	DIP	Parallel FRAM	FM1808-70-PG	121-0792	6.54	5.99	5.46
256Kbit	28	SOIC	Parallel FRAM	FM1808-70-SG	SMD 121-0793	6.54	5.99	5.46
256Kbit	28	SOIC	256K (32768 x 8) Parallel FRAM Memory, 70ns acc.	FM18L08-70-SG	SMD 121-0797	7.32	6.72	6.11
256Kbit	8	SOIC	256K (32768 x 8) Serial FRAM Memory	FM24C256-G	SMD 121-0799	6.89	6.32	5.75

Non-Volatile Static MRAM

The 1M & 4M bit magnetoresistive random access memory (MRAM) devices are organized as 65,536 & 262,144 words of 16 bits respectively. They are equipped with chip enable (E), write enable (W), and output enable (G) pins, allowing for significant system design flexibility without bus contention. Because of the separate byte-enable controls (LB and UB), individual bytes can be written and read. MRAM is a nonvolatile memory technology that protects data in the event of power loss and does not require periodic refreshing. Full nonvolatile operation with 20 years minimum data retention is possible. These devices are an ideal memory solution for applications that must permanently store and retrieve critical data quickly. The IC's requires a single 3.3V power supply.

495361

Pins/Pkg	Operating Temp.	Description	Mfrts. List No.	Order Code	Price Each 1+	10+	100+
44 / TSOP	-45°C to 85°C	1M (64K x 16-Bit) MRAM 35ns	MR0A16ACYS35	SMD 149-9761	19.25	15.90	13.88
44 / TSOP	-40°C to 105°C	1M (64K x 16-Bit) MRAM 35ns	MR0A16AVYS35	SMD 149-9763	25.65	21.19	18.50
44 / TSOP	0°C to 70°C	1M (64K x 16-Bit) MRAM 35ns	MR0A16AYS35	SMD 149-9764	9.62	7.94	6.94
44 / TSOP	-40°C to 85°C	4M (256K x 16-Bit) MRAM 35ns	MR2A16ACYS35	SMD 149-9758	25.65	21.19	18.50
44 / TSOP	-40°C to 105°C	4M (256K x 16-Bit) MRAM 35ns	MR2A16AVYS35	SMD 149-9760	24.05	19.86	17.34
44 / TSOP	0°C to 70°C	4M (256K x 16-Bit) MRAM 35ns	MR2A16AYS35	NEW SMD 160-5454	14.53	12.00	10.48

Dynamic RAMs

SDRAM



Micron has four generations of Single Data Rate (SDR) Synchronous DRAMs (SDRAMs) in full production. The SDRAM family consists of 64 Megabit (64Mb), 128Mb, 256Mb, and 512Mb devices. These devices are configured as quad-bank devices.Micron® SDRAM includes 64ms refresh and Self Refresh and operate with a fully synchronous interface at 3.3V.

339721

RL Re-reeling available

	Pins/Package	Description	Vcc = 3.3V ±	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
48LC16	54/TSOP	256M (4M x 16 x 4 banks) Synchronous DRAM, CL = 3, 5.4ns acc	0.3V	MT48LC16M16A2P-75:D	SMD 121-6280●	8.74	6.68	5.64
48LC16	54/TSOP	256M (4 M x 16 x 4 banks) Synchronous DRAM, CL = 2, 5.4ns acc	0.3V	MT48LC16M16A2P-7E:D	SMD 121-6281●	8.74	6.68	5.64
48LC2	86/TSOP	64MB (512K x 32 x 4 banks) Synchronous DRAM, CL = 3, 5.5ns acc	0.3V	MT48LC2M32B2P-6:G	SMD 121-6282●	5.16	3.95	3.33
48LC32	54/TSOP	256M (8M x 8 x 4 banks) Synchronous DRAM, CL = 2, 5.4ns acc	0.3V	MT48LC32M8A2P-7E:D	SMD 121-6283●	10.07	8.39	6.59
48LC8	54/TSOP	64MB (1M x 16 x 4 banks) Synchronous DRAM, CL = 2, 5.4ns acc	0.3V	MT48LC4M16A2P-7E:G:G	SMD 121-6285●	4.36	3.35	2.82
48LC4	86/TSOP	128MB (1M x 32 x 4 banks) Synchronous DRAM, CL = 3, 5.5ns acc	0.3V	MT48LC4M32B2P-6:G	SMD 121-6286●	8.74	6.68	5.64
48LC8	54/TSOP	128M (2M x 16 x 4 banks) Synchronous DRAM, CL = 3, 5.4ns acc	0.3V	MT48LC8M16A2P-75:G	SMD 121-6287●	7.16	5.47	4.61
48LC8	54/TSOP	128M (2M x 16 x 4 banks) Synchronous DRAM, CL = 2, 5.4ns acc	0.3V	MT48LC8M16A2P-7E:G	SMD 121-6288●	7.16	5.47	4.61

SDRAM

210889

1Mb	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
42S16100C1	ISSI	50	TSOP	SM SDRAM - 1Mb x 16, 3V, 143MHz	IS42S16100C1-7TL	SMD 127-1835●	2.81	2.61	2.54
4Mb									
42S16400D	ISSI	54	TSOP	SM SDRAM - 4Mb x 16, 3V, 143MHz	IS42S16400D-7TL	SMD 127-1836●	4.28	2.69	2.62
42S32800B	ISSI	86	TSOP	SM SDRAM - 8Mb x 32, 3V, 143MHz	IS42S32800B-7TL	SMD 127-1839●	15.20	9.13	7.69
42S16160B	ISSI	54	TSOP	SM SDRAM - 16Mb x 16, 3V, 143MHz	IS42S16160B-7TL	SMD 127-1838●	12.66	6.66	6.34

Mobile SDRAM

New

ESMT / EliteMT

516632

Pins	Pkg	Size	Configuration	V	Freq.	Temp	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
54	TSOPII	128Mbit	2M x 16bit x 4banks	1.8V	133MHz	0°C to +70°C	M52D128168A-7.5TG	SMD 162-3161●	3.56	2.97	2.23
54	FBGA	128Mbit	2M x 16bit x 4banks	1.8V	133MHz	0°C to +70°C	M52D128168A-7.5BG	SMD 162-3166●	3.77	3.14	2.36
90	VFBGA	32Mbit	512K x 32bit x 2banks	1.8V	166MHz	-40°C to +85°C	M52D32321A-7.5BIG	SMD 162-9123●	2.65	2.21	1.66
54	TSOPII	128Mbit	2M x 16bit x 4banks	2.5V	133MHz	0°C to +70°C	M52S128168A-7.5TG	SMD 162-3169●	3.77	3.14	2.36
54	FBGA	128Mbit	2M x 16bit x 4banks	2.5V	133MHz	0°C to +70°C	M52S128168A-7.5BG	SMD 162-3170●	3.97	3.31	2.48
90	FBGA	128Mbit	2M x 16bit x 4banks	2.5V	143MHz	0°C to +70°C	M52S128324A-7BG	SMD 162-3174●	5.22	4.35	3.26
90	VFBGA	32Mbit	512K x 32bit x 2banks	2.5V	166MHz	-40°C to +85°C	M52S32321A-6BIG	SMD 162-9122●	2.65	2.21	1.66

EPROMs, EEPROMs and FLASH Memory

210896

EPROMs and PROMs	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
48bit											
2502	MAX	3	TSOC	48-Bit Node Address Chip	DS2502P-E48+	NEW SMD 137-9833●	3.50	2.25	1.53	1.26	– –
64K											
27C64	ST	28	DIP	64K (8K × 8) EPROM - 100ns Access, 12.5V VPP	M27C64A-10F1	109-4265●	5.37	4.13	3.52	– –	– –
2506	MAX	8	SOIC	64kb Add-Only Memory.	DS2506S+	SMD 137-9749●	5.95	4.43	3.49	3.03	– –
256K											
256	ATM	32	PLCC	256K (32K × 8) CMOS OTP EPROM - 70ns Access	AT27C256R-70JU	SMD 109-5779●	1.93	1.63	1.39	1.22	1.09
256	ATM	28	DIP	256K (32K × 8) CMOS OTP EPROM - 70ns Access	AT27C256R-70PU	109-5781●	1.93	1.63	1.39	1.22	1.09
27C256	ST	28	DIP	256K (32K × 8) CMOS EPROM - 100ns Access, 12.75V VPP.	M27C256B-10F1.	302-5147▲	4.29	3.40	2.27	2.11	2.01
27C256	ST	28	DIP	256K (32K × 8) CMOS EPROM - 150ns Access, 12.75V VPP.	M27C256B-15F1	112-5431●	3.35	2.63	2.58	2.50	2.46
27C256	ST	28	DIP	256K (32K × 8) CMOS EPROM - 70ns Access, 12.75V VPP.	M27C256B-70XF1	597-454▲	4.20	3.26	2.99	2.61	2.42
512K											
27C512	ATM	32	PLCC	512Kb (64Kx8) OTP EPROM - 45ns Access	AT27C512R-45JU	SMD 145-5027●	2.92	2.32	1.67	1.47	1.28
27C512	ATM	32	PDIP	512Kb (64Kx8) OTP EPROM - 45ns Access	AT27C512R-45PU	145-5028●	2.47	1.97	1.41	1.23	1.07
27C512	ST	32	PLCC	512k (64K × 8) CMOS OTP PROM, 90ns Access, 12.75 V VPP	M27C512-90C1	SMD 121-8315●	3.39	2.39	1.79	– –	– –
27C512	ST	28	DIP	512k (64k × 8) CMOS EPROM 90ns Access, 12.75V VPP	M27C512-90F6	109-4264●	4.86	3.14	2.74	– –	– –
27C512	ST	28	DIP	512K (64K × 8) CMOS EPROM - 150ns Access, 12.75V VPP.	M27C512-15F1	394-713▲	3.09	2.56	2.25	2.18	2.10
1Mb											
27C010	ATM	32	PLCC	1Mb (128K × 8) OTP EPROM - 45ns Access	AT27C010-45JU	SMD 145-5018●	3.86	2.75	2.25	1.97	1.75
27C010	ATM	32	PDIP	1Mb (128K × 8) OTP EPROM - 45ns Access	AT27C010-45PU	145-5019●	3.55	2.75	2.04	1.80	1.54
27C1001	ST	32	DIP	1Mb (128K × 8) CMOS EPROM - 120ns Access, 12.75V VPP	M27C1001-12F1	113-2006●	7.30	5.10	4.06	3.66	3.20
27C1001	ST	32	DIP	1Mb (128K × 8) CMOS OTP PROM - 45ns Access, 12.75V VPP.	M27C1001-45F1	113-2008●	6.39	5.13	4.66	4.54	4.34
27C1001	ST	32	FDIPW	1Mb (128K × 8) CMOS EPROM - 35ns Access	M27C1001-15F1	133-4080●	3.74	2.88	2.38	2.31	2.25
27W101	ST	32	PLCC	1Mb (128K × 8) CMOS OTP PROM - 80ns Access, Low Voltage	M27W101-80K6	SMD 109-4271●	4.09	2.74	2.22	– –	– –
2Mb											
020	ATM	32	PLCC	2M (256K × 8) CMOS OTP EPROM - 90ns Access	AT27C020-90JU	SMD 109-5776●	3.59	2.98	2.54	2.23	2.03
020	ATM	32	DIP	2M (256K × 8) CMOS OTP EPROM - 90ns Access	AT27C020-90PU	109-5777●	3.75	3.11	2.54	2.22	2.02
27C020	ATM	32	PLCC	2Mb (256K × 8) OTP EPROM - 55ns Access	AT27C020-55JU	SMD 145-5020●	4.27	3.36	2.46	2.13	1.85
27C020	ATM	32	PDIP	2Mb (256K × 8) OTP EPROM - 55ns Access	AT27C020-55PU	145-5021●	4.27	3.36	2.46	2.13	1.85
27C2001	ST	32	FDIPW	2Mb (256K × 8) CMOS EPROM - 55ns Access	M27C2001-10F1	133-4081●	6.26	6.10	5.45	4.84	4.24
4Mb											
27C040	ATM	32	PLCC	4Mb (512K × 8) OTP EPROM - 70ns Access	AT27C040-70JU	SMD 145-5022●	4.89	3.92	2.81	2.46	2.13
27C040	ATM	32	PDIP	4Mb (512K × 8) OTP EPROM - 70ns Access	AT27C040-70PU	145-5024●	4.89	3.92	2.81	2.46	2.13
27C4001	ST	32	PLCC	4Mb (512K × 8) CMOS OTP PROM - 100ns Access, 12.75V VPP.	M27C4001-10C1	SMD 109-4260●	12.18	10.60	9.23	8.03	4.43
27C4001	ST	32	DIP	4Mb (512K × 8) CMOS EPROM - 150ns Access, 12.75V VPP	M27C4001-15F1	113-2004●	13.04	9.11	6.81	6.26	5.46
27C4001	ST	32	FDIPW	4Mb (512K × 8) CMOS EPROM - 35ns Access	M27C4001-10F1	133-4082●	9.83	7.02	6.12	5.63	4.90
27C4001	ST	32	FDIPW	4Mb (512Kb x 8) UV EPROM and OTP EPROM - 120ns Access, 12.75V VPP.	M27C4001-12F1	137-6969●	7.70	6.94	6.12	4.94	4.51
27C4002	ST	40	DIP	4Mb (256K × 16) CMOS EPROM - 100ns Access, 12.75V VPP	M27C4002-10F1	688-599▲	13.14	10.59	9.43	8.04	7.95
27C4002	ST	40	DIP	4Mb (256K × 16) CMOS EPROM - 120ns Access, 12.75V VPP	M27C4002-12F1	113-2009●	12.17	10.53	8.25	7.98	7.63
27C4002	ST	40	DIP	4Mb (256K × 16) CMOS EPROM - 80ns Access, 12.75V VPP	M27C4002-80XF1	597-491▲	14.54	9.55	7.64	6.42	6.02
27C4002	ST	40	DIP	4Mb (256K × 16) CMOS EPROM - 45ns Access	M27C4002-45XF1	113-2002●	11.32	10.53	9.85	– –	– –
8Mb											
27C801	ST	32	DIP	8Mb (1M × 8) CMOS OTP PROM - 100ns Access, 12.75V VPP	M27C801-100B1	109-4266●	8.52	6.77	5.22	4.80	4.18
27C801	ST	32	DIP	8Mb (1M × 8) CMOS EPROM - 100ns Access, 12.75V VPP	M27C801-100F1	113-2007●	12.16	9.17	7.08	6.51	5.67
27C080	ATM	32	PLCC	8Mb (1M × 8) OTP EPROM - 90ns Access	AT27C080-90JU	SMD 145-5025●	13.39	8.87	7.26	6.36	5.53
27C080	ATM	32	PDIP	8Mb (1M × 8) OTP EPROM - 90ns Access	AT27C080-90PU	145-5026●	13.58	10.86	7.76	6.80	5.91

RL Re-reeling available

EPROMs, EEPROMs and FLASH Memory - continued



Half full waffle trays!

Components ready to pick and place in original manufacturer waffle tray packaging - at half full quantities!

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See our range of **Programmers** and **Erasers** on page 123

FRAMs

FUJITSU

- The memory cells used for the MB85R256 and MB85R100x significantly outperform FLASH memory and EEPROM in durability.
- The MB85R100x uses a pseudo-SRAM interface that is compatible with conventional asynchronous SRAM.

494303

	Memory Size	Memory Config	Pins/Pkg	Operating Voltage (V)	Operating Temp (°C)	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
85RS256	256Kbit	32K x 8bit	8/SOP	3 to 3.6	-20 to +85	MB85RS256PNF-G-JNE1	SMD 136-6951	6.49	5.63	4.98	4.45	4.10
85RS256	256Kbit	32K x 8bit	28/TSOP	3 to 3.6	-40 to +85	MB85R256PFTN-G-BNDE1	SMD 136-6952	8.51	7.40	6.54	5.86	5.39
85RS256	256Kbit	32K x 8bit	28/SOP	2.7 to 3.6	-40°C to +85°C	MB85R256HPF-G-BNDAE1	NEW SMD 167-4631	8.76	7.61	6.73	6.03	5.54
85R1001	1Mbit	128K x 8bit	48/TSOP	3 to 3.6	-20 to +85	MB85R1001PFTN-GE1	SMD 136-6953	13.18	11.46	10.14	9.09	8.34
85R1002	1Mbit	64K x 16bit	48/TSOP	3 to 3.6	-20 to +85	MB85R1002PFTN-GE1	SMD 136-6954	19.51	16.96	15.01	13.45	12.35
85R2001	2Mbit	256K x 8bit	48/RSOP	3 to 3.6	-20°C to +85°C	MB85R2001PFTN-GE1	NEW SMD 167-4632	29.23	26.31	21.92	18.79	17.08
85R2002	2Mbit	128K x 16bit	48/TSOP	3 to 3.6	-20°C to +85°C	MB85R2002PFTN-GE1	NEW SMD 167-4633	29.23	26.31	21.92	18.79	17.08

EEPROM - Parallel Interface

ATMEL CATALYST SEMICONDUCTOR, INC. RENESAS

523156

	Mftr.	Pkg	Pins	Memory Size	Memory Config	Operating Voltage (V)	Operating Temp (°C)	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
64 Kb														
28C64	ATM	PLCC	32	64Kbit	8K x 8bit	4.5 to 5.5	-40 to +85	AT28C64B-15JU	SMD 109-5783	3.55	2.54	2.18	1.89	1.66
28C64	ATM	DIP	28	64Kbit	8K x 8bit	4.5 to 5.5	-40 to +85	AT28C64B-15PU	109-5784	3.55	2.54	2.18	1.89	1.66
28C64	ATM	DIP	28	64Kbit	8K x 8bit	4.5 to 5.5	-40 to +85	AT28C64B-15PU	NEW 152-3792	35.71	30.64	26.57	23.35	– –
28C64	CAT	DIP	28	64Kbit	8K x 8bit	4.5 to 5.5	0 to +70	CAT28C64BL12	139-0720	3.88	3.55	3.24	– –	– –
28C64	CAT	PDIP	28	64Kbit	8K x 8bit	4.5 to 5.5	0 to +70	CAT28C64BL-12	NEW SMD 163-1144	2.66	2.13	1.41	1.24	1.06
256 Kb														
28C256	ATM	DIP	28	256Kbit	32K x 8bit	4.5 to 5.5	-40 to +85	AT28C256-15PU	109-5782	6.06	3.91	3.38	2.93	2.54
28C256	ATM	PLCC	32	256Kbit	32K x 8bit	4.5 to 5.5	-40 to +85	AT28C256-15JU	SMD 145-5030	4.75	3.36	2.89	2.79	2.73
28C256	ATM	DIP	28	256Kbit	32K x 8bit	4.5 to 5.5	-40 to +85	AT28C256-15PU	NEW 152-3791	57.04	49.41	42.81	37.06	– –
28C256	CAT	PDIP	28	256Kbit	32K x 8bit	4.5 to 5.5	0 to +70	CAT28C256BL-12	NEW SMD 163-1145	5.03	4.03	2.66	2.35	2.02
58C256	REN	DIP	28	256Kbit	32K x 8bit	4.5 to 5.5	0 to +70	HN58C256AP85E	149-6447	12.00	9.60	8.41	– –	– –
58C256	REN	SOIC	28	256Kbit	32K x 8bit	4.5 to 5.5	0 to +70	HN58C256AFP10-E	SMD 119-3610	14.80	10.58	8.65	6.61	– –
1 Mb														
28C010	ATM	PLCC	32	1Mbit	128K x 8bit	4.5 to 5.5	-40 to +85	AT28C010-12JU	SMD 145-5029	28.15	18.79	15.77	14.97	13.88

EEPROM - Serial 1 Wire Interface

MAXIM

523157

	Mftr.	Pkg	Pins	Memory Size	Memory Config	Operating Voltage (V)	Operating Temp (°C)	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
256bit														
2430	MAX	TO-92	32	256bit	32 x 8bit	2.8 to 6	-40 to +85	DS2430A+	972-4834	3.02	1.94	1.33	– –	– –
2430	MAX	TSOC	6	256bit	32 x 8bit	2.8 to 6	-40 to +85	DS2430AP+	NEW SMD 137-9764	3.13	2.02	1.38	1.16	– –
1 Kb														
DS2431	MAX	TO-92	28	1Kbit	256 x 4bit	2.8 to 5.25	-40 to +85	DS2431+	NEW 160-6350	1.16	0.84	0.66	0.61	0.60
DS2431	MAX	TSOC	6	1Kbit	256 x 4bit	2.8 to 5.25	-40 to +85	DS2431P+	NEW SMD 160-6351	1.16	0.84	0.66	0.61	0.60
4 Kb														
2433	MAX	SOIC	8	4Kbit	256 x 16bit	2.8 to 6	-40 to +85	DS2433S+	SMD 972-4869	3.55	2.91	2.64	– –	– –
2433	MAX	TO-92	3	4Kbit	256 x 16bit	2.8 to 6	-40 to +85	DS2433+	118-7949	4.75	3.05	2.08	– –	– –

UNI/O EEPROM

1-Wire Interface

MICROCHIP

These devices support the single I/O UNI/O™ serial bus. By using Manchester encoding techniques, the clock and data are combined into a single, serial bit stream (SCIO), where the clock signal is extracted by the receiver to correctly decode the timing and value of each bit.

New

Low-voltage design permits operation down to 1.8V (for 11AAXXX devices), with standby and active currents of only 1 uA and 1 mA, respectively.

508741

	Mftr.	Pkg / Pins	Memory Size	Memory Config	Operating Voltage (V)	Operating Temp (°C)	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	+	+
1 kb													
11LC010	MCHIP	SOT-23	1Kbit	128bit x 8	2.5 to 5.5	-40 to 85	11LC010T-I/TT	SMD 157-8278	0.41	0.26	0.18	– –	– –
11LC010	MCHIP	PDIP	1Kbit	128bit x 8	2.5 to 5.5	-40 to 85	11LC010-I/P	157-8279	0.45	0.29	0.20	– –	– –
11LC010	MCHIP	SOIC	1Kbit	128bit x 8	2.5 to 5.5	-40 to 85	11LC010-I/SN	SMD 157-8280	0.43	0.27	0.19	– –	– –
11AA010	MCHIP	SOIC	1Kbit	128 x 8bit	2.5 to 5.5	-40 to +85	11LC010T-I/MNY	SMD 167-0436	0.55	0.35	0.25	– –	– –
11AA010	MCHIP	SOT-23	1Kbit	128 x 8bit	1.8 to 5.5	-40 to 85	11AA010T-I/TT	SMD 157-8281	0.41	0.26	0.18	– –	– –
11AA010	MCHIP	PDIP	1Kbit	128 x 8bit	1.8 to 5.5	-40 to 85	11AA010-I/P	157-8282	0.45	0.29	0.20	– –	– –
11AA010	MCHIP	SOIC	1Kbit	128 x 8bit	1.8 to 5.5	-40 to 85	11AA010-I/SN	SMD 157-8283	0.43	0.27	0.19	– –	– –
11AA010	MCHIP	SOIC	1Kbit	128 x 8bit	1.8 to 5.5	-40 to +85	11AA010T-I/MNY	SMD 167-0434	0.55	0.35	0.25	– –	– –

	Mftr.	Pkg / Pins	Memory Size	Memory Config	Operating Voltage (V)	Operating Temp (°C)	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	+	+
2 kb													
11LC020	MCHIP	SOT-23	2Kbit	256 x 8bit	2.5 to 5.5	-40 to 85	11LC020T-I/TT	SMD 157-8284	0.43	0.27	0.19	– –	– –
11LC020	MCHIP	PDIP	2Kbit	256 x 8bit	2.5 to 5.5	-40 to 85	11LC020-I/P	157-8286	0.49	0.31	0.22	– –	– –
11LC020	MCHIP	SOIC	2Kbit	256 x 8bit	2.5 to 5.5	-40 to 85	11LC020-I/SN	SMD 157-8287	0.45	0.29	0.20	– –	– –
11AA020	MCHIP	SOIC	2Kbit	128 x 8bit	2.5 to 5.5	-40 to +85	11LC020T-I/MNY	SMD 167-0437	0.57	0.36	0.26	– –	– –
11AA020	MCHIP	SOT-23	2Kbit	256 x 8bit	1.8 to 5.5	-40 to 85	11AA020T-I/TT	SMD 157-8288	0.43	0.27	0.19	– –	– –
11AA020	MCHIP	PDIP	2Kbit	256 x 8bit	1.8 to 5.5	-40 to 85	11AA020-I/P	157-8289	0.49	0.31	0.22	– –	– –
11AA020	MCHIP	SOIC	2Kbit	256 x 8bit	1.8 to 5.5	-40 to 85	11AA020-I/SN	SMD 157-8290	0.45	0.29	0.20	– –	– –
11AA020	MCHIP	SOIC	2Kbit	128 x 8bit	1.8 to 5.5	-40 to +85	11AA020T-I/MNY	SMD 167-0435	0.57	0.36	0.26	– –	– –
4 kb													
11LC040	MCHIP	SOT-23	4Kbit	512 x 8bit	2.5 to 5.5	-40 to 85	11LC040T-I/TT	SMD 157-8291	0.45	0.29	0.20	– –	– –
11LC040	MCHIP	PDIP	4Kbit	512 x 8bit	2.5 to 5.5	-40 to 85	11LC040-I/P	157-8292	0.51	0.33	0.23	– –	– –
11LC040	MCHIP	SOIC	4Kbit	512 x 8bit	2.5 to 5.5	-40 to 85	11LC040-I/SN	SMD 157-8293	0.49	0.31	0.22	– –	– –
11AA040T	MCHIP	TDFN	4Kbit	512 x 8bit	2.5 to 5.5	-40 to +85	11LC040T-I/MNY	SMD 165-9725 RL	0.59	0.38	0.27	– –	– –
11AA040	MCHIP	SOT-23	4Kbit	512 x 8bit	1.8 to 5.5	-40 to 85	11AA040T-I/TT	SMD 157-8294	0.45	0.29	0.20	– –	– –
11AA040	MCHIP	PDIP	4Kbit	512 x 8bit	1.8 to 5.5	-40 to 85	11AA040-I/P	157-8295	0.51	0.33	0.23	– –	– –
11AA040	MCHIP	SOIC	4Kbit	512 x 8bit	1.8 to 5.5	-40 to 85	11AA040-I/SN	SMD 157-8296	0.49	0.31	0.22	– –	– –
11AA040T	MCHIP	TDFN	4Kbit	512 x 8bit	1.8 to 5.5	-40 to +85	11AA040T-I/MNY	SMD 165-9723 RL	0.59	0.38	0.27	– –	– –
8 kb													
11LC080	MCHIP	SOT-23	8Kbit	1K x 8bit	2.5 to 5.5	-40 to 85	11LC080T-I/TT	SMD 157-8298	0.51	0.33	0.23	– –	– –
11LC080	MCHIP	PDIP	8Kbit	1K x 8bit	2.5 to 5.5	-40 to 85	11LC080-I/P	157-8299	0.57	0.36	0.26	– –	– –
11LC080	MCHIP	SOIC	8Kbit	1K x 8bit	2.5 to 5.5	-40 to 85	11LC080-I/SN	SMD 157-8301	0.55	0.35	0.25	– –	– –
11AA080T	MCHIP	TDFN	8Kbit	1024 x 8bit	2.5 to 5.5	-40 to +85	11LC080T-I/MNY	SMD 165-9726 RL	0.65	0.42	0.29	– –	– –
11AA080	MCHIP	SOT-23	8Kbit	1K x 8bit	1.8 to 5.5	-40 to 85	11AA080T-I/TT	SMD 157-8302	0.51	0.33	0.23	– –	– –
11AA080	MCHIP	PDIP	8Kbit	1K x 8bit	1.8 to 5.5	-40 to 85	11AA080-I/P	157-8304	0.57	0.36	0.26	– –	– –
11AA080	MCHIP	SOIC	8Kbit	1K x 8bit	1.8 to 5.5	-40 to 85	11AA080-I/SN	SMD 157-8305	0.55	0.35	0.25	– –	– –
11AA080T	MCHIP	TDFN	8Kbit	1024 x 8bit	1.8 to 5.5	-40 to +85	11AA080T-I/MNY	SMD 165-9724 RL	0.65	0.42	0.29	– –	– –
16 kb													
11LC160	MCHIP	SOT-23	16Kbit	2K x 8bit	2.5 to 5.5	-40 to 85	11LC160T-I/TT	SMD 157-8306	0.57	0.36	0.26	– –	– –
11LC160	MCHIP	PDIP	16Kbit	2K x 8bit	2.5 to 5.5	-40 to 85	11LC160-I/P	157-8307	0.63	0.40	0.28	– –	– –
11LC160	MCHIP	SOIC	16Kbit	2K x 8bit	2.5 to 5.5	-40 to 85	11LC160-I/SN	SMD 157-8308	0.59	0.38	0.27	– –	– –
11AA160	MCHIP	SOT-23	16Kbit	2K x 8bit	1.8 to 5.5	-40 to 85	11AA160T-I/TT	SMD 157-8309	0.57	0.36	0.26	– –	– –
11AA160	MCHIP	PDIP	16Kbit	2K x 8bit	1.8 to 5.5	-40 to 85	11AA160-I/P	157-8310	0.63	0.40	0.28	– –	– –
11AA160	MCHIP	SOIC	16Kbit	2K x 8bit	1.8 to 5.5	-40 to 85	11AA160-I/SN	SMD 157-8311	0.59	0.38	0.27	– –	– –

EEPROM - I²C Serial with Half-Array Write Protect

MICROCHIP

New

These devices are 1 Kbit and 2 Kbit I²C serial Electrically Erasable Programmable Read Only Memory (EEPROM). They are of low current design and feature hardware write protection for half array.

524520

Pkg	Pins	Memory Size	Memory Config	Operating Voltage	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	+	+
1K											
MSOP	8	1Kbit	128 x 8-bit	1.7V to5.5V	24AA014H-I/MS	SMD 165-9727	0.45	0.29	0.20	– –	– –
PDIP	8	1Kbit	128 x 8-bit	1.7V to5.5V	24AA014H-I/P	165-9729	0.43	0.27	0.19	– –	– –
SOIC	8	1Kbit	128 x 8-bit	1.7V to5.5V	24AA014H-I/SN	SMD 165-9731	0.41	0.26	0.18	– –	– –
TSSOP	8	1Kbit	128 x 8-bit	1.7V to5.5V	24AA014H-I/ST	SMD 165-9732	0.45	0.29	0.20	– –	– –
MSOP	8	1Kbit	128 x 8-bit	2.5V to5.5V	24LC014H-I/MS	SMD 165-9737	0.45	0.29	0.20	– –	– –
PDIP	8	1Kbit	128 x 8-bit	2.5V to5.5V	24LC014H-I/P	165-9738	0.43	0.27	0.19	– –	– –
SOIC	8	1Kbit	128 x 8-bit	2.5V to5.5V	24LC014H-I/SN	SMD 165-9739	0.41	0.26	0.18	– –	– –
TSSOP	8	1Kbit	128 x 8-bit	2.5V to5.5V	24LC014H-I/ST	SMD 165-9740	0.45	0.29	0.20	– –	– –
2K											
MSOP	8	2Kbit	256 x 8-bit	1.7V to5.5V	24AA024H-I/MS	SMD 165-9733	0.51	0.33	0.23	– –	– –
PDIP	8	2Kbit	256 x 8-bit	1.7V to5.5V	24AA024H-I/P	165-9734	0.49	0.31	0.22	– –	– –
SOIC	8	2Kbit	256 x 8-bit	1.7V to5.5V	24AA024H-I/SN	SMD 165-9735	0.45	0.29	0.20	– –	– –
TSSOP	8	2Kbit	256 x 8-bit	1.7V to5.5V	24AA024H-I/ST	SMD 165-9736	0.51	0.33	0.23	– –	– –
MSOP	8	2Kbit	256 x 8-bit	2.5V to5.5V	24LC024H-I/MS	SMD 165-9742	0.51	0.33	0.23	– –	– –
PDIP	8	2Kbit	256 x 8-bit	2.5V to5.5V	24LC024H-I/P	165-9743	0.49	0.31	0.22	– –	– –
SOIC	8	2Kbit	256 x 8-bit	2.5V to5.5V	24LC024H-I/SN	SMD 165-9744	0.45	0.29	0.20	– –	– –
TSSOP	8	2Kbit	256 x 8-bit	2.5V to5.5V	24LC024H-I/ST	SMD 165-9745	0.51	0.33	0.23	– –	– –

EUI-48™ MAC Address Pre-Programmed Serial EEPROM

New

MICROCHIP

These devices are serial EEPROMs that come pre-programmed with unique EUI-48™ MAC addresses. The code is write-protected to ensure that they cannot be modified. These devices also come with scratch-pad EEPROM memory to help store configuration data or store small amounts of memory. Finally, the EUI-48™ code is also EUI-64™ compatible.

528647

Pkg	Pins	Memory Size	Memory Config	Operating Voltage	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	+	+
SOT-23	5	2Kbit	128 x 8-bit	1.7V to5.5V	24AA02E48T-I/OT	SMD 168-8855 RL	0.340	0.220	0.155	– –	– –
SOIC	8	2Kbit	128 x 8-bit	1.7V to5.5V	24AA02E48-I/SN	SMD 168-8857	0.340	0.220	0.155	– –	– –

EEPROM - I²C

ATMEL CATALYST SEMICONDUCTOR, INC. HOLTEK MICROCHIP NXP founded by Philips ROHM SEMICONDUCTOR SII

523182

	Mftr.	Pkg / Pins	Pins	Memory Size	Memory Config	Operating Voltage (V)	Operating Temp (°C)	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
128 b														
24AA00	MCHIP	SOIC	8	128bit	16 x 8bit	1.8 to 5.5	-40 to +85	24AA00-I/SN	SMD 133-1263	0.290	0.180	0.120	– –	– –
24AA00	MCHIP	SOT-23	5	128bit	16 x 8bit	1.8 to 5.5	-40 to +85	24AA00T-I/OT	SMD 133-1264	0.290	0.180	0.120	– –	– –
24LC00	MCHIP	DIP	8	128bit	16 x 8bit	2.5 to 5.5	0 to +70	24LC00/P	975-7856	0.310	0.190	0.130	– –	– –
24LC00	MCHIP	SOT-23	5	128bit	16 x 8bit	2.5 to 5.5	-40 to +85	24LC00T-I/OT	SMD 975-7864	0.240	0.150	0.110	– –	– –
24LC00	MCHIP	SOIC	8	128bit	16 x 8bit	2.5 to 5.5	-40 to +85	24LC00/SN	SMD 113-7303	0.290	0.180	0.120	– –	– –
24LC00	MCHIP	PDIP	8	128bit	16 x 8bit	2.5 to 5.5	-40 to +85	24LC00-I/P	133-1308	0.310	0.190	0.130	– –	– –
24LC00	MCHIP	SOIC	8	128bit	16 x 8bit	2.5 to 5.5	-40 to +85	24LC00-I/SN	SMD 133-1311	0.290	0.180	0.120	– –	– –

RL Re-reeling available

Farnell

EPROMs, EEPROMs and FLASH Memory - continued

EEPROM - I²C - continued

	Mftr.	Pkg / Pins	Pins	Memory Size	Memory Config	Operating Voltage (V)	Operating Temp (°C)	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
1 Kb														
24AA1025	MCHIP	SOIC	8	1Kbit	128 x 8bit	1.7 to 5.5	-40 to +85	24AA1025-I/SM	SMD 157-9569	5.460	3.470	2.450	– –	– –
24AA01	MCHIP	MSOP	8	1Kbit	128 x 8bit	1.8 to 5.5	-40 to +85	24AA01-I/MS	SMD 133-1265	0.370	0.230	0.160	– –	– –
24AA01	MCHIP	PDIP	8	1Kbit	128 x 8bit	1.8 to 5.5	-40 to +85	24AA01-I/P	133-1266	0.350	0.220	0.150	– –	– –
24AA01	MCHIP	SOIC	8	1Kbit	128 x 8bit	1.8 to 5.5	-40 to +85	24AA01-I/SN	SMD 133-1268	0.310	0.190	0.130	– –	– –
24AA01	MCHIP	SOT-23	5	1Kbit	128 x 8bit	1.8 to 5.5	-40 to +85	24AA01T-I/OT	SMD 133-1269	0.310	0.190	0.130	– –	– –
24C01	ATM	DIP	8	1Kbit	128 x 8bit	1.8 to 5.5	-40 to +85	AT24C01B-PU	136-2637	0.300	0.197	0.160	0.137	– –
24C01	ATM	SOIC	8	1Kbit	128 x 8bit	1.8 to 5.5	-40 to +85	AT24C01BN-SH-B	SMD 136-2638	0.230	0.190	0.167	0.148	– –
24CS01	SEI	SOP	8	1Kbit	128 x 8bit	1.8 to 5.5	-40 to +85	S-24CS01AFJ-TB-G	NEW SMD 160-6973 RL	1.100	0.920	0.800	0.690	– –
24L01	ROHM	SOP-J	8	1Kbit	128 x 8bit	1.8 to 5.5	-40 to +85	BR24L01AFJ-WE2	NEW SMD 162-0316 RL	0.300	0.220	0.146	0.128	0.110
24L01	ROHM	SSOP	8	1Kbit	128 x 8bit	1.8 to 5.5	-40 to +85	BR24L01AFV-WE2	NEW SMD 162-0317 RL	0.280	0.200	0.134	0.119	0.101
24L01	ROHM	SOP	8	1Kbit	128 x 8bit	1.8 to 5.5	-40 to +85	BR24L01AF-WE2	NEW SMD 162-0318 RL	0.260	0.186	0.123	0.109	0.093
24LC01	MCHIP	SOIC	8	1Kbit	128 x 8bit	2.5 to 5.5	0 to +70	24LC01B/SN	SMD 975-7872	0.310	0.190	0.130	– –	– –
24LC01	MCHIP	SOT-23	5	1Kbit	128 x 8bit	2.5 to 5.5	-40 to +85	24LC01BT-I/OT	SMD 975-7880	0.310	0.190	0.130	– –	– –
24C01	ST	DIP	8	1Kbit	128 x 8bit	2.5 to 5.5	-40 to +85	M24C01-WBN6P	988-2782	0.440	0.330	0.230	– –	– –
24C01	ST	SOIC	8	1Kbit	128 x 8bit	2.5 to 5.5	-40 to +85	M24C01-WMN6P	SMD 988-2790	0.430	0.310	0.220	– –	– –
24LC01	MCHIP	DIP	8	1Kbit	128 x 8bit	2.5 to 5.5	0 to +70	24LC01B/P	120-0025	0.350	0.220	0.150	– –	– –
24LC01	MCHIP	SOIC	8	1Kbit	128 x 8bit	2.5 to 5.5	-40 to +85	24LC01B-I/SN	SMD 129-6569	0.310	0.190	0.130	– –	– –
24LC014	MCHIP	MSOP	8	1Kbit	128 x 8bit	2.5 to 5.5	-40 to +85	24LC014-I/MS	SMD 133-1312	0.450	0.290	0.200	– –	– –
24LC014	MCHIP	PDIP	8	1Kbit	128 x 8bit	2.5 to 5.5	-40 to +85	24LC014-I/P	133-1313	0.430	0.270	0.190	– –	– –
24LC014	MCHIP	SOIC	8	1Kbit	128 x 8bit	2.5 to 5.5	-40 to +85	24LC014-I/SN	SMD 133-1314	0.410	0.260	0.180	– –	– –
24LC01	MCHIP	MSOP	8	1Kbit	128 x 8bit	2.5 to 5.5	-40 to +85	24LC01B-I/MS	SMD 133-1315	0.370	0.230	0.160	– –	– –
24LC01	MCHIP	PDIP	8	1Kbit	128 x 8bit	2.5 to 5.5	-40 to +85	24LC01B-I/P	NEW 155-6159	0.350	0.220	0.150	– –	– –
2 Kb														
34L02	ROHM	SSOP	8	2Kbit	256 x 8bit	1.7 to 5.5	-40 to +85	BR34L02FV-WE2	NEW SMD 151-2680 RL	0.260	0.230	0.176	0.116	0.104
3400	ROHM	TSSOP	8	2Kbit	256 x 8bit	1.7 to 3.6	-40 to +85	BR34E02FVT-WE2	NEW SMD 151-2681 RL	0.410	0.350	0.280	0.220	0.186
24L02	ROHM	MSOP	8	2Kbit	256 x 8bit	1.7 to 5.5	-40 to +85	BR24L02FVM-WTR	NEW SMD 162-0321 RL	0.300	0.220	0.146	0.128	0.110
24L02	ROHM	SSOP	8	2Kbit	256 x 8bit	1.7 to 5.5	-40 to +85	BR24L02FV-WE2	NEW SMD 162-0322 RL	0.260	0.186	0.123	0.109	0.093
24L02	ROHM	SOP	8	2Kbit	256 x 8bit	1.7 to 5.5	-40 to +85	BR24L02F-WE2	NEW SMD 162-0323 RL	0.280	0.200	0.134	0.119	0.101
24C02	CAT	SOIC	8	2Kbit	256 x 8bit	1.7 to 5.5	-40 to +85	CAT24C02WI-G	NEW SMD 163-1134	0.280	0.230	0.147	0.135	0.113
24AA02	MCHIP	MSOP	8	2Kbit	256 x 8bit	1.8 to 5.5	-40 to +85	24AA02-I/MS	SMD 133-1270	0.410	0.260	0.180	– –	– –
24AA02	MCHIP	PDIP	8	2Kbit	256 x 8bit	1.8 to 5.5	-40 to +85	24AA02-I/P	133-1271	0.370	0.230	0.160	– –	– –
24AA02	MCHIP	SOIC	8	2Kbit	256 x 8bit	1.8 to 5.5	-40 to +85	24AA02-I/SN	SMD 133-1272	0.350	0.220	0.150	– –	– –
24AA02	MCHIP	SOT-23	5	2Kbit	256 x 8bit	1.8 to 5.5	-40 to +85	24AA02T-I/OT	SMD 133-1273	0.350	0.220	0.150	– –	– –
24C02	ATM	DIP	8	2Kbit	256 x 8bit	1.8 to 5.5	-40 to +85	AT24C02B-PU	136-2639	0.260	0.220	0.196	0.178	– –
24HC02	ATM	DIP	8	2Kbit	256 x 8bit	1.8 to 5.5	-40 to +85	AT24HC02B-PU	136-2640	0.260	0.220	0.197	0.179	0.172
24C02	ATM	SOIC	8	2Kbit	256 x 8bit	1.8 to 5.5	-40 to +85	AT24C02BN-SH-B	SMD 145-5010	0.300	0.240	0.200	0.189	0.170
24CS02	SEI	SOP	8	2Kbit	256 x 8bit	1.8 to 5.5	-40 to +85	S-24CS02AFJ-TB-G	NEW SMD 160-6974 RL	1.210	1.010	0.870	0.760	– –
24C02	ST	DFN	8	2Kbit	256K x 8bit	1.8 to 5.5	-40 to +85	M24C02-RMB6TG	NEW SMD 167-1316 RL	0.440	0.310	0.230	– –	– –
24LC02	HT	SOP	8	2Kbit	256 x 8bit	2.2 to 5.5	-40 to +85	HT24LC02-8SOPLF	SMD 142-0867	0.320	0.260	0.210	0.192	0.169
24LC02	MCHIP	DIP	8	2Kbit	256 x 8bit	2.5 to 5.5	0 to +70	24LC02B/P	975-7899	0.310	0.200	0.140	– –	– –
24LC02	MCHIP	SOIC	8	2Kbit	256 x 8bit	2.5 to 5.5	0 to +70	24LC02B/SN	SMD 975-7902	0.350	0.220	0.150	– –	– –
24LC02	MCHIP	SOT-23	5	2Kbit	256 x 8bit	2.5 to 5.5	-40 to +85	24LC02BT-I/OT	SMD 975-7910	0.350	0.220	0.150	– –	– –
24C02	ST	SOIC	8	2Kbit	256 x 8bit	2.5 to 5.5	-40 to +85	M24C02-WMN6P	SMD 988-2804	0.550	0.370	0.280	– –	– –
24C02	ST	DIP	8	2Kbit	256 x 8bit	2.5 to 5.5	-40 to +85	M24C02-WBN6P	109-4256	0.660	0.500	0.370	– –	– –
24LC02	MCHIP	SOIC	8	2Kbit	256 x 8bit	2.5 to 5.5	-40 to +85	24LC02B-I/SN	SMD 119-6818	0.350	0.220	0.150	– –	– –
24LC024	MCHIP	MSOP	8	2Kbit	256 x 8bit	2.5 to 5.5	-40 to +85	24LC024-I/MS	SMD 133-1316	0.510	0.330	0.230	– –	– –
24LC024	MCHIP	PDIP	8	2Kbit	256 x 8bit	2.5 to 5.5	-40 to +85	24LC024-I/P	133-1317	0.490	0.310	0.220	– –	– –
24LC024	MCHIP	SOIC	8	2Kbit	256 x 8bit	2.5 to 5.5	-40 to +85	24LC024-I/SN	SMD 133-1318	0.450	0.290	0.200	– –	– –
24LC02	MCHIP	MSOP	8	2Kbit	256 x 8bit	2.5 to 5.5	-40 to +85	24LC02B-I/MS	SMD 133-1319	0.410	0.260	0.180	– –	– –
24LC02	MCHIP	PDIP	8	2Kbit	256 x 8bit	2.5 to 5.5	-40 to +85	24LC02B-I/P	NEW 155-6160	0.370	0.230	0.160	– –	– –
8582	NXP	SOIC	8	2Kbit	256 x 8bit	2.5 to 6	-40 to +85	PCF8582C-2T/03	SMD 120-1341	0.960	0.700	0.540	– –	– –
8582	NXP	DIP	8	2Kbit	256 x 8bit	2.5 to 6	-40 to +85	PCF8582C-2P/03,112	890-6211	0.890	0.640	0.480	– –	– –
24C02	MCHIP	SOIC	8	2Kbit	256 x 8bit	4.5 to 5.5	-40 to +85	24C02C-I/SN	SMD 108-4339	0.410	0.260	0.180	– –	– –
24C02	MCHIP	DIP	8	2Kbit	256 x 8bit	4.5 to 5.5	-40 to +85	24C02C/P	129-6567	0.430	0.270	0.190	– –	– –
24C02	MCHIP	SOIC	8	2Kbit	256 x 8bit	4.5 to 5.5	0 to +70	24C02C/SN	NEW SMD 160-7552	0.410	0.260	0.180	– –	– –
4 Kb														
24C04	CAT	SOIC	8	4Kbit	512 x 8bit	1.7 to 5.5	-40 to +85	CAT24C04WI-G	NEW SMD 163-1136	0.280	0.230	0.147	0.135	0.113
24AA04	MCHIP	MSOP	8	4Kbit	512 x 8bit	1.8 to 5.5	-40 to +85	24AA04-I/MS	SMD 133-1274	0.430	0.270	0.190	– –	– –
24AA04	MCHIP	PDIP	8	4Kbit	512 x 8bit	1.8 to 5.5	-40 to +85	24AA04-I/P	133-1275	0.410	0.260	0.180	– –	– –
24AA04	MCHIP	SOIC	8	4Kbit	512 x 8bit	1.8 to 5.5	-40 to +85	24AA04-I/SN	SMD 133-1276	0.370	0.230	0.160	– –	– –
24AA04	MCHIP	SOT-23	5	4Kbit	512 x 8bit	1.8 to 5.5	-40 to +85	24AA04T-I/OT	SMD 133-1277	0.370	0.230	0.160	– –	– –
24C04	ATM	DIP	8	4Kbit	512 x 8bit	1.8 to 5.5	-40 to +85	AT24C04B-PU	136-2642	0.280	0.230	0.200	0.183	– –
24C04	ATM	SOIC	8	4Kbit	512 x 8bit	1.8 to 5.5	-40 to +85	AT24C04BN-SH-B	SMD 136-2643	0.280	0.230	0.200	0.183	– –
24CS04	SEI	SOP	8	4Kbit	512 x 8bit	1.8 to 5.5	-40 to +85	S-24CS04AFJ-TB-G	NEW SMD 160-6975 RL	1.460	1.220	1.060	0.910	– –
24L04	ROHM	SOP	8	4Kbit	512 x 8bit	1.8 to 5.5	-40 to +85	BR24L04F-WE2	NEW SMD 162-0324 RL	0.420	0.300	0.200	0.177	0.151
24C04	ST	DFN	8	4Kbit	512K x 8bit	1.8 to 5.5	-40 to +85	M24C04-RMB6TG	NEW SMD 167-1314 RL	0.510	0.370	0.270	– –	– –
24C04	ST	SOIC	8	4Kbit	512 x 8bit	2.5 to 5.5	-40 to +85	M24C04-WMN6P	SMD 988-2812	0.560	0.350	0.260	– –	– –
24LC04	MCHIP	SOIC	8	4Kbit	512 x 8bit	2.5 to 5.5	0 to +70	24LC04B/SN	SMD 108-4244	0.370	0.230	0.160	– –	– –
24C04	ST	DIP	8	4Kbit	512 x 8bit	2.5 to 5.5	-40 to +85	M24C04-WBN6P	109-4258	0.530	0.460	0.350	– –	– –
24LC04	MCHIP	DIP	8	4Kbit	512 x 8bit	2.5 to 5.5	-40 to +85	24LC04B-I/P	119-6811	0.410	0.260	0.180	– –	– –
24LC04	MCHIP	DIP	8	4Kbit	512 x 8bit	2.5 to 5.5	0 to +70	24LC04B/P	119-6848	0.410	0.260	0.180	– –	– –
24LC04	MCHIP	MSOP	8	4Kbit	512 x 8bit	2.5 to 5.5	-40 to +85	24LC04B-I/MS	SMD 133-1320	0.430	0.270	0.190	– –	– –
24LC04	MCHIP	SOT-23	5	4Kbit	2 Blocks - 256 x 8bit	2.5 to 5.5	-40 to +85	24LC04BT-I/OT	NEW SMD 155-6161	0.370	0.230	0.160	– –	– –
8 Kb														
24AA08	MCHIP	SOIC	8	8Kbit	1K x 8bit	1.7 to 5.5	-40 to +85	24AA08T-I/SN	NEW SMD 157-9568	0.410	0.260	0.180	– –	– –
24C08	CAT	SOIC	8	8Kbit	1K x 8bit	1.7 to 5.5	-40 to +85	CAT24C08WI-G	NEW SMD 163-1137	0.280	0.230	0.147	0.135	0.113
24AA08	MCHIP	MSOP	8	8Kbit	1K x 8bit	1.8 to 5.5	-40 to +85	24AA08-I/MS	SMD 133-1278	0.450	0.290	0.200	– –	– –
24AA08	MCHIP	SOIC	8	8Kbit	1K x 8bit	1.8 to 5.5	-40 to +85	24AA08-I/SN	SMD 133-1282	0.410	0.260	0.180	– –	– –
24AA08	MCHIP	SOT-23	5	8Kbit	1K x 8bit	1.8 to 5.5	-40 to +85	24AA08T-I/OT	SMD 133-1283	0.410	0.260	0.180	– –	– –
24C08	ATM	DIP	8	8Kbit	1K x 8bit	1.8 to 5.5	-40 to +85	AT24C08B-PU	136-2644	0.300	0.240	0.220	0.199	– –
24C08	ATM	SOIC	8	8Kbit	1K x 8bit	1.8 to 5.5	-40 to +85	AT24C08BN-SH-B	SMD 136-2645	0.300	0.240	0.220	0.199	– –
24CS08	SEI	SOP	8	8Kbit	1K x 8bit	1.8 to 5.5	-40 to +85	S-24CS08AFJ-TB-1G	NEW SMD 160-6976 RL	1.780	1.480	1.270	1.120	– –
24L08	ROHM	SOP	8	8Kbit	1K x 8bit	1.8 to 5.5	-40 to +85	BR24L08F-WE2	NEW SMD 162-0325 RL	0.420	0.300	0.200	0.177	0.151
24C08	ST	DFN	8	8Kbit	1K x 8bit	1.8 to 5.5	-40 to +85	M24C08-RMB6TG	NEW SMD 167-1313 RL	0.510	0.370	0.270	– –	– –
24C08	ST	DIP	8	8Kbit	1K x 8bit	2.5 to 5.5	-40 to +85	M24C08-WBN6P	988-2820	0.840	0.630	0.510	– –	– –
24C08	ST	SOIC	8	8Kbit	1K x 8bit	2.5 to 5.5	-40 to +85	M24C08-WMN6P	SMD 988-2839	0.590	0.440	0.350	– –	– –
24LC08	MCHIP	DIP	8	8Kbit	1K x 8bit	2.5 to 5.5	0 to +70	24LC08B/P	108-4245	0.430	0.270	0.190	– –	– –
24LC08	MCHIP	SOIC	8	8Kbit	1K x 8bit	2.5 to 5.5	0 to +70	24LC08B/SN	SMD 121-2669	0.410	0.260	0.180	– –	– –
24LC08	MCHIP	DIP	8	8Kbit	1K x 8bit	2.5 to 5.5	-40 to +85	24LC08B-I/P	129-6570	0.430	0.270	0.190	– –	– –
24LC08	MCHIP	DIP	8	8Kbit	1K x 8bit	2.5 to 5.5	-40 to +85	24LC08B-I/SN	SMD 129-6571	0.410	0.260	0.180	– –	– –
24LC08	MCHIP	MSOP	8	8Kbit	1K x 8bit	2.5 to 5.5	-40 to +85	24LC08B-I/MS	SMD 133-1321	0.450	0.290	0.200	– –	– –
24LC08	MCHIP	SOT-23	5	8Kbit	256 x 8bit	2.5 to 5.5	-40 to +85	24LC08BT-I/OT	NEW SMD 155-6163	0.410	0.260	0.180	– –	– –
24LC65	MCHIP	SOIC	8	8Kbit	1K x 8bit	2.5 to 6	-40 to +85	24LC65-I/SM	NEW SMD 160-7553	2.290	1.460	1.030	– –	– –
16 Kb														
24L16	ROHM	SOP-J	8	16Kbit	2K x 8bit	1.7 to 5.5	-40 to +85	BR24L16FJ-WE2	NEW SMD 162-0326 RL	0.490	0.350	0.230	0.210	0.176
24L16	ROHM	SOP	8	16Kbit	2K x 8bit	1.7 to 5.5	-40 to +85	BR24L16F-WE2	NEW SMD 162-0327 RL	0.490	0.350	0.230	0.210	0.176
24C16	CAT	SOIC	8	16Kbit	2K x 8bit	1.7 to 5.5	-40 to +85	CAT24C16WI-G	NEW SMD 163-1138	0.330	0.260	0.169	0.147	0.124
24AA16	MCHIP	MSOP	8	16Kbit	2K x 8bit	1.8 to 5.5	-40 to +85	24AA16-I/MS	SMD 133-1286	0.490	0.310	0.220	– –	– –

RL Re-reeling available

	Mftr.	Pkg / Pins	Pins	Memory Size	Memory Config	Operating Voltage (V)	Operating Temp (°C)	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
16 Kb														
24AA16	MCHIP	PDIP	8	16Kbit	2K x 8bit	1.8 to 5.5	-40 to +85	24AA16-I/P	133-1287	0.450	0.290	0.200	– –	– –
24AA16	MCHIP	SOIC	8	16Kbit	2K x 8bit	1.8 to 5.5	-40 to +85	24AA16-I/SN	SMD 133-1289	0.430	0.270	0.190	– –	– –
24AA16	MCHIP	SOT-23	5	16Kbit	2K x 8bit	1.8 to 5.5	-40 to +85	24AA16T-I/OT	SMD 133-1290	0.430	0.270	0.190	– –	– –
24C16	ATM	DIP	8	16Kbit	2K x 8bit	1.8 to 5.5	-40 to +85	AT24C16B-PU	136-2650	0.390	0.330	0.270	0.260	0.250
24C16	ATM	SOIC	8	16Kbit	2K x 8bit	1.8 to 5.5	-40 to +85	AT24C16BN-SH-B	SMD 136-2651	0.380	0.310	0.260	0.250	0.240
24CS16	SEI	SOP	8	16Kbit	2K x 8bit	1.8 to 5.5	-40 to +85	S-24CS16A0I-J8T1G	NEW SMD 160-6977 RL	2.250	1.890	1.640	1.410	– –
24C16	ST	DFN	8	16Kbit	2K x 8bit	1.8 to 5.5	-40 to +85	M24C16-RMB6TG	NEW SMD 167-1312 RL	0.580	0.420	0.310	– –	– –
24LC16	MCHIP	SOIC	8	16Kbit	2K x 8bit	2.5 to 5.5	0 to +70	24LC16B/SN	SMD 975-7945	0.430	0.270	0.190	– –	– –
24LC16	MCHIP	DIP	8	16Kbit	2K x 8bit	2.5 to 5.5	-40 to +85	24LC16B-I/P	975-7953	0.450	0.290	0.200	– –	– –
24LC16	MCHIP	SOT-23	5	16Kbit	2K x 8bit	2.5 to 5.5	-40 to +85	24LC16BT-I/OT	SMD 975-7961	0.430	0.270	0.190	– –	– –
24C16	ST	DIP	8	16Kbit	2K x 8bit	2.5 to 5.5	-40 to +85	M24C16-WBN6P	988-2766	0.680	0.480	0.330	– –	– –
24C16	ST	SOIC	8	16Kbit	2K x 8bit	2.5 to 5.5	-40 to +85	M24C16-WMN6P	SMD 988-2774	0.680	0.480	0.330	– –	– –
24LC16	MCHIP	DIP	8	16Kbit	2K x 8bit	2.5 to 5.5	0 to +70	24LC16B/P	120-0026	0.450	0.290	0.200	– –	– –
24LC16	MCHIP	SOIC	8	16Kbit	2K x 8bit	2.5 to 5.5	-40 to +85	24LC16B-I/SN	SMD 129-6575	0.430	0.270	0.190	– –	– –
24LC16	MCHIP	MSOP	8	16Kbit	2K x 8bit	2.5 to 5.5	-40 to +85	24LC16B-I/MS	SMD 133-1326	0.490	0.310	0.220	– –	– –
24WC16	CAT	SOIC	8	16Kbit	2K x 8bit	2.5 to 6	-40 to +85	CAT24WC16WI	SMD 880-3447	0.390	0.330	0.260	– –	– –
32 Kb														
24L32	ROHM	SOP-J	8	32Kbit	4K x 8bit	1.7 to 5.5	-40 to +85	BR24L32FJ-WE2	NEW SMD 162-0328 RL	0.800	0.570	0.370	0.340	0.290
24L32	ROHM	SSOP	8	32Kbit	4K x 8bit	1.7 to 5.5	-40 to +85	BR24L32FV-WE2	NEW SMD 162-0329 RL	0.800	0.570	0.370	0.340	0.290
24L32	ROHM	SOP	8	32Kbit	4K x 8bit	1.7 to 5.5	-40 to +85	BR24L32F-WE2	NEW SMD 162-0330 RL	0.800	0.570	0.370	0.340	0.290
24C32	CAT	SOIC	8	32Kbit	4K x 8bit	1.7 to 5.5	-20 to +85	CAT24C32WI-G	NEW SMD 163-1139	0.440	0.350	0.240	0.200	0.181
24AA32	MCHIP	MSOP	8	32Kbit	4K x 8bit	1.8 to 5.5	-40 to +85	24AA32A-I/MS	SMD 133-1296	0.590	0.380	0.270	– –	– –
24AA32	MCHIP	PDIP	8	32Kbit	4K x 8bit	1.8 to 5.5	-40 to +85	24AA32A-I/P	133-1297	0.570	0.360	0.260	– –	– –
24AA32	MCHIP	DFN	8	32Kbit	4K x 8bit	1.8 to 5.5	-40 to +85	24AA32AT-I/MC	SMD 133-1298	0.650	0.420	0.290	– –	– –
24C32	ATM	DIP	8	32Kbit	4K x 8bit	1.8 to 5.5	-40 to +85	AT24C32C-PU	136-2652	0.540	0.470	0.420	0.370	0.360
24C32	ATM	SOIC	8	32Kbit	4K x 8bit	1.8 to 5.5	-40 to +85	AT24C32C-SH-B	SMD 136-2654	0.540	0.470	0.420	0.370	0.360
24AA32	MCHIP	SOIC	8	32Kbit	4K x 8bit	1.8 to 6	-40 to +85	24AA32A-I/SN	NEW SMD 161-7659	0.550	0.350	0.250	– –	– –
24C32	ST	DFN	8	32Kbit	4K x 8bit	1.8 to 5.5	-40 to +85	M24C32-RMB6TG	NEW SMD 167-1311 RL	0.730	0.520	0.380	– –	– –
24LC32	MCHIP	SOIC	8	32Kbit	4K x 8bit	2.5 to 5.5	0 to +85	24LC32A/SN	SMD 975-8003	0.470	0.300	0.210	– –	– –
24LC32	MCHIP	SOIC	8	32Kbit	4K x 8bit	2.5 to 5.5	-40 to +85	24LC32A-I/SN	SMD 975-8011	0.550	0.350	0.250	– –	– –
24LC32	MCHIP	DIP	8	32Kbit	4K x 8bit	2.5 to 5.5	0 to +70	24LC32A/P	108-4246	0.570	0.360	0.260	– –	– –
24C32	ST	DIP	8	32Kbit	4K x 8bit	2.5 to 5.5	-40 to +85	M24C32-WBN6P	120-2827	2.230	1.800	1.440	– –	– –
24LC32	MCHIP	SOIC	8	32Kbit	4K x 8bit	2.5 to 5.5	0 to +70	24LC32A/SM	SMD 121-2670	0.570	0.360	0.260	– –	– –
24C32	ST	SO	8	32Kbit	4K x 8bit	2.5 to 5.5	-40 to +85	M24C32-WMN6P	SMD 122-4413	0.600	0.440	0.330	0.290	0.240
24LC32	MCHIP	MSOP	8	32Kbit	4K x 8bit	2.5 to 5.5	-40 to +85	24LC32A-I/MS	SMD 133-1330	0.590	0.380	0.270	– –	– –
24LC32	MCHIP	PDIP	8	32Kbit	4K x 8bit	2.5 to 5.5	-40 to +85	24LC32A-I/P	133-1331	0.570	0.360	0.260	– –	– –
24WC32	CAT	SOIC	8	32Kbit	4K x 8bit	2.5 to 6	-40 to +85	CAT24WC32WI	SMD 880-3455	0.610	0.520	0.420	– –	– –
64 Kb														
24AA64	MCHIP	MSOP	8	64Kbit	8K x 8bit	1.8 to 5.5	-40 to +85	24AA64-I/MS	SMD 133-1302	0.720	0.460	0.320	– –	– –
24AA64	MCHIP	PDIP	8	64Kbit	8K x 8bit	1.8 to 5.5	-40 to +85	24AA64-I/P	133-1303	0.700	0.440	0.310	– –	– –
24AA64	MCHIP	SOIC	8	64Kbit	8K x 8bit	1.8 to 5.5	-40 to +85	24AA64-I/SN	SMD 133-1304	0.650	0.420	0.290	– –	– –
24AA64	MCHIP	DFN	8	64Kbit	8K x 8bit	1.8 to 5.5	-40 to +85	24AA64T-I/MC	SMD 133-1305	0.780	0.490	0.350	– –	– –
24AA65	MCHIP	PDIP	8	64Kbit	8K x 8bit	1.8 to 5.5	0 to +70	24AA65/P	133-1306	2.290	1.460	1.030	– –	– –
24C64	ATM	DIP	8	64Kbit	8K x 8bit	1.8 to 5.5	-40 to +85	AT24C64C-PU	136-2657	0.550	0.460	0.380	0.350	0.340
24C64	ATM	SOIC	8	64Kbit	8K x 8bit	1.8 to 5.5	-40 to +85	AT24C64CN-SH-B	SMD 136-2658	0.540	0.440	0.360	0.330	0.320
24L64	ROHM	SOP	8	64Kbit	8K x 8bit	1.8 to 5.5	-40 to +85	BR24L64F-WE2	NEW SMD 162-0331 RL	1.040	0.730	0.490	0.430	0.370
24C64	CAT	SOIC	8	64Kbit	8K x 8bit	1.8 to 5.5	-40 to +85	CAT24C64WI-G	NEW SMD 163-1140	0.490	0.380	0.260	0.230	0.192
24C64	ST	DFN	8	64Kbit	8K x 8bit	1.8 to 5.5	-40 to +85	M24C64-RMB6TG	NEW SMD 167-1310 RL	1.740	1.260	0.930	– –	– –
24C65	MCHIP	SOIC	8	64Kbit	8K x 8bit	1.8 to 6	0 to +70	24C65/SM	NEW SMD 146-7721	1.950	1.240	0.880	– –	– –
24WC64	CAT	SOIC	8	64Kbit	8K x 8bit	2.5 to 6	-40 to +85	CAT24WC64WI	SMD 880-3463	0.710	0.610	0.490	– –	– –
24LC64	MCHIP	DIP	8	64Kbit	8K x 8bit	2.5 to 5.5	-40 to +85	24LC64-I/P	975-8054	0.700	0.440	0.310	– –	– –
24LC64	MCHIP	SOIC	8	64Kbit	8K x 8bit	2.5 to 5.5	-40 to +85	24LC64-I/SM	SMD 975-8062	0.590	0.380	0.270	– –	– –
24LC64	MCHIP	SOIC	8	64Kbit	8K x 8bit	2.5 to 5.5	-40 to +85	24LC64-I/SN	SMD 975-8070	0.560	0.360	0.250	– –	– –
24LC65	MCHIP	DIP	8	64Kbit	8K x 8bit	2.5 to 5.5	0 to +70	24LC65/P	975-8089	1.950	1.240	0.880	– –	– –
24LC65	MCHIP	SOIC	8	64Kbit	8K x 8bit	2.5 to 5.5	0 to +70	24LC65/SM	SMD 975-8097	2.290	1.460	1.030	– –	– –
24C64	ST	SOIC	8	64Kbit	8K x 8bit	2.5 to 5.5	-40 to +85	M24C64-WMN6P	SMD 988-2685	1.400	0.910	0.640	– –	– –
24C64	ST	DIP	8	64Kbit	8K x 8bit	2.5 to 5.5	-40 to +85	M24C64-WBN6P	109-4259	2.150	1.730	1.380	– –	– –
24LC65	MCHIP	DIP	8	64Kbit	8K x 8bit	2.5 to 5.5	-40 to +85	24LC65-I/P	120-0024	2.290	1.460	1.030	– –	– –
24LC64	MCHIP	TSSOP	8	64Kbit	8K x 8bit	2.5 to 5.5	-40 to +85	24LC64-I/ST	SMD 129-6582	0.720	0.460	0.320	– –	– –
24LC64	MCHIP	SOIC	8	64Kbit	8K x 8bit	2.5 to 5.5	-40 to +85	24LC64T-I/SN	SMD 129-6583	0.650	0.420	0.290	– –	– –
24LC64	MCHIP	MSOP	8	64Kbit	8K x 8bit	2.5 to 5.5	-40 to +85	24LC64-I/MS	SMD 133-1335	0.720	0.460	0.320	– –	– –
24LC64	MCHIP	DFN	8	64Kbit	8K x 8bit	2.5 to 5.5	-40 to +85	24LC64T-I/MC	SMD 133-1336	0.780	0.490	0.350	– –	– –
24C65	MCHIP	DIP	8	64Kbit	8K x 8bit	4.5 to 5.5	0 to +70	24C65/P	975-7821	2.290	1.460	1.030	– –	– –
24C65	MCHIP	DIP	8	64Kbit	8K x 8bit	4.5 to 5.5	-40 to +85	24C65-I/P	975-7830	2.290	1.460	1.030	– –	– –
24C65	MCHIP	SOIC	8	64Kbit	8K x 8bit	4.5 to 5.5	0 to +70	24C65T/SM	SMD 975-7848	2.290	1.460	1.030	– –	– –
24C65	MCHIP	SOIC	8	64Kbit	8K x 8bit	4.5 to 5.5	-40 to +85	24C65T-I/SM	SMD 121-2682	2.290	1.460	1.030	– –	– –
128 Kb														
24128	ST	DFN	8	128Kbit	16K x 8bit	1.7 to 5.5	-40 to +85	M24128-BFMB6TG	NEW SMD 167-1309 RL	2.470	1.800	1.310	– –	– –
24AA128	MCHIP	MSOP	8	128Kbit	16K x 8bit	1.8 to 5.5	-40 to +85	24AA128-I/MS	SMD 133-1285	1.000	0.640	0.450	– –	– –
24C128	ATM	DIP	8	128Kbit	16K x 8bit	1.8 to 5.5	-40 to +85	AT24C128B-PU	136-2648	0.740	0.620	0.510	0.500	0.480
24C128	ATM	SOIC	8	128Kbit	16K x 8bit	1.8 to 5.5	-40 to +85	AT24C128BN-SH-B	SMD 136-2649	0.740	0.550	0.500	0.490	0.470
24C128	CAT	SOIC	8	128Kbit	16K x 8bit	1.8 to 5.5	-40 to +85	CAT24C128WI-G	NEW SMD 163-1141	0.770	0.610	0.410	0.360	0.310
24WC128	CAT	SOIC	8	128Kbit	16K x 8bit	2.5 to 6	-40 to +85	CAT24WC128WI	SMD 880-3471	0.880	0.750	0.600	– –	– –
24LC128	MCHIP	DIP	8	128Kbit	16K x 8bit	2.5 to 5.5	-40 to +85	24LC128-I/P	975-7929	0.840	0.530	0.380	– –	– –
24LC128	MCHIP	SOIC	8	128Kbit	16K x 8bit	2.5 to 5.5	-40 to +85	24LC128-I/SN	SMD 975-7937	0.800	0.510	0.360	– –	– –
24128	ST	SO	8	128Kbit	16K x 8bit	2.5 to 5.5	-40 to +85	M24128-BWMN6P	SMD 122-4409	1.140	0.850	0.590	0.510	0.460
24LC128	MCHIP	TSSOP	8	128Kbit	16K x 8bit	2.5 to 5.5	-40 to +85	24LC128-I/ST	SMD 129-6573	1.060	0.680	0.480	– –	– –
24LC128	MCHIP	SOIC	8	128Kbit	16K x 8bit	2.5 to 5.5	-40 to +85	24LC128T-I/SN	SMD 129-6574	0.940	0.600	0.420	– –	– –
24LC128	MCHIP	MSOP	8	128Kbit	16K x 8bit	2.5 to 5.5	-40 to +85	24LC128-I/MS	SMD 133-1325	1.000	0.640	0.450	– –	– –
256 Kb														
24AA256	MCHIP	SOIC	8	256Kbit	32K x 8bit	1.7 to 5.5	-40 to +85	24AA256T-I/SM	NEW SMD 157-9570	1.450	0.920	0.650	– –	– –
24FC256	MCHIP	PDIP	8	256Kbit	32K x 8bit	1.7 to 5.5	-40 to +85	24FC256-I/P	NEW 157-9571	1.640	1.040	0.730	– –	– –
24FC256	MCHIP	SOIC	8	256Kbit	32K x 8bit	1.7 to 5.5	-40 to +85	24FC256-I/SN	NEW SMD 157-9572	1.590	1.010	0.720	– –	– –
24FC256	MCHIP	SOIC	8	256Kbit	32K x 8bit	1.7 to 5.5	-40 to +125	24LC256-E/SN	NEW SMD 157-9573	1.510	0.960	0.680	– –	– –
24AA256	MCHIP	DFN	8	256Kbit	32K x 8bit	1.8 to 5.5	-40 to +85	24AA256-I/MF	SMD 133-1291	1.920	1.220	0.860	– –	– –
24AA256	MCHIP	MSOP	8	256Kbit	32K x 8bit	1.8 to 5.5	-40 to +85	24AA256-I/MS	SMD 133-1293	1.490	0.950	0.670	– –	– –
24AA256	MCHIP	PDIP	8	256Kbit	32K x 8bit	1.8 to 5.5	-40 to +85	24AA256-I/P	133-1294	1.450	0.920	0.650	– –	– –
24AA256	MCHIP	SOIC	8	256Kbit	32K x 8bit	1.8 to 5.5	-40 to +85	24AA256-I/SN	SMD 133-1295	1.430	0.910	0.640	– –	– –
24C256	ATM	PDIP	8	256Kbit	32K x 8bit	1.8 to 3.6	-40 to +85	AT24C256B-PU	145-5013	1.060	0.870	0.760	0.680	0.640
24LC256	MCHIP	DIP	8	256Kbit	32K x 8bit	1.8 to 5.5	-40 to +85	24LC256-I/P	NEW 152-3918	46.800	33.000	– –	– –	– –
24C256	CAT	SOIC	8	256Kbit	32K x 8bit	1.8 to 5.5	-40 to +85	CAT24C256WI-G	NEW SMD 163-1142	1.160	0.880	0.770	0.680	0.580
24C256	CAT	SOIC	8	256Kbit	32K x 8bit	1.8 to 5.5	-40 to +85	CAT24C256XI	NEW SMD 163-1143	1.530	1.230	0.810	0.710	0.610
24C256	ATM	SOIC	8	256Kbit	32K x 8bit	1.8 to 3.6	-40 to +85	AT24C256BN-SH-B	NEW SMD 163-6614	1.510	1.140	0.950	0.900	0.860
24C256	ATM	SOIC-W	8	256Kbit	32K x 8bit	1.8 to 3.6	-40 to +85	AT24C256BW-SH-B	NEW SMD 163-6615	1.620	1.210	1.020	0.980	0.930
24LC256	MCHIP	DIP	8	256Kbit	32K x 8bit	2.5 to 5.5	-40 to +85	24LC256-I/P	975-7970	1.240	0.790	0.560	– –	– –
24LC256	MCHIP	SOIC	8	256Kbit	32K x 8bit	2.5 to 5.5	-40 to +85	24LC256-I/SM	SMD 975-7988	1.240	0.790	0.560	– –	– –
24LC256	MCHIP	SOIC	8	256Kbit	32K x 8bit	2.5 to 5.5	-40 to +85	24LC256-I/SN	SMD 975-7996	1.220	0.780	0.550	– –	– –
24256	ST	SO	8	256Kbit	32K x 8bit	2.5 to 5.5	-40 to +85	M24256-BWMN6P	SMD 122-4411	1.510	1.130	0.820	0.700	0.600
24256	ST	SO-W	8	256Kbit	32K x 8bit	2.5 to 5.5	-40 to +85	M24256-BWMW6G	SMD 122-4412	1.510	1.130	0.820	0.700	0.600
24LC256	MCHIP	TSSOP	8	256Kbit	32K x 8bit	2.5 to 5.5	-40 to +85	24LC256-I/ST	SMD 129-6579	1.550	0.990	0.700	– –	– –
24LC256	MCHIP	SOIC	8	256Kbit	32K x 8bit	2.5 to 5.5	-40 to +85	24LC256T-I/SM	SMD 129-6580	1.450	0.920	0.650	– –	– –

RL Re-reeling available

EPROMs, EEPROMs and FLASH Memory - continued

EEPROM - I²C - continued

	Mftr.	Pkg / Pins	Pins	Memory Size	Memory Config	Operating Voltage (V)	Operating Temp (°C)	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
256 Kb														
24LC256	MCHIP	SOIC	8	256Kbit	32K x 8bit	2.5 to 5.5	-40 to +85	24LC256T-I/SN	SMD 129-6581	1.220	0.780	0.550	– –	– –
24LC256	MCHIP	MSOP	8	256Kbit	32K x 8bit	2.5 to 5.5	-40 to +85	24LC256-I/MS	SMD 133-1329	1.490	0.950	0.670	– –	– –
512 Kb														
24AA512	MCHIP	DFN	8	512Kbit	64K x 8bit	1.8 to 5.5	-40 to +85	24AA512-I/MF	SMD 133-1299	3.230	2.060	1.450	– –	– –
24AA512	MCHIP	PDIP	8	512Kbit	64K x 8bit	1.8 to 5.5	-40 to +85	24AA512-I/P	133-1300	2.210	1.410	1.000	– –	– –
24AA512	MCHIP	SOIC	8	512Kbit	64K x 8bit	1.8 to 5.5	-40 to +85	24AA512-I/SM	SMD 133-1301	2.600	1.650	1.160	– –	– –
24C512	ATM	SOIC	8	512Kbit	64K x 8bit	1.8 to 3.6	-40 to +85	AT24C512BN-SH-B	SMD 145-5014	2.140	1.730	1.480	1.330	1.280
24C512	ATM	PDIP	8	512Kbit	64K x 8bit	1.8 to 3.6	-40 to +85	AT24C512B-PU	NEW 163-6616	1.830	1.360	1.160	1.110	1.040
24C512	ATM	SOIC-W	8	512Kbit	64K x 8bit	1.8 to 3.6	-40 to +85	AT24C512BW-SH-B	NEW SMD 163-6617	1.910	1.440	1.210	1.150	1.110
24LC512	MCHIP	DIP	8	512Kbit	64K x 8bit	2.5 to 5.5	-40 to +85	24LC512-I/P	975-8020	2.210	1.410	1.000	– –	– –
24LC512	MCHIP	SOIC	8	512Kbit	64K x 8bit	2.5 to 5.5	-40 to +85	24LC512-I/SM	SMD 975-8038	2.210	1.410	1.000	– –	– –
24LC515	MCHIP	SOIC	8	512Kbit	64K x 8bit	2.5 to 5.5	-40 to +85	24LC515-I/SM	SMD 975-8046	4.030	2.560	1.810	– –	– –
24512	ST	SO	8	512Kbit	64K x 8bit	2.5 to 5.5	-40 to +85	M24512-WMW6G	SMD 109-9661	1.960	1.600	1.170	– –	– –
24512	ST	SOIC	8	512Kbit	64K x 8bit	2.5 to 5.5	-40 to +85	M24512-WMN6P	NEW SMD 167-0818	1.890	1.540	1.130	– –	– –
24LC512	MCHIP	DFN	8	512Kbit	64K x 8bit	2.5 to 5.5	-40 to +85	24LC512-I/MF	SMD 133-1333	3.230	2.060	1.450	– –	– –
24C512	ATM	DIP	8	512Kbit	64K x 8bit	2.5 to 5.5	-40 to +85	AT24C512B-PU25	136-2655	1.590	1.540	1.500	1.460	1.420
24C512	ATM	SOIC	8	512Kbit	64K x 8bit	2.5 to 5.5	-40 to +85	AT24C512BN-SH25-B	SMD 136-2656	3.150	2.690	2.430	2.220	2.180
24FC512	MCHIP	SOIC	8	512Kbit	64K x 8bit	2.5 to 5.5	-40 to +85	24FC512-I/SM	SMD 143-9744	2.740	1.740	1.230	– –	– –
24FC512	MCHIP	DIP	8	512Kbit	64K x 8bit	2.5 to 5.5	-40 to +85	24FC512-I/P	NEW 146-7723	2.330	1.490	1.050	– –	– –
24LC512	MCHIP	SOIC	8	512Kbit	64K x 8bit	2.5 to 5.5	-40 to +125	24LC512-E/SM	NEW SMD 157-9574	2.700	1.720	1.210	– –	– –
1 Mb														
24FC1025	MCHIP	SOIC	8	1Mbit	128K x 8bit	1.7 to 5.5	-40 to +85	24FC1025-I/SM	SMD 129-6568	5.520	3.510	2.480	– –	– –
24C1024	ATM	SOIC	8	1Mbit	128K x 8bit	1.8 to 3.6	-40 to +85	AT24C1024BN-SH-B	NEW SMD 163-6610	3.550	2.680	2.250	2.140	2.040
24C1024	ATM	PDIP	8	1Mbit	128K x 8bit	1.8 to 3.6	-40 to +85	AT24C1024B-PU	NEW 163-6611	3.390	2.540	2.150	2.040	1.920
24C1024	ATM	SOIC-W	8	1Mbit	128K x 8bit	1.8 to 3.6	-40 to +85	AT24C1024BW-SH-B	NEW SMD 163-6612	4.320	3.220	2.740	2.580	2.470
24AA1025	MCHIP	PDIP	8	1Mbit	128K x 8bit	1.8 to 5.5	-40 to +85	24AA1025-I/P	NEW 146-7720	4.650	2.960	2.100	– –	– –
24M01	ST	SOIC	8	1Mbit	128K x 8bit	1.8 to 5.5	-40 to +85	M24M01-RMN6P	NEW SMD 167-0817	2.000	1.390	1.180	– –	– –
24M01	ST	SOIC	8	1Mbit	256K x 8bit	1.8 to 5.5	-40 to +85	M24M01-HRMN6P	NEW SMD 167-1281	2.310	1.610	1.370	– –	– –
24LC1025	MCHIP	DIP	8	1Mbit	128K x 8bit	2.5 to 5.5	-40 to +85	24LC1025-I/P	129-6572	5.460	3.470	2.450	– –	– –
24LC1025	MCHIP	SOIC	8	1Mbit	128K x 8bit	2.5 to 5.5	-40 to +85	24LC1025-I/SM	SMD 133-1323	5.460	3.470	2.450	– –	– –
24C1024	ATM	DIP	8	1Mbit	128K x 8bit	2.5 to 5.5	-40 to +85	AT24C1024B-PU25	136-2646	4.640	3.900	3.490	3.180	3.100
24C1024	ATM	SOIC	8	1Mbit	128K x 8bit	2.5 to 5.5	-40 to +85	AT24C1024BW-SH25-B	SMD 136-2647	3.390	2.810	2.570	2.500	2.440
24C102	ATM	SOIC	8	1Mbit	128K x 8bit	2.5 to 5.5	-40 to +85	AT24C1024BN-SH25-B	SMD 145-5012	5.060	4.130	3.590	3.340	3.130
24FC1025	MCHIP	PDIP	8	1Mbit	128K x 8bit	2.5 to 5.5	-40 to +85	24FC1025-I/P	NEW 146-7722	4.700	2.990	2.120	– –	– –

EEPROM - Microwire Interface

523189

	Mftr.	Pkg	Pins	Memory Size	Memory Config	Operating Voltage (V)	Operating Temp (°C)	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
1 Kb														
93AA46	MCHIP	MSOP	8	1Kbit	128 x 8bit	1.8 to 5.5	-40 to +85	93AA46A-I/MS	SMD 133-1403	0.370	0.230	0.160	– –	– –
93AA46	MCHIP	PDIP	8	1Kbit	128 x 8bit	1.8 to 5.5	-40 to +85	93AA46A-I/P	133-1404	0.350	0.220	0.150	– –	– –
93AA46	MCHIP	SOIC	8	1Kbit	128 x 8bit	1.8 to 5.5	-40 to +85	93AA46A-I/SN	SMD 133-1405	0.310	0.190	0.130	– –	– –
93AA46	MCHIP	SOT-23	6	1Kbit	128 x 8bit	1.8 to 5.5	-40 to +85	93AA46AT-I/OT	SMD 133-1406	0.310	0.190	0.130	– –	– –
93AA46	MCHIP	MSOP	8	1Kbit	64 x 16bit	1.8 to 5.5	-40 to +85	93AA46B-I/MS	SMD 133-1407	0.370	0.230	0.160	– –	– –
93AA46	MCHIP	SOIC	8	1Kbit	64 x 16bit	1.8 to 5.5	-40 to +85	93AA46B-I/SN	SMD 133-1409	0.310	0.190	0.130	– –	– –
93AA46	MCHIP	SOT-23	6	1Kbit	64 x 16bit	1.8 to 5.5	-40 to +85	93AA46BT-I/OT	SMD 133-1410	0.310	0.190	0.130	– –	– –
93AA46	MCHIP	MSOP	8	1Kbit	128 x 8bit or 64 x 16bit	1.8 to 5.5	-40 to +85	93AA46C-I/MS	SMD 133-1411	0.410	0.260	0.180	– –	– –
93AA46	MCHIP	PDIP	8	1Kbit	128 x 8bit or 64 x 16bit	1.8 to 5.5	-40 to +85	93AA46C-I/P	133-1412	0.370	0.230	0.160	– –	– –
93AA46	MCHIP	SOIC	8	1Kbit	128 x 8bit or 64 x 16bit	1.8 to 5.5	-40 to +85	93AA46C-I/SN	SMD 133-1414	0.350	0.220	0.150	– –	– –
93AA46	MCHIP	DFN	8	1Kbit	128 x 8bit or 64 x 16bit	1.8 to 5.5	-40 to +85	93AA46CT-I/MC	SMD 133-1415	0.450	0.290	0.200	– –	– –
93C46	ATM	DIP	8	1Kbit	128 x 8bit or 64 x 16bit	1.8 to 5.5	-40 to +85	AT93C46D-PU	136-2666	0.300	0.197	0.160	0.145	0.141
93C46	ATM	SOIC	8	1Kbit	128 x 8bit or 64 x 16bit	1.8 to 5.5	-40 to +85	AT93C46DN-SH-B	SMD 145-5086	0.300	0.200	0.170	0.157	0.141
93C46	SEI	SOP	8	1Kbit	64 x 16bit	1.8 to 5.5	-40 to +85	S-93C46BD0I-J8T1G	NEW SMD 160-6978 RL	1.110	0.920	0.800	0.690	– –
93L46	ROHM	SOP	8	1Kbit	64 x 16bit	1.8 to 5.5	-40 to +85	BR93L46F-WE2	NEW SMD 162-0333 RL	0.370	0.270	0.178	0.157	0.136
93L46	ROHM	SOP-J	8	1Kbit	64 x 16bit	1.8 to 5.5	-40 to +85	BR93L46RFJ-WE2	NEW SMD 162-0334 RL	0.370	0.270	0.178	0.157	0.136
93L46	ROHM	SOP	8	1Kbit	64 x 16bit	1.8 to 5.5	-40 to +85	BR93L46RF-WE2	NEW SMD 162-0335 RL	0.370	0.270	0.178	0.157	0.136
93C46	CAT	SOIC	8	1Kbit	64 x 16bit	1.8 to 5.5	-40 to +85	CAT93C46VI-G	NEW SMD 163-1146	0.280	0.230	0.147	0.135	0.113
93LC46	HT	SOIC	8	1Kbit	64 x 16bit	2.2 to 5.5	-40 to +85	HT93LC46-8SOP-A	SMD 120-7991	0.990	0.730	0.560	0.460	0.410
93C46	CAT	SOIC	8	1Kbit	128 x 8bit or 64 x 16bit	2.5 to 6	-40 to +85	CAT93C46VI	SMD 880-3633	0.280	0.240	0.200	– –	– –
93LC46	MCHIP	SOIC	8	1Kbit	128 x 8bit or 64 x 16bit	2.5 to 5.5	0 to +70	93LC46/SN	SMD 975-8194	0.540	0.340	0.240	– –	– –
93LC46	MCHIP	SOIC	8	1Kbit	128 x 8bit	2.5 to 5.5	0 to +70	93LC46A/SN	SMD 975-8208	0.260	0.160	0.110	– –	– –
93LC46	MCHIP	DIP	8	1Kbit	64 x 16bit	2.5 to 5.5	0 to +70	93LC46B/P	975-8216	0.350	0.220	0.150	– –	– –
93LC46	MCHIP	SOIC	8	1Kbit	64 x 16bit	2.5 to 5.5	0 to +70	93LC46B/SN	SMD 975-8224	0.310	0.190	0.130	– –	– –
93LC46	MCHIP	SOIC	8	1Kbit	64 x 16bit	2.5 to 5.5	-40 to +85	93LC46B-I/SN	SMD 975-8232	0.260	0.160	0.110	– –	– –
93C46	ST	DIP	8	1Kbit	128 x 8bit or 64 x 16bit	2.5 to 5.5	-40 to +85	M93C46-WBN6P	988-2715	0.550	0.360	0.270	– –	– –
93S46	ST	SOIC	8	1Kbit	128 x 8bit or 64 x 16bit	2.5 to 5.5	-40 to +85	M93S46-WMN6P	SMD 988-2731	0.380	0.270	0.200	– –	– –
93LC46	MCHIP	SOIC	8	1Kbit	128 x 8bit or 64 x 16bit	2.5 to 5.5	-40 to +85	93LC46C-I/SN	SMD 108-4341	0.350	0.220	0.150	– –	– –
93LC46	MCHIP	DIP	8	1Kbit	64 x 16bit	2.5 to 5.5	-40 to +85	93LC46B-I/P	113-7344	0.350	0.220	0.150	– –	– –
93LC46	MCHIP	DIP	8	1Kbit	128 x 8bit or 64 x 16bit	2.5 to 5.5	0 to +70	93LC46/P	121-2720	0.650	0.420	0.290	– –	– –
93C46	ST	SO	8	1Kbit	128 x 8bit or 64 x 16bit	2.5 to 5.5	-40 to +85	M93C46-WMN6P	SMD 122-4432	0.340	0.260	0.176	0.151	0.132
93LC46	MCHIP	SOIC	8	1Kbit	64 x 16bit	2.5 to 5.5	-40 to +85	93LC46BT-I/SN	SMD 129-6585	0.310	0.190	0.130	– –	– –
93LC46	MCHIP	MSOP	8	1Kbit	128 x 8bit	2.5 to 5.5	-40 to +85	93LC46A-I/MS	SMD 133-1456	0.370	0.230	0.160	– –	– –
93LC46	MCHIP	PDIP	8	1Kbit	128 x 8bit	2.5 to 5.5	-40 to +85	93LC46A-I/P	133-1457	0.350	0.220	0.150	– –	– –
93LC46	MCHIP	SOIC	8	1Kbit	128 x 8bit	2.5 to 5.5	-40 to +85	93LC46A-I/SN	SMD 133-1458	0.310	0.190	0.130	– –	– –
93LC46	MCHIP	MSOP	8	1Kbit	64 x 16bit	2.5 to 5.5	-40 to +85	93LC46B-I/MS	SMD 133-1459	0.370	0.230	0.160	– –	– –
93LC46	MCHIP	MSOP	8	1Kbit	128 x 8bit or 64 x 16bit	2.5 to 5.5	-40 to +85	93LC46C-I/MS	SMD 133-1460	0.410	0.260	0.180	– –	– –
93LC46	MCHIP	PDIP	8	1Kbit	128 x 8bit or 64 x 16bit	2.5 to 5.5	-40 to +85	93LC46C-I/P	NEW 155-6156	0.370	0.230	0.160	– –	– –
93LC46	MCHIP	SOT-23	6	1Kbit	64 x 16bit	2.5 to 5.5	-40 to +85	93LC46BT-I/OT	NEW SMD 155-6164	0.310	0.190	0.130	– –	– –
93LC46	MCHIP	TSSOP	8	1Kbit	64 x 16bit	2.5 to 5.5	0 to +70	93LC46B/ST	NEW SMD 160-7559	0.370	0.230	0.160	– –	– –
93C46	MCHIP	SOIC	8	1Kbit	64 x 16bit	4.5 to 5.5	0 to +70	93C46B/SN	SMD 975-8178	0.310	0.190	0.130	– –	– –
93C46	MCHIP	SOIC	8	1Kbit	64 x 16bit	4.5 to 5.5	-40 to +85	93C46B-I/SN	SMD 975-8186	0.310	0.190	0.130	– –	– –
93C46	MCHIP	DIP	8	1Kbit	64 x 16bit	4.5 to 5.5	0 to +70	93C46B/P	108-4337	0.350	0.220	0.150	– –	– –
93C46	MCHIP	SOIC	8	1Kbit	64 x 16bit	4.5 to 5.5	-40 to +85	93C46BT-I/SN	NEW SMD 160-7557	0.310	0.190	0.130	– –	– –
2 Kb														
93AA56	MCHIP	SOIC	8	2Kbit	256 x 8bit	1.8 to 5.5	-40 to +85	93AA56A-I/SN	SMD 133-1418	0.350	0.220	0.150	– –	– –
93AA56	MCHIP	SOT-23	6	2Kbit	256 x 8bit	1.8 to 5.5	-40 to +85	93AA56AT-I/OT	SMD 133-1419	0.350	0.220	0.150	– –	– –
93AA56	MCHIP	MSOP	8	2Kbit	128 x 16bit	1.8 to 5.5	-40 to +85	93AA56B-I/MS	SMD 133-1420	0.410	0.260	0.180	– –	– –
93AA56	MCHIP	PDIP	8	2Kbit	128 x 16bit	1.8 to 5.5	-40 to +85	93AA56B-I/P	133-1421	0.370	0.230	0.160	– –	– –
93AA56	MCHIP	SOIC	8	2Kbit	128 x 16bit	1.8 to 5.5	-40 to +85	93AA56B-I/SN	SMD 133-1422	0.350	0.220	0.150	– –	– –
93AA56	MCHIP	SOT-23	6	2Kbit	128 x 16bit	1.8 to 5.5	-40 to +85	93AA56BT-I/OT	SMD 133-1423	0.350	0.220	0.150	– –	– –
93AA56	MCHIP	MSOP	8	2Kbit	256 x 8bit or 128 x 16bit	1.8 to 5.5	-40 to +85	93AA56C-I/MS	SMD 133-1424	0.410	0.260	0.180	– –	– –

RL Re-reeling available

	Mftr.	Pkg	Pins	Memory Size	Memory Config	Operating Voltage (V)	Operating Temp (°C)	Mftrs. List No.	Order Code	1+	10+	Price Each 100+	250+	500+
2 Kb														
93AA56	MCHIP	SOIC	8	2Kbit	256 x 8bit or 128 x 16bit	1.8 to 5.5	-40 to +85	93AA56C-I/SN	SMD 133-1428●	0.350	0.220	0.150	– –	– –
93AA56	MCHIP	DFN	8	2Kbit	256 x 8bit or 128 x 16bit	1.8 to 5.5	-40 to +85	93AA56CT-I/MC	SMD 133-1429●	0.450	0.290	0.200	– –	– –
93C56	SEI	SOP	8	2Kbit	128 x 16bit	1.8 to 5.5	-40 to +85	S-93C56BD0I-J8T1G	NEW SMD 160-6981● RL	1.260	1.070	0.920	0.800	– –
93L56	ROHM	SOP	8	2Kbit	128 x 16bit	1.8 to 5.5	-40 to +85	BR93L56RF-WE2	NEW SMD 162-0336● RL	0.370	0.270	0.178	0.157	0.136
93C56	CAT	SOIC	8	2Kbit	128 x 16bit or 256 x 8bit	1.8 to 5.5	-40 to +85	CAT93C56VI-G	NEW SMD 163-1148●	0.330	0.260	0.169	0.147	0.124
93LC56	HT	SOIC	8	2Kbit	256 x 8bit or 128 x 16bit	2.2 to 5.5	-40 to +85	HT93LC56-8SOP-A	SMD 120-7992●	1.110	0.850	0.630	0.490	0.420
93C56	CAT	SOIC	8	2Kbit	256 x 8bit or 128 x 16bit	2.5 to 6	-40 to +85	CAT93C56VI	SMD 880-3641●	0.300	0.260	0.210	– –	– –
93LC56	MCHIP	SOIC	8	2Kbit	128 x 16bit	2.5 to 5.5	0 to +70	93LC56B/SN	SMD 975-8240●	0.300	0.180	0.130	– –	– –
93LC56	MCHIP	SOIC	8	2Kbit	128 x 16bit	2.5 to 5.5	-40 to +85	93LC56B-I/SN	SMD 975-8259●	0.350	0.220	0.150	– –	– –
93C56	ST	SOIC	8	2Kbit	256 x 8bit or 128 x 16bit	2.5 to 5.5	-40 to +85	M93C56-WMN6P	SMD 988-2448●	0.670	0.500	0.420	0.330	0.280
93LC56	MCHIP	DIP	8	2Kbit	128 x 16bit	2.5 to 5.5	0 to +70	93LC56B/P	108-4250●	0.370	0.230	0.160	– –	– –
93LC56	MCHIP	SOIC	8	2Kbit	256 x 8bit or 128 x 16bit	2.5 to 5.5	0 to +70	93LC56/SN	SMD 120-0028●	0.720	0.460	0.320	– –	– –
93LC56	MCHIP	DIP	8	2Kbit	256 x 8bit	2.5 to 5.5	0 to +70	93LC56A/P	121-2671●	0.370	0.230	0.160	– –	– –
93LC56	MCHIP	SOIC	8	2Kbit	256 x 8bit	2.5 to 5.5	0 to +70	93LC56A/SN	SMD 121-2672●	0.350	0.220	0.150	– –	– –
93LC56	MCHIP	PDIP	8	2Kbit	256 x 8bit	2.5 to 5.5	-40 to +85	93LC56A-I/P	133-1464●	0.370	0.230	0.160	– –	– –
93LC56	MCHIP	SOIC	8	2Kbit	256 x 8bit	2.5 to 5.5	-40 to +85	93LC56A-I/SN	SMD 133-1465●	0.350	0.220	0.150	– –	– –
93LC56	MCHIP	MSOP	8	2Kbit	128 x 16bit	2.5 to 5.5	-40 to +85	93LC56B-I/MS	SMD 133-1466●	0.410	0.260	0.180	– –	– –
93LC56	MCHIP	MSOP	8	2Kbit	256 x 8bit or 128 x 16bit	2.5 to 5.5	-40 to +85	93LC56C-I/MS	SMD 133-1467●	0.410	0.260	0.180	– –	– –
93LC56	MCHIP	DIP	8	2Kbit	128 x 16bit	2.5 to 6	-40 to +85	93LC56B-I/P	NEW 146-7725●	0.310	0.200	0.140	– –	– –
93LC56	MCHIP	PDIP	8	2Kbit	256 x 8bit or 128 x 16bit	2.5 to 5.5	-40 to +85	93LC56C-I/P	NEW 155-6157●	0.370	0.230	0.160	– –	– –
93LC56	MCHIP	SOT-23	6	2Kbit	128 x 16bit	2.5 to 5.5	-40 to +85	93LC56BT-I/OT	NEW SMD 155-6165●	0.350	0.220	0.150	– –	– –
93LC56	MCHIP	SOIC	8	2Kbit	256 x 8bit or 128 x 16bit	2.5 to 5.5	-40 to +85	93LC56C-I/SN	NEW SMD 155-6166●	0.350	0.220	0.150	– –	– –
4 Kb														
93AA66	MCHIP	MSOP	8	4Kbit	512 x 8bit	1.8 to 5.5	-40 to +85	93AA66A-I/MS	SMD 133-1430●	0.430	0.270	0.190	– –	– –
93AA66	MCHIP	SOIC	8	4Kbit	512 x 8bit	1.8 to 5.5	-40 to +85	93AA66A-I/SN	SMD 133-1432●	0.370	0.230	0.160	– –	– –
93AA66	MCHIP	SOT-23	6	4Kbit	512 x 8bit	1.8 to 5.5	-40 to +85	93AA66AT-I/OT	SMD 133-1433●	0.370	0.230	0.160	– –	– –
93AA66	MCHIP	MSOP	8	4Kbit	256 x 16bit	1.8 to 5.5	-40 to +85	93AA66B-I/MS	SMD 133-1434●	0.430	0.270	0.190	– –	– –
93AA66	MCHIP	SOIC	8	4Kbit	256 x 16bit	1.8 to 5.5	-40 to +85	93AA66B-I/SN	SMD 133-1436●	0.370	0.230	0.160	– –	– –
93AA66	MCHIP	SOT-23	6	4Kbit	256 x 16bit	1.8 to 5.5	-40 to +85	93AA66BT-I/OT	SMD 133-1438●	0.370	0.230	0.160	– –	– –
93AA66	MCHIP	MSOP	8	4Kbit	512 x 8bit or 256 x 16bit	1.8 to 5.5	-40 to +85	93AA66C-I/MS	SMD 133-1439●	0.430	0.270	0.190	– –	– –
93AA66	MCHIP	PDIP	8	4Kbit	512 x 8bit or 256 x 16bit	1.8 to 5.5	-40 to +85	93AA66C-I/P	133-1440●	0.410	0.260	0.180	– –	– –
93AA66	MCHIP	SOIC	8	4Kbit	512 x 8bit or 256 x 16bit	1.8 to 5.5	-40 to +85	93AA66C-I/SN	SMD 133-1441●	0.370	0.230	0.160	– –	– –
93AA66	MCHIP	DFN	8	4Kbit	512 x 8bit or 256 x 16bit	1.8 to 5.5	-40 to +85	93AA66CT-I/MC	SMD 133-1442●	0.490	0.310	0.220	– –	– –
93C66	SEI	SOP	8	4Kbit	256 x 16bit	1.8 to 5.5	-40 to +85	S-93C66BD0I-J8T1G	NEW SMD 160-6982● RL	0.690	0.580	0.500	0.440	– –
93L66	ROHM	SOP	8	4Kbit	256 x 16bit	1.8 to 5.5	-40 to +85	BR93L66RF-WE2	NEW SMD 162-0337● RL	0.470	0.340	0.220	0.196	0.168
93C66	CAT	SOIC	8	4Kbit	512K x 8bit or 256K x 16bit	1.8 to 5.5	-40 to +85	CAT93C66VI-G	NEW SMD 163-1149●	0.360	0.290	0.192	0.169	0.147
93C66	ST	DFN	8	4Kbit	512K x 8bit	1.8 to 5.5	-40 to +85	M93C66-RMB6TG	NEW SMD 167-1324● RL	0.650	0.480	0.350	– –	– –
93C66	CAT	SOIC	8	4Kbit	512 x 8bit or 256 x 16bit	2.5 to 6	-40 to +85	CAT93C66VI	SMD 880-3650●	0.320	0.280	0.220	– –	– –
93LC66	MCHIP	DIP	8	4Kbit	512 x 8bit	2.5 to 5.5	0 to +70	93LC66A/P	975-8267●	0.350	0.220	0.150	– –	– –
93LC66	MCHIP	SOIC	8	4Kbit	512 x 8bit	2.5 to 5.5	0 to +70	93LC66A/SN	SMD 975-8275●	0.370	0.230	0.160	– –	– –
93LC66	MCHIP	DIP	8	4Kbit	256 x 16bit	2.5 to 5.5	0 to +70	93LC66B/P	975-8283●	0.410	0.260	0.180	– –	– –
93LC66	MCHIP	SOIC	8	4Kbit	256 x 16bit	2.5 to 5.5	0 to +70	93LC66B/SN	SMD 975-8291●	0.310	0.200	0.140	– –	– –
93LC66	MCHIP	SOIC	8	4Kbit	256 x 16bit	2.5 to 5.5	-40 to +85	93LC66B-I/SN	SMD 975-8305●	0.370	0.230	0.160	– –	– –
93S66	ST	SOIC	8	4Kbit	512 x 8bit or 256 x 16bit	2.5 to 5.5	-40 to +85	M93C66-WMN6P	SMD 988-2758●	0.630	0.440	0.330	– –	– –
93LC66	MCHIP	SOIC	8	4Kbit	512 x 8bit or 256 x 16bit	2.5 to 5.5	-40 to +85	93LC66C-I/SN	SMD 120-0437●	0.370	0.230	0.160	– –	– –
93LC66	MCHIP	SOIC	8	4Kbit	512 x 8bit or 256 x 16bit	2.5 to 5.5	-40 to +85	93LC66/SN	SMD 129-6586●	0.720	0.460	0.320	– –	– –
93LC66	MCHIP	MSOP	8	4Kbit	512 x 8bit	2.5 to 5.5	-40 to +85	93LC66A-I/MS	SMD 133-1469●	0.430	0.270	0.190	– –	– –
93LC66	MCHIP	PDIP	8	4Kbit	512 x 8bit	2.5 to 5.5	-40 to +85	93LC66A-I/P	133-1470●	0.410	0.260	0.180	– –	– –
93LC66	MCHIP	SOIC	8	4Kbit	512 x 8bit	2.5 to 5.5	-40 to +85	93LC66A-I/SN	SMD 133-1471●	0.370	0.230	0.160	– –	– –
93LC66	MCHIP	MSOP	8	4Kbit	256 x 16bit	2.5 to 5.5	-40 to +85	93LC66B-I/MS	SMD 133-1472●	0.430	0.270	0.190	– –	– –
93LC66	MCHIP	PDIP	8	4Kbit	256 x 16bit	2.5 to 5.5	-40 to +85	93LC66B-I/P	NEW 155-6167●	0.410	0.260	0.180	– –	– –
93LC66	MCHIP	SOT-23	6	4Kbit	512 x 8bit or 256 x 16bit	2.5 to 5.5	-40 to +85	93LC66BT-I/OT	NEW SMD 155-6168●	0.370	0.230	0.160	– –	– –
93LC66	MCHIP	PDIP	8	4Kbit	256 x 16bit	2.5 to 5.5	-40 to +85	93LC66C-I/P	NEW 155-6169●	0.410	0.260	0.180	– –	– –
8 Kb														
93AA76	MCHIP	SOT-23	6	8Kbit	1K x 8bit	1.8 to 5.5	-40 to +85	93AA76AT-I/OT	SMD 133-1443●	0.510	0.330	0.230	– –	– –
93AA76	MCHIP	SOT-23	6	8Kbit	512 x 16bit	1.8 to 5.5	-40 to +85	93AA76BT-I/OT	SMD 133-1444●	0.510	0.330	0.230	– –	– –
93AA76	MCHIP	MSOP	8	8Kbit	1K x 8bit or 512 x 16bit	1.8 to 5.5	-40 to +85	93AA76C-I/MS	SMD 133-1445●	0.570	0.360	0.260	– –	– –
93AA76	MCHIP	SOIC	8	8Kbit	1K x 8bit or 512 x 16bit	1.8 to 5.5	-40 to +85	93AA76C-I/SN	SMD 133-1447●	0.510	0.330	0.230	– –	– –
93C76	SEI	SOP	8	8Kbit	512 x 16bit	1.8 to 5.5	-40 to +85	S-93C76ADFJ-TB-G	NEW SMD 160-6983● RL	2.140	1.800	1.560	1.350	– –
93LC76	MCHIP	MSOP	8	8Kbit	1K x 8bit or 512 x 16bit	2.5 to 5.5	-40 to +85	93LC76C-I/MS	SMD 133-1476●	0.570	0.360	0.260	– –	– –
93LC76	MCHIP	SOIC	8	8Kbit	1K x 8bit or 512 x 16bit	2.5 to 5.5	-40 to +85	93LC76C-I/SN	NEW SMD 155-6158●	0.510	0.330	0.230	– –	– –
93LC76	MCHIP	SOT-23	6	8Kbit	512 x 16bit	2.5 to 5.5	-40 to +85	93LC76BT-I/OT	NEW SMD 155-6170●	0.510	0.330	0.230	– –	– –
93LC76C	MCHIP	PDIP	8	8Kbit	1K x 8bit or 512 x 16bit	2.5 to 5.5	-40 to +85	93LC76C-I/P	NEW 155-6171●	0.550	0.350	0.250	– –	– –
16 Kb														
93AA86	MCHIP	SOT-23	6	16Kbit	2K x 8bit	1.8 to 5.5	-40 to +85	93AA86AT-I/OT	SMD 133-1448●	0.570	0.360	0.260	– –	– –
93AA86	MCHIP	SOT-23	6	16Kbit	1K x 16bit	1.8 to 5.5	-40 to +85	93AA86BT-I/OT	SMD 133-1451●	0.570	0.360	0.260	– –	– –
93AA86	MCHIP	MSOP	8	16Kbit	2K x 8bit or 1K x 16bit	1.8 to 5.5	-40 to +85	93AA86C-I/MS	SMD 133-1452●	0.630	0.400	0.280	– –	– –
93AA86	MCHIP	SOIC	8	16Kbit	2K x 8bit or 1K x 16bit	1.8 to 5.5	-40 to +85	93AA86C-I/SN	SMD 133-1455●	0.570	0.360	0.260	– –	– –
93C86	CAT	SOIC	8	16Kbit	2K x 8bit or 1K x 16bit	2.5 to 6	-40 to +85	CAT93C86VI	SMD 880-3692●	0.390	0.330	0.260	– –	– –
93C86	ST	DIP	8	16Kbit	2K x 8bit or 1K x 16bit	2.5 to 5.5	-40 to +85	M93C86-WBN6P	988-2693●	1.300	0.750	0.550	– –	– –
93C86	ST	SOIC	8	16Kbit	2K x 8bit or 1K x 16bit	2.5 to 5.5	-40 to +85	M93C86-WMN6P	SMD 988-2707●	0.930	0.670	0.480	– –	– –
93LC86	MCHIP	SOIC	8	16Kbit	2K x 8bit or 1K x 16bit	2.5 to 5.5	-40 to +85	93LC86-I/SN	SMD 119-6821●	1.140	0.730	0.510	– –	– –
93LC86	MCHIP	DIP	8	16Kbit	2K x 8bit or 1K x 16bit	2.5 to 5.5	-40 to +85	93LC86C-I/P	119-6824●	0.590	0.380	0.270	– –	– –
93LC86	MCHIP	DIP	8	16Kbit	2K x 8bit or 1K x 16bit	2.5 to 5.5	0 to +70	93LC86/P	129-6587●	1.170	0.740	0.520	– –	– –
93LC86	MCHIP	MSOP	8	16Kbit	2K x 8bit or 1K x 16bit	2.5 to 5.5	-40 to +85	93LC86C-I/MS	SMD 133-1477●	0.630	0.400	0.280	– –	– –
93LC86	MCHIP	SOT-23	6	16Kbit	1K x 16bit	2.5 to 5.5	-40 to +85	93LC86BT-I/OT	NEW SMD 155-6172●	0.570	0.360	0.260	– –	– –
93LC86	MCHIP	SOIC	8	16Kbit	2K x 8bit or 1K x 16bit	2.5 to 5.5	-40 to +85	93LC86C-I/SN	NEW SMD 155-6173●	0.570	0.360	0.260	– –	– –

For **Heatsinks for SMD package** see page 766. And for **IC Sockets** see page 749

EEPROM - SPI

210473

	Mftr.	Pkg	Pins	Memory Size	Memory Config	Operating Voltage (V)	Operating Temp (°C)	Mftrs. List No.	Order Code	1+	10+	Price Each 100+	250+	500+
1 Kb														
25AA010	MCHIP	MSOP	8	1Kbit	128 x 8bit	1.8 to 5.5	-40 to +85	25AA010A-I/MS	SMD 133-1337●	0.570	0.360	0.260	– –	– –
25AA010	MCHIP	PDIP	8	1Kbit	128 x 8bit	1.8 to 5.5	-40 to +85	25AA010A-I/P	133-1338●	0.550	0.350	0.250	– –	– –
25AA010	MCHIP	SOIC	8	1Kbit	128 x 8bit	1.8 to 5.5	-40 to +85	25AA010A-I/SN	SMD 133-1339●	0.510	0.330	0.230	– –	– –
25AA010	MCHIP	SOT-23	6	1Kbit	128 x 8bit	1.8 to 5.5	-40 to +85	25AA010AT-I/OT	SMD 133-1340●	0.510	0.330	0.230	– –	– –
25AA1024	MCHIP	PDIP	8	1Kbit	128 x 8bit	1.8 to 5.5	-40 to +85	25AA1024-I/P	NEW 154-8441●	4.500	2.860	2.020	– –	– –
25AA1024	MCHIP	SOIC	8	1Kbit	128 x 8bit	1.8 to 5.5	-40 to +85	25AA1024-I/SM	NEW SMD 155-5678●	4.500	2.860	2.020	– –	– –
25AA1024	MCHIP	DFN	8	1Kbit	128 x 8bit	1.8 to 5.5	-40 to +85	25AA1024-I/MF	NEW SMD 161-7312●	4.950	3.150	2.220	– –	– –
24C01	ST	DIP	8	1Kbit	128 x 8bit	2.5 to 5.5	-40 to 85	M24C01-WBN6	366-2901▲	0.390	0.380	0.370	– –	– –
95010	ST	SO	8	1Kbit	128 x 8bit	2.5 to 5.5	-40 to +85	M95010-WMN6P	SMD 109-9709●	0.330	0.240	0.190	– –	– –

RL Re-reeling available

Farnell

EPROMs, EEPROMs and FLASH Memory - continued

EEPROM - SPI - continued

	Mftr.	Pkg	Pins	Memory Size	Memory Config	Operating Voltage (V)	Operating Temp (°C)	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
1 Kb														
25LC010	MCHIP	PDIP	8	1Kbit	128 x 8bit	2.5 to 5.5	-40 to +85	25LC010A-I/P	133-1377	0.550	0.350	0.250	– –	– –
25LC010	MCHIP	SOIC	8	1Kbit	128 x 8bit	2.5 to 5.5	-40 to +85	25LC010A-I/SN	SMD 133-1378	0.510	0.330	0.230	– –	– –
25LC010	MCHIP	SOT-23	6	1Kbit	128 x 8bit	2.5 to 5.5	-40 to +85	25LC010AT-I/OT	SMD 133-1379	0.510	0.330	0.230	– –	– –
2 Kb														
25AA020	MCHIP	MSOP	8	2Kbit	256 x 8bit	1.8 to 5.5	-40 to +85	25AA020A-I/MS	SMD 133-1341	0.590	0.380	0.270	– –	– –
25AA020	MCHIP	PDIP	8	2Kbit	256 x 8bit	1.8 to 5.5	-40 to +85	25AA020A-I/P	133-1342	0.570	0.360	0.260	– –	– –
25AA020	MCHIP	SOIC	8	2Kbit	256 x 8bit	1.8 to 5.5	-40 to +85	25AA020A-I/SN	SMD 133-1343	0.550	0.350	0.250	– –	– –
25AA020	MCHIP	SOT-23	6	2Kbit	256 x 8bit	1.8 to 5.5	-40 to +85	25AA020AT-I/OT	SMD 133-1344	0.550	0.350	0.250	– –	– –
95020	ST	DFN	8	2Kbit	256K x 8bit	1.8 to 5.5	-40 to +85	M95020-RMB6TG	NEW SMD 167-1323 RL	0.650	0.480	0.350	– –	– –
28DG02	MAX	TSSOP	28	2Kbit	256 x 8bit	2.2 to 5.25	-40 to +85	DS28DG02E-3C+	SMD 143-3243	2.980	2.540	1.940	1.880	1.840
28DG02	MAX	TQFN	36	2Kbit	256 x 8bit	2.2 to 5.25	-40 to +85	DS28DG02G-3C+	SMD 143-3244	3.190	2.700	2.070	2.020	1.960
95020	ST	SOIC	8	2Kbit	256 x 8bit	2.5 to 5.5	-40 to +85	M95020-WMN6P	SMD 121-8168	1.170	0.910	0.670	– –	– –
25LC020	MCHIP	MSOP	8	2Kbit	256 x 8bit	2.5 to 5.5	-40 to +85	25LC020A-I/MS	SMD 133-1380	0.590	0.380	0.270	– –	– –
25LC020	MCHIP	PDIP	8	2Kbit	256 x 8bit	2.5 to 5.5	-40 to +85	25LC020A-I/P	133-1381	0.570	0.360	0.260	– –	– –
25LC020	MCHIP	SOIC	8	2Kbit	256 x 8bit	2.5 to 5.5	-40 to +85	25LC020A-I/SN	SMD 133-1382	0.550	0.350	0.250	– –	– –
25LC020	MCHIP	SOT-23	6	2Kbit	256 x 8bit	2.5 to 5.5	-40 to +85	25LC020AT-I/OT	SMD 133-1384	0.550	0.350	0.250	– –	– –
4 Kb														
25AA040	MCHIP	MSOP	8	4Kbit	512 x 8bit	1.8 to 5.5	-40 to +85	25AA040A-I/MS	SMD 133-1345	0.630	0.400	0.280	– –	– –
25AA040	MCHIP	PDIP	8	4Kbit	512 x 8bit	1.8 to 5.5	-40 to +85	25AA040A-I/P	133-1347	0.590	0.380	0.270	– –	– –
25AA040	MCHIP	SOIC	8	4Kbit	512 x 8bit	1.8 to 5.5	-40 to +85	25AA040A-I/SN	SMD 133-1348	0.570	0.360	0.260	– –	– –
25AA040	MCHIP	SOT-23	6	4Kbit	512 x 8bit	1.8 to 5.5	-40 to +85	25AA040AT-I/OT	SMD 133-1349	0.570	0.360	0.260	– –	– –
95040	ST	DFN	8	4Kbit	512K x 8bit	1.8 to 5.5	-40 to +85	M95040-RMB6TG	NEW SMD 167-1322 RL	0.800	0.580	0.430	– –	– –
25LC040	MCHIP	DIP	8	4Kbit	512 x 8bit	2.5 to 5.5	0 to +70	25LC040/P	975-8100	0.720	0.460	0.320	– –	– –
25LC040	MCHIP	SOIC	8	4Kbit	512 x 8bit	2.5 to 5.5	-40 to +85	25LC040-I/SN	SMD 975-8119	0.700	0.440	0.310	– –	– –
25LC040	MCHIP	SOIC	8	4Kbit	512 x 8bit	2.5 to 5.5	0 to +70	25LC040/SN	SMD 108-4247	0.700	0.440	0.310	– –	– –
95040	ST	SOIC	8	4Kbit	512 x 8bit	2.5 to 5.5	-40 to +85	M95040-WMN6P	SMD 121-8169	0.970	0.750	0.550	– –	– –
25LC040	MCHIP	MSOP	8	4Kbit	512 x 8bit	2.5 to 5.5	-40 to +85	25LC040A-I/MS	SMD 133-1385	0.630	0.400	0.280	– –	– –
25LC040	MCHIP	PDIP	8	4Kbit	512 x 8bit	2.5 to 5.5	-40 to +85	25LC040A-I/P	133-1386	0.590	0.380	0.270	– –	– –
25LC040	MCHIP	SOIC	8	4Kbit	512 x 8bit	2.5 to 5.5	-40 to +85	25LC040A-I/SN	SMD 133-1387	0.570	0.360	0.260	– –	– –
25LC040	MCHIP	SOT-23	6	4Kbit	512 x 8bit	2.5 to 5.5	-40 to +85	25LC040AT-I/OT	SMD 133-1388	0.570	0.360	0.260	– –	– –
25C040	MCHIP	DIP	8	4Kbit	512 x 8bit	4.5 to 5.5	0 to +70	25C040/P	NEW 160-7554	0.720	0.460	0.320	– –	– –
25C040	MCHIP	DIP	8	4Kbit	512 x 8bit	4.5 to 5.5	0 to +70	25C040-I/P	NEW 160-7555	0.720	0.460	0.320	– –	– –
8 Kb														
25C080	SEI	SOP	8	8Kbit	1K x 8bit	1.6 to 5.5	-40 to +85	S-25C080A0I-J8T1G	NEW SMD 160-6984 RL	1.660	1.390	1.190	1.040	– –
25080	CAT	SOIC	8	8Kbit	1K x 8bit	1.8 to 5.5	-40 to +85	CAT25080VI-G	NEW SMD 163-1127	0.490	0.380	0.260	0.230	0.192
25080	CAT	TSSOP	8	8Kbit	1K x 8bit	1.8 to 5.5	-40 to +85	CAT25080YI-G	NEW SMD 163-1129	0.490	0.380	0.260	0.230	0.192
25AA080	MCHIP	PDIP	8	8Kbit	1K x 8bit	1.8 to 5.5	-40 to +85	25AA080A-I/P	133-1352	0.740	0.470	0.330	– –	– –
25AA080	MCHIP	SOIC	8	8Kbit	1K x 8bit	1.8 to 5.5	-40 to +85	25AA080A-I/SN	SMD 133-1354	0.720	0.460	0.320	– –	– –
25AA080	MCHIP	SOIC	8	8Kbit	1K x 8bit	1.8 to 5.5	-40 to +85	25AA080B-I/SN	SMD 133-1357	0.720	0.460	0.320	– –	– –
95080	ST	DFN	8	8Kbit	1K x 8bit	1.8 to 5.5	-40 to +85	M95080-RMB6TG	NEW SMD 167-1321 RL	1.310	0.950	0.700	– –	– –
95080	ST	SO	8	8Kbit	1K x 8bit	2.5 to 5.5	-40 to +85	M95080-WMN6P	SMD 109-9710	0.480	0.360	0.290	– –	– –
25LC080	MCHIP	SOIC	8	8Kbit	1K x 8bit	2.5 to 5.5	-40 to +85	25LC080/SN	SMD 113-7302	0.920	0.590	0.420	– –	– –
25LC080	MCHIP	SOIC	8	8Kbit	1K x 8bit	2.5 to 5.5	-40 to +85	25LC080A-I/SN	SMD 119-6822	0.720	0.460	0.320	– –	– –
25LC080	MCHIP	MSOP	8	8Kbit	1K x 8bit	2.5 to 5.5	-40 to +85	25LC080A-I/MS	SMD 133-1389	0.780	0.490	0.350	– –	– –
25LC080	MCHIP	PDIP	8	8Kbit	1K x 8bit	2.5 to 5.5	-40 to +85	25LC080A-I/P	NEW 155-6142	0.740	0.470	0.330	– –	– –
25LC080	MCHIP	PDIP	8	8Kbit	1K x 8bit	2.5 to 5.5	-40 to +85	25LC080B-I/P	NEW 155-6143	0.740	0.470	0.330	– –	– –
25LC080	MCHIP	SOIC	8	8Kbit	1K x 8bit	2.5 to 5.5	-40 to +85	25LC080B-I/SN	NEW SMD 155-6144	0.720	0.460	0.320	– –	– –
25C08	CAT	SOIC	8	8Kbit	1K x 8bit	2.5 to 6	-40 to +85	CAT25C08VI	SMD 880-3528	0.500	0.440	0.340	– –	– –
16 Kb														
25AA160	MCHIP	SOIC	8	16Kbit	2K x 8bit	1.8 to 5.5	-40 to +85	25AA160A-I/SN	SMD 133-1362	0.740	0.470	0.330	– –	– –
25AA160	MCHIP	SOIC	8	16Kbit	2K x 8bit	1.8 to 5.5	-40 to +85	25AA160B-I/SN	SMD 133-1365	0.740	0.470	0.330	– –	– –
25160	CAT	SOIC	8	16Kbit	2K x 8bit	1.8 to 5.5	-40 to +85	CAT25160VI-G	NEW SMD 163-1128	0.520	0.420	0.280	0.250	0.210
25160	CAT	TSSOP	8	16Kbit	2K x 8bit	1.8 to 5.5	-40 to +85	CAT25160YI-G	NEW SMD 163-1130	0.520	0.420	0.280	0.250	0.210
95160	ST	DFN	8	16Kbit	2K x 8bit	1.8 to 5.5	-40 to +85	M95160-RMB6TG	NEW SMD 167-1320 RL	1.020	0.740	0.550	– –	– –
25LC160	MCHIP	SOIC	8	16Kbit	2K x 8bit	2.5 to 5.5	-40 to +85	25LC160/SN	SMD 975-8127	0.960	0.610	0.430	– –	– –
25LC160	MCHIP	SOIC	8	16Kbit	2K x 8bit	2.5 to 5.5	-40 to +85	25LC160-I/SN	SMD 975-8135	1.120	0.720	0.500	– –	– –
25LC160	MCHIP	DIP	8	16Kbit	2K x 8bit	2.5 to 5.5	-40 to +85	25LC160/P	108-4248	1.140	0.730	0.510	– –	– –
25LC160	MCHIP	SOIC	8	16Kbit	2K x 8bit	2.5 to 5.5	-40 to +85	25LC160A-I/SN	SMD 108-4340	0.740	0.470	0.330	– –	– –
95160	ST	SOIC	8	16Kbit	2K x 8bit	2.5 to 5.5	-40 to +85	M95160-WMN6P	SMD 121-8167	1.310	0.970	0.750	– –	– –
25LC160	MCHIP	PDIP	8	16Kbit	2K x 8bit	2.5 to 5.5	-40 to +85	25LC160A-I/P	NEW 155-6147	0.780	0.490	0.350	– –	– –
25LC160	MCHIP	PDIP	8	16Kbit	2K x 8bit	2.5 to 5.5	-40 to +85	25LC160B-I/P	NEW 155-6148	0.780	0.490	0.350	– –	– –
25LC160	MCHIP	SOIC	8	16Kbit	2K x 8bit	2.5 to 5.5	-40 to +85	25LC160B-I/SN	NEW SMD 155-6151	0.740	0.470	0.330	– –	– –
25LC160	MCHIP	MSOP	8	16Kbit	2K x 8bit	2.5 to 5.5	-40 to +85	25LC160B-I/MS	SMD 133-1396	0.800	0.510	0.360	– –	– –
32 Kb														
25AA320	MCHIP	MSOP	8	32Kbit	4K x 8bit	1.8 to 5.5	-40 to +85	25AA320A-I/MS	SMD 133-1370	0.860	0.550	0.390	– –	– –
25AA320	MCHIP	PDIP	8	32Kbit	4K x 8bit	1.8 to 5.5	-40 to +85	25AA320A-I/P	133-1372	0.840	0.530	0.380	– –	– –
25AA320	MCHIP	SOIC	8	32Kbit	4K x 8bit	1.8 to 5.5	-40 to +85	25AA320A-I/SN	SMD 133-1373	0.800	0.510	0.360	– –	– –
95320	ST	DFN	8	32Kbit	4K x 8bit	1.8 to 5.5	-40 to +85	M95320-RMB6TG	NEW SMD 167-1319 RL	1.160	0.850	0.620	– –	– –
25LC320	MCHIP	DIP	8	32Kbit	4K x 8bit	2.5 to 5.5	0 to +70	25LC320/P	975-8143	0.730	0.470	0.330	– –	– –
25LC320	MCHIP	SOIC	8	32Kbit	4K x 8bit	2.5 to 5.5	0 to +70	25LC320/SN	SMD 108-4249	0.840	0.530	0.380	– –	– –
95320	ST	SOIC	8	32Kbit	4K x 8bit	2.5 to 5.5	-40 to +85	M95320-WMN6P	SMD 115-9692	2.020	1.710	1.330	– –	– –
25LC320	MCHIP	MSOP	8	32Kbit	4K x 8bit	2.5 to 5.5	-40 to +85	25LC320A-I/MS	SMD 133-1399	0.860	0.550	0.390	– –	– –
25LC320	MCHIP	PDIP	8	32Kbit	4K x 8bit	2.5 to 5.5	-40 to +85	25LC320A-I/P	133-1400	0.840	0.530	0.380	– –	– –
25LC320	MCHIP	SOIC	8	32Kbit	4K x 8bit	2.5 to 5.5	-40 to +85	25LC320A-I/SN	SMD 133-1402	0.800	0.510	0.360	– –	– –
25C320	MCHIP	SOIC	8	32Kbit	4K x 8bit	4.5 to 5.5	0 to +70	25C320/SN	NEW SMD 160-7556	0.840	0.530	0.380	– –	– –
64 Kb														
25640	CAT	SOIC	8	64Kbit	8K x 8bit	1.8 to 5.5	-40 to +85	CAT25640VI-G	NEW SMD 163-1131	0.770	0.610	0.410	0.360	0.310
25AA640	MCHIP	SOIC	8	64Kbit	8K x 8bit	1.8 to 5.5	-40 to +85	25AA640-I/SN	SMD 133-1374	0.840	0.530	0.380	– –	– –
25AA640	MCHIP	TSSOP	8	64Kbit	8K x 8bit	1.8 to 5.5	-40 to +85	25AA640X-I/ST	SMD 133-1375	0.880	0.560	0.390	– –	– –
95640	ST	DFN	8	64Kbit	8K x 8bit	1.8 to 5.5	-40 to +85	M95640-RMB6TG	NEW SMD 167-1318 RL	1.380	1.000	0.730	– –	– –
25LC640	MCHIP	DIP	8	64Kbit	8K x 8bit	2.5 to 5.5	-40 to +85	25LC640-I/P	975-8151	0.730	0.470	0.330	– –	– –
25LC640	MCHIP	SOIC	8	64Kbit	8K x 8bit	2.5 to 5.5	-40 to +85	25LC640-I/SN	SMD 975-8160	0.710	0.460	0.320	– –	– –
95640	ST	SOIC	8	64Kbit	8K x 8bit	2.5 to 5.5	-40 to +85	M95640-WMN6P	SMD 113-2001	2.600	1.950	1.380	– –	– –
25LC640	MCHIP	PDIP	8	64Kbit	8k x 8bit	2.5 to 5.5	-40 to +85	25LC640A-I/P	NEW 155-6154	0.840	0.530	0.380	– –	– –
25LC640	MCHIP	SOIC	8	64Kbit	8k x 8bit	2.5 to 5.5	-40 to +85	25LC640A-I/SN	NEW SMD 155-6155	0.800	0.510	0.360	– –	– –
25C64	CAT	SOIC	8	64Kbit	8K x 8bit	2.5 to 6	-40 to +85	CAT25C64VI	SMD 880-3609	0.820	0.700	0.570	– –	– –
128 Kb														
25128	CAT	SOIC	8	128Kbit	16K x 8bit	1.8 to 5.5	-40 to +85	CAT25128VI-G	NEW SMD 163-1132	0.930	0.750	0.490	0.430	0.370
95128	ST	DFN	8	128KB	16K x 8bit	1.8 to 5.5	to	M95128-RMB6TG	NEW SMD 167-1317 RL	2.900	2.110	1.540	– –	– –
95128	ST	SOIC	8	128Kbit	16K x 8bit	2.5 to 5.5	-40 to +85	M95128-WMN6P	SMD 975-5870	3.040	2.160	1.600	– –	– –
25LC128	MCHIP	PDIP	8	128Kbit	32k x 8bit	2.5 to 5.5	-40 to +85	25LC128-I/P	NEW 155-6145	1.310	0.830	0.590	– –	– –
25LC128	MCHIP	SOIC	8	128Kbit	32k x 8bit	2.5 to 5.5	-40 to +85	25LC128-I/SN	NEW SMD 155-6146	1.290	0.820	0.580	– –	– –
256 Kb														

RL Re-reeling available

	Mftr.	Pkg	Pins	Memory Size	Memory Config	Operating Voltage (V)	Operating Temp (°C)	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
256 Kb														
25AA256	MCHIP	DFN	8	256Kbit	32K x 8bit	1.8 to 5.5	-40 to +85	25AA256-I/MF	SMD 133-1366●	2.230	1.420	1.000	– –	– –
25AA256	MCHIP	PDIP	8	256Kbit	32K x 8bit	1.8 to 5.5	-40 to +85	25AA256-I/P	133-1367●	1.780	1.130	0.800	– –	– –
25AA256	MCHIP	SOIC	8	256Kbit	32K x 8bit	1.8 to 5.5	-40 to +85	25AA256-I/SN	SMD 133-1368●	1.740	1.110	0.780	– –	– –
25AA256	MCHIP	TSSOP	8	256Kbit	32K x 8bit	1.8 to 5.5	-40 to +85	25AA256-I/ST	SMD 133-1369●	1.800	1.140	0.810	– –	– –
25256	CAT	TSSOP	8	256Kbit	32K x 8bit	1.8 to 5.5	-40 to +85	CAT25256YI-G	NEW SMD 163-1133●	1.530	1.230	0.810	0.710	0.610
25256	CAT	SOIC	8	256Kbit	32K x 8bit	1.8 to 5.5	-40 to +85	CAT25256XI	NEW SMD 166-7070●	1.790	1.430	0.950	0.840	0.710
95256	ST	SO	8	256Kbit	32K x 8bit	2.5 to 5.5	-40 to +85	M95256-WMN6P	SMD 109-9712●	1.380	1.020	0.850	– –	– –
95256	ST	SO	8	256Kbit	32K x 8bit	2.5 to 5.5	-40 to +85	M95256-WMW6G	SMD 122-4434●	2.230	1.620	1.170	1.010	0.920
25LC256	MCHIP	SOIC	8	256Kbit	32K x 8bit	2.5 to 5.5	-40 to +85	25LC256-I/SN	SMD 129-6584●	1.740	1.110	0.780	– –	– –
25LC256	MCHIP	PDIP	8	256Kbit	32K x 8bit	2.5 to 5.5	-40 to +85	25LC256-I/P	133-1398●	1.780	1.130	0.800	– –	– –
512 Kb														
25LC512	MCHIP	PDIP	8	512Kbit	64k x 8bit	1.8 to 5.5	-40 to +85	25LC512-I/P	NEW 155-6152●	2.700	1.720	1.210	– –	– –
25LC512	MCHIP	SOIC	8	512Kbit	64k x 8bit	1.8 to 5.5	-40 to +85	25LC512-I/SN	NEW SMD 155-6153●	2.660	1.690	1.190	– –	– –
1 Mb														
25LC1024	MCHIP	DFN	8	1Mbit	128K x 8bit	2.5 to 5.5	-40 to +85	25LC1024-I/MF	SMD 133-1391●	4.950	3.150	2.220	– –	– –
25LC1024	MCHIP	PDIP	8	1Mbit	128K x 8bit	2.5 to 5.5	-40 to +85	25LC1024-I/P	133-1392●	4.500	2.860	2.020	– –	– –
25LC1024	MCHIP	SOIC	8	1Mbit	128K x 8bit	2.5 to 5.5	-40 to +85	25LC1024-I/SM	SMD 133-1393●	4.500	2.860	2.020	– –	– –

MPLAB Starter Kit for Serial Memory Products



Microchip's MPLAB Starter Kit for Serial Memory Products includes everything necessary to quickly develop a robust and reliable Serial EEPROM design, and reduces the time required for system integration and hardware/software fine-tuning.

Kit Contents:
- MPLAB Starter Kit for Serial Memory Products board
- CD (including MPLAB IDE, Integrated Serial EEPROM interface tool, Total Endurance™ software model, User's Guide)
- USB cable
- Serial EEPROM sample pack

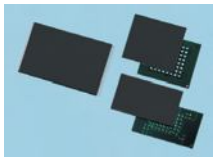
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	Mftrs. List No.	Order Code	Price Each
MPLAB Serial Memory Starter Kit	DV243003	159-4509●	57.20

Features:
- 3.3V and 5.0V on-board voltage selection
- Supports Microchip UNI/O™ bus, I²C™, SPI, and Microwire Serial EEPROMs
- 1.8V to 5.5V external voltage support
- Free copy of MPLAB IDE
- USB interconnect
- Windows 2000, XP, and Vista (32-bit)

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RoHS Compliant Items Only | Advanced Search

MirrorBit™ Low Voltage Flash Memory



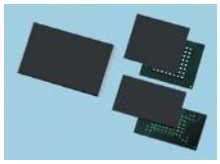
The MirrorBit™ cell is a breakthrough in NOR Flash memory cell architecture that enables a Flash memory product to hold twice as much data as standard Flash, without compromising device endurance, performance or reliability.

Features:
- Two bits of data stored in one memory cell; simple, symmetric cell architecture
- Two distinct charge storage areas within a single cell
- Two independently programmable units of charges per cell
- Easily scalable cell architecture
- Performance-enhancing read and write page buffers
- Flexible sector architecture

311805

	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
25FL008	8	SOP	8Mb (512K×8) CMOS 3V Flash Memory, 50 MHz SPI Bus	S25FL008A0LMFI001	SMD 147-8653●	1.16	1.06	0.89
25FL040	8	SOIC	4Mb (512K x 8) CMOS 3.0 Volt Flash Memory with 50 Mhz SPI Bus Interface	S25FL040A0LMFI001	NEW SMD 153-5455●	0.95	0.70	0.55
25FL016	16	SOIC	16Mb (512Kx32) CMOS 3V Flash Memory, 50 MHz SPI Bus	S25FL016A0LMFI001	SMD 147-8654●	1.32	1.21	1.02
25FL032	16	SOIC	32 Mb (4M x 8) CMOS 3.0 Volt Flash Memory with 50 Mhz SPI Bus Interface	S25FL032A0LMFI001	NEW SMD 153-5454●	2.86	2.08	1.64
25FL064	16	SOIC	64Mb (512Kx128) CMOS 3V Flash Memory, 50 MHz SPI Bus	S25FL064A0LMFI001	SMD 147-8656●	4.53	3.77	3.23
25FL128	8	WSON	128Mbit SPI Flash, 3V, 104MHZ	S25FL128P0XNFI001	NEW 168-6545●	7.08	5.15	4.04
25FL128	16	SOIC	128Mb (16Mx8) CMOS 3.0 Volt Flash Memory with 104 MHz SPI Bus	S25FL128P0XMFI001	NEW SMD 153-5453●	7.89	5.73	4.50
25FL128	16	SOP	128Mbit SPI Flash, 3V, 104MHZ	S25FL128P0XMFI011	NEW 168-6544●	7.08	5.15	4.04

S29GL MirrorBit® Flash Family



The MirrorBi®t cell is a breakthrough in NOR Flash memory cell architecture that enables a Flash memory product to hold twice as much data as standard Flash, without compromising device endurance, performance or reliability.

Features:
- Single 3V read/program/erase (2.7-3.6 V)
- 8-word/16-byte page read buffer, 32-word/64-byte write buffer
- 128-word/256-byte Secured Silicon Sector (secure ID through an 8-word/16-byte random Electronic Serial Number)

499795

	Pins	Pkg	Memory Size	Memory Configuration	Access Time (ns)		Mftrs. List No.	Order Code	Price Each 1+	10+	100+
29LV32048		TSOP	32Mbit	2M x 16bit	120	Top Two Addresses Protected	S29GL032A11TFIR30	SMD 120-1491●	4.95	3.30	2.81
29LV32048		TSOP	32Mbit	2M x 16bit	120	Bottom Two Addresses Protected	S29GL032A11TFIR40	SMD 120-1492●	4.70	3.15	2.66
29LV64048		TSOP	64Mbit	4M x 16bit	120	Bottom Two Addresses Protected	S29GL064A90TFIR40	SMD 120-1490●	4.36	2.90	2.73
29LV64064		BGA	64Mbit	4M x 16bit	120	Highest Address Protected	S29GL064A90FFIR10	SMD 120-1498●	10.10	6.73	5.70
29GL06448		TSOP	64Mbit	8M x 8bit or 4M x 16bit	90	Top Two Addresses Protected	S29GL064N90TFI030	NEW 168-6548●	4.35	3.16	2.49
29GL06448		TSOP	64Mbit	8M x 8bit or 4M x 16bit	90	Bottom Two Addresses Protected	S29GL064N90TFI040	NEW 168-6551●	4.35	3.16	2.49
29GL06464		FBGA	64Mbit	8M x 8bit or 4M x 16bit	90	Highest Address Protected	S29GL064N90FFI010	NEW 168-6546●	4.50	3.27	2.57
29GL06464		FBGA	64Mbit	8M x 8bit or 4M x 16bit	90	Lowest Address Protected	S29GL064N90FFI020	NEW 168-6547●	4.50	3.27	2.57
29GL12864		BGA	128Mbit	16M x 8bit or 8M x 16bit	100	Lowest Address Protected	S29GL128P10FFI020	SMD 153-5445●	9.18	6.68	5.24
29GL12856		TSOP	128Mbit	16M x 8bit or 8M x 16bit	100	Highest Address Protected	S29GL128P10TFI010	SMD 153-5446●	8.84	6.43	5.05
29GL12856		TSOP	128Mbit	16M x 8bit or 8M x 16bit	100	Lowest Address Protected	S29GL128P10TFI020	SMD 153-5447●	8.84	6.43	5.05
29GL12864		FBGA	128Mbit	16M x 8bit or 8M x 16bit	100	Highest Address Protected	S29GL128P10FFI010	NEW 168-6552●	7.53	5.47	4.30
29GL25664		FBGA	256Mbit	32M x 8bit or 16M x 16bit	100	Highest Address Protected	S29GL256P10FFI010	NEW 168-6553●	10.38	7.55	5.93
29GL25664		FBGA	256Mbit	32M x 8bit or 16M x 16bit	100	Lowest Address Protected	S29GL256P10FFI020	NEW 168-6554●	10.38	7.55	5.93
29GL25656		TSOP	256Mbit	32M x 8bit or 16M x 16bit	100	Highest Address Protected	S29GL256P10TFI010	SMD 153-5442●	12.21	8.88	6.97
29GL25656		TSOP	256Mbit	32M x 8bit or 16M x 16bit	100	Lowest Address Protected	S29GL256P10TFI020	SMD 153-5443●	12.21	8.88	6.97
29LV25664		BGA	256Mbit	32M x 8bit	120	Lowest Address Protected	S29GL256N10FFI020	SMD 120-1496●	20.90	13.94	11.80
29GL51264		BGA	512Mbit	32M x 16bit or 64M x 8bit	100	Highest Address Protected	S29GL512N10FFI010	SMD 147-8657●	17.53	13.48	11.68
29GL51264		BGA	512Mbit	32M x 16bit or 64M x 8bit	100	Lowest Address Protected	S29GL512N10FFI020	SMD 147-8658●	23.25	22.63	22.03

RL Re-reeling available

EPROMs, EEPROMs and FLASH Memory - continued

S29GL MirrorBit® Flash Family - continued

Pins	Pkg	Memory Size	Memory Configuration	Access Time (ns)	
29GL51256	TSOP	512Mbit	64M x 8bit or 32M x 16bit	110	Highest Address Protected
29GL51256	TSOP	512Mbit	64M x 8bit or 32M x 16bit	110	Lowest Address Protected
29GL51264	BGA	512Mbit	64M x 8bit or 32M x 16bit	110	Lowest Address Protected
29GL51264	BGA	512Mbit	64M x 8bit or 32M x 16bit	110	Highest Address Protected
29GL01 56	TSOP	1Gbit	128M x 8bit or 64M x 16bit	120	Highest Address Protected
29GL01 56	TSOP	1Gbit	128M x 8bit or 64M x 16bit	120	Lowest Address Protected
29GL01 64	BGA	1Gbit	128M x 8bit or 64M x 16bit	120	Highest Address Protected
29GL01 64	BGA	1Gbit	128M x 8bit or 64M x 16bit	120	Lowest Address Protected

Mftrs. List No.	Order Code	Price Each 1+	10+	100+
S29GL512P11TFI010	SMD 153-5436●	16.10	11.71	9.20
S29GL512P11TFI020	SMD 153-5437	16.10	11.71	9.20
S29GL512P11FFI020	SMD 153-5434●	16.61	12.07	9.49
S29GL512P11FFI010	SMD 153-5435●	16.61	12.07	9.49
S29GL01GP12TFI010	SMD 153-5440●	27.69	20.14	15.82
S29GL01GP12TFI020	NEW SMD 153-5441●	27.69	20.14	15.82
S29GL01GP12FFI010	SMD 153-5438	27.86	20.25	15.92
S29GL01GP12FFI020	SMD 153-5439●	27.86	20.25	15.92

FLASH Memory - 5V/3.3V

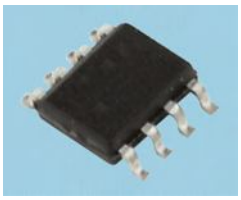
AMIC ATMEL CATALYST numonyx SPANSION

210537

	Mftr.	Pins	Pkg	Density	Config	Access Time (ns)	Voltage Range (V)	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
512Kb														
29LV512	ATM	32	PLCC	512Kbit	64K x 8bit	120	3 to 3.6	AT29LV512-12JU	SMD 145-5034●	2.15	1.48	1.21	1.13	1.06
29C512	ATM	32	PLCC	512Kbit	64K x 8bit	70	4.75 to 5.25	AT29C512-70JU	SMD 145-5032●	2.01	1.46	1.21	1.13	1.06
28F512	CAT	32	PLCC	512Kbit	64K x 8bit	120	4.5 to 5.5	CAT28F512GI-12	NEW SMD 163-1116●	4.12	2.99	2.36	2.20	– –
1Mb														
29LV010	SPN	32	TSOP	1Mbit	128K x 8bit	70	2.7 to 3.6	AM29LV010B-70ED	NEW SMD 160-7584●	1.63	1.04	0.82	– –	– –
29F010	SPN	32	PLCC	1Mbit	128K x 8bit	70	4.5 to 5.5	AM29F010B-70JD	SMD 120-1485●	1.90	1.26	1.06	– –	– –
29F010	SPN	32	TSOP	1Mbit	128K x 8bit	90	4.5 to 5.5	AM29F010B-90ED	SMD 120-1501●	2.01	1.34	1.13	– –	– –
29F010	SPN	32	PLCC	1Mbit	128K x 8bit	90	4.5 to 5.5	AM29F010B-90JD	SMD 120-1486●	1.90	1.26	1.06	– –	– –
29F010	SPN	32	DIP	1Mbit	128K x 8bit	70	4.5 to 5.5	AM29F010B-70PD	120-1536●	1.90	1.26	1.06	– –	– –
29F010	SPN	32	PLCC	1Mbit	128K x 8bit	120	4.5 to 5.5	AM29F010B-120JF	NEW SMD 160-7564●	1.67	1.00	0.79	– –	– –
29F010	SPN	32	DIP	1Mbit	128K x 8bit	120	4.5 to 5.5	AM29F010B-120PD	NEW SMD 160-7565●	1.65	0.98	0.77	– –	– –
29F010	SPN	32	PLCC	1Mbit	128K x 8bit	120	4.5 to 5.5	AM29F010B-120JD	NEW SMD 160-7563●	1.67	1.00	0.79	– –	– –
29F010	SPN	32	PLCC	1Mbit	128K x 8bit	70	4.5 to 5.5	AM29F010B-70JF	NEW SMD 160-7566●	1.38	0.88	0.68	– –	– –
29F010	SPN	32	DIP	1Mbit	128K x 8bit	90	4.5 to 5.5	AM29F010B-90PD	NEW 165-1963●	1.69	1.50	1.34	1.20	1.10
28F001	CAT	32	PLCC	1Mbit	128K x 8bit	120	4.5 to 5.5	CAT28F001G-12	NEW SMD 163-1126●	5.13	3.73	2.93	2.74	– –
28F010	CAT	32	PLCC	1Mbit	128K x 8bit	120	4.5 to 5.5	CAT28F010-GI-12	NEW SMD 163-1121●	5.13	3.73	2.93	2.83	– –
29F010	SPN	32	PLCC	1Mbit	128K x 8bit	45	4.75 to 5.25	AM29F010B-45JD	SMD 120-1500●	2.57	1.72	1.46	– –	– –
010	ATM	32	PLCC	1Mbit	128K x 8bit	70	4.75 to 5.25	AT29C010A-70JU	SMD 109-5785●	2.24	1.62	1.35	1.12	0.98
2Mb														
020	ATM	32	PLCC	2Mbit	256K x 8bit	70	4.5 to 5.5	AT29C020-70JU	SMD 109-5787●	2.94	2.16	1.79	1.50	1.30
29C020	ATM	32	PLCC	2Mbit	256K x 8bit	90	4.5 to 5.5	AT29C020-90JU	NEW SMD 150-3280●	2.71	2.22	1.73	1.62	1.55
28F020	CAT	32	PLCC	2Mbit	256K x 8bit	120	4.5 to 5.5	CAT28F020GI-12	NEW SMD 163-1124●	6.41	4.66	3.66	3.42	– –
28F020	CAT	32	PLCC	2Mbit	256K x 8bit	90	4.5 to 5.5	CAT28F020GI-90	NEW SMD 163-1122●	7.56	5.49	4.32	4.03	– –
4Mb														
29LV040	SPN	32	PLCC	4Mbit	512K x 8bit	70	2.7 to 3.6	AM29LV040B-70JD	SMD 120-1524●	3.30	2.20	1.85	– –	– –
29LV040	SPN	32	TSOP	4Mbit	512K x 8bit	90	2.7 to 3.6	AM29LV040B-90ED	SMD 120-1526●	2.88	1.93	1.63	– –	– –
29LV040	SPN	32	PLCC	4Mbit	512K x 8bit	90	2.7 to 3.6	AM29LV040B-90JD	SMD 120-1525●	2.77	1.86	1.58	– –	– –
29LV040	ATM	32	PLCC	4Mbit	512K x 8bit	150	3 to 3.6	AT29LV040A-15JU	SMD 145-5033●	4.62	3.08	2.52	2.36	2.21
29LV040	ATM	32	TSOP	4Mbit	512K x 8bit	200	3 to 3.6	AT29LV040A-15TU	SMD 120-0439●	4.66	3.08	2.52	– –	– –
29C040	ATM	32	PLCC	4Mbit	512K x 8bit	90	4.5 to 5.5	AT29C040A-90JU	SMD 145-5031●	4.12	3.03	2.53	2.36	2.22
29F040	SPN	32	TSOP	4Mbit	512K x 8bit	90	4.5 to 5.5	AM29F040B-90ED	SMD 120-1508●	2.42	1.63	1.36	– –	– –
29F040	SPN	32	PLCC	4Mbit	512K x 8bit	90	4.5 to 5.5	AM29F040B-90JD	SMD 120-1488●	2.42	1.63	1.36	– –	– –
29F040	SPN	32	PLCC	4Mbit	512K x 8bit	90	4.5 to 5.5	AM29F040B-90JF	SMD 120-1509●	2.42	1.63	1.36	– –	– –
29F040	SPN	32	DIP	4Mbit	512K x 8bit	90	4.5 to 5.5	AM29F040B-90PD	120-1510●	3.06	2.05	1.73	– –	– –
29F040	SPN	32	PLCC	4Mbit	512K x 8bit	120	4.5 to 5.5	AM29F040B-120JD	SMD 120-1483●	2.42	1.63	1.36	– –	– –
29F040	SPN	32	PLCC	4Mbit	512K x 8bit	120	4.5 to 5.5	AM29F040B-120JF	SMD 120-1504●	2.42	1.63	1.36	– –	– –
29F040	SPN	32	DIP	4Mbit	512K x 8bit	120	4.5 to 5.5	AM29F040B-120PD	120-1484●	3.06	2.05	1.73	– –	– –
29F040	AMIC	32	DIP	4Mbit	512K x 8bit	70	4.5 to 5.5	A29040B-70F	874-9493●	2.63	2.16	1.83	1.62	1.52
29F040	AMIC	32	PLCC	4Mbit	512K x 8bit	70	4.5 to 5.5	A29F040BL-70F	SMD 874-9507●	2.44	2.00	1.70	1.49	1.40
29F040	SPN	32	TSOP	4Mbit	512K x 8bit	70	4.5 to 5.5	AM29F040B-70ED	NEW SMD 160-7570●	1.75	1.10	0.86	– –	– –
29F040	SPN	32	PLCC	4Mbit	512K x 8bit	70	4.5 to 5.5	AM29F040B-70JD	NEW SMD 160-7572●	1.91	1.14	0.90	– –	– –
29F040	SPN	32	PLCC	4Mbit	512K x 8bit	70	4.5 to 5.5	AM29F040B-70JF	NEW SMD 160-7573●	1.95	1.17	0.91	– –	– –
29040	AMIC	32	PLCC	4Mbit	512K x 8bit	70	4.5 to 5.5	A29040BL-70F	NEW SMD 156-5992●	1.35	0.95	0.71	0.65	0.58
29F040	SPN	32	PLCC	4Mbit	512K x 8bit	55	4.75 to 5.25	AM29F040B-55JF	NEW SMD 160-7569●	2.08	1.30	1.02	– –	– –
29F040	SPN	32	PLCC	4Mbit	512K x 8bit	55	4.75 to 5.25	AM29F040B-55JD	SMD 120-1507●	2.90	1.94	1.64	– –	– –
8Mb														
29LV081	SPN	40	TSOP	8Mbit	1M x 8bit	70	2.7 to 3	AM29LV081B-70ED	NEW SMD 165-1962●	2.85	2.55	2.26	2.03	1.85
29LV081	SPN	40	TSOP	8Mbit	1M x 8bit	120	2.7 to 3.6	AM29LV081B-120ED	NEW SMD 160-7586●	2.64	1.57	1.23	– –	– –
080	NUM	40	TSOP	8Mbit	1M x 8bit	70	4.5 to 5.5	M29F080D70N6E	SMD 109-9682●	2.63	2.15	1.58	– –	– –
29F080	SPN	40	TSOP	8Mbit	1M x 8bit	90	4.5 to 5.5	AM29F080B-90ED	SMD 120-1511●	3.27	2.18	1.85	– –	– –
29F080	SPN	40	TSOP	8Mbit	1M x 8bit	90	4.5 to 5.5	AM29F080B-90EF	NEW SMD 160-7574●	2.48	1.57	1.23	– –	– –
29F080	SPN	44	SOIC	8Mbit	1M x 8bit	90	4.5 to 5.5	AM29F080B-90SD.	SMD 120-1512●	2.99	– –	– –	– –	– –
29F080	SPN	44	SOIC	8Mbit	1M x 8bit	90	4.5 to 5.5	AM29F080B-90SD	NEW SMD 160-7575●	2.83	1.69	1.34	– –	– –
16Mb														
29F016	SPN	48	TSOP	16Mbit	2M x 8bit	90	4.5 to 5.5	AM29F016D-90ED	SMD 120-1502●	6.04	4.02	3.41	– –	– –
32Mb														
29F032	SPN	40	TSOP	32Mbit	4M x 8bit	90	4.5 to 5.5	AM29F032B-90ED	SMD 120-1503●	10.67	7.11	6.03	– –	– –
64Mb														
29LV065	SPN	48	TSOP	64Mbit	8M x 8bit	90	3 to 3.6	AM29LV065DU90REF	NEW SMD 160-7585●	14.17	8.98	7.06	– –	– –
29LV641	SPN	48	TSOP	64Mbit	4M x 16bit	90	3 to 3.6	AM29LV641DH90REF	NEW SMD 160-7587●	14.25	9.03	7.10	– –	– –

DataFlash® Memory

ATMEL



These devices are all serial interface Flash memory. They have been designed for use in a wide variety of high-volume consumer based applications in which program code is shadowed from Flash memory into embedded or external RAM for execution. The flexible erase architecture makes them ideal for data storage, eliminating the need for additional data storage EEPROM devices.

Features:

- ● Serial Peripheral Interface (SPI) Compatible
- - Supports SPI Modes 0 and 3
- ● Data Retention: 20 Years
- ● Automatic Checking and Reporting of Erase/Program Failures
- ● JEDEC Standard Manufacturer and Device ID Read Methodology
- ● Flexible, Uniform Erase Architecture
- - 4-Kbyte Blocks
- - 32-Kbyte Blocks
- - 64-Kbyte Blocks
- - Full Chip Erase

496615

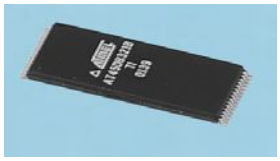
Mftrs. List No.	Pins/Package	Description	Max. Clock Frequency (MHz)	Operating Temperature	Order Code	Price Each 1+	10+	100+
AT26DF081A-SU	8/SOIC	8-megabit, 2.7-volt Only, Serial Firmware DataFlash® Memory	70	-40 to 85°C	SMD 145-5015●	1.42	1.11	0.78
AT26DF161A-SU	8/SOIC	16-megabit, 2.7-volt Only, Serial Firmware DataFlash® Memory	70	-40 to 85°C	SMD 145-5016●	2.47	2.21	2.07
AT26DF321-SU	8/SOIC	32-megabit, 2.7-volt Only, Serial Firmware DataFlash® Memory	66	-40 to 85°C	SMD 145-5017●	3.80	3.47	3.34

RL Re-reeling available

Farnell

Atmel AT45D Dataflash Memory





The Atmel AT45DBxxxx DataFlash family features all the storage performance of existing "parallel" NOR Flash architecture FLASH memories, but uses only 7 control signals to interface to a host processor. The DataFlash device's high-speed Serial SPI Interface frees up I/O pins on the host processor for other uses, and allows the DataFlash devices to be squeezed into smaller packages (8-pin SOIC up to 4 Mbits) which take up less board space. The devices are available in memory densities from 1 Mbits to 64 MBits and feature small page sizes with extra user-defined padding bytes per page for CRC checking or other custom uses.

DataFlash devices are ideal for both non-volatile code and data storage requirements. They are perfectly suited for digital voice, image, and data storage applications where small physical size and low power consumption is required.

Features:

- Available in densities from 1 Mbits to 64 Mbits (simple upgrade path)
- Simple SPI Serial Interface requiring only 7 pins to interface to host processor
- High-speed SPI data transfer at up to 20 MHz
- One / two on-chip, bi-directional buffers to expedite the flow of data to/from the device
- Small page size with extra "padding" bytes:
- 1 - 4 Mbits: 264 bytes
- 16 - 32 Mbits: 528 bytes
- 64 Mbits: 1056 bytes
- Voltage range: 2.7 - 3.6 V
- Standby Current: typically 2 uA

240480

	Pins	Package	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
45DB021	8	SOIC	2Mb, 2.7-volt DataFlash, SPI, RapidS Serial Interface	AT45DB021D-SSU	SMD 145-5036	1.28	0.97	0.80
45DB041	8	SOIC	4Mb, 2.5-volt DataFlash, SPI, RapidS Serial Interface	AT45DB041D-SSU	SMD 145-5037	1.61	1.20	0.97
45DB041	8	SOIC	4MB, 2.5V or 2.7V, DataFlash, 20MHz	AT45DB041D-SU	SMD 136-2661	2.07	1.70	1.55
45DB081	8	SOIC	8Mb, 2.5-volt DataFlash, SPI, RapidS Serial Interface, 0.150" Wide SOIC	AT45DB081D-SSU	SMD 145-5038	1.63	1.08	0.89
45DB081	8	SOIC	8Mb, 2.5-volt DataFlash, SPI, RapidS Serial Interface, 0.209" Wide SOIC	AT45DB081D-SU	SMD 145-5039	1.63	1.08	0.89
45DB161	8	SOIC	16Mb, DataFlash, SPI, RapidS Serial Interface	AT45DB161D-SU	SMD 145-5040	2.11	1.40	1.14
45DB161	28	TSOP	16Mb, DataFlash, SPI, RapidS Serial Interface	AT45DB161D-TU	SMD 145-5041	2.30	1.52	1.25
45DB321	8	SOIC	32MB, 2.7-volt, DataFlash, SPI, RapidS Serial Interface	AT45DB321D-SU	SMD 145-5042	3.47	2.79	2.39
45DB321	28	TSOP	32MB, 2.7-Volt DataFlash, 20MHz	AT45DB321D-TU	SMD 136-2664	6.77	5.42	5.02
45DB642	28	TSOP	64Mb (8M x 8) Serial Flash Memory - SPI and parallel I/O interface (IND TEMP, TSOP).	AT45DB642D-TU	SMD 109-5799	8.11	7.89	7.68
45DB642	8	CASON	64MB, 2.7-volt DataFlash, Dual-interface	AT45DB642D-CNU	SMD 145-5043	6.22	4.19	3.54
45DB011	8	SOIC	1MB, 2.7-Volt DataFlash, 20MHz	AT45DB011D-SH	NEW SMD 157-7798	1.32	1.05	0.99

Serial Flash - SPI

New

Pin-to-pin compatible with Atmel SPI serial EEPROMs.

527759

	Pins	Pkg	Density	Interface	Freq (MHz)	Voltage (V) Min	Max	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
AT25DF041A	8	SOIC-W	4Mbit	SPI, 3-Wire Serial	70	2.3	3.6	AT25DF041A-SHF-B	SMD 163-6621	0.99	0.69	0.54
AT25DF041A	8	SOIC	4Mbit	SPI, 3-Wire Serial	70	2.3	3.6	AT25DF041A-SSHF-B	SMD 163-6622	0.99	0.69	0.54
AT25DF081	8	SOIC	8Mbit	SPI, 3-Wire Serial	66	1.8	3.6	AT25DF081-SSHN-B	SMD 163-6623	1.89	1.33	1.00
AT25DF321	8	SOIC-W	32Mbit	SPI, 3-Wire Serial	70	2.7	3.6	AT25DF321-SU	SMD 163-6626	2.29	1.61	1.22
AT25DF321	16	SOIC	32Mbit	SPI, 3-Wire Serial	70	2.7	3.6	AT25DF321-S3U	SMD 163-6624	2.29	1.61	1.22

Atmel AT45D - Serial DataFlash Memory Card (MMC format)



The Atmel AT45D 2/4/8 Mbit DataFlash device is available in the popular "MultiMediaCard (MMC)" package. These devices are pin-out compatible with the SPI version of the MMC card and can be used in any device which utilises this protocol.

The small form factor (32 x 24 mm) and simple SPI Serial Interface make the DataFlash Card ideal for a wide variety of data and program code-storage applications where a removable storage medium is required.

	No. of Pins	Product description	Mftrs. list No.	Order Code
45DCB	7	2M byte (16M-Bit) Flash CARD	AT45DCB002D	136-2667
45DCB	7	4MB (32-Mbit) DataFlash Card	AT45DCB004D	145-5044
45DCB	7	8MB (64-Mbit) DataFlash Card	AT45DCB008D	145-5045

240478

Mftrs. List No.	Order Code	Price Each 1+
AT45DCB002D	NEW SMD 136-2667	6.23
AT45DCB004D	NEW 145-5044	9.41
AT45DCB008D	NEW 145-5045	12.82

E-blocks MMC Card Reader board EB037

The main function of this E-block is to add the capabilities of storing and retrieving large amounts of data for use elsewhere in an electronic system. Use of the MMC card reader allows users to add up to 1GB of additional memory to an electronic system.This E-blocks can be added to any microcontroller that has a USART interface.

- Provides large memory storage capability
- PC comaptible storage
- SPI serial MMC interface

475502

	Mftrs. List No.	Order Code	Price Each
E-BLOCKS MMC CARD READER BOARD	EB037	138-2374	30.00

Compact Flash Memory Cards

ST Industrial Compact Flash Cards are designed to meet the growing Enterprise System OEMs demand for high performance, high reliability, compact size and reliable operation in extreme environments. Featuring sustained write speed increases, small form factor, shock and vibration resistance, as well as extended working temperature range, they are the perfect solution for industries requiring higher qualitative and performance functions to replace failing hard disk drives.

Features:

- Fully compliant with PCMCIA specification
- PC card ATA interface supported
- True IDE mode compatible
- Low power CMOS technology
- Power-saving mode (with automatic wake-up)
- Data reliability

452064

Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+
64MB Compact Flash Card	SMC064BFE6E	141-4743	26.99	24.31	21.86	18.54

Serial FLASH Memory

The M25PX family are high throughput serial flash. They have been designed to address the needs of applications requiring higher clock frequency, for example set-top-boxes, digital flat panels, optical disk drives etc.
The M45PE family are high capacity, non-volatile memories which offer a high level of granularity. Each page can be individually erased and programmed, with a Write instruction that allows data updates at the byte level.

Serial FLASH memory from Numonyx feature:

- 2.7V to 3.6V single supply voltage
- SPI Bus compatible Serial Interface
- 20MHz (or 25MHz for 2M, 4M, 8M) clock rate
- Deep Power-down mode 1μA (typical)
- 100,000 + erase/program cycles per sector
- 20+ years data retention

RL Re-reeling available

EPROMs, EEPROMs and FLASH Memory - continued

Serial FLASH Memory - continued

240104

	Pins/Package	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
25P05	8/SOIC	512K (64K × 8) Serial Flash Memory -SPI interface (IND TEMP)	M25P05-AVMN6P	SMD 988-2855	2.00	1.60	1.12
25P05	8/VFQFPN	512K (64K × 8) Serial Flash Memory -SPI interface (IND TEMP)	M25P05-AVMP6G	SMD 109-9662	1.25	1.01	0.74
25P10	8/SOIC	1Mb (128K × 8) Serial Flash Memory - SPI Interface (IND TEMP)	M25P10-AVMN6P	SMD 866-1308	1.17	1.14	1.13
45PE10	8/SO	1Mb (128k × 8) Serial Flash Memory -SPI interface (IND TEMP)	M45PE10-VMN6P	SMD 109-9702	1.63	1.23	1.15
25P20	8/SOIC	2Mb (256K × 8) Serial Flash Memory -SPI interface (IND TEMP)	M25P20-VMN6P	SMD 988-2863	2.89	2.10	1.66
25P20	8/VDFPN	2Mb (256K x 8) Serial Flash Memory - SPI Interface (IND TEMP)	M25P20-VMP6G	SMD 109-9665	1.21	0.97	0.93
45PE20	8/SO	2Mb (256k × 8) Serial Flash Memory -SPI interface (IND TEMP)	M45PE20-VMN6P	SMD 109-9704	2.10	1.74	1.66
45PE20	8/VDFPN	2Mb (256k × 8) Serial Flash Memory -SPI interface (IND TEMP)	M45PE20-VMP6G	SMD 109-9705	2.26	1.91	1.83
25P40	8/SOIC	4Mb (512K × 8) Serial Flash Memory -SPI interface (IND TEMP)	M25P40-VMN6P	SMD 988-2871	2.39	1.74	1.58
25P40	8/VFQFPN	4Mb (512K × 8) Serial Flash Memory -SPI interface (IND TEMP)	M25P40-VMP6TG	SMD 109-9667	1.58	1.34	1.26
45PE40	8/VDFPN	4Mb (512k × 8) Serial Flash Memory -SPI interface (IND TEMP)	M45PE40-VMP6G	SMD 109-9706	2.35	1.92	1.82
25P80	8/VFQFPN	8Mb (1Mb × 8) Serial Flash Memory -SPI interface (IND TEMP)	M25P80-VMP6G	SMD 109-9669	2.19	1.79	1.69
25P80	8/WSOIC	8Mb (1M × 8) Serial Flash Memory -SPI interface (IND TEMP)	M25P80-VMW6G	SMD 122-4415	3.42	3.06	2.73
45PE80	8/VFQFPN	8Mb (1Mb × 8) Serial Flash Memory -SPI interface (IND TEMP)	M45PE80-VMP6G	SMD 109-9708	3.72	3.08	2.41
25P16	8/VDFPN	16Mb (2Mb × 8) Serial Flash Memory - SPI Interface (IND TEMP)	M25P16-VME6G	SMD 109-9664	1.74	1.46	1.42
25P16	16/SOIC	16Mb (2Mb × 8) Serial Flash Memory - SPI Interface (IND TEMP)	M25P16-VMF6P	SMD 866-1316	1.95	1.91	1.87
25P32	8/VDFPN	32Mb (4Mb × 8) Serial Flash Memory - SPI Interface (IND TEMP)	M25P32-VME6G	SMD 109-9666	3.48	3.08	2.96

SST 25x Serial Flash Memory



SST's 25 series Serial Flash family features a four-wire, SPI-compatible interface that allows for a low pin-count package which occupies less board space and ultimately lowers total system costs.

- Fast Erase and Byte-Program
- Auto Address Increment (AAI) Programming
- End-of-Write Detection
- Software Write Protection
- Write Protection (WP#)
- Enables/Disables the Lock-Down Function of the Status Register

Features

- Single Voltage Read and Write Operations
- Superior Reliability
- Serial Interface Architecture
- Flexible Erase Capability
- SPI Compatible: Mode 0 and Mode 3

479913

Mftrs. List No.	Mftr.	Pins	Pkg	Description	Order Code	Price Each 1+	25+	100+	250+	500+
SST25VF010A-33-4I-SAE	SST	8	SOIC	1Mbit Flash, NOR. Clock Frequency 33MHz	SMD 136-8686	1.17	0.95	0.88	0.74	0.65
SST25VF010A-33-4I-QAE	SST	8	WSON	1Mbit Flash, NOR. Clock Frequency 33MHz	SMD 136-8687	1.36	1.10	1.01	0.85	0.76
SST25LF020A-33-4I-SAE	SST	8	SOIC	2Mbit Flash, NOR. Clock Frequency 33MHz	SMD 136-8688	1.43	1.16	1.08	0.90	0.81
SST25VF040B-50-4I-S2AF	SST	8	SOIC	4Mbit Flash, NOR. Clock Frequency 50MHz	SMD 136-8690	1.94	1.57	1.43	1.22	1.09
SST25VF040B-50-4I-QAF	SST	8	WSON	4Mbit Flash, NOR. Clock Frequency 50MHz	SMD 136-8691	2.02	1.73	1.56	1.34	1.19
SST25VF080B-50-4I-S2AF	SST	8	SOIC	8Mbit Flash, NOR. Clock Frequency 50MHz	SMD 136-8693	2.33	1.95	1.79	1.53	1.34
SST25VF080B-50-4I-QAF	SST	8	WSON	8Mbit Flash, NOR. Clock Frequency 50MHz	SMD 136-8694	2.55	2.07	1.92	1.60	1.43
SST25VF016B-50-4I-S2AF	SST	8	SOIC	16Mbit Flash, NOR. Clock Frequency 50MHz	SMD 136-8695	2.61	2.24	2.03	1.77	1.57
SST25VF016B-50-4I-QAF	SST	8	WSON	16Mbit Flash, NOR. Clock Frequency 50MHz	SMD 136-8696	2.76	2.37	2.14	1.87	1.66

Serial Flash - SPI

New

ESMT / EliteMT

516633

Pins	Pkg	Size	Configuration	V	Freq.	Temp	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
8	SOIC	4Mbit	512K x 8bit	3V	50MHz	-40°C to +85°C	F25L004A-50PIG	SMD 162-3180	0.95	0.80	0.60
8	SOIC	4Mbit	512K x 8bit	3V	100MHz	-40°C to +85°C	F25L004A-100PIG	SMD 162-3181	0.95	0.80	0.60
8	SOIC	4Mbit	512K x 8bit	3V	50MHz	-40°C to +85°C	F25L004A-50PAIG	SMD 162-3182	0.95	0.80	0.60
8	SOIC	4Mbit	512K x 8bit	3V	100MHz	-40°C to +85°C	F25L004A-100PAIG	SMD 162-3183	0.95	0.80	0.60

Serial Flash - SPI

This serial flash memory combines high speed SPI-compatible bus access with advanced write protection mechanisms.

New

AMIC

527724

	Pins	Pkg	Memory Density	Memory Config	Frequency (MHz)	Memory Type	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
25L40	8	SOP	4Mbit	512K x 8bit	85	Flash, NOR	A25L40PUM-F	SMD 156-5998	0.84	0.60	0.45
25L40	8	DIP	4Mbit	512K x 8bit	85	Flash, NOR	A25L40PU-F	156-6004	0.84	0.60	0.45
25L40	8	DIP	4Mbit	512K x 8bit	85	Flash, NOR	A25L40PT-F	156-6002	0.84	0.60	0.45
25L40	8	SOP	4Mbit	512K x 8bit	85	Flash, NOR	A25L40PTM-F	SMD 156-5999	0.84	0.60	0.45
25L40	8	SOP	4Mbit	512K x 8bit	85	Flash, NOR	A25L40PTO-F	SMD 156-6001	0.84	0.60	0.45
25L40	8	SOP	4Mbit	512K x 8bit	85	Flash, NOR	A25L40PUO-F	SMD 156-6000	0.84	0.60	0.45
25L80	8	DIP	8Mbit	1M x 8bit	75	Flash, NOR	A25L80P-F	156-5995	1.15	0.82	0.61
25L80	8	SOP	8Mbit	1M x 8bit	75	Flash, NOR	A25L80PM-F	SMD 156-5996	1.15	0.82	0.61
25L80	8	SOP	8Mbit	1M x 8bit	75	Flash, NOR	A25L80PO-F	SMD 156-5997	1.15	0.82	0.61
25L16	8	SOP	16Mbit	2M x 8bit	85	Flash, NOR	A25L16PTM-F	SMD 156-5993	1.35	0.95	0.71
25L16	8	SOP	16Mbit	2M x 8bit	85	Flash, NOR	A25L16PUM-F	SMD 156-5994	1.35	0.95	0.71

Boot Block FLASH Memory

AMIC numonyx SPANSION

SMD

A range of Boot Block FLASH devices, these memory devices are capable of programming, erasing and reading with a single 5Volt supply. They contain a 'boot block' section of memory which resides either at the top or bottom of memory depending on the device selected. The organisation of the memory size is related to the size of the bus width selected, the selection of either 8 or 16 bit mode made by a logic signal to a device pin.
Memory blocks can be protected from programming or erasure to prevent accidental overwriting of data.

Features:

- Fast access time
- Fast programming time 10µs by byte/16µs by word typical
- Block, Multi-Block and Chip Erase
- Multi-block Protection/Temporary Unprotection modes
- 100,000 Program/Erase cycles
- Electronic Signature
- Single 5 Volt supply for Program/Erase/Read

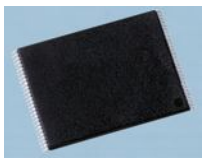
211027

RL Re-reeling available

Farnell

	Mftr.	Pins	Pkg	Density	Config	Sector Type	Voltage Range (V)	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
29AL004	SPN	48	TSOP	4Mbit	512K x 8bit or 256K x 16bit	Top Boot	2.7 to 3.6	S29AL004D90TFI010	NEW SMD 153-5452	1.12	0.82	0.64
29AL004	SPN	48	BGA	4Mbit	512K x 8bit or 256K x 16bit	Bottom Boot	2.7 to 3.6	S29AL004D70BFI020	NEW 168-6555	1.18	0.85	0.67
29AL004	SPN	48	BGA	4Mbit	512K x 8bit or 256K x 16bit	Top Boot	2.7 to 3.6	S29AL004D70BFI010	NEW 168-6556	1.18	0.85	0.67
29L400	AMIC	48	TSOP	4Mbit	512K x 8bit or 256K x 16bit	Top Boot	2.7 to 3.6	A29L400ATV-70F	NEW SMD 156-5988	1.23	0.87	0.65
29L400	AMIC	48	TSOP	4Mbit	512K x 8bit or 256K x 16bit	Bottom Boot	2.7 to 3.6	A29L400AUV-70F	NEW SMD 156-5991	1.23	0.87	0.65
200	NUM	48	TSOP	2Mbit	256K x 8bit or 128K x 16bit	Top Boot	2.7 to 3.6	M29W200BT70N6E	SMD 109-9692	0.92	0.90	0.88
29F400	SPN	44	SOIC	4Mbit	512K x 8bit	Bottom Boot	4.5 to 5.5	AM29F400BB-70SD	NEW SMD 160-7576	2.54	1.52	1.19
29F400	SPN	44	SOIC	4Mbit	512K x 8bit	Bottom Boot	4.5 to 5.5	AM29F400BB-90SF	NEW SMD 160-7577	2.39	1.52	1.19
200	NUM	48	TSOP	2Mbit	256K x 8bit or 128K x 16bit	Bottom Boot	4.5 to 5.5	M29F200BB70N6E	SMD 109-9683	1.83	1.49	1.07
200	NUM	48	TSOP	2Mbit	256K x 8bit or 128K x 16bit	Top Boot	4.5 to 5.5	M29F200BT70N6E	SMD 109-9684	1.00	0.81	0.58
29F400	SPN	48	TSOP	4Mbit	512K x 8bit or 256K x 16bit	Bottom Boot	4.5 to 5.5	AM29F400BB-70ED	SMD 120-1516	2.96	1.99	1.67
29F400	SPN	48	TSOP	4Mbit	512K x 8bit or 256K x 16bit	Top Boot	4.5 to 5.5	AM29F400BT-70ED	SMD 120-1518	2.96	1.99	1.67
29F400	SPN	48	TSOP	4Mbit	512K x 8bit or 256K x 16bit	Top Boot	4.5 to 5.5	AM29F400BT-90ED	SMD 120-1520	2.90	1.94	1.64
29F400	NUM	48	TSOP	4Mbit	512K x 8bit or 256K x 16bit	Top Boot	4.5 to 5.5	M29F400BT70N6E	SMD 122-4420	2.39	1.79	1.30
29F400	SPN	48	TSOP	4Mbit	512K x 8bit or 256K x 16bit	Bottom Boot Block	4.75 to 5.25	AM29F400BB-55ED	SMD 120-1515	3.49	2.33	1.99
29AL008	SPN	48	BGA	8Mbit	1M x 8bit or 512K x 16bit	Top Boot	2.7 to 3.6	S29AL008J70BFI010	NEW 168-6557	1.38	1.00	0.79
29AL008	SPN	48	BGA	8Mbit	1M x 8bit or 512K x 16bit	Bottom Boot	2.7 to 3.6	S29AL008J70BFI020	NEW 168-6558	1.38	1.00	0.79
29AL008	SPN	48	TSOP	8Mbit	1M x 8bit or 512K x 16bit	Top Boot	2.7 to 3.6	S29AL008J70TFI010	NEW 168-6559	1.30	0.95	0.74
29AL008	SPN	48	TSOP	8Mbit	1M x 8bit or 512K x 16bit	Bottom Boot	2.7 to 3.6	S29AL008J70TFI020	NEW 168-6560	1.30	0.95	0.74
29LV008	SPN	40	TSOP	8Mbit	1M x 8bit	Bottom Boot	2.7 to 3.6	AM29LV008BB-120ED	NEW SMD 160-7582	2.46	1.55	1.22
29W800	NUM	44	SOIC	8Mbit	1M x 8bit or 512K x 16bit	Top Boot	2.7 to 3.6	M29W800DT70M6	SMD 415-5713▲	10.46	8.25	6.82
29LV800	SPN	48	TSOP	8Mbit	1M x 8bit or 512K x 16bit	Bottom Boot Block	2.7 to 3.6	S29AL008D90TFI020	SMD 120-1532	1.29	1.03	0.84
29LV800	SPN	48	TSOP	8Mbit	1M x 8bit or 512K x 16bit	Top Boot	2.7 to 3.6	S29AL008D90TFI010	SMD 120-1533	1.15	0.92	0.75
800	NUM	48	TSOP	8Mbit	1M x 8bit or 512K x 16bit	Top Boot	2.7 to 3.6	M29W800DT70N6E	SMD 122-4428	2.06	1.54	1.09
29L800	AMIC	48	TSOP	8Mbit	512K x 16bit	Bottom Boot	2.7 to 3.6	A29L800AUV-70F	SMD 118-7104	3.40	2.78	2.36
29L800	AMIC	48	TSOP	8Mbit	1M x 8bit or 512K x 16bit	Top Boot	2.7 to 3.6	A29L800ATV-70F	NEW SMD 156-5987	1.15	0.82	0.61
29F800	SPN	48	TSOP	8Mbit	1M x 8bit or 512K x 16bit	Bottom Boot	4.5 to 5.5	AM29F800BB-90ED	SMD 120-1521	3.89	2.60	2.20
29F800	SPN	44	SOIC	8Mbit	1M x 8bit or 512K x 16bit	Bottom Boot	4.5 to 5.5	AM29F800BB-90SD	SMD 120-1522	3.86	2.58	2.19
29F800	SPN	44	SOIC	8Mbit	1M x 8bit	Bottom Boot	4.5 to 5.5	AM29F800BB-70SD	NEW SMD 160-7579	3.33	2.10	1.65
29F800	SPN	48	TSOP	8Mbit	1M x 8bit	Bottom Boot	4.5 to 5.5	AM29F800BB-70ED	NEW SMD 160-7578	3.24	2.06	1.62
29F800	SPN	48	TSOP	8Mbit	1M x 8bit	Top Boot	4.5 to 5.5	AM29F800BT-70ED	NEW SMD 160-7580	3.15	2.00	1.57
29F800	SPN	48	TSOP	8Mbit	1M x 8bit	Top Boot	4.5 to 5.5	AM29F800BT-90ED	NEW SMD 160-7581	2.97	1.87	1.47
160	NUM	48	TSOP	16Mbit	1M x 16bit	Top Boot	2.7 to 3.6	M28W160CT70N6E	SMD 109-9672	5.51	4.46	3.21
29L160	AMIC	48	TSOP	16Mbit	2M x 8bit or 1M x 16bit	Bottom Boot	2.7 to 3.6	A29L160UV-70F	SMD 874-9540	4.92	4.04	3.42
29LV160	SPN	48	TSOP	16Mbit	2M x 8bit or 1M x 16bit	Bottom Boot	2.7 to 3.6	S29AL016D90TFI020	SMD 120-1527	2.54	1.85	1.57
29LV160	SPN	48	TSOP	16Mbit	2M x 8bit or 1M x 16bit	Bottom Boot Block	2.7 to 3.6	S29AL016D90TFI010	SMD 120-1528	1.40	1.12	0.91
160	NUM	48	TSOP	16Mbit	2M x 8bit or 1M x 16bit	Bottom Boot	2.7 to 3.6	M29W160EB70N6E	SMD 109-9690	1.99	1.64	1.37
29AL008	SPN	48	FBGA	16Mbit	2M x 8bit or 1M x 16bit	Top Boot	2.7 to 3.6	S29AL008D70BFI010	NEW SMD 153-5451	1.46	1.07	0.83
29AL008	SPN	48	FBGA	16Mbit	2M x 8bit or 1M x 16bit	Bottom Boot	2.7 to 3.6	S29AL008D70BFI020	NEW SMD 153-5450	1.46	1.07	0.83
29AL016	SPN	48	FBGA	16Mbit	2M x 8bit or 1M x 16bit	Top Boot	2.7 to 3.6	S29AL016D70BFI010	NEW SMD 153-5449	1.74	1.27	1.00
29AL016	SPN	48	FBGA	16Mbit	2M x 8bit or 1M x 16bit	Bottom Boot	2.7 to 3.6	S29AL016D70BFI020	NEW SMD 153-5448	2.04	1.49	1.18
29AL016	SPN	48	BGA	16Mbit	2M x 8bit or 1M x 16bit	Top Boot	2.7 to 3.6	S29AL016J70BFI010	NEW 168-6561	1.58	1.15	0.90
29AL016	SPN	48	BGA	16Mbit	2M x 8bit or 1M x 16bit	Bottom Boot	2.7 to 3.6	S29AL016J70BFI020	NEW 168-6563	1.58	1.15	0.90
29AL016	SPN	48	TSOP	16Mbit	2M x 8bit or 1M x 16bit	Top Boot	2.7 to 3.6	S29AL016J70TFI010	NEW 168-6564	1.48	1.07	0.84
29AL016	SPN	48	TSOP	16Mbit	2M x 8bit or 1M x 16bit	Bottom Boot	2.7 to 3.6	S29AL016J70TFI020	NEW 168-6565	1.48	1.07	0.84
29L160	AMIC	48	TSOP	16Mbit	2M x 8bit or 1M x 16bit	Top Boot	3 to 3.6	A29L160ATV-70F	NEW SMD 156-5985	1.53	1.09	0.81
29L160	AMIC	48	TSOP	16Mbit	2M x 8bit or 1M x 16bit	Bottom Boot	3 to 3.6	A29L160AUV-70F	NEW SMD 156-5986	1.53	1.09	0.81
29F160	SPN	48	TSOP	16Mbit	2M x 8bit or 1M x 16bit	Bottom Boot	4.5 to 5.5	AM29F160DB-90EF	SMD 120-1513	6.63	4.43	3.75
29L320	AMIC	48	TSOP	32Mbit	4M x 8bit or 2M x 16bit	Top Boot	2.7 to 3.6	A29L320ATV-70F	NEW SMD 156-5983	2.80	1.99	1.48
320	NUM	48	TSOP	32Mbit	2M x 16bit	Bottom Boot	2.7 to 3.6	M28W320FCB70N6E	SMD 109-9673	3.54	2.94	2.44
320	NUM	48	TSOP	32Mbit	2M x 16bit	Top Boot	2.7 to 3.6	M28W320FCT70N6E	SMD 109-9674	4.46	3.61	2.62
323	NUM	48	TSOP	32Mbit	4M x 8bit	Top Boot	2.7 to 3.6	M29DW323DT70N6E	SMD 109-9678	3.36	2.71	2.03
323	NUM	48	TSOP	32Mbit	4M x 8bit or 2M x 16bit	Bottom Boot	2.7 to 3.6	M29DW323DB70N6E	SMD 109-9677	3.57	2.96	2.46
29L320	AMIC	48	TSOP	32Mbit	4M x 8bit or 2M x 16bit	Bottom Boot	2.7 to 3.6	A29L320AUV-70F	NEW SMD 156-5984	2.80	1.99	1.48
320	NUM	48	TSOP	32Mbit	4M x 8bit or 2M x 16bit	Top Boot	2.7 to 3.6	M29W320DT70N6E	SMD 109-9698	3.51	2.92	2.30
320	NUM	48	TSOP	32Mbit	4M x 8bit or 2M x 16bit	Top Boot	2.7 to 3.6	M29W320ET70N6E	SMD 109-9701	4.67	3.89	3.06
29AL032	SPN	40	TSOP	32Mbit	4M x 8bit	Top or Bottom Boot Block	3.6 to 2.7	S29AL032D90TFI030	NEW SMD 165-1964	2.93	2.61	2.32
29W640	NUM	48	TSOP	64Mbit	8M x 8bit or 4M x 16bit	Top Boot	2.7 to 3.6	M29W640FT70N6E	NEW SMD 137-6970	7.38	5.75	5.61
29W640	NUM	48	TSOP	64Mbit	8M x 8bit or 4M x 16bit	Bottom Boot	2.7 to 3.6	M29W640FB70N6E	NEW SMD 122-4423	15.16	11.08	7.94
3V Simultaneous Read/Write												
29DL323	SPN	48	TSOP	32Mbit	4M x 8bit	Top Boot	2.7 to 3.6	S29JL032H90TFI310	SMD 120-1534	4.39	2.93	2.48
29DL323	SPN	48	TSOP	32Mbit	4M x 8bit	Bottom Boot	2.7 to 3.6	S29JL032H90TFI320	SMD 120-1535	6.16	4.11	3.48
29JL064	SPN	48	TSOP	64Mbit	8M x 8bit or 4M x 16bit	Top or Bottom Boot Block	2.7 to 3.6	S29JL064H90TFI000	NEW SMD 153-5433	6.65	4.84	3.80

SST39x Flash Memory





These devices are CMOS Multi-Purpose Flash (MPF) manufactured with SST's proprietary, high performance CMOS SuperFlash technology. The SuperFlash technology provides fixed Erase and Program times, independent of the number of Erase/Program cycles that have occurred. Therefore the system software or hardware does not have to be modified or de-rated as is necessary with alternative flash technologies, whose Erase and Program times increase with accumulated Erase/Program cycles.

Features

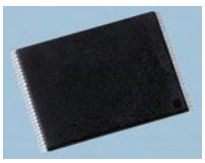
- Single Voltage Read and Write Operations
- Superior Reliability
- Low Power Consumption (typical values at 14 MHz)
  - Active Current: 5 mA (typical)
  - Standby Current: 1 µA (typical)
- Fast Read Access Times
- Latched Address and Data
- Automatic Write Timing
- CMOS I/O Compatibility
- Sector-Erase Capability
  - Uniform 4 KB Sectors

479814

Mftrs. List No.	Mftr.	Pins	Pkg	Description	Order Code	Price Each 1+	25+	100+	250+	500+
SST39SF010A-70-4C-NHE	SST	32	PLCC	1Mbit Flash, NOR Organized as 128K x 8bit	SMD 136-8661	1.20	0.97	0.88	0.75	0.65
SST39SF010A-70-4C-WHE	SST	32	TSOP	1Mbit Flash, NOR Organized as 128K x 8bit	SMD 136-8662	1.25	1.01	0.91	0.78	0.68
SST39VF010-70-4C-NHE	SST	32	PLCC	1Mbit Flash, NOR Organized as 128K x 8bit	SMD 136-8663	1.20	0.97	0.88	0.75	0.65
SST39VF010-70-4C-WHE	SST	32	TSOP	1Mbit Flash, NOR Organized as 128K x 8bit	SMD 136-8664	1.25	1.01	0.91	0.77	0.68
SST39VF020-70-4C-NHE	SST	32	PLCC	2Mbit Flash, NOR Organized as 256K x 8bit	SMD 136-8665	1.36	1.10	0.99	0.85	0.76
SST39VF020-70-4C-WHE	SST	32	TSOP	2Mbit Flash, NOR Organized as 256K x 8bit	SMD 136-8666	1.41	1.14	1.04	0.88	0.79
SST39VF040-70-4C-NHE	SST	32	PLCC	4Mbit Flash, NOR Organized as 512K x 8bit	SMD 136-8669	1.56	1.27	1.15	0.98	0.88
SST39VF040-70-4C-WHE	SST	32	TSOP	4Mbit Flash, NOR Organized as 512K x 8bit	SMD 136-8670	1.55	1.29	1.17	1.00	0.89
SST39VF200A-70-4C-EKE	SST	48	TSOP	2Mbit Flash, NOR Organized as 128K x 16bit	SMD 136-8668	1.51	1.23	1.12	0.95	0.85
SST39VF400A-70-4C-EKE	SST	48	TSOP	4Mbit Flash, NOR Organized as 256K x 16bit	SMD 136-8671	1.68	1.40	1.27	1.09	0.96
SST39VF800A-70-4C-EKE	SST	48	TSOP	8Mbit Flash, NOR Organized as 512K x 16bit	SMD 136-8673	2.02	1.68	1.52	1.30	1.16
SST39VF1681-70-4C-EKE	SST	48	TSOP	16 Mbit FLASH MEMORY, 2K WORD SECTOR - Bottom Block-Protection	SMD 136-8674	2.42	2.03	1.87	1.60	1.43
SST39VF1682-70-4C-EKE	SST	48	TSOP	16 Mbit FLASH MEMORY, 2K WORD SECTOR - Top Block-Protection	SMD 136-8675	2.34	1.96	1.81	1.55	1.38
SST39VF3201-70-4C-EKE	SST	48	TSOP	32 Mbit FLASH MEMORY, 2K WORD SECTOR - Bottom Boot-Block	SMD 136-8678	3.52	3.08	2.80	2.43	2.16
SST39VF3202-70-4C-EKE	SST	48	TSOP	32 Mbit FLASH MEMORY, 2K WORD SECTOR - Top Boot-Block	SMD 136-8681	3.52	3.08	2.80	2.43	2.16
SST39VF6401B-70-4C-EKE	SST	48	TSOP	64 Mbit FLASH MEMORY, 2K WORD SECTOR - Bottom Boot-Block	SMD 136-8684	5.38	4.84	4.40	4.04	3.47
SST39VF6402B-70-4C-EKE	SST	48	TSOP	64 Mbit FLASH MEMORY, 2K WORD SECTOR - Top Boot-Block	SMD 136-8685	5.38	4.84	4.40	4.04	3.47

EPROMs, EEPROMs and FLASH Memory - continued

SST36VFx Flash Memory



These devices are suited for applications that require convenient and economical updating of program, configuration or data memory. For all system applications, the devices significantly improve performance and reliability, while lowering power consumption.

Features

- Single Voltage Read and Write Operations
- Low Power Consumption
- Superior Reliability
  - Endurance: 100,000 Cycles (typical)
  - Greater than 100 Years Data Retention (typical)
- Sector-Erase Capability
- Block-Erase Capability
- JEDEC Standard
- End-of-Write Detection
- CMOS I/O Compatibility

479858

Mftrs. List No.	Mftr.	Pins	Pkg	Description	Order Code	Price Each 1+	25+	100+	250+	500+
SST36VF3203-70-4E-EKE	SST	48	TSOP	32 Mbit FLASH MEMORY - 8 Mbit + 24 Mbit - Bottom Boot-Block	SMD 136-8682	4.58	4.02	3.64	3.17	2.82
SST36VF3204-70-4E-EKE	SST	48	TSOP	32 Mbit FLASH MEMORY - 24 Mbit + 8 Mbit - Top Boot-Block	SMD 136-8683	4.58	4.02	3.64	3.17	2.82

AT49BVxxx Flash Memory

AT49BV040B Features:

- Single Supply for Read and Write: 2.7V to 5.5V
- Internal Program Control and Timer
- Fast Erase Cycle Time - 8 Seconds
- Byte-by-Byte Programming - 10 µs/Byte Typical
- Hardware Data Protection

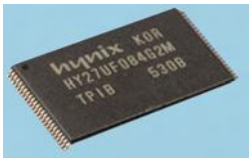
AT49BV1x/3x/6x Features:

- Single Voltage Read/Write Operation: 2.65V to 3.6V
- Fast Word Program Time: 10 µs
- Low-power Operation:
  - 10 mA Active
  - 15 µA Standby
- 128-bit Protection Register

496062

	Pins/Package	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
49BV040	32/TSOP	4M (512K x 8) Flash Memory	AT49BV040B-TU	SMD 145-5046	1.46	1.06	0.91
49BV040	32/PLCC	4M (512K x 8) Flash Memory, Bottom Boot Block	AT49BV040B-JU	NEW! SMD 163-6627	1.64	1.15	0.87
49BV802	48/TSOP	8Mbit (512K x 16) Flash Memory, Bottom Boot Block	AT49BV802D-70TU	NEW! SMD 163-6628	2.08	1.47	1.12
49BV802	48/TSOP	8Mbit (512K x 16) Flash Memory, Top Boot Block	AT49BV802DT-70TU	NEW! SMD 163-6629	2.08	1.47	1.12
49BV160	48/TSOP	16M (1Mx16), 2.7-Volt, Sectored Flash, Single Plane, Bottom Boot	AT49BV160D-70TU	SMD 145-5048	1.69	1.21	1.05
49BV160	48/TSOP	16M (1Mx16), 2.7-Volt, Sectored Flash, Single Plane, Top Boot	AT49BV160DT-70TU	NEW! SMD 145-5049	1.69	1.21	1.05
49BV163	48/TSOP	16M (1Mx16/2Mx8), 2.7-Volt, Sectored Flash, Single Plane, Bottom Boot	AT49BV163D-70TU	SMD 145-5050	1.69	1.21	1.05
49BV163	48/TSOP	16M (1Mx16/2Mx8), 2.7 Volt, Write Sectored Flash, Single Plane, Top Boot	AT49BV163DT-70TU	SMD 145-5051	1.69	1.21	1.05
49BV320	48/TSOP	32 M bit (2M x 16), 2.7 V Volt, Sectored Flash, Single Plane, Bottom Boot	AT49BV320D-70TU	SMD 145-5052	2.65	1.82	1.60
49BV320	48/TSOP	32 M bit (2M x 16), 2.7 V Volt, Sectored Flash, Single Plane, Top Boot	AT49BV320DT-70TU	SMD 145-5053	2.65	1.82	1.60
49BV322	48/TSOP	32 Mbit (2M x 16/4M x 8), 2.7-Volt Read and 2.7-Volt Byte-Write Sectored Flash, Single Plane, Bottom Boot	AT49BV322D-70TU	SMD 145-5054	2.65	1.82	1.60
49BV322	48/TSOP	32 Mbit (2M x 16/4M x 8), 2.7-Volt Read and 2.7-Volt-Byte-Write Sectored Flash, Single Plane, Top Boot	AT49BV322DT-70TU	SMD 145-5055	2.65	1.82	1.60
49BV642	48/TSOP	64-Mbit (4M x 16), 2.7-Volt Sectored Flash, Bottom Boot Block	AT49BV642D-70TU	SMD 145-5058	5.64	3.74	3.06
49BV642	48/TSOP	64-Mbit (4M x 16), 2.7-Volt Sectored Flash, Top Boot Block	AT49BV642DT-70TU	SMD 145-5061	5.25	3.74	3.06

NAND Flash



HYNIX NAND flash technologies are applicable to all storage devices such as memory sticks, MMCs, SDs, CFs, xD picture Cards, and USB Flash Drives.

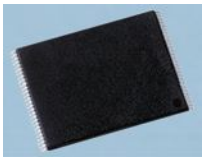
Features:

- High density NAND flash memories
- Copy back program mode
  - Fast page copy without external buffering
- Electronic Signature
  - Manufacturer Code
  - Device Code
- Automatic page 0 read at power-up option
  - Boot from NAND support
  - Automatic Memory Download
- Data integrity
  - 100,000 Program/Erase cycles
  - 10 years Data Retention

449339

	Pins/Package	Description	Memory Config.	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
HY27US08121	48/TSOP	512MBit NAND Flash Memory	64M x 8bit	HY27US08121A-TPCB	SMD 118-2451	11.00	9.19	7.57
HY27UF081	48/TSOP	1GBit NAND Flash Memory	128M x 8bit	HY27UF081G2M-TPCB	SMD 118-2453	14.66	12.24	10.07
HY27UF082	48/TSOP	2GBit NAND Flash Memory	256M x 8bit	HY27UF082G2M-TPCB	SMD 118-2454	19.53	16.32	13.43
HY27UF084	48/TSOP	4GBit NAND Flash Memory	512M x 8bit	HY27UF084G2M-TPCB	SMD 118-2455	34.19	28.57	23.51

NAND Flash



The NAND Flash 528 Byte/ 264 Word Page is a family of non-volatile Flash memories that uses NAND cell technology. The devices range from 128Mbits to 1Gbit and operate with either a 1.8V or 3V voltage supply. The size of a Page is either 528 Bytes (512 + 16 spare) or 264 Words (256 + 8 spare) depending on whether the device has a x8 or x16 bus width.

Features:

- High Density NAND Flash Memories
- Multiplexed Address/ Data
- Fast page copy without external buffering
- Simple interface with microcontroller
- Program/Erase locked during Power transitions
- 100,000 Program/Erase cycles & 10 years Data Retention
- Pinout compatibility for all densities

386122

Pins/Package	Description	Memory Config.	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
48/TSOP	128 MBit NAND Flash Memory	16M x 8bit	NAND128W3A2BN6E	SMD 122-4398	4.46	3.08	2.75
48/TSOP	256 MBit NAND Flash Memory	32M x 8bit	NAND256W3A2BN6E	SMD 122-4400	7.43	5.16	3.89
48/TSOP	512 MBit NAND Flash Memory	64M x 8bit	NAND512W3A2CN6E	NEW! SMD 160-7119	12.43	8.63	6.52
48/TSOP	1 GBit NAND Flash Memory	125M x 8bit	NAND01GW3B2BN6E	SMD 122-4403	13.87	11.78	10.23
48/TSOP	2 GBit NAND Flash Memory	250M x 8bit	NAND02GW3B2CN6E	SMD 122-4404	20.52	17.17	14.30

ATA Flash Disk Controllers



Features

- Industry Standard ATA/IDE Bus Interface
- Interface for standard NAND Flash Media
- Power Management Unit:
- Low Current Operation:
  - Active mode: 25 mA/35 mA (3.3V/5.0V) (typical)
  - Sleep mode: 40 µA/50 µA (3.3V/5.0V) (typical)
- 20-byte Unique ID for Enhanced Security
- Pre-Programmed Embedded Firmware
- Internal or External System Clock Option
- Multi-tasking Technology enables Fast Sustained Write Performance (Host to Flash)

RL Re-reeling available

The ATA Flash Disk Controller recognizes the control, address, and data signals on the ATA/IDE bus and translates them into memory accesses to the standard NAND-type flash media. The SST55LD019A/B device supports Single Level Cell (SLC) flash media. The SST55LD019M device supports Multi-Level Cell (MLC) and high density Single-Level Cell (SLC) flash media.

479521

Mftrs. List No.	Mftr.	Pins	Pkg	Description	Order Code	Price Each 1+	25+	100+	250+	500+
SST55LD019A-45-I-TQWE	SST	100	TQFP	Supported Capacity up to 4GB. Performance-Sustained Write Speed up to 6.0 MB/sec	SMD 136-8700	8.69	7.87	7.17	6.49	5.85
SST55LD019B-45-I-TQWE	SST	100	TQFP	Supported Capacity up to 8GB. Performance-Sustained Write Speed up to 10.0 MB/sec	SMD 136-8701	11.73	10.62	9.71	8.80	8.05
SST55LD019M-45-I-TQWE	SST	100	TQFP	Supported Capacity 128MB to 32GB. Performance-Sustained Write Speed up to 10.0 MB/sec	SMD 136-8702	11.73	10.62	9.71	8.80	8.05

Programmers & Erasers, Emulators, Logic/USB Testers & Analysers

GALEP-IV Pocket Multiprogrammer



This programmer measures 115mm x 80mm x 33mm, it fits into a pocket or technician's toolkit. It has a universal programming capability with a custom ASIC pin driver. It can program the most commonly used programmable devices such as EPROMS, EEPROMs, FLASH EPROMs, ZERO POWER RAMs, GAL's, PALCE's and microcontrollers with low voltage support to 1.3V.

Connection to a PC, laptop or notebook is via a supplied lead to the parallel port and power is supplied by six internal rechargeable NiMH AAA batteries (not supplied) or the supplied AC/DC adapter. The GALEP IV is easily operated via 'Pulldown' menus and dialogue boxes on the PC. LEDs give indication as to the status of the programmer. Around 8 hours continuous can be expected from one charge of the batteries.

This programmer uses flexible pin driver technology and pins are assigned by the software to be inputs or outputs with a flexible voltage range. To support new devices the latest software may be downloaded from the Internet.

Features:
- Pocket size: 115 x 80 x 33mm
- Easy PC connection via printer port
- Fast data transfer, e.g. 27C512 read and compare in 2 seconds
- Supports HEX, JEDEC and binary files
- Software supplied on CD-ROM
- Automatic split/shuffle feature for 8-bit, 16-bit or 32-bit targets
- Software runs under Windows 95/98, ME, NT or 2000
- Integrated HEX and fusemap editor
- Online device list update via Internet

Supported Devices: Over 1300 including 16-bit EPROMS, EEPROMS, Flash EPROMs, Serial EPROMS, GAL's, PALCE's, PIC Microcontrollers

210978

System requirements:
- 486/33MHz minimum
- Windows 95, 98, NT, ME, 2000
- 8MB RAM
- Printer port
- 800 x 600 Screen resolution

	Order Code	Price Each
GALEP-4 pocket programmer EU PSU	120-2535	224.51
GALEP-4 pocket programmer UK PSU	120-2540	224.51
28-32 pin adapter	120-2536	118.39

GALEP-5
High-End Pocket Programmer

CONITEC DATENSYSTEME



- Pocket format: 115 x 80 x 33mm (+7mm socket)
- 48-Pin ZIF socket with 48 universal pin drivers
- Programs low voltage components down to 1.3V
- USB 2.0 high speed port
- Battery compartment for 6 x AAA batteries
- 200 MIPS ARM-9 RISC processor, 64 MB RAM, 8 MB Flash
- FPGA (50K gates, 64Kb RAM)
- 8 Channel D/A converter, 16 channel A/D converter
- Embedded Linux 2.6 inside

GALEP-5 is the smallest offspring of Conitec's fifth generation programmer series; it is powered by the same advanced technology as its bigger brothers. Its main use is for development, service and component programming. However, through its short programming cycles it can also be used as a production programmer. The internal 64 MB RAM serves as data storage and allows you to transfer the data only once for programming multiple devices.

This programmer uses a universal pin driver circuit designed especially for GALEP. This guarantees optimal signal quality for the component to be programmed. It programs all components in DIL sockets between 7.5 - 16mm wide without additional adaptors.

Connection to a PC or laptop is via the supplied USB cable which is also used to power the programmer. As the USB current limit is 500mA, for some old NMOS components and some micro controllers which consume more than 500mA it is recommended that the power supply (supplied) or 6 x AAA batteries (not supplied) are used to ensure USB compatibility. To support new devices the latest software may be downloaded from the Internet.

Supported Devices: Over 4500 devices are supported with types including Serial EEPROM, EPROM, MCU, PLD, NV-RAM.

System requirements:
- PC or Laptop with Pentium Processor
- Windows 95, 98, ME, NT4, 2000, XP, Vista
- USB 1.0 or 2.0 port

478303

	Order Code	Price Each
GALEP-5 High-End Pocket Programmer EU	141-7615	362.46
GALEP-5 High-End Pocket Programmer UK	141-7616	362.46

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LEAPER-3C and LEAPER-3D Handy FLASH Writers

LEAP ELECTRONIC CO.,LTD.



LEAPER - 3C and LEAPER-3D are specially designed for FLASH series, integrating powerful hardware and software for high quality performance.

Features:
- Small, portable & usable with battery
- Two types of high efficient work mode: Standalone and PC based(3D is PC only)
- LCD display 16 X 2 characters
- Software contains type/read/check/program/verify/disk/help/process/parameter
- programming flow chart, voltage, pulse width & other parameters
- Powerful HEX/ASCII memory and fuse-map, test library and full screen edit
- Binary code, Intel HEX and 80/86 HEX supported
- Standard accessories are: USB port, DC 9V/500mA power adapter(not supplied), CD-ROM Containing driver and manual.

Supported Devices:
- EPROM: 27C/LV64 - 27C/LV080
- EEPROM: 27C64 - 28C040
- FLASH EPROM: 29C/LC256 - 29C/LC040, 29EE/LE/VE512 - 29EE/LE/VE020, 28F/LF/VF256 - 28F/LF/VF040, 29F010 - 29F040, 29F001 - 29F002, 39SF/VF512 - 39SF/VF040, 49BV/F512 - 49BV/F040, 49BV/F/LV001 - 49BV/F/LV002

Note: Power lead not included

312059

Mftrs. List No.	Order Code	Price Each
LEAPER-3C	121-6747	156.91
LEAPER-3D	121-6748	109.53

LEAPER-48 HANDY UNIVERSAL WRITER

LEAP ELECTRONIC CO.,LTD.



Features:
- High performance, low cost, small, light, portable and professional design
- Uses USB interface to link with PC
- Support low voltage components up to 2.5V user selectable verify voltage
- Support FLASH/EPROM device speedy programming function. Takes 30 seconds to

RL Re-reeling available

Farnell

Programmers & Erasers, Emulators, Logic/ USB Testers & Analysers - continued

LEAPER-48 HANDY UNIVERSAL WRITER - continued

process one piece of 16M bits FLASH memory.
- Universal converters for virtually all devices in one package
- Auto detect and contact check on device pin insertion, powerful graph showing Device situation.
- Device socket 48-pin ZIF socket accepts both 200 - 600 mil DIP devices up to 48 pins
- Standard accessories are; USB cable, Operation software on CD - ROM, DC 12V/2A Adaptor(not supplied)

Supported Devices:
- EPROMs, EEPROMs, FLASH EPROMs, Serial E/EPROMs, NV RAMs, Microcontrollers, DSP, PLDs

Note: Power lead not included

311741

Mftrs. List No.	Order Code	Price Each
LEAPER-48	121-6746●	364.62
Adaptors		
LP48-TSOP-48PIN	121-6755●	62.01

USB Handy MCS-51 IC Programmer

LEAP ELECTRONIC CO.,LTD.

40-Pin USB Programmer



Features:
- Portable battery powered or mains USB programmer
- Capable of programming 40 pin MCS-51 8-Bit ICs
- Compatible with Windows 95/98/2000/XP
- Friendly graphics operation interface
- 4 seconds to erase / blank check / programme & verify an Atmel AT89S52 IC
- Multi-function device type / read / load / edit / check / sum / erase / blank check / program / verify / protect
- Supports binary, machine code, Intel HEX, Motorola Hex, Tektronix

475182

	Mftrs. List No.	Order Code	Price Each
40 Pin USB 8-Bit Programmer	LEAPER-5E-8-BIT MCS-51	137-8692●	70.77

MEMPro - Universal Memory Programmer



The Dataman MEMPro is a PC based universal 40-pin memory programmer with USB 2.0 connectivity. The MEMPro is built to meet the demands of development labs and field engineers for specialized programming.
Dataman MEMPro is a small, fast and powerful programmer supporting a huge range of programmable memory types - EPROM, EEPROM, NVRAM, Flash EPROM and serial EEPROM - including low voltage types. MEMPro isn't only a programmer, but also a static RAMs tester.

- 40 pin ZIF socket accepts both 300/600 mil DIP devices up to 40 pin
- Advanced pin drivers allow varying voltages to be applied to any pin delivering signals without overshoot, increasing programming yield
- Pin drivers operate down to 1.8V so you will be ready to program the full range of tomorrow's advanced low-voltage devices
- USB 2.0/1.1 connectivity allowing fast and easy connection to PC's and laptops
- Upgradeable to 40Pro programmer
- 1 year warranty
- Free software updates via Dataman website

Supplied with mains adaptor, USB cable, ISP cable (useable after upgrade to 40Pro), diagnostic POD (ZIF), anti-dust cover (ZIF), user manual and software (Windows 98/ME/NT/2000/XP/2003/XPx64/Vista)

472877

Mftrs. List No.	Order Code	Price Each
DATAMAN-MEMPRO	135-1721●	295.00

PIKPro - PICmicro Series Programmer



The Dataman PIKPro is a PC based 40-pin PICmicro series programmer with ISP capabilities and USB 2.0 connectivity. The PIKPro is built to meet the demands of development labs and field engineers for specialized programming.
Dataman PIKPro is a small, fast and powerful programmer supporting a huge range of programmable PICmicro devices. Using the in-circuit serial programming connector (ISP), the programmer is able to program ISP capable chips.

- 40 pin ZIF socket accepts both 300/600 mil DIP devices up to 40 pin
- Advanced pin drivers allow varying voltages to be applied to any pin delivering signals without overshoot, increasing programming yield
- Pin drivers operate down to 1.8V so you will be ready to program the full range of tomorrow's advanced low-voltage devices
- USB 2.0/1.1 connectivity allowing fast and easy connection to PC's and laptops
- Upgradeable to 40Pro programmer
- 1 year warranty
- Free software updates via Dataman website

Supplied with mains adaptor, USB cable, ISP cable, diagnostic POD (ZIF), anti-dust cover (ZIF), user manual and software (Windows 98/ME/NT/2000/XP/2003/XPx64/Vista)

472883

Mftrs. List No.	Order Code	Price Each
DATAMAN-PIKPRO	135-1720●	295.00

T51Pro - MCS51 and AVR Programmer



The Dataman T51Pro is a PC based 40-pin MCS51 and AVR programmer with ISP capabilities and USB 2.0 connectivity. The T51Pro is built to meet the demands of development labs and field engineers for specialized programming.
Dataman T51Pro is a small, fast and powerful programmer supporting a huge range of programmable MCS51 and AVR devices. Using the in-circuit serial programming connector (ISP), the programmer is able to program ISP capable chips.

- 40 pin ZIF socket accepts both 300/600 mil DIP devices up to 40 pin
- Advanced pin drivers allow varying voltages to be applied to any pin delivering signals without overshoot, increasing programming yield
- Pin drivers operate down to 1.8V so you will be ready to program the full range of tomorrow's advanced low-voltage devices
- USB 2.0/1.1 connectivity allowing fast and easy connection to PC's and laptops
- Upgradeable to 40Pro programmer
- 1 year warranty
- Free software updates via Dataman website

Supplied with mains adaptor, USB cable, ISP cable, diagnostic POD (ZIF), anti-dust cover (ZIF), user manual and software (Windows 98/ME/NT/2000/XP/2003/XPx64/Vista)

472885

Mftrs. List No.	Order Code	Price Each
DATAMAN-T51	135-1719●	295.00

48Pro+ Universal ISP Programmer



The Dataman 48Pro+ is a PC based universal 48-pin programmer with ISP capabilities and USB 2.0 / parallel connectivity. Supporting over 40,000 devices with new support added monthly, the Dataman 48Pro+ can program without the need for family-specific modules, giving you the freedom to choose the optimal device for your design.
The 48Pro+ is built to meet the demands of development labs and field engineers for universal programming. Using the built-in, incircuitserial programming (ISP) connector, the programmer is able to program ISP compatible chips in circuit.
Supplied with mains cable, USB cable, ISP cable, diagnostic POD (ZIF), diagnostic POD (ISP), anti-dust cover (ZIF), user manual and software (Windows 2000/XP/2003/XPx64/Vista)

- 48-pin universal ZIF socket accepts both 300/600 mil DIP devices
- Intelligent pin drivers allow varying voltages to be applied to any pin delivering signals without overshoot, increasing programming yield
- Pin drivers operate down to 1.8V so you'll be ready to program the full range of tomorrows advanced low-voltage devices
- ISP capable using the JTAG interface
- Multiprogramming support allows one PC to control up to four units programming independently or as a gang programmer
- 3 year warranty
- Free software updates via Dataman website

521975

Mftrs. List No.	Order Code	Price Each
DATAMAN 48PRO+	164-3327●	695.00

FOR MORE INFORMATION & CHOICE
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Device Programmers & Erasers
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48Pro - Universal ISP Device Programmer



The Dataman 48Pro is a universal 48pin driver, PC based programmer with ISP capabilities with USB 2.0 and parallel connectivity. The 48Pro is built to meet the demands of development labs and field engineers for universal programming.
Supporting over 32,000 devices with new support being added monthly, the Dataman 48Pro can program without the need for a family-specific module, giving you the freedom to choose the optimal device for your design. Using the built-in, in-circuit serial programming (ISP) connector, the programmer is able to program ISP compatible chips in circuit.

- Universal 48 pin ZIF socket accepts both 300/600 mil DIP devices up to 48 pin
- Intelligent pin drivers allow varying voltages to be applied to any pin delivering signals without overshoot, increasing programming yield
- Pin drivers operate down to 1.8V so you'll be ready to program the full range of tomorrow's advanced low-voltage devices

- ISP capable using the JTAG interface
- Multiprogramming support allows one PC to control up to eight units programming independently or as a gang programmer
- 3 year warranty
- Free software updates via Dataman website

Supplied with mains cable, USB cable, ISP cable, diagnostic POD (ZIF), diagnostic POD (ISP), anti-dust cover (ZIF), usermanual and software (Windows 98/ME/NT/2000/2003/XP/XPx64/Vista)

422969

Mftrs. List No.	Order Code	Price Each
DATAMAN-48PRO	120-6094●	725.00

40Pro - Universal ISP Device Programmer



The Dataman 40Pro is a PC based universal 40-pin programmer with ISP capabilities and USB 2.0 connectivity. The 40Pro is built to meet the demands of development labs and field engineers for universal and portable programming.
Dataman 40Pro is a small, fast and powerful programmer designed for a huge range of programmable devices. Using the built-in in-circuit serial programming (ISP) connector the programmer is able to program ISP capable chips in-circuit. 40Pro isn't only a programmer, but also a static RAMs tester.

- Universal 40 pin ZIF socket accepts both 300/600 mil DIP devices up to 40 pin
- Intelligent pin drivers allow varying voltages to be applied to any pin delivering signals without overshoot, increasing programming yield
- Pin drivers operate down to 1.8V so you'll be ready to program the full range of tomorrow's advanced low-voltage devices
- ISP capable using the JTAG interface
- USB 2.0/1.1 connectivity allowing fast and easy connection to PC's and laptops
- 3 year warranty
- Free software updates via Dataman website

Supplied with mains adaptor, USB cable, ISP cable, diagnostic POD (ZIF), anti-dust cover (ZIF), user manual and software (Windows 98/ME/NT/2000/XP/2003/XPx64/Vista)

422972

Mftrs. List No.	Order Code	Price Each
DATAMAN-40PRO	120-6093●	395.00

448Pro+ Universal ISP & USB2 Quad Independent Device Programmer



The Dataman 448Pro+ is a PC based gang programmer featuring four independent universal programming modules, ISP capabilities and USB 2.0 connectivity. Supporting over 40,000 devices with new support added monthly, the Dataman 448Pro+ can program without the need for family-specific modules, giving you the freedom to choose the optimal device for your design.

The 448Pro+ is built to meet the demands of high volume production programming with minimal operator effort. Independant programming options combine with device insertion tests and a user friendly interface to give higher programming yields and reduced failure rates.

- 4 x 48 pin universal ZIFsockets accepting 300/600 mil DIP devices
- Independent modules supporting concurrent programming
- Intelligent pin drivers allow varying voltages to be applied to any pin delivering signals without overshoot, increasing programming yield
- Pin drivers operate down to 1.8V, ready to programme the full range of future devices
- IISP capable using the JTAG interface
- Various socket converters are available to handle device in PLCC, SOIC, PSOP, SSOP, TSOP, TSSOP, TQFP, QFN, MLF, SDIP, BGA and other packages
- Built-in protection circuits eliminate damage to programming modules and/or programmed devices due to environment or operator failure. All ZIF sockets and ISP connector pins are protected against ESD up to 15kV
- The self test capability allows diagnostics included in the software to thoroughly check the health of the each programming module

Supplied with mains cable, USB cable, diagnostic POD (ZIF), diagnostic POD (ISP), ISP cable x 4, anti-dust cover (ZIF) x4, ESD wrist strap, user manual, software (Windows 2000/XP/2003/XPx64/Vista) and transport case.

496574

Mftrs. List No.	Order Code	Price Each
DATAMAN-448PRO+	149-8099●	1,795.00

848Pro Stand-Alone Production Programmer

New



The Dataman 848Pro is a stand-alone gang programmer featuring eight independent universal programming modules, ISP capabilities and USB 2.0 connectivity. Supporting over 40,000 devices with new support added monthly, the Dataman 848Pro can program without the need for family-specific modules, giving you the freedom to choose the optimal device for your design.
The 848Pro is built to meet the demands of high volume production programming with minimal operator effort. Independent programming options combine with device insertion tests and a user friendly interface to give higher programming yields and reduced failure rates.

- Stand-alone operation with touch screen control
- 8 x 48 pin universal ZIF sockets accepting 300/600 mil DIP devices
- Independent modules supporting concurrent programming
- Intelligent pin drivers allow varying voltages to be applied to any pin without overshoot, increasing programming yield
- Pin drivers operate down to 1.8V so you'll be ready to program the full range of tomorrows advanced low-voltage devices
- 3 year warranty
- Free software updates via Dataman website

Supplied with mains cable, USB cable, ISP cable x 8, diagnostic POD (ZIF), diagnostic POD (ISP), anti-dust cover (ZIF) x 8, ESD wrist strap, user manual and software

521976

Mftrs. List No.	Order Code	Price Each
DATAMAN 848PRO	164-3328●	4,995.00

JTAGMaster - In-System Programmer

New



In-system programming (ISP) is provided with the JTAGMaster which uses the JTAG interface to send programming and testing instructions to the device on the board. The JTAGMaster supports numerous devices that can be configured in-system.
The JTAGMaster supports the file formats used as industry standards by PLD suppliers such as SVF & JAM STAPL and can program non-JTAG devices such as low voltage EEPROMs.
AIMs is a powerful and flexible platform designed for the control and operation of the JTAGMaster. A full feature of the software, TestFlow Manager, allows users to create automated programming sequences in a simple, step by step structure. Each of these steps will retain operator information (such as text and graphics) as well as the test setup, making it easy for any user to carry out the operation.
The flexibility of the software is retained throughout with customisable windows, library management and user access levels.

Features:

- Powerful and flexible platform designed for the control and operation of the JTAGMaster using AIMs
- Fully featured In-System Programming & Testing
- JTAG / IEEE 1149.1 compatible
- 2 interface headers to allow ease of connection to a wide range of applications
- SVF & STAPL(JAM) Player - plays JAM, JBC, SVF files
- ISP and Standalone Programming for SPI, I2C & Micro wire serial EEPROMs
- Multi-programmer support ideal for gang programming applications

Device Programmer Mode:

- Built-in Power supply from 1.8 to 3.3 Volts
- Plug-in adapter pods support a range of package options for stand-alone mode

Also available are JEDEC & EIAJ SOIC adapters that conveniently map the signal and power supply connections from the JTAGMaster for out of circuit programming.

527121

Mftrs. List No.	Description	Order Code	Price Each
603085	JTAGMaster	167-6716●	450.00
603083	16-pin EIAJ SOIC P/P	167-6717●	110.00
603084	16-pin JEDEC SOIC C/S	167-6718●	120.00

USB Port Adapter



The MQP USB Port Adapter has been designed to allow you to use the Pin-Master 48, System 2000, or the Model 200* by connecting to the USB port of your PC.
The MQP USB Port Adapter has an operating temperature of 0°C to 40°C

Dimension: 56 x 52x 16 mm
Weight: 40 mg

451990

Mftrs. List No.	Order Code	Price Each 1+
USB ADAPTER	126-1941●	53.05

RL Re-reeling available

Farnell

Programmers & Erasers, Emulators, Logic/ USB Testers & Analysers - continued

Universal Programmers

BATRONIX



The new Batronix Professional Programmer Series offers an exceptionally flexible, simple to use and extremely fast set of programming devices that support a broad range of chips including Eproms, EEproms, Flash, serial EEproms and other storage chips. With a height of only 2.5 cm the enclosures are very practical and are noted for their design and anodized die-cast aluminum construction. These programming devices are your first choice even in a harsh usage environment.

The exceptional flexibility is attained by providing all power requirements via the USBport. A power adapter or batteries are not required, since all programming voltages between 3 and 25 volts are provided internally by a voltage generator from the USB supply voltage. The chips are programmed at a high level of quality and reproducibility in the shortest time possible through the use of optimized algorithms and micro-controller managed programming times. All supported chips can be programmed directly in DIP/DIL packages and suitable adapters are available for specialized packages such as PLCC, SOP und TSOP.

Hardware Features:
- USB Powered
- Chip Auto-Identification
- Multi Programmer Control (up to 8)
- Automatic programming start (for mass production)
- High Speed technology

Software Features:
- Process Control
- Projects
- Accepted file format: Binary, Intel-Hex and Motorola S
- Data and Chip Offset functions
- Complete 16 and 32 bit splitting
- Convenient Hex Editor
- Flexible serial number generation
- For use with Windows 98SE, ME, 200, XP, 2003, Vista
- Various languages supported

Hardware Details	BX32 Batupo	BX32P Barlino	BX40 Bagero
Interface	USB 2.0 / 1.1 (Full Speed)		
Socket	32 Pins		40 Pins
Low Voltage Support	—	down to 3V	
Dimensions (cm)	9 x 8.5 x 2.5		14 x 8.5 x 2.5
Weight (Gramm)	158	160	242
Warranty	5 Years		

The programming devices can be easily controlled using the modern and intuitive Prog-Express software. Chips inserted in the device can be detected automatically by the software and programming a chip from a file or copying an existing chip is done with a few mouse-clicks. Despite the easy to use interface, professional protection, split, autoidentify, auto-start and serial-number functions as well as a convenient hex-editor areavailable in addition to the basic functions like read, program, compare and erase.

Software updates can be downloaded free of charge at www.batronix.com.

For bulk production of chips up to eight BX32, BX32P or BX40 devices can be controlled simultaneously from one PC using the Prog-Express software. These programming devices are a better alternative to expensive gang-programming devices due to their low cost and extremely high programming speeds and also offer greater flexibility.

The newly developed control technology and USB 2.0 / 1.1 compatible full-speed data transfer rates put the BX32 / 32P / 40 among the fastest programming devices currently available. For example, 27SF256 (erasable 27C256) chips can be programmed in under two seconds and even complex, sequential-based 4MB chips like the AM29F040 can be programmed completely in under ten seconds. Delivery including programmer, USB cable, Prog-Express software, manual (multi language) on CD.

Chip Support	BX32 Batupo	BX32P Barlino	BX40 Bagero
27' NMOS from 2732	✓	✓	✓
27C, 27E, 27SF, 28, 28C, 28F, 28HC,28SF, 29C, 48', 87', ...	✓	✓	✓
29F (BX32/BX32P: without29F100/ 200/400/800)	✓	✓	✓
29LV, 29W, ...		✓	✓
39', 49', LPC, FWH		✓	✓
24', 25', 93', 95' serial EEproms		✓	✓
29F100/200/400/800			✓
16 Bit Chips			✓

475041

Mftrs. List No.	Order Code	Price Each 1+
BX32 BATUPO	137-4013●	77.34
BX32P BARLINO	137-4014●	95.28
BX40 BAGERO	137-4015●	149.03
Adapters		
PLCC32-DIP28 PRO	137-4016●	63.93
PLCC32-DIP32 PRO	137-4017●	63.93
PLCC44-DIP40 PRO	137-4018●	63.93
SOP44-DIP40-UCP PRO	137-4019●	98.82
SOP8-DIP8 PRO	137-4020●	56.86
TSOP48-DIP40-UCP PRO	137-4021●	98.82

Superpro 3000U

XELTEK

Ultra Fast 48-Pin Stand-Alone and USB interfaced Universal Device Programmer



Features:
- A fast, low-cost programmer designed to program high-density Flash memory devices at a near theoretical minimum programming time
- User-friendly, powerful software
- Standard universal 48-pin drivers support devices down to 1.5V
- Advanced hardware design minimises ground bounce noise
- Designed for multi-applications with three modes of operation supported - PC hosted operation for R&D and Engineering, Stand-alone operation for manufacturing or service, Terminal mode to operate via an external instrument such as IC handler (Requires optional flash card)
- Over-current and over-voltage protection for satety of the chip and programmer hardware, also pin continuity and wrong chip insertion check to prevent accidental damage
- Optional expansion module for programming devices up to 100-pins

Specifications:
- Devices Supported include - EPROM, EEPROM, FPGA, FLASH Memory, Firmware HUB, Microcontroller, MCU, Standard Logic
- Socket Adaptors Supported include - DIP, PLCC, SOIC, TQFP, SOP, TSSOP, SON etc.
- Compatible with Windows 98/Me/NT/2000/XP via USB connection

382664

	Mftrs. List No.	Order Code	Price Each
Universal Device Programmer	SUPERPRO 3000U	907-9858	636.18
Expansion Module for Superpro 3000U	PEP 3000	907-9890▲	188.83

Superpro 580U

XELTEK

Advanced Compact Universal Programmer



Features:
- Programs high-density Flash memory devices at near theoretical minimum programming times
- Standard 48-pin universal pin-drivers come with universal package adapters to support all types of devices in the same package with the same adapter
- Low voltage devices down to 1.8V are supported directly
- Supports devices including EPROM, EEPROM, FLASH Memory, PIC, AVR and other popular Microcontrollers and PLD's
- Over-current and over-voltage protection for for programmer hardware
- Pin continuity and wrong chip insertion checks prevent accidental damage to chips
- Operator friendly control software combines many powerful functions with ease of use
- Compatible with Windows 98/Me/NT/2000/XP via printer port

382668

	Mftrs. List No.	Order Code	Price Each
Universal Programmer	SUPERPRO 580U	907-9866▲	381.80

Superpro 280U

XELTEK

48-Pin Low-Cost Advanced Universal Programmer



Features:
- High programming speed
- High speed CPU, accurate/reliable algorithm timing
- Standard 48-pin universal pin-drivers come with universal package adapters to support all types of devices in the same package with the same adapter
- Low voltage devices down to 1.8V are supported directly
- Supports devices including EPROM, EEPROM, FLASH Memory, PIC, AVR and other popular Microcontrollers and PLD's
- Pin continuity and wrong chip insertion checks prevent accidental damage to chips
- Tests standard logic devices and SRAM
- Compatible with Windows 98/Me/NT/2000/XP via printer port

382672

	Mftrs. List No.	Order Code	Price Each
Universal Programmer	SUPERPRO 280U	907-9874	304.19

RL Re-reeling available

Superpro Z

40-Pin Low Cost Universal Programmer



Features:
- High speed programming, cost effective hardware and flexible software
- Supports devices including most EPROM, EEPROM and FLASH etc.
- Compatible with PC, Laptop etc. via Printer Port inerface
- Allows load and save file in binary, Intel (extended) Hex or Tektronics (extended) Hex format. Multiple load, format conversion, relocation etc.
- Uses a 40-pin ZIF device socket
- Test standard logic and SRAM

382673

	Mftrs. List No.	Order Code	Price Each
Universal Programmer	SUPERPRO Z	**907-9882▲**	232.88

QuickWriter™ MCU Programmer & Programmer Adapters



The Quick Writer is a professional grade PIC programmer that offer many features only found in high end production programmers. Besides being a high speed in-circuit programmer, each quick writer can be quickly converted (with the addition of an adapter) into a full scale production gang programmer.

The Quick Writer comes complete with everything needed to in-circuit program a wide array of PIC microcontrollers.

Features Include:
- Programs 4 devices as quickly as a single device when using a Gang adapter
- Supports In-Circuit Programming with the included cable
- Auto increment or manually enter serial numbers in Code or Data locations
- Supports industry standard INHX8M, INHX32 and Parallax ".obj" HEX files
- Supports existing Parallax and PICwriter programming adapters
- Enable/Disable each programmable area of the MCU
- Serial communication port connectivity
- EEPROM / Calibration editing
- FLASH firmware updates

451901

Mftrs List No.	Description	Order Code	Price Each 1+
QW1	QuickWriter™ MCU Programmer	**126-3890●**	151.90
MP-ZIF18/28	18/28 Pin ZIF Adapter	**126-3892●**	60.76
MP-ZIF40	40 Pin ZIF Adapter	**126-3893●**	45.57
QW-4ZIF18	4-Gang Adapter - 18 Pin DIP ZIF	**126-3895●**	159.50

WICE-M4 4MB ROM Emulator



A small, portable and easy-to-use EPROM emulator, supporting the range of 27C16 to 27LV040 32 pin devices. Replacing the WICE-M1 device, it has more memory, is smaller and operates with a USB Port rather than the Printer Port. The software allows the display and editing of files in formats including binary/machine code and HEXadecimal. (Note: Power adaptor not included)

Features:
- Interfaces with Windows 98/ME/2000/XP via USB connection
- Device plugs directly into IC socket - eliminating noise and time delay caused by cable
- Detects wrong insertion and prevents from exceeding 5V input
- Supports 3.3 to 5V devices
- Speed of emulation SRAM access time +10ns

Includes:
- Main Unit
- USB Cable
- Operation Software CD (inc. User Manual)
- Reset Signal Line

374334

Mftrs. List No.	Order Code	Price Each
WICE-M4	**121-6754●**	186.83

Packet-Master USB12 Bus Analyser



The Packet-Master USB12 is a Hardware USB Bus Analyser, intended for development of Low and Full Speed USB devices and hubs etc. It comes complete with our Windows application Graphic USB for capturing and displaying every detail of the data interactions on a USB link.

Hardware features:
- Activity indicator shows presence of data exchanges
- USB through-connectors for device under test
- Analyses Low Speed (1.5 Mbit/s), Full Speed (12 Mbit/s) or a mixture of both
- Automatically detects speed of link under test
- USB Bus Powered for convenience of use
- High Speed USB (480 Mbit/s) connection to host PC
- Feature connector provides signals for oscilloscope or logic analyzer

451994

Mftr.	Mftrs. List No.	Order Code	Price Each 1+
MQP (ELECTRONICS)	USB12	**126-1938●**	517.49

DigiView Logic Analyzer™

100 MHz, 18 Channel



The DigiView 100 MHz USB Logic Analyzer is a fast, compact, 18 channel USB logic analyzer. It is so small that it will easily fit into the palm of a hand, yet powerful enough to handle even the most complexes of tasks. Its sizes and power requirements makes it very useful in field applications, while its feature set will make it a staple of every work bench.

Hardware Features:
- 18 Channels
- USB interface and power source for portability
- Real time Hardware Compression
- Eliminates Resolution vs. Depth tradeoffs
- Trigger on rising, falling or transition of any channel
- Multi-channel High, low and don't care trigger qualifier

Software Features:
- Supports Analog, Boolean, BUS, State Mode, I2C, Synchronous (i.e. SPI) and Asynchronous (i.e. RS-232) signal viewing
- Signal grouping for bus identification and values
- Sequential Searches for Specialized Signals

System Requirements:
- Windows 98SE/2K/ME/XP/XPpro
- Pentium Class Processor (200 MHz or higher recommended)
- 9 Meg of RAM (+Operating System Requirements)
- USB Port (1.1 or 2.0)

452196

Mftrs. List No.	Order Code	Price Each
DV1-100	**126-3884●**	349.36

RL Re-reeling available

Programmers & Erasers, Emulators, Logic/ USB Testers & Analysers - continued

PC-Based Logic Analyser

LEAP ELECTRONIC CO.,LTD.



New

This PC based logic analyser provides digital software and hardware designers the ability to readily capture the complex signals in a digital environment that require analysis and/or debugging. The compact size and USB connectivity to a laptop makes them an ideal solution for field applications.

Features:
- Internal (asynchronous) and External (synchronous) capture
- Provide binary code and hexadecimal List mode (State) display
- Able to save the measuring data and waveform completely
- Offers I^2C, SPI, UART etc. signal decode function
- No need extra power, connects to the USB

515312

Mftrs. List No.	Description	Order Code	Price Each
PLA-2532	PLA-2532 Logic Analyser	**161-6588●**	360.80

LP-1 Digital IC Tester

LEAP ELECTRONIC CO.,LTD.



This is an economical, hand-held digital IC tester capable of testing most TTL74, CMOS 4000, CMOS 4500 DRAM41 and DRAM44 series devices.

Powered from 4x1.5v AA batteries or external 9VDC power supply the unit features a 16 character LCD display and a 24 way universal ZIF socket capable of supporting devices from 14 to 24 pins and device widths of 0.3" to 0.6".

The tester has an internal database which the user can scroll up or down to select the appropriate device to test, or alternatively an automatic function may be used in which the unit will attempt to match an unknown device placed in the ZIF socket to the database (74TTL or CMOS only).

229992

Mftrs. List No.	Order Code	Price Each
LP-1	**121-6745●**	101.42

SENTRY - Counterfeit IC Detector

abi

New



Counterfeit and fake IC's are a major problem within the supply chain and to protect you at the goods inward stage Sentry is a simple yet powerful instrument designed to ensure that components are what they claim to be. It is a PC driven product which uses a complex PinPrint Test Analysis algorithm to check the validity of parts in seconds.
The operation of the system is straightforward and designed to give clear and easy to understand results for all levels of operator experience and personnel can simply relate to the pass or fail results given.
For further analysis and traceability, the Sentry software will produce a specialised report which can be sent back to the supplier or manufacturer.

Specifications:
- 128 channels (can be upgraded to 192 or 256 channels)
- Includes many device packages including DIL, SOIC, PLCC, BGA, etc
- Full library management - New devices and packages can be added quickly and easily using built-in library management tools
- PC Software included with high-speed USB 2.0 interface
- Automated operation under Windows XP or Vista
- Easy installation (up and running in minutes)
- Small footprint for portability
- No training required
- Power input 115/230 VAC 50/60 Hz

Also available is a Sentry 64 Channel Upgrade Module for higher pin count devices.

527120

Mftrs. List No.	Description	Order Code	Price Each
603082	SENTRY - Counterfeit IC Detector	**167-6713●**	1,750.00
603086	64 Channel Upgrade Module	**167-6715●**	390.00

Leaper -2

Linear IC Tester

LEAP ELECTRONIC CO.,LTD.



Features:
- Designed to test Op-amps, Comparators, Optos, Regulators, Transistors array & Special Function devices
- Easy to operate Linear IC tester
- Mains and battery powered with auto power off
- Single line 16 characters display
- Average search time 0.8 sec
- Compatible with 14 & 24 pin devices

475231

	Mftrs. List No.	Order Code	Price Each
Linear IC Tester	LEAPER-2	**137-8695●**	219.59

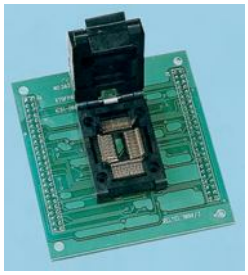
Socket Adapters

XELTEK

A selection of the Adapters available:



TSOP48/D48 Adapter



QFP64/PEP Adapter

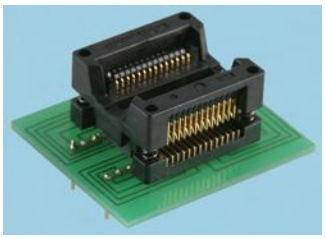
The following adapters are compatible with selected Xeltek Universal Programmers.

402430

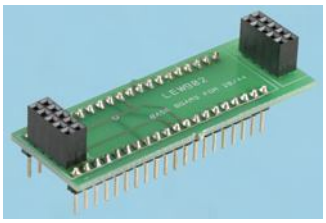
	Mftrs. List No.	Order Code	Price Each
Compatible with SP280U, 580U, 3000U, 8000-CE			
PLCC20/D20 Adapter	SA001A	**907-9904▲**	41.01
PLCC32/D32 Adapter	SA015A1T	**907-9920**	61.01
PLCC44/D44 Adapter	SA244	**907-9939**	70.31
TSOP48/D48 Adapter	SA247	**908-0120**	97.20

Lewmax Socket Adapters

Lewmax



LEW300



LEW902



LEW907



LEW904

This range of socket adapters is designed to fit any ZIF socket based programming platform and enhance these platforms to be able to program virtually the complet range of package styles available for the PIC microcontroller families.
A base board and adapter board is required to program almost any PIC12, PIC16 or PIC18 microcontroller. The base board fits into the ZIF socket of the programmer. There are two of these available, both of which have quality board-to-board IDC connectors for quick and reliable connection of the desired device package adapter top board. These adapter boards cover a widse range of package types.
This group of adapters works with a large range of programming platforms. Microchips ICD2, PICStart Plus and Promate Sytems are supported, plus Dataman, Stag, AVR, ST6 and BP Microsystems etc.

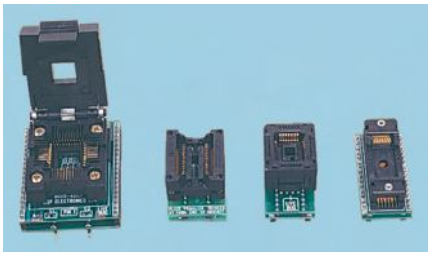
414215

RL Re-reeling available

Farnell

Mftrs List No.	Description	Order Code	Price Each
LEW901	Base Board for support of all package types of 20 pins or less	973-6573●	22.91
LEW902	Base Board for support of all package types of 28 pins or more	973-6581●	20.62
LEW903	Device adapter board for 8-pin SN (narrow body SMT package) and 14-pin SL (narrow body SMT package). Requires LEW901 base board.	973-6590●	52.37
LEW904	Device adapter board for 8-pin SM (wide body SMT package). Requires LEW901 base board	973-6603●	52.37
LEW907	Device adapter board for 44-pin PLCC package. Requires LEW902 base board	973-6638●	52.37
LEW908	Device adapter board for 14-pin TSSOP package. Requires LEW901 base board	973-6646●	68.75
LEW909	Device adapter board for 20-pin SSOP package. Requires LEW901 base board	973-6654●	68.75
LEW910	Device adapter board for 28-pin SSOP package. Requires LEW902 base board	973-6662●	68.75
LEW300	300mm, 16 to 28-pin SOIC adapter. Can be used with most programmers with DIL ZIF Sockets.	973-6697●	57.30

Programming Adaptors



479-860 479-871 479-810 479-925

A selection of the most popular adapters to suit the varied package styles of ICs, these adapters are generally used when converting from a Dual-In-Line (DIL) to a Surface Mount Device (SMD) style.

A typical example of an application would be to program an EPROM or microcontroller in a PLCC style surface mount package, from a programmer which has only a Dual-In-Line style ZIF socket on board.

The associated programmer to which the adapter is intended to be used on is listed, this is to ensure compatibilty between the parts.

210644

Mftrs List No.	Programmer Socket Side	Device Package Side	Specific Programmer Type or Application	Order Code	Price Each 1+	Price Each 10+
LEW08	8 pin DIL	8 pin SOIC	8 pin SOIC to DIL for PICs	698-180	64.63	– –
LEW14	14 pin DIL	14 pin SOIC	14 pin SOIC to DIL for PICs	113-554	64.63	– –
MEL-8SOICFR	18 pin DIL	8 pin SOIC	EPIC Plus Programmer.	116-830	48.43	– –
MEL-18SOICFR	18 pin DIL	18 pin SOIC	EPIC Plus Programmer.	116-841	43.59	– –
LP-PLCC-20PIN(AA001)	20 pin DIL	20 pin PLCC	20-pin PLCC MPU/PLD	121-6749●	39.21	– –
LEW18/28	28 pin DIL	18/28 SOIC	18/28 pin SOIC to DIL for PICs.	698-179	64.63	– –
AD67	28 pin DIL	28 pin SOIC	18/28 pin PIC Micros.	121-7292●	61.72	56.39
AD62	28 pin DIL	32 pin PLCC	64K-512K OTP EPROM	121-7294●	90.45	85.12
AD50	28 pin DIL	32 pin PLCC	64K-512K OTP EPROM (gang compatible).	121-7287●	52.13	46.82
210845	28 pin DIL	32 pin PLCC	Galep-4 Pocket Multiprogrammer.	120-2538●	118.39	– –
AD63	32 pin DIL	32 pin PLCC	1M-8M OTP EPROM/FLASH.	121-7293●	90.45	85.12
AD51	32 pin DIL	32 pin PLCC	1M-8M OTP EPROM (gang compatible)	121-7286●	52.13	46.82
LP-SOP-32PIN(AB009)	32 pin DIL	32 pin SOP	32-pin SOP SRAM/EPROM	121-6750●	44.94	– –
AD48	32 pin DIL	32 pin TSOP	FLASH Memory (gang compatible).	121-7295●	72.36	67.04
210841	40 pin DIL	44 pin PLCC	Galep-4 Pocket Multiprogrammer.	120-2537●	121.72	– –
AD44	40 pin DIL	44 pin PLCC	16-bit OTP EPROM	121-7289●	95.77	90.45
LP-SOP-44PIN(AB011)	44 pin DIL	44 pin SOP	44-pin SOP MPU/EPROM/FLASH.	121-6751●	58.34	– –
LP-TSOP-48PIN(AE403)	48 pin DIL	48 pin TSOP	48-pin TSOP Leaper 48	121-6753●	81.28	– –
AD45	40 pin DIL	44 pin PLCC	87C51 Family (OTP)	121-7291●	95.77	90.45
PLCC-PROG	40 pin DIL	44 pin PLCC	44 pin PLCC socket module for PICs	797-005	56.01	– –

U-V Eraser

LEAP ELECTRONIC CO.,LTD.



LER-121A

- Capacity 12 x 24 pin
- 60 minute timer
- Power-on indicator
- Safety power-off interlock on drawer
- Rapid Electronic Start (no starter required)
- Dims. L=240, W=85, H=95mm
- UV Tube=134mm order no 178-938
- Requies 9 VDC 500mA power adapter

LER-123A

- Capacity 64 x 24 pin
- 60 minute timer
- Power-on indicator
- Safety power-off interlock on drawer
- Rapid Electronic Start (no starter required)
- Dims. L=370, W=180, H=100mm
- Mains powered

227431

	Order Code	Price Each
LER-121AU-V Eraser	121-7540●	87.84
LER-123AU-V Eraser 123A	137-8696●	106.77

U-V Erasers

Lawtronics



A range of robust production EPROM erasers. All units are fitted with a safety interlock to prevent exposure to ultra-violet light. The drawers are supplied with metal racks for DIL packages and high density anti-static, foam for surface mount or specialist devices. All erasers offer on-board erasure.

	ME5E		ME5E
Capacity 24 pin DIL	5	Fan cooled	NO
Capacity 28 pin DIL	5	Storage drawer	NO
Capacity 40 pin DIL	5	Lamp fail indicator	NO
Board erasing area	150 x 60	No. of tubes	1
60 Minute timer	NO		
Elapse timer	NO	Units specified to 220/240V. Mains leads available separately.	
Erase indicators	YES		

210648

	Order Code	Price Each 1+	Price Each 3+	Price Each 6+
ME5E EPROM eraser	120-2180●	91.94	84.87	79.35
		1+	25+	50+
UK mains plug lead	112-4400●	7.93	7.37	6.58
European mains plug lead	112-4379●	5.75	5.22	4.91

See our range of **EPROM ICs** on page 109



Ultra-Violet Lamps



A range of ultra-violet discharge tubes for use with the Lawtronic range of erasers.

210649

Eraser	Length	Dia.	Order Code	Price Each
ME5/ME5E/ME10	134	15	178-938●	17.17
ME15/30/90	287	15	178-570●	17.89
ME200	436	25	178-571●	21.88

RL Re-reeling available



Packaged, protected, perfect

Thousands of ICs now available in our innovative peel packaging

We've extended our peel packaging to cover IC case sizes from 5x5mm to 14x14mm:

- Complete protection for a wide range of ICs
- Clear product identification with batch number and Farnell part number
- All round protection in transit and storage
- Reduced moisture ingress and anti-static protection
- No minimum order requirement

Peel Packaging - exclusive to Farnell: **www.farnell.com**

Farnell

A Premier Farnell Company

Microcontrollers and Microprocessors - 8-Bit - ANALOG DEVICES

Microconverter ADuC8XX QuickStart™ Development System

The 'entry level' QuickStart Development System allows designers to rapidly evaluate microConverter performance and functionality, and then begin a prototype development. The system provides all of the tools the designer needs including software tools, development board, integrated serial download/debug cable and power supply. It fully supports assembly level code development via a serial port debug path and provides designers with access to a demonstration project of the C-level development environment available in QuickStart-Plus. The system also includes the new 'aspire' Integrated Development Environment (IDE) facilitating easy assembly level code development with project manager, assembler, downloader, simulator and debugger in one easy to use IDE.

339875

Mftrs. List No.	Description	Order Code	Price Each
EVAL-ADUC814QS	ADUC814 Quickstart Development System	509-8592	49.06
EVAL-ADUC831QSZ	ADUC831 Development Kit System	152-9357●	47.50
EVAL-ADUC832QS	ADUC832 Quickstart Development System	509-8634	54.70
EVAL-ADUC834QS	ADUC834 Quickstart Development System	509-8646	63.87
EVAL-ADUC841QSZ	ADUC841 Quickstart Development System	143-9134●	60.22
EVAL-ADUC842QSZ	ADUC842 Quickstart Development System	143-9135●	60.22
EVAL-ADUC845QSZ	ADUC845 Quickstart Development System	143-9136●	60.22
EVAL-ADUC847QSZ	ADUC847 Quickstart Development System	143-9137●	60.22
ADUC848BSZ62-3	8-Bit MicroConverter With 10-Ch 16-Bit ADC, 12-Bit DAC and embedded Flash MCU	SMD 143-9049●	11.32

ADuC Series Analog-to-Digital Microconverters

The MicroConverter® products represent a unique integration of technologies, combining precision A/D conversion and a flexible flash microcontroller on a single chip. This "system-on-a-chip" level of integration offers many advantages in industrial, medical, or data-comm system designs.

339874

	Pins/Package	Description	Mftrs. List.	Order Code	Price Each 1+	10+	100+
812	52/MQFP	8-Bit MicroConverter With 12-Bit ADC and embedded Flash MCU	ADUC812BSZ	SMD 960-5282●	14.16	10.86	9.21
812	52/MQFP	8-Bit MicroConverter With 12-Bit ADC and embedded Flash MCU	ADUC812BSZ	SMD 960-5282●	14.16	10.86	9.21
814	28/TSSOP	8-Bit MicroConverter With 12-Bit ADC and embedded Flash MCU	ADUC814ARUZ	SMD 942-6361●	7.72	5.92	5.02
814	28/TSSOP	8-Bit MicroConverter With 12-Bit ADC and embedded Flash MCU	ADUC814ARUZ	SMD 942-6361●	7.72	5.92	5.02
831	52/LQFP	8-Bit MicroConverter With 12-Bit ADC/DAC With embedded 62K Flash MCU	ADUC831BSZ	SMD 960-5290●	14.85	11.47	9.72
831	52/LQFP	8-Bit MicroConverter With 12-Bit ADC/DAC With embedded 62K Flash MCU	ADUC831BSZ	SMD 960-5290●	14.85	11.47	9.72
832	52/LQFP	8-Bit MicroConverter With 12-Bit ADC/DAC With embedded 62K Flash MCU	ADUC832BSZ	SMD 107-9400●	14.85	11.47	9.72
832	52/LQFP	8-Bit MicroConverter With 12-Bit ADC/DAC With embedded 62K Flash MCU	ADUC832BSZ	SMD 107-9400●	14.85	11.47	9.72
834	52/MQFP	8-Bit MicroConverter With Dual 16/24-Bit ADC and embedded Flash MCU	ADUC834BSZ	SMD 107-9401●	18.81	15.06	13.37
834	52/MQFP	8-Bit MicroConverter With Dual 16/24-Bit ADC and embedded Flash MCU	ADUC834BSZ	SMD 107-9401●	18.81	15.06	13.37
836	52/MQFP	8-Bit MicroConverter With Dual 16-Bit ADC and embedded Flash MCU	ADUC836BSZ	SMD 114-3212	13.91	11.08	9.40
841	52/MQFP	8-Bit MicroConverter With 8-Ch 12-Bit ADC, Dual 12-Bit DAC and embedded Flash MCU	ADUC841BSZ62-3	SMD 143-8802●	14.81	11.77	10.46
841	52/MQFP	8-Bit MicroConverter With 8-Ch 12-Bit ADC, Dual 12-Bit DAC and embedded Flash MCU	ADUC841BSZ62-5	SMD 143-8804●	14.81	11.77	10.46
842	52/MQFP	8-Bit MicroConverter With 8-Ch 12-Bit ADC, Dual 12-Bit DAC and embedded Flash MCU	ADUC842BSZ62-3	SMD 143-8805●	14.06	11.19	9.50
842	52/MQFP	8-Bit MicroConverter With 8-Ch 12-Bit ADC, Dual 12-Bit DAC and embedded Flash MCU	ADUC842BSZ62-5	SMD 143-8806●	14.81	11.77	10.46
843	52/MQFP	8-Bit MicroConverter With 8-Ch 12-Bit ADC and embedded Flash MCU	ADUC843BSZ62-3	SMD 143-8807●	10.07	8.03	6.80
843	52/MQFP	8-Bit MicroConverter With 8-Ch 12-Bit ADC and embedded Flash MCU	ADUC843BSZ62-5	SMD 143-8808●	11.71	9.04	7.67
845	52/MQFP	8-Bit MicroConverter With 10-Ch 24-Bit ADC, 12-Bit DAC and embedded Flash MCU	ADUC845BSZ62-5	SMD 143-8809●	18.60	14.90	13.23
845	52/MQFP	8-Bit MicroConverter With 10-Ch 24-Bit ADC, 12-Bit DAC and embedded Flash MCU	ADUC845BSZ62-3	SMD 143-9047●	16.00	13.21	11.91
847	52/MQFP	8-Bit MicroConverter With 10-Ch 24-Bit ADC, 12-Bit DAC and embedded Flash MCU	ADUC847BSZ62-3	SMD 143-9048●	13.34	10.51	8.95
847	52/MQFP	8-Bit MicroConverter With 10-Ch 24-Bit ADC, 12-Bit DAC and embedded Flash MCU	ADUC847BSZ62-5	SMD 143-8810●	14.81	11.77	10.46
848	52/MQFP	8-Bit MicroConverter With 10-Ch 16-Bit ADC, 12-Bit DAC and embedded Flash MCU	ADUC848BSZ62-5	SMD 143-8811●	13.88	10.71	9.09

Microcontrollers and Microprocessors - 8-Bit - ATMEL

AVRISP - Low-cost In-System Programmer for Atmel AVR FLASH Microcontroller Family



The 'AVRISP' is a low-cost in-system programmer (ISP) supporting the Atmel AVR FLASH microcontroller family. The programmer plugs into the user Target System via a 6-pin ISP header and draws its power from the target. The Atmel 'AVRStudio' application is used to control the programmer via a spare PC COM (serial) port.

Features

- ISP programming of all in-system programmable AVR devices
- Programs FLASH, EEPROM, FUSE and Security bits
- Supports programming of the RC Oscillator Calibration Byte
- Powers from the Target System (2.7 - 5.5V - no external power supply required)
- Adjustable SPI speed. Supports all Target Boards running at >8KHz
- 'AVR Studio' PC interface software
- DOS command line interface also available
- Connects to spare PC COM (serial) port
- Supplied with 6-way ISP cable

System Contents

- AVRISP - ISP programmer
- Atmel 'AVR Studio' software on CD-ROM
- PC serial cable (9W - 9W)
- 6-way ISP cable

Device Support

- ISP (off-board) - AT90S, ATtiny, ATmega

232192

Mftrs. List No.	Order Code	Price Each
ATAVRISP2	113-5517●	30.29

700 products added online every week

See our pick of the hottest products and latest technologies in 'What's New?' at www.farnell.co.uk

AVR®JTAGICE mkII On-Chip Debug System



The AVR JTAGICE mkII is a powerful development tool for on-chip Debugging. It is for use with all AVR 8-bit RISC microcontrollers with IEEE 1149.1 compliant JTAG interface or debugWIRE interface. DebugWIRE uses a single wire for the interface to enable on chip debug of AVR microcontrollers in small pin count packages. The user is given complete control of the internal resources of the microcontroller and development time is reduced using the AVRstudio user interface. Real-Time emulation of the microcontroller can be performed while it is running in a target system.

Features:

- Full JTAG programming support
- USB 1.1 or RS-232 interface to the PC
- Supports multiple devices in JTAG Scan Chain
- Full support for Assembly and High Level Languages
- TArget voltage 1.8 - 5.5V
- Supply voltage 9 - 12V, or powered from USB Port

404563

Mftrs. List No.		Order Code	Price Each
ATJTAGICE2	AVR® JTAGICE mkII Debug System	917-1100	266.41

Atmel AVR JTAGICE2 Debug System and ATMEGA128 Test Board Value Pack





The AVR JTAGICE2 is a powerful development tool for on-chip debugging of all AVR 8-bit RISC MCUs and AVR 32-bit MCUs . The user is given complete control of the internal resources of the microcontroller and development time is reduced using the AVRstudio user interface.
The Jade ATMEGA128 test board is designed to aid the development of products using the ATMEGA series of microcontrollers.
Included with this value pack is a 10-way IDC to directly interface the Test Board to the JTAG Emulator / Programmer (JTAGICE).

RL Re-reeling available

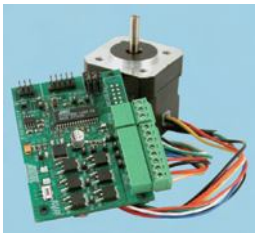
Microcontrollers and Microprocessors - 8-Bit - ATMEL - continued

Atmel AVR JTAGICE2 Debug System and ATMEGA128 Test Board Value Pack - continued

498736

Mftrs. List No.	Order Code	Price Each
ATJTAGICE2 - JMS2206	**152-6599**●	263.32

ATAVRMC100 Brushless DC Motor Evaluation Kit



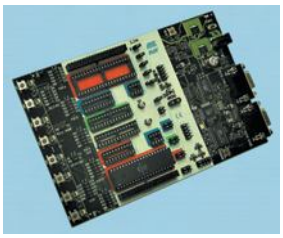
The ATAVRMC100 is an evaluation kit dedicated to brushless DC motor control, for both Hall effect sensor control and sensorless control using Back ElectroMotive Force. The kit includes an evaluation board, a 3-phase BLDC motor and a demonstration software. It allows users to quickly evaluate the capability of the AVR microcontroller AT90PWM3 to control high speed brushless DC motor applications. The kit can also serve as a development platform.

Kit Features:
- Evaluation Board with AT90PWM3 Microcontroller
- 3-phase BLDC Motor
- For both Hall Sensor and Sensorless Applications
- Supports In-System Programming and Chip Emulation
- Kit includes CD-ROMs with Datasheets, Application Notes & Demonstration Software.

450955

Mftrs. List No.	Order Code	Price Each
ATAVRMC100	**120-5491**●	177.31

STK500 - Professional AVR FLASH Microcontroller Starter System



The Atmel STK500 is a comprehensive Starter System for the Atmel AVR FLASH Microcontroller family. The system comprises of a single board module which features IC sockets for all the popular dual-in-line AVR devices. It is possible to 'in-system program' (ISP) and 'Parallel' program AVR devices on the STK500 and also to use the board to ISP a device on a seperate Target System. It can be used as an evaluation board by connecting up various on-board peripherals including LED's and push buttons.

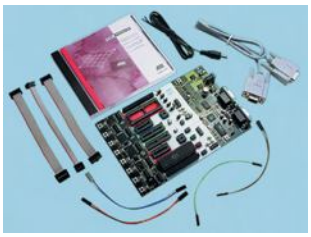
Features:
- AVR studio software interface
- RS-232 interface to PC for programming and configuration
- Second RS-232 port for user application
- External power supply required (9V - 12V DC)
- Sockets for 8, 20, 28 and 40 pin AVR devices
- Serial In-system programming (ISP) of AVR devices
- In-system programmer for programming AVR devices in an external target system
- Parallel and serial high-voltage programming of AVR devices
- 8 x push buttons and 8 x LED's for general use
- All AVR I/O ports easily accessible through pin header connectors
- Expansion connectors for plug-in modules (e.g. STK501) and prototyping area
- Flexible clocking, voltage and reset system

Device Support:
- ISP (on-board) - AT90S, ATtiny, ATmega (ATmega103/128 - requires STK501) devices
- Parallel (on-board) - ATS, ATmega (ATmega103/128 - requires STK501) devices
- ISP (off-board) - AT90S, ATtiny, ATmega

232166

Mftrs. List No.	Order Code	Price Each
STK500	**388-4429**	97.11

AVR Professional Development system with C compiler



The STK500/IAR "C" is a full development system containing everything needed to develop projects for the Atmel AVR microcontroller family. This kit is a collaboration between Atmel and IAR Systems.

Features of the STK500/IAR "C":
- Serial In-System programming of AVR devices
- In-System programming in external target systems
- Parallel and serial high voltage programming of AVR devices
- Sockets for 8, 20, 28, and 40 pin AVR devices
- RS232 interface to PC and spare RS232 connector & driver for general use
- Expansion connectors for plug-in modules and prototype areas
- LEDs and push buttons for experimentation
- All AVR I/O ports easily accessible through pin header connectors
- Atmel's AVR Studio 3 and AVR Studio 4 interface software (CD ROM)
- IAR Systems' EWAVR "C" compiler and debugger (4K byte output code size limited). Support and free updates direct from IAR for 3 months from registration date.
- Flexible clocking, voltage, and reset system
- Regulated power supply for 10 to 15V DC supply.

333811

Mftrs. List No.		Order Code	Price Each
STK500/IAR-C	AVR Complete Dev system with C	**440-2066**	205.67

AVR® STK500 Expansion Boards



STK501



STK502

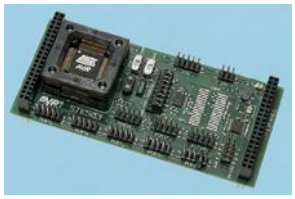
These expansion boards are designed as hardware expansion modules for the STK500 Starter Kit (Order Code: 388-4429).
The STK502 adds support for the 64-pin LCD AVR family with on-chip LCD controllers, and the Mega AVR family. The STK501 extends support to all current AVR® devices. A Zero Insertion Force (ZIF) socket allows easy use of TQFP packages for prototyping.

Features:
- AVR Studio® operated
- Plug-in module for STK500
- Serial In-System Programming
- Parallel High-voltage Programming
- All I/O ports easily accessible through Pin Header connectors
- TQFP Footprint for Emulator adapters
- JTAG connector for On-chip debugging using the JTAG ICE
- Target Voltage of 2.7 - 6.0V (STK501) or 1.8 - 5.5V (STK502)
- Powered by STK500

404570

	Mftrs. List No.	Order Code	Price Each
Carte d'extension AVR® STK501	STK501	NEW! **165-4896**●	69.83
AVR® STK502 Expansion Board	ATSTK502	**917-1541**	88.21

STK503 Expansion Board



The STK503 Expansion Board is designed as a hardware expansion module for the STK500 Starter Kit (Order Code: 388-4429). It adds support for 100-pin AVR microcontrollers (ATmega2560, ATmega1280 and ATmega640). STK530 includes connectors and hardware allowing full utilisation of the features of these devices, while the Zero Insertion Force (ZIF) socket makes it easy to use TQFP packages for prototyping.

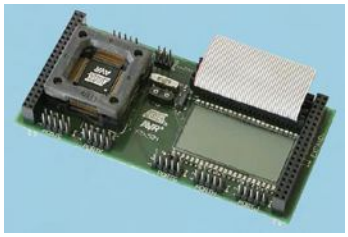
Features:
- Supports High Voltage Parallel Programming through STK500
- Supports Serial Programming through STK500
- On-board RS-232 converter covering operating range 1.8-5.5V
- Footprint for user-mountable SRAM
- JTAG Connector for on-chip debugging using JTAGICE mkII
- 32 kHz crystal for Real Time Clock implementations
- Supported by AVR Studio 4

450958

	Mftrs. List No.	Order Code	Price Each
STK503 Expansion Board	ATSTK503	**128-8347**●	106.03

STK504 Hardware Expansion Module

New



The STK504 board is a hardware expansion module for the STK500 Starter Kit. It adds support for the 100-pin LCD AVR family featuring an on-chip LCD controller and the Mega AVR family.The STK504 includes connectors, jumpers and hardware allowing full support for all features on the included ATmega3290, including a versatile LCD-display.

Features:
- Supports the ATmega3290 and ATmega6490 with built-in LCD controller
- Supports the ATmega3250 and ATmega6450.
- LCD glass for demonstrating the LCD controller
- Connector for using an external LCD display
- Supported by AVR Studio 4
- Zero Insertion Force (ZIF) socket for 100-pin TQFP packages
- Supports High Voltage Parallel Programming through STK500
- Supports Serial programming through STK500
- Port connectors for port E, F G, H and J

518914

Mftrs. List No.	Description	Order Code	Price Each
ATSTK504	STK504 Hardware Expansion Module	164-8593●	92.29

STK505 Starter Kit



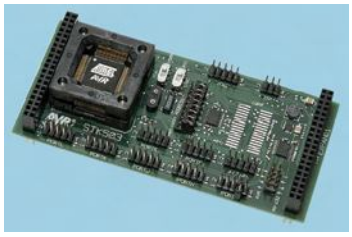
The STK505 Board is a top module for the STK500 Development Board. It supports the ATtiny24 and ATtiny26, and includes connectors and hardware that allow full utilization of these devices.
Included in the kit are samples of ATtiny24 and ATtiny26 microcontrollers.

Features:
- Supported by AVR Studio 4
- ZIF Socket for 14-pin SOIC packages
- DIP Socket for 20-pin PDIP packages
- Support for High/Low Voltage Programming with STK500
- Switch to select different clock sources
- Switch to select between reset and I/O functionality for the reset pin
- On board crystal sockets

495987

Mftrs. List No.	Description	Order Code	Price Each 1+
ATSTK505	STK505 Module	145-5132●	65.77

STK520 Expansion Board



The STK520 board is a top module designed to add AT90PWM family support to the STK500 development board from Atmel (Order Code: 388-4429). The STK520 includes connectors and hardware allowing full utilisation of the features of the AT90PWM, while the Zero Insertion Force (ZIF) socket facilitates the use of SO24 and SO32 packages for prototyping.

Features:
- Supports the AT90PWM2 and AT90PWM3
- DAIL Hardware Interface
- Supported by AVR Studio 4
- High Voltage Parallel Programming
- Serial Programming
- JTAG MKII connector
- Potentiometer for Demo Applications

450961

	Mftrs. List No.	Order Code	Price Each
STK520 Expansion Board	ATSTK520	128-8348●	70.39

AVR STK525 Starter Kit



The STK525 Starter Kit is dedicated to the AT90USBxxx AVR microcontroller. This board is designed for the evaluation of the product using demonstration software. To complement the evaluation and enable additional development capability, the STK525 can be plugged into the Atmel STK500 Starter Kit Board (Order Code: 388-4429) in order to use the AT90USBxxx with advanced features such as variable VCC, variable VRef, variable XTAL, etc.This stand-alone board has numerous onboard resources such as USB, RS232, joystick, data-flash, microphone and temperature sensor

Features:
- Supports AT90USBxxx TQFP devices
- AVR Studio software interface
- USB software interface for Device Firmware Upgrade
- Power supply options: external power connector, USB interface or from STK500
- ISP connector
- JTAG connector for debugging/ on-chip ISP
- 1 USB full/low speed device/host interface
- RS-232C ports with RTS/CTS handshake lines
- On-board RESET button
- On-board HWB button for force bootloader section execution at reset
- Numerous access points for test

ATEVK525 - USB Mass Storage Add-On

The EVK525 is an add-on for the STK525 that allows a user to evaluate alternative mass storage media. It includes a NAND Flash of 256Mbytes and the possibility to add other Flash circuits. It also has a receptacle for SD/MMC cards.

450973

	Mftrs. List No.	Order Code	Price Each
AVR STK520 Expansion Board	ATSTK525	128-8351●	177.31
ATEVK525 - USB Mass Storage Add-On	ATEVK525	NEW 163-7768●	122.41

ATEVK525 - USB Mass Storage Evaluation Kit



This evaluation board has been designed to be plugged into the Atmel STK525 Starter Kit Board to add mass storage capability to an existing development board. It will also combine them with other features such as USB, RS232, Microphone and all AVRdevelopment tools.

Features Include:
- NAND Flash (Micron MT29F2G08AACWP)
- Reserved location additional NAND Flash module plug-in
- Receptacle for SD and MMC memory cards
- LED signalling for Read/Write operations
- Numerous access points for debug

525887

Mftrs. List No.	Description	Order Code	Price Each
ATEVK525	ATEVK525 Mass Storage Evaluation Board for AVR	163-7768●	122.41

STK526 - AT90USB82/162 Starter Kit



This starter kit is dedicated to the AT90USB82/162 microcontrollers and is designed to allow easy evaluation of the microcontollers using demonstration software.
To enable additional development capability, the STK526 can be plugged into the Atmel STK500 Starter Kit Board.

Features Include:
- AT90USB82/162 TQFP device
- AVR Studio® software interface
- USB software interface for device firmware upgrades
- STK500 compatible
- Power supply flagged by POWER-ON LED
- ISP connector
- On-board RESET button
- On-board HWB button
- System clock:
- Numerous access points for test

525888

Mftrs. List No.	Description	Order Code	Price Each
ATSTK526	AT90USB82/162 Starter Kit	163-7771●	162.18

AVR® STK600 Starter Kit/Development System



The AVR® STK600 is a complete starter kit and development system for the AVR and AVR32 flash microcontrollers. It is designed to give the user a quick start into developing code on the AVR, combined with advanced features for using the starter kit to prototype and test new designs. An ATmega2560 device board is provided with this kit.

504785

Mftrs. List No.	Description	Order Code	Price Each
ATSTK600	AVR STK600 Starter/Development Kit	156-2235●	162.69

Flowcode V3 for AVR and E-Blocks Bundle



This bundle solution is perfect for low cost entry into AVR development and is great for students who want to continue their studies at home, and for engineers who need to develop prototypes of electronic systems quickly. The pack is fully compatible with the range of E-block accessories. Datasheets on each individual item are available separately.

Kit Includes:
- Flowcode 3 for AVR
- LED E-Block (8 leds)
- Switch E-block (8 switches)
- LCD E-block (2 line 16 character)
- E-blocks AVR board with AVRISPmk2 programmer
- USB cable
- Power supply

RL Re-reeling available

Microcontrollers and Microprocessors - 8-Bit - ATMEL - continued

Flowcode V3 for AVR and E-Blocks Bundle - continued

516941

Mftrs. List No.	Description	Order Code	Price Each
EB675SI3	Flowcode V3 for AVR and E-Blocks Bundle	162-0647●	129.50

E-blocks™ Atmel AVR® Microcontroller Programmer EB194



The AVR Multiprogrammer includes everything you need to both program a AVR microcontrollers as well as to develop AVR projects. This product contains several items: a CD ROM containing development tools, an in-system programmer and an E-blocks AVR board. The ISP programmer connects to your USB port and to the board which is compatible with 20 and 40 pin AVR devices. The board supplies 4 full E-blocks ports and all pins are available on a 40 pin header. The CD ROM includes a range of development tools including an Integrated Development Environment for code writing in assembly and debugging, and the ISP programming software. A free GNU C compiler can be added to the IDE for those wanting to write programs in C.

- A complete AVR development solution
- Programs and executes AVR code via USB
- Includes full IDE - free GNU C compiler available
- E-blocks compatible
- Supports a wide range of devices

377472

	Mftrs. List No.	Order Code	Price Each
AVR Multiprogrammer	EB194	138-1389●	66.83

C for AVR E-blocks bundle EB671SI

This system consists of an AVR multiprogrammer and in system programmer, an LED E-block (8 leds) ,a switch E-block (8 switches), an LCD E-block (2 line 16 character), a USB cable, power supply and C for AVR microcontrollers CD ROM which includes a full suite of tutorials, C compiler and Integrated Development Environment. This solution is perfect for low cost entry into AVR development for engineers who need to get up to speed with microcontroller system development using C. The retail price of this pack is at a significant discount to the sum of the individual parts.

475578

	Mftrs. List No.	Order Code	Price Each
KIT, E-BLOCKS BUNDLE, C FOR AVR	EB671SI	138-2358●	150.00

AVR CDROM & course ELCVR

This new CD ROM on C programming for AVR is designed for those who want to learn how to program embedded microcontrollers in C. The CD contains a full course as well as all the software tools needed to create hex code for a range of AVR ATmega devices - including a full C compiler and an Integrated Development Environment (IDE). The CD ROM makes extensive use of a virtual C microcontroller which uses code simulation to explain how C works: students can step through programs to see the effects of each line of code on the microcontroller. This product is designed to work seamlessly with our E-blocks AVR Multiprogrammer, but will also operate with third party programmers. Written by David and Rob Miles of Durham and Hull Universities.

- A full course in C programming
- Includes C compiler and IDE
- Includes virtual Atmega microcontroller simulations
- Links to E-blocks AVR multiprogrammer

475516

	Mftrs. List No.	Order Code	Price Each
CD-ROM, C FOR AVR MCU	ELCVRSI	138-2364	85.00

AT89STK-11 Starter Kit



The AT89STK-11 Starter Kit is dedicated to the In-System Programmable standard Flash C51 microcontrollers. The board has been designed to allow an easy evaluation of the product.

Features:

- Stand-alone Board
- In-System Programmable
- On-board Voltage Regulator
- Microcontroler on its sockets
- - PLCC44-pin package
- On-board 3V or 5V power supply circuitry
- - from an external power connector
- - from an external battery
- On-board RESET
- Leds : Power, ALE, RS232 Rx and Tx
- External MCU clock connector
- External PCA clock connector
- TWI, SPI and RS232 connectors
- INT0 & INT1 Push-button
- Expansion area with prototyping facilities
- Commercial Temperature Range: 0 to +70°C Operating Temperature
- Dimensions: 95 mm x 120 mm

478315

Mftrs List No.	Order Code	Price Each
AT89STK-11	132-4090●	106.58

Epsilon5 Portable ISP Programmer MK2



Features:

- High speed development programmer for the 8051 & AVR Flash Microcontroller
- Supprts Atmel, Philips & Zensys
- Ideal programmer for development, field service and production applications
- Supports programming of FLASH, EEPROM, FUSE bits, Security bits and RC Oscillator Calibration bytes
- On board 2Mbits non-volalite Flash memory
- The programmer can be PC controlled or used in standalone mode
- All the popular ISP headers are catered for including the new JTAG ISP Port required for fast programming of the ATmega family

Kit Contents:

- The Epsilon5 programmer MK2 with 2 internal jumper
- A power lead included, requires 3.1-5V DC supply
- A 9 way male/female serial cable
- 25/9 way serial adaptor
- 10 way IDC ribbon cable
- Utility Tool CDROM software
- A user manual

476230

	Mftrs. List No.	Order Code	Price Each
Epsilon5 Portable ISP Programmer MK2	EPSILON5-A1	134-4898●	210.94

FS2003 Portable ISP Programmer



Kit Contents:

- The FS2003 programmer with 2 jumper links
- An external DC universal (UN) PSU 9V @ 300mA
- A power lead with a jack at one & bare wires at the other
- A 9 way male/female serial cable
- 25/9 way serial adaptor
- 10 & 6 way IDC ribbon cable
- Utility Tool CDROM software
- A user manual

Features:

- Portable In-System (ISP) Programmer
- Ideal for development, Production or Field use
- Supports ISP of Atmel 8051 and AVR FLASH Microcontrollers
- Supports ISP of Philips P89C51Rx2 and P89C66x FLASH Microcontrollers
- Supports 'Standalone' operation i.e. no PC required after programmer has been configured
- Very fast programming speeds suitable for high-throughput production environments
- Up to 64 individual Programming Projects can be uploaded to the non-volatile On-board FLASH Store (4Mbytes).
- Individually configurable programmer I/O pins
- Programmable frequency generator output on SCK2 pin - supports external clocking of ATmega, and ATtiny AVR devices to speed up programming
- Programmer firmware is field upgradeable to cater for future algorithms
- CE / FCC approved product

476232

	Mftrs. List No.	Order Code	Price Each
FS2003 Portable ISP Programmer	FS2003(UN)	134-4899	404.93

RS485 Comms converter kit



- Converts PC comms RS232 to RS485 for interfacing with Equinox programmers
- One RS485 converter can be used to daisy chain 16 programmers controlled by one PC
- The converter is opitcally isolated to prevent ESD damage
- The converter has 3 LED status indicators
- The kit contains converter module, serial lead, serial adaptor, two RJ11 RS485 cable & a user manual
- Requires a 9V 1.5A regulated PSU not supplied

476239

	Mftrs. List No.	Order Code	Price Each
RS485 Comms converter kit	RS485-C2(UN)	134-4907▲	179.52

RL Re-reeling available

Equinox CDROM Software Upgrades

476236

Application	Mftrs. List No.	Order Code	Price Each
Epsilon5 JTAG software upgrade	EPSILON5-UPG3	**134-4904**	143.61
FS2003 JTAG software upgrade	FS2003-UPG7	**134-4905**	295.27
PPM3 MK2 JTAG software upgrade	PPM3A1-UPG7	**134-4906**	523.46

AT80C31X2/32X2 8-bit Microcontrollers - ROMless

422974

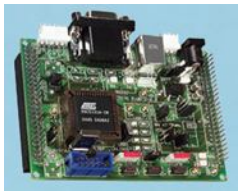
	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
80C31	40	DIP	2.7V to 5.5V, 8-Bit CMOS MCU, ROMless - 30MHz (80C31 Compatible, 5 interrupt sources)	AT80C31X2-3CSUL	**109-5712●**	2.38	1.58	1.46
80C31	40	DIP	5V ± 10%, 8-Bit CMOS MCU, ROMless - 40MHz (80C31 Compatible, 5 interrupt sources)	AT80C31X2-3CSUM	**109-5713●**	2.05	1.37	1.27
80C31	44	PLCC	2.7V to 5.5V, 8-Bit CMOS MCU, ROMless - 30MHz (80C31 Compatible, 5 interrupt sources)	AT80C31X2-SLSUL	SMD **109-5714●**	2.38	1.58	1.46
80C31	44	PLCC	5V ± 10%, 8-Bit CMOS MCU, ROMless - 40MHz (80C31 Compatible, 5 interrupt sources)	AT80C31X2-SLSUM	SMD **109-5715●**	2.05	1.37	1.27
80C32	40	DIP	2.7V to 5.5V, 8-Bit CMOS MCU, ROMless - 30MHz (80C52 Compatible, 6 interrupt sources)	AT80C32X2-3CSUL	**109-5716●**	2.38	1.58	1.46
80C32	40	DIP	5V ± 10%, 8-Bit CMOS MCU, ROMless - 40MHz (80C52 Compatible, 6 interrupt sources)	AT80C32X2-3CSUM	**109-5718●**	2.05	1.37	1.27
80C32	44	PLCC	2.7V to 5.5V, 8-Bit CMOS MCU, ROMless - 30MHz (80C52 Compatible, 6 interrupt sources)	AT80C32X2-SLSUL	SMD **109-5719●**	2.38	1.58	1.46
80C32	44	PLCC	5V ± 10%, 8-Bit CMOS MCU, ROMless - 40MHz (80C52 Compatible, 6 interrupt sources)	AT80C32X2-SLSUM	SMD **109-5720●**	2.05	1.37	1.27

AT89C 8-bit FLASH Microcontrollers

422976

	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
89C5131	52	PLCC	8-Bit Flash MCU With Full Speed USB Device	AT89C5131A-S3SUM	SMD **109-5721●**	7.67	4.86	4.36
89C51	44	PLCC	Enhanced 8-Bit MCU With CAN Controller and Flash Memory	AT89C51CC01UA-SLSUM	SMD **109-5722●**	8.53	5.40	4.85
89C51	44	PLCC	Enhanced 8-Bit MCU With CAN Controller and Flash Memory	AT89C51CC03UA-SLSUM	SMD **109-5723●**	10.34	6.56	5.88
89C51	44	VQFP	High-Performance 8-Bit CMOS Flash MCU With Data EEPROM	AT89C51ED2-RLTUM	SMD **109-5725●**	9.19	5.83	5.23
89C51	44	PLCC	High-Performance 8-Bit CMOS Flash MCU With Data EEPROM	AT89C51ED2-SLSUM	SMD **109-5726●**	9.19	5.83	5.23
89C51	68	PLCC	High-Performance 8-Bit CMOS Flash MCU With Data EEPROM	AT89C51ED2-SMSUM	SMD **109-5727●**	9.77	6.19	5.55
89C51	80	TQFP	8-Bit MCU With MP3 Decoder and HumAn Interface	AT89C51SND1C-ROTUL	SMD **109-5728●**	13.80	8.20	7.27
89C51	44	PLCC	8-bit, 128K Flash Microcontroller	AT89C51RE2-SLSUM	SMD **145-5062●**	7.86	6.55	5.62
89C55	44	PLCC	8-Bit MCU With 20Kb Flash	AT89C55WD-24JU	SMD **109-5731●**	3.84	2.61	2.38
89C55	40	DIP	8-Bit MCU With 20Kb Flash	AT89C55WD-24PU	**109-5732●**	3.84	2.61	2.38

AT89STK-05 Starter Kit



The AT89STK-05 starter kit is designed to help get developers started with Atmel's AT89C5131A USB Flash microcontrollers.

Kit Includes:

AT89STK-05 Development Board, In-System Programming Software (FLIP), and an HID (Human Interface Device) keyboard demonstration program.

495454

List No.	Description	Order Code	Price Each 1+
AT89STK-05	AT89STK-05 Starter Kit	**145-5063●**	104.94

£ € 40,000 PRICES REDUCED

AT89STK-10 Starter Kit



The AT89STK-10 is a USB mass storage starter kit based on Atmel USB Flash C51 microcontrollers - AT89C5130A, AT89C5131A and AT89C5122. It offers users the possibility to run applications such as data storage and file management under the USB Mass Storage Class with full handling of FAT and SCSI commands under all Windows versions. The kit demonstrates the simplicity, flexibility and capability of Atmel USB solutions. The AT89STK-10 is an add-on board for the AT89STK-03 or AT89STK-05 starter kits.

Kit Includes:

- Flash Evaluation Board
- Nand Flash memory (MICRON MT29F2G08AABWP, 256 MBytes)
- DataFlash Card (ATMEL AT45DCB004C, 4MB)
- USB Products CD-ROM

495480

List No.	Description	Order Code	Price Each 1+
AT89STK-10	AT89STK-10 Starter Kit	**145-5064●**	122.33

See our range of **Supervisory Circuits** on page 254

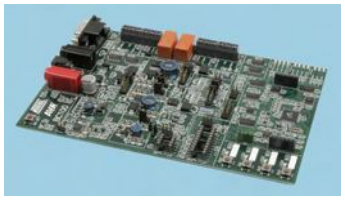
AT89S 8-bit FLASH Microcontrollers

422983

	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
89S51	44	PLCC	8-Bit CMOS MCU With 4Kb ISP Flash	AT89S51-24JU	SMD **109-5738●**	1.49	1.16	1.13
89S51	40	DIP	8-Bit CMOS MCU With 4Kb ISP Flash	AT89S51-24PU	**109-5739●**	1.49	1.16	1.13
89S52	44	TQFP	8-Bit CMOS MCU With 8Kb ISP Flash	AT89S52-24AU	SMD **109-5740●**	1.55	1.17	1.15
89S52	44	PLCC	8-Bit CMOS MCU With 8Kb ISP Flash	AT89S52-24JU	SMD **109-5741●**	1.55	1.17	1.15
89S52	40	DIP	8-Bit CMOS MCU With 8Kb ISP Flash	AT89S52-24PU	**109-5743●**	1.55	1.17	1.15
89S2051	20	DIP	8-Bit CMOS MCU With 2Kb Flash	AT89S2051-24PU	**109-5734●**	1.73	1.14	1.02
89S2051	20	SOIC	8-Bit CMOS MCU With 2Kb Flash	AT89S2051-24SU	SMD **109-5735●**	1.73	1.14	1.02
89S4051	20	DIP	8-Bit CMOS MCU With 4Kb Flash	AT89S4051-24PU	**109-5736●**	2.00	1.36	1.23
89S4051	20	SOIC	8-Bit CMOS MCU With 4Kb Flash	AT89S4051-24SU	SMD **109-5737●**	2.00	1.36	1.23
89S8253	44	TQFP	8-Bit CMOS MCU With 12Kb ISP Flash & 2K EEPROM	AT89S8253-24AU	SMD **109-5744●**	4.41	2.97	2.67
89S8253	44	PLCC	8-Bit CMOS MCU With 12Kb ISP Flash & 2K EEPROM	AT89S8253-24JU	SMD **109-5745●**	4.41	2.97	2.67
89S8253	40	DIP	8-Bit CMOS MCU With 12Kb ISP Flash & 2K EEPROM	AT89S8253-24PU	**109-5746●**	4.06	3.06	2.78

Microcontrollers and Microprocessors - 8-Bit - ATMEL - continued

BC100 Battery Charger Reference Design Kit



Features Include:
- A tripple buck converter for battery charging
- Battery charging and discharging using ATtiny261/461/861 or ATtiny25/45/85
- ATmega644 host controller

This reference design kit demonstrates the charging and discharging of two batteries/battery packs with a programmable charge voltage up to 40V.
The kit can be used to charge various battery types, as long as the requirements to charging voltages and currents are within the output range that the kit offers. The kit can be used to develop applications such as battery chargers, battery backups, Un-interruptable power supplies and switch mode power supplies.

525836

Mftrs. List No.	Description	Order Code	Price Each
ATAVRBC100	Battery Charger Reference Design Kit	163-7764●	80.60

ATAVRFBKIT - Dimmable Fluorescent Ballast



This dimmable fluorescent ballast kit demonstrates the ability of the AT90PWM2 to control all the main functions of a DALI Fluorescent Ballast.

Features Include:
- Automatic microcontroller dimmable ballast
- Power Factor Corrected (PFC) boost regulator
- Variable frequency half bridge inverter
- Automatic dimmable single lamp operation
- Automatic detection of Swiss or DALI
- Very versatile power saving options
- Universal input
- 18 W
- Power feedback

525841

Mftrs. List No.	Description	Order Code	Price Each
ATAVRFBKIT	Dimmable Flourescent Ballast Kit	163-7765●	162.18

ATAVRMC200 - AC Motor Control Evalutation Kit



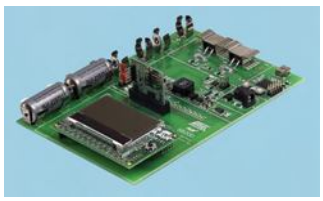
This evaluation kit is dedicated to evaluating asynchronous AC motor control and also allows the evaluation of BLDC motors using the AT90PWM3/3B AVR microcontroller. The kit uses various sensors for regulation and will support motors rated from 110V to 230V.

Features Include:
- AT90PWM3-16SQ SO32 device
- Power bridge for AC induction Motors
- Embedded AC/DC power supply
- Hardware temperature detection
- Hardware overcurrent detection
- On-board Voltage Regulator
- AVR Studio ® Software Interface
- Power-supply flagged by Green LED
- ISP connector for Debug Wire
- Opto-isolated ISP connect
- Opto-isolated UART interface
- System Clock
- Three opto-isolated inputs
- Power supply EMC filtering

525885

Mftrs. List No.	Description	Order Code	Price Each
ATAVRMC200	AC Motor Control Evaluation Kit	163-7766●	243.79

ATAVRSB200 Development Board



This development board provides a platform for SB20x reference designs. This offers an easy way to start the evaluation and development of smart battery applications using the ATmega16HVA and ATmega8HVA microcontollers.

Features Include:
- Safe use of the SB200 and Li-Ion batteries
- Data logging
- Trouble shooting

526078

Mftrs. List No.	Description	Order Code	Price Each
ATAVRSB200	ATAVRSB200 Development Board	167-3237●	243.79

AT90USBKey Demonstration Board



The AT90USBKey demonstration board is based on the AT90USB1287 microcontroller. It allows the quick evaluation of AVR microcontrollers and the AT90USB family. The key simply connects to the USB port of a personal computer to retrieve on-board documentation and run AVR programs. Designers can either run demonstration programs or their own application. It also allows hardware developments by giving access to the JTAG port and all the IOs of the microcontroller. An external power supply can be used for USB host or stand-alone operation.

495509

List No.	Description	Order Code	Price Each 1+
AT90USBKEY	AT90USBKey Demonstration Board	145-5078●	26.72

ATDVK90CAN1 Development Kit



This stand alone development kit is designed to allow easy evaluation of the AT90CAN products using reference software. To complement evaluation and enable additional development, the board can also be plugged into the STK500 starter-kit. The ATDVK90CAN1 board has numerous serial interfaces (dual RS232, CAN, LIN, SPI & TWI) and resources (Keyboard, LEDs, voltage reading, light and temperature sensors and speaker).

495893

List No.	Description	Order Code	Price Each 1+
ATDVK90CAN1	ATDVK90CAN1 Development Kit	145-5089●	93.76

Jade ATMEGA128 Test Board



The Jade ATMEGA128 test board is designed to aid the development of products using the ATMEGA series of microcontrollers from ATMEL. The board is based on an ATMEGA128 MCU (running at 4MHz), with all connections brought out to 8 way connectors. A 10 way IDC is included to directly interface to a JTAG emulator/programmer (not supplied). The board is powered via an external DC power supply (not supplied). The board also has an integral 5-volt linear regulator and LED DC on indicator.

ATMEGA128 Features:
- 128Kbyte of programme flash, 4Kbyte EEPROM
- Onboard oscillator, however there is a 4MHz crystal supplied
- 5 off 8 bit input/output ports, 1 off 5 bit port, 1 off 4 bit port

Port Features:
- 2 Serial UARTS
- 1 SPI port
- 2 PWM channels
- 8 off 10 bit A/D converter
- 1 off comparator

451593

		Order Code	Price Each
JMS 2206	Jade ATMEGA128 Test Board	124-9207●	41.35



Half full waffle trays!

Components ready to pick and place in original manufacturer waffle tray packaging - at half full quantities!

Find out more on **page 579** or visit **www.farnell.com**

Atmel AVR Microcontrollers

210723

	Pins	Package	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+
2	24	SOP	8-bit Microcontroller with 8KB ISP Flash	AT90PWM2B-16SU	SMD 145-5068●	2.69	2.13	1.66	1.51
3	32	SOP	8-bit Microcontroller with 8KB ISP Flash	AT90PWM3B-16SU	SMD 145-5069●	2.88	2.05	1.80	1.66
64	64	MLF	8-Bit MCU, 64K Flash, 4Kbytes RAM, 53 I/O Lines, 8MHZ	ATMEGA64L-8MU	SMD 145-5125●	10.02	5.69	5.04	– –
8	32	TQFP	8-Bit CMOS MCU, 8K Flash, 1kbytes RAM, 23 I/O Lines, 16MHz (IND TEMP)	ATMEGA8-16AU	SMD 917-1371●	3.16	1.69	1.50	– –
8	28	DIP	8-Bit CMOS MCU, 8K Flash, 1kbytes RAM, 23 I/O Lines, 16MHz (IND TEMP)	ATMEGA8-16PU	917-1380●	3.27	1.75	1.55	– –
8	32	TQFP	8-Bit CMOS MCU, 8K Flash, 1kbytes RAM, 23 I/O Lines, 8MHz (IND TEMP)	ATMEGA8L-8AU	SMD 917-1525●	3.16	1.69	1.50	– –
8	28	DIP	8-Bit CMOS MCU, 8K Flash, 1kbytes RAM, 23 I/O Lines, 8MHz (IND TEMP)	ATMEGA8L-8PU	917-1533●	3.27	1.75	1.55	– –
8	32	MLF	8-Bit MCU, 8K Flash, 1Kbytes RAM, 23 I/O Lines, 16MHZ	ATMEGA8-16MU	SMD 145-5127●	2.71	1.80	1.44	– –
8	32	MLF	8-Bit MCU, 8K Flash, 1Kbytes RAM, 8MHZ	ATMEGA8L-8MU	SMD 145-5130●	3.21	1.75	1.55	– –
11	8	SOIC	8-Bit CMOS MCU, 1K Flash, 6 I/O Lines - 6MHz	ATTINY11-6SI	SMD 361-7970▲	2.15	1.42	1.14	– –
13	8	DIP	8-Bit CMOS MCU, 1K Flash, 64byte RAM 6 I/O Lines - 20MHz	ATTINY13-20PU	917-1550●	1.23	0.82	0.76	– –
13	8	SOIC	8-Bit CMOS MCU, 1K Flash, 64byte RAM 6 I/O Lines - 20MHz	ATTINY13-20SU	SMD 917-1568●	1.43	0.80	0.71	– –
13	8	DIP	8-Bit CMOS MCU, 1K Flash, 64byte RAM 6 I/O Lines - 10MHz	ATTINY13V-10PU	917-1576●	1.17	0.91	0.74	– –
13	8	SOIC	8-Bit CMOS MCU, 1K Flash, 64byte RAM 6 I/O Lines - 10MHz	ATTINY13V-10SU	SMD 917-1584●	1.43	0.94	0.71	– –
13	8	SOIC	8-Bit MCU, 1K Flash, 64bytes RAM. 20MHZ	ATTINY13-20SSU	SMD 145-5133●	1.36	0.87	0.76	– –
13	20	MLF	8-Bit MCU, 1K Flash, 64bytes RAM, 10MHZ	ATTINY13V-10MU	SMD 145-5134●	1.36	0.91	0.77	– –
13	8	SOIC	8-Bit MCU, 1K Flash, 64bytes RAM. 10MHZ	ATTINY13V-10SSU	SMD 145-5135●	1.36	0.91	0.77	– –
16	44	TQFP	8-Bit CMOS MCU, 16K ISP Flash, 1Kbytes RAM, 32 I/O Lines, 8MHZ	ATMEGA16L-8AU	SMD 917-1258●	5.75	3.07	2.72	– –
16	40	DIP	8-Bit CMOS MCU, 16K ISP Flash, 1Kbytes RAM, 32 I/O Lines, 8MHZ	ATMEGA16L-8PU	917-1266●	5.85	3.13	2.77	– –
16	44	TQFP	8-Bit CMOS MCU, 16K ISP Flash, 1Kbytes RAM, 32 I/O Lines, 16MHZ	ATMEGA16-16AU	SMD 917-1134●	5.75	3.07	2.72	2.40
16	40	DIP	8-Bit CMOS MCU, 16K ISP Flash, 1Kbytes RAM, 32 I/O Lines, 16MHZ	ATMEGA16-16PU	917-1142●	5.85	3.13	2.77	– –
16	44	MLF	8-bit Microcontroller, 16KB ISP Flash, 512B EEPROM.	ATMEGA16-16MU	SMD 145-5097●	4.60	3.06	2.75	– –
16	44	MLF	8-bit Microcontroller, 16KB ISP Flash, 512Bytes EEPROM, 8MHz	ATMEGA16L-8MU	SMD 145-5107●	4.60	3.06	2.75	– –
24	14	DIP	8-Bit MCU, 2K ISP Flash, 128bytes RAM, 20MHZ	ATTINY24-20PU	145-5136●	1.70	1.13	1.01	– –
24	14	SOIC	8-Bit MCU, 2K ISP Flash, 128bytes RAM, 20MHZ	ATTINY24-20SSU	SMD 145-5137●	1.70	1.13	1.01	– –
24	14	DIP	8-Bit MCU, 2K ISP Flash, 128bytes RAM, 10MHZ	ATTINY24V-10PU	145-5139●	1.70	1.13	1.01	– –
24	14	SOIC	8-Bit MCU, 2K ISP Flash, 128bytes RAM, 10MHZ	ATTINY24V-10SSU	SMD 145-5141●	1.70	1.13	1.01	– –
25	8	DIP	8-Bit MCU, 2K ISP Flash, 128bytes RAM, 20MHZ	ATTINY25-20PU	145-5142●	1.49	0.88	0.75	– –
25	8	SOIC	8-Bit MCU, 2K ISP Flash, 128bytes RAM, 20MHZ	ATTINY25-20SU	SMD 145-5143●	1.49	1.00	0.88	– –
25	8	DIP	8-Bit MCU, 2K ISP Flash, 128bytes RAM, 10MHZ	ATTINY25V-10PU	145-5144●	1.49	0.88	0.75	– –
25	8	SOIC	8-Bit MCU, 2K ISP Flash, 128bytes RAM, 10MHZ	ATTINY25V-10SU	SMD 145-5145●	1.49	1.00	0.88	– –
25	8	SOIC	8bit MCU with 2K Flash, 2.7-5.5V.	ATTINY25-20SSU	NEW SMD 163-6951●	1.36	0.91	0.73	– –
25	8	SOIC	8bit MCU with 2K Flash, 1.8-5.5V.	ATTINY25V-10SSU	NEW SMD 163-6952●	1.36	0.91	0.73	– –
26	20	DIP	8-Bit CMOS MCU, 2K Flash, 128bytes RAM, 32 I/O Lines, 16MHz	ATTINY26-16PU	917-1630●	2.20	1.18	1.05	– –
26	20	SOIC	8-Bit CMOS MCU, 2K Flash, 128bytes RAM. 32 I/O Lines, 16MHz	ATTINY26-16SU	SMD 917-1649●	2.20	1.18	1.05	– –
26	20	DIP	8-Bit CMOS MCU, 2K Flash, 128bytes RAM, 32 I/O Lines, 8MHz	ATTINY26L-8PU	917-1657●	2.20	1.18	1.05	– –
26	20	SOIC	8-Bit CMOS MCU, 2K Flash, 128bytes RAM. 32 I/O Lines. 8MHz	ATTINY26L-8SU	SMD 917-1665●	2.20	1.18	1.05	– –
32	44	TQFP	8-Bit CMOS MCU, 32K Flash, 2 kbytes RAM, 32 I/O Lines, 8MHz	ATMEGA32L-8AU	SMD 917-1290●	7.28	3.89	3.45	– –
32	40	DIP	8-Bit CMOS MCU, 32K Flash, 2 kbytes RAM, 32 I/O Lines, 8MHz	ATMEGA32L-8PU	917-1304●	7.28	3.89	3.45	– –
32	44	TQFP	8-Bit CMOS MCU, 32K Flash, 2kbytes RAM. 32 I/O Lines, 16MHz.	ATMEGA32-16AU	SMD 917-1274●	7.28	3.89	3.45	– –
32	40	DIP	8-Bit CMOS MCU, 32K Flash, 2kbytes RAM, 32 I/O Lines, 16MHz.	ATMEGA32-16PU	917-1282●	7.37	3.95	3.49	3.09
32	64	TQFP	8-Bit, 32K Flash, 1K EEPROM, CAN Controller	AT90CAN32-16AU	SMD 145-5066●	8.64	5.44	4.65	4.34
32	44	MLF	8-bit Microcontroller, 32KB ISP Flash, 1024Bytes EEPROM, 16MHz	ATMEGA32-16MU	SMD 145-5108●	5.90	3.94	3.49	– –
32	44	MLF	8-bit Microcontroller with 32KB ISP Flash	ATMEGA32L-8MU	SMD 145-5113●	5.90	3.89	3.42	– –
44	14	DIP	8-Bit MCU, 4K ISP Flash, 256bytes RAM, 20MHZ	ATTINY44-20PU	145-5150●	1.82	1.21	1.03	– –
44	14	SOIC	8-Bit MCU, 4K ISP Flash, 256bytes RAM, 20MHZ	ATTINY44-20SSU	SMD 145-5152●	1.82	1.21	1.03	– –
44	14	DIP	8-Bit MCU, 4K ISP Flash, 256bytes RAM, 10MHZ	ATTINY44V-10PU	145-5153●	1.82	1.21	1.03	– –
44	14	SOIC	8-Bit MCU, 4K ISP Flash, 256bytes RAM, 10MHZ	ATTINY44V-10SSU	SMD 145-5154●	1.82	1.21	1.03	– –
45	8	PDIP	8-Bit CMOS MCU, 4K Flash, 256bytes RAM, 6 I/O Lines, 20MHz (IND TEMP)	ATTINY45-20PU	128-8352●	1.90	1.02	0.90	– –
45	8	SOIC	8-Bit CMOS MCU, 4K Flash, 256bytes RAM, 6 I/O Lines, 20MHz (IND TEMP)	ATTINY45-20SU	SMD 128-8353●	2.35	1.53	1.11	– –
45	8	PDIP	8-Bit CMOS MCU, 4K Flash, 256bytes RAM, 6 I/O Lines, 10MHz (IND TEMP)	ATTINY45V-10PU	128-8354●	1.90	1.02	0.90	– –
45	8	SOIC	8-Bit CMOS MCU, 4K Flash, 256bytes RAM, 6 I/O Lines, 10MHz (IND TEMP)	ATTINY45V-10SU	SMD 128-8355●	2.35	1.53	1.11	– –
48	32	TQFP	8-Bit CMOS MCU, 8K Flash, 512 bytes RAM, 23 I/O Lines, 20MHz (IND TEMP)	ATMEGA48-20AU	SMD 917-1312●	2.30	1.23	1.09	– –
48	28	DIP	8-Bit CMOS MCU, 4K Flash, 512 bytes RAM, 23 I/O Lines, 20MHz (IND TEMP)	ATMEGA48-20PU	917-1320●	2.40	1.28	1.13	– –
48	32	TQFP	8-Bit CMOS MCU, 4K Flash, 512 bytes RAM, 23 I/O Lines, 10MHz (IND TEMP)	ATMEGA48V-10AU	SMD 917-1339●	2.30	1.23	1.09	– –
48	28	DIP	8-Bit CMOS MCU, 4K Flash, 512 bytes RAM, 23 I/O Lines, 10MHz (IND TEMP)	ATMEGA48V-10PU	917-1347●	2.20	1.28	1.13	– –
48	32	MLF	8-bit Microcontroller with 4KB ISP Flash, SPI	ATMEGA48-20MU	SMD 145-5116●	2.40	1.28	1.13	– –
48	32	MLF	8-bit Microcontroller with 4KB ISP Flash, SPI	ATMEGA48V-10MU	SMD 145-5117●	2.40	1.28	1.13	– –
48	32	TQFP	8-BIT MCU with 4K Flash, 20 MHz	ATMEGA48P-20AU	NEW SMD 163-6941●	2.08	1.39	1.14	– –
48	28	DIP	8-BIT MCU with 4K Flash, 20 MHz	ATMEGA48P-20PU	NEW 163-6942●	2.08	1.39	1.14	– –
48	32	TQFP	8-BIT MCU with 4K Flash, 10MHz.	ATMEGA48PV-10AU	NEW SMD 163-6943●	2.08	1.39	1.14	– –
48	28	DIP	8-BIT MCU with 4K Flash, 10MHz.	ATMEGA48PV-10PU	NEW 163-6944●	2.08	1.39	1.14	– –
48	32	TQFP	8-BIT MCU with 4K Flash	ATTINY48-AU	NEW SMD 163-6953●	1.48	0.98	0.80	– –
48	28	DIP	8-BIT MCU with 4K Flash	ATTINY48-PU	NEW 163-6954●	1.48	0.98	0.80	– –
64	64	TQFP	8-Bit CMOS MCU, 64K Flash, 4kbytes RAM, 32 I/O Lines, 16MHz.	ATMEGA64-16AU	SMD 917-1355●	12.46	7.33	6.49	– –
64	64	TQFP	8-Bit CMOS MCU, 64K Flash, 4kbytes RAM, 32 I/O Lines, 8MHz.	ATMEGA64L-8AU	SMD 917-1363●	10.54	5.64	5.00	– –
64	64	TQFP	8-Bit, 64K Flash, 2K EEPROM, CAN Controller	AT90CAN64-16AU	SMD 145-5067●	9.21	5.81	4.96	4.62
64	64	MLF	8-bit Microcontroller with 64KB ISP Flash, 2K EEPROM	ATMEGA64-16MU	SMD 145-5120●	10.02	6.68	5.36	– –
84	14	DIP	8-Bit MCU, 8K ISP Flash, 512bytes RAM, 20MHZ	ATTINY84-20PU	145-5160●	2.17	1.45	1.17	– –
84	14	DIP	8-Bit MCU, 8K ISP Flash, 512bytes RAM, 10MHZ	ATTINY84V-10PU	145-5161●	2.13	1.63	1.39	– –
84	14	SOIC	8bit MCU with 8K Flash, 2.7V-5.5V.	ATTINY84-20SSU	NEW SMD 163-6955●	1.80	1.20	0.98	– –
84	14	SOIC	8bit MCU with 8K Flash, 1.8V-5.5V.	ATTINY84V-10SSU	NEW SMD 163-6956●	1.80	1.20	0.98	– –
85	8	DIP	8-Bit MCU, 4K ISP Flash, 512bytes RAM, SPI, 20MHZ	ATTINY85-20PU	145-5162●	2.01	1.35	1.20	– –
85	8	SOIC	8-Bit MCU, 4K ISP Flash, 512bytes RAM, 20MHZ	ATTINY85-20SU	SMD 145-5164●	2.01	1.31	1.15	– –
85	8	DIP	8-Bit MCU, 8K ISP Flash, 512bytes RAM, 10MHZ	ATTINY85V-10PU	145-5165●	2.01	1.31	1.15	– –
85	8	SOIC	8-Bit MCU, 8K ISP Flash, 512bytes RAM, 10MHZ	ATTINY85V-10SU	SMD 145-5166●	2.01	1.25	1.11	– –
88	32	TQFP	8-Bit CMOS MCU, 8K Flash. 1K bytes RAM, 23 I/O Lines, 20MHz (IND TEMP)	ATMEGA88-20AU	SMD 917-1487●	3.35	1.79	1.59	– –
88	28	DIP	8-Bit CMOS MCU, 8K Flash, 1K bytes RAM, 23 I/O Lines, 20MHz (IND TEMP)	ATMEGA88-20PU	917-1495●	3.44	1.85	1.63	– –
88	32	TQFP	8-Bit CMOS MCU, 8K Flash, 1K bytes RAM, 23 I/O Lines, 10MHz (IND TEMP)	ATMEGA88V-10AU	SMD 917-1509●	3.35	1.79	1.59	– –
88	28	DIP	8-Bit CMOS MCU, 8K Flash, 1K bytes RAM, 23 I/O Lines, 10MHz (IND TEMP)	ATMEGA88V-10PU	917-1517●	3.44	1.85	1.63	– –
88	32	MLF	8-Bit MCU, 8K Flash, 1Kbytes RAM, SPI, 20MHZ	ATMEGA88-20MU	SMD 145-5128●	3.44	1.85	1.63	– –
88	32	MLF	8-Bit MCU, 8K Flash, 1Kbytes RAM. 10MHZ.	ATMEGA88V-10MU	SMD 145-5129●	3.44	1.85	1.63	– –
88	32	TQFP	8bit MCU 8K Flash, 20MHz.	ATMEGA88P-20AU	NEW SMD 163-6946●	2.86	1.91	1.56	– –
88	28	DIP	8bit MCU 8K Flash, 20MHz.	ATMEGA88P-20PU	NEW 163-6948●	2.86	1.91	1.56	– –
88	32	TQFP	8bit MCU 8K Flash, 10MHz.	ATMEGA88PV-10AU	NEW SMD 163-6949●	2.86	1.91	1.56	– –
88	28	DIP	8bit MCU 8K Flash, 10MHz.	ATMEGA88PV-10PU	NEW 163-6950●	2.86	1.91	1.56	– –
90	64	TQFP	8-Bit USB On-The-Go MCU, 128K Flash, 8 Kbytes RAM, 16MHz (IND TEMP)	AT90USB1287-16AU	SMD 128-8322●	13.41	7.97	6.78	– –
128	64	TQFP	8-Bit CMOS MCU, 128K Flash, 4K bytes RAM, 53 I/O Lines, 8MHz (IND TEMP)	ATMEGA128L-8AU	SMD 917-1126●	15.67	9.33	8.26	– –
128	64	TQFP	8-Bit CMOS MCU, 128K Flash, 4K bytes RAM, 53 I/O Lines, 16MHz (IND TEMP)	ATMEGA128-16AU	SMD 917-1118●	15.67	9.33	8.26	– –
128	64	TQFP	8-Bit, 128K Flash, 4K EEPROM, CAN Controller	AT90CAN128-16AU	SMD 145-5065●	14.95	9.41	8.04	7.51
128	64	MLF	8-bit Microcontroller, 128KB ISP Flash, 4K EEPROM.	ATMEGA128-16MU	SMD 145-5093●	12.00	8.72	7.33	– –
128	64	MLF	8-bit Microcontroller, 128KB ISP Flash, 4K EEPROM.	ATMEGA128L-8MU	SMD 145-5095●	12.00	8.72	7.33	– –
162	44	TQFP	8-Bit CMOS MCU, 16K Flash, 1K bytes RAM, 35 I/O Lines, 16MHz (IND TEMP)	ATMEGA162-16AU	SMD 917-1150●	5.72	3.18	2.82	2.40
162	40	DIP	8-Bit CMOS MCU, 16K Flash, 1K bytes RAM, 35 I/O Lines, 16MHz (IND TEMP)	ATMEGA162-16PU	917-1169●	6.03	3.23	2.86	– –
162	44	TQFP	8-Bit CMOS MCU, 16K Flash, 1K bytes RAM, 35 I/O Lines, 8MHz (IND TEMP)	ATMEGA162V-8AU	SMD 917-1177●	5.94	3.18	2.82	– –
162	40	DIP	8-Bit CMOS MCU, 16K Flash, 1K bytes RAM, 35 I/O Lines, 8MHz (IND TEMP)	ATMEGA162V-8PU	917-1185●	6.03	3.23	2.86	– –
162	32	TQFP	8-bit , 16K ISP Flash, 512B SRAM, 512B EEPROM.	AT90USB162-16AU	SMD 145-5073●	3.00	1.99	1.72	1.61
162	32	QFN	8-bit , 16K ISP Flash, 512B SRAM, 512B EEPROM.	AT90USB162-16MU	SMD 145-5074●	3.90	2.92	2.61	2.35
164	44	TQFP	8-Bit CMOS MCU, 16K Flash, 1Kbytes RAM, 32 I/O Lines, 20MHZ	ATMEGA164P-20AU	SMD 145-5098●	4.29	2.70	2.31	– –
164	40	PDIP	8-Bit CMOS MCU, 16K Flash, 1Kbytes RAM, 32 I/O Lines, 20MHZ	ATMEGA164P-20PU	145-5099●	4.29	2.70	2.31	– –

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Atmel AVR Microcontrollers - continued

Pins	Package	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+
164 44	TQFP	8-Bit CMOS MCU, 16K Flash, 1Kbytes RAM, 32 I/O Lines, 10MHZ	ATMEGA164PV-10AU	SMD 145-5100	4.29	2.70	2.31	– –
164 40	PDIP	8-Bit CMOS MCU, 16K Flash, 1Kbytes RAM, 32 I/O Lines, 10MHZ	ATMEGA164PV-10PU	145-5101	4.29	2.70	2.31	– –
165 64	TQFP	8-Bit CMOS MCU, 16K Flash, 1Kbytes RAM, 54 I/O Lines, 16MHZ	ATMEGA165P-16AU	SMD 145-5103	5.12	3.23	2.75	– –
165 64	TQFP	8-Bit CMOS MCU, 16K Flash, 1Kbytes RAM, 54 I/O Lines, 8MHZ	ATMEGA165PV-8AU	SMD 145-5104	5.12	3.23	2.75	– –
168 32	TQFP	8-Bit CMOS MCU, 16K Flash, 1K bytes RAM, 23 I/O Lines, 20MHz (IND TEMP)	ATMEGA168-20AU	SMD 917-1193	3.56	2.24	1.69	– –
168 28	DIP	8-Bit CMOS MCU, 16K Flash, 1K bytes RAM, 23 I/O Lines, 20MHz (IND TEMP)	ATMEGA168-20PU	917-1207	3.66	1.96	1.74	– –
168 32	TQFP	8-Bit CMOS MCU, 16K Flash, 1K bytes RAM, 23 I/O Lines, 10MHz (IND TEMP)	ATMEGA168V-10AU	SMD 917-1215	3.56	2.12	1.69	– –
168 28	DIP	8-Bit CMOS MCU, 16K Flash, 1K bytes RAM, 23 I/O Lines, 10MHz (IND TEMP)	ATMEGA168V-10PU	917-1223	3.66	1.96	1.74	– –
168 32	MLF	8-bit Microcontroller, 16KB ISP Flash, 1024Bytes EEPROM, 20MHz	ATMEGA168-20MU	SMD 145-5105	3.66	1.96	1.74	– –
168 32	MLF	8-bit Microcontroller, 16KB ISP Flash, 1024Bytes EEPROM, 10MHz	ATMEGA168V-10MU	SMD 145-5106	3.66	1.96	1.74	– –
168 32	TQFP	8bit MCU with16K Flash, 20MHz	ATMEGA168P-20AU	NEW SMD 163-6932	3.55	2.38	1.92	– –
168 28	DIP	8bit MCU with16K Flash, 20MHz	ATMEGA168P-20PU	NEW 163-6933	3.55	2.38	1.92	– –
168 32	TQFP	8bit MCU with16K Flash, 10MHz	ATMEGA168PV-10AU	NEW SMD 163-6934	3.55	2.38	1.92	– –
168 28	DIP	8bit MCU with16K Flash, 10MHz	ATMEGA168PV-10PU	NEW 163-6936	3.55	2.38	1.92	– –
169 64	TQFP	8-bit Microcontroller with 16Kbytes ISP Flash	ATMEGA169P-16AU	NEW SMD 167-5975	5.55	3.48	3.15	– –
169 64	TQFP	8bit LCD MCU with 16K Flash	ATMEGA169PV-8AU	NEW SMD 161-7046	5.55	3.48	3.15	– –
261 20	DIP	8-Bit MCU, 2K ISP Flash, 128bytes RAM, 20MHZ	ATTINY261-20PU	145-5146	1.85	1.19	1.02	– –
261 20	SOIC	8-Bit MCU, 2K ISP Flash, 128bytes RAM, 20MHZ	ATTINY261-20SU	SMD 145-5147	1.85	1.19	1.02	– –
261 20	DIP	8-Bit MCU, 2K ISP Flash, 128bytes RAM, 10MHZ	ATTINY261V-10PU	145-5148	1.85	1.19	1.02	– –
261 20	SOIC	8-Bit MCU, 2K ISP Flash, 128bytes RAM, 10MHZ	ATTINY261V-10SU	SMD 145-5149	1.85	1.19	1.02	– –
324 44	TQFP	8-Bit CMOS MCU, 32K Flash, 2Kbytes RAM, 32 I/O Lines, 20MHZ	ATMEGA324P-20AU	SMD 145-5109	5.17	3.38	2.89	– –
324 40	PDIP	8-Bit CMOS MCU, 32K Flash, 2Kbytes RAM, 32 I/O Lines, 20MHZ	ATMEGA324P-20PU	145-5110	5.17	3.38	2.89	– –
324 44	TQFP	8-Bit CMOS MCU, 32K Flash, 2Kbytes RAM, 32 I/O Lines, 10MHZ	ATMEGA324PV-10AU	SMD 145-5111	5.17	3.38	2.89	– –
324 40	PDIP	8-Bit CMOS MCU, 32K Flash, 2Kbytes RAM, 32 I/O Lines, 10MHZ	ATMEGA324PV-10PU	145-5112	5.17	3.38	2.89	– –
325 64	TQFP	8-Bit CMOS MCU, 32K Flash, 2K bytes RAM, 54 I/O Lines, 16MHz (IND TEMP)	ATMEGA325-16AU	SMD 128-8336	6.13	3.28	2.90	– –
325 64	TQFP	8-Bit CMOS MCU, 32K Flash, 2K bytes RAM, 54 I/O Lines, 8MHz (IND TEMP)	ATMEGA325V-8AU	SMD 128-8338	6.13	3.28	2.90	– –
325 64	TQFP	8-BIT MCU with 32K Flash, 4.5V-5.5V	ATMEGA325P-20AU	NEW SMD 163-6939	5.96	3.98	3.24	– –
325 64	TQFP	8-BIT MCU with 32K Flash, 2.7V-5.5V	ATMEGA325PV-10AU	NEW SMD 163-6940	5.96	3.98	3.24	– –
406 48	LQFP	8-bit Microcontroller with 40KB ISP Flash	ATMEGA406-1AAU	SMD 145-5115	5.75	3.07	2.72	– –
461 20	DIP	8-Bit MCU, 4K ISP Flash, 256bytes RAM, 20MHZ	ATTINY461-20PU	145-5155	1.97	1.34	1.07	– –
461 20	SOIC	8-Bit MCU, 4K ISP Flash, 256bytes RAM, 20MHZ	ATTINY461-20SU	SMD 145-5157	1.93	1.37	1.18	– –
461 20	DIP	8-Bit MCU, 4K ISP Flash, 256bytes RAM, 10MHZ	ATTINY461V-10PU	145-5158	1.93	1.37	1.18	– –
461 20	SOIC	8-Bit MCU, 4K ISP Flash, 256bytes RAM, 10MHZ	ATTINY461V-10SU	SMD 145-5159	1.93	1.37	1.18	– –
640 100	TQFP	8-bit Microcontroller with 4KB ISP Flash, 4K EEPROM, 2.7-5.5V	ATMEGA640-16AU	SMD 145-5118	10.52	6.63	5.66	– –
640 100	TQFP	8-bit Microcontroller with 4KB ISP Flash, 4K EEPROM, 1.8-5.5V	ATMEGA640V-8AU	SMD 145-5119	10.52	6.63	5.66	– –
644 44	TQFP	8-Bit CMOS MCU, 64K Flash, 4K bytes RAM, 32 I/O Lines, 20MHz (IND TEMP)	ATMEGA644-20AU	SMD 128-8339	6.91	3.70	3.27	– –
644 40	PDIP	8-Bit CMOS MCU, 64K Flash, 4K bytes RAM, 32 I/O Lines, 20MHz (IND TEMP)	ATMEGA644-20PU	SMD 128-8340	7.01	3.75	3.33	– –
644 44	TQFP	8-Bit CMOS MCU, 64K Flash, 4K bytes RAM, 32 I/O Lines, 10MHz (IND TEMP)	ATMEGA644V-10AU	SMD 128-8341	6.91	3.70	3.27	– –
644 40	PDIP	8-Bit CMOS MCU, 64K Flash, 4K bytes RAM, 32 I/O Lines, 10MHz (IND TEMP)	ATMEGA644V-10PU	SMD 128-8342	7.01	3.75	3.33	– –
644 44	TQFP	8-Bit CMOS MCU, 64K Flash, 4Kbytes RAM, 32 I/O Lines, 20MHZ	ATMEGA644P-20AU	SMD 145-5121	6.91	3.70	3.27	– –
644 40	PDIP	8-Bit CMOS MCU, 64K Flash, 4Kbytes RAM, 32 I/O Lines, 20MHZ	ATMEGA644P-20PU	145-5122	6.91	3.70	3.27	– –
644 44	TQFP	8-Bit CMOS MCU, 64K Flash, 4Kbytes RAM, 32 I/O Lines, 10MHZ	ATMEGA644PV-10AU	SMD 145-5123	6.91	4.36	3.72	– –
644 40	PDIP	8-Bit CMOS MCU, 64K Flash, 4Kbytes RAM, 32 I/O Lines, 10MHZ	ATMEGA644PV-10PU	145-5124	6.91	4.36	3.72	– –
645 64	TQFP	8-Bit CMOS MCU, 64K Flash, 4K bytes RAM, 54 I/O Lines, 16MHz (IND TEMP)	ATMEGA645-16AU	SMD 128-8345	8.03	4.30	3.80	– –
645 64	TQFP	8-Bit CMOS MCU, 64K Flash, 4K bytes RAM, 54 I/O Lines, 8MHz (IND TEMP)	ATMEGA645V-8AU	SMD 128-8346	10.44	5.59	4.95	– –
646 64	QFN	8-bit Microcontroller, 64KB ISP Flash, USB Controller	AT90USB646-16MU	SMD 145-5075	8.06	5.87	5.46	4.69
647 64	TQFP	8-bit Microcontroller, 64KB ISP Flash, USB Controller	AT90USB647-16AU	SMD 145-5076	8.63	5.12	4.36	3.80
647 64	TQFP	8-bit Microcontroller. 64KB ISP Flash, USB Controller	AT90USB647-16AU	SMD 145-5076	8.63	5.12	4.36	3.80
647 64	QFN	8-bit Microcontroller, 64KB ISP Flash, USB Controller	AT90USB647-16MU	SMD 145-5077	8.63	5.12	4.36	3.80
861 20	DIP	8-Bit MCU, 8K ISP Flash, 512bytes RAM, 20MHZ	ATTINY861-20PU	145-5167	2.31	1.85	1.58	– –
861 20	SOIC	8-Bit MCU, 8K ISP Flash, 512bytes RAM, 20MHZ	ATTINY861-20SU	SMD 145-5168	2.31	1.85	1.58	– –
861 20	DIP	8-Bit MCU, 8K ISP Flash, 512bytes RAM, 10MHZ	ATTINY861V-10PU	145-5169	2.31	1.85	1.58	– –
861 20	SOIC	8-Bit MCU, 8K ISP Flash, 512bytes RAM, 10MHZ	ATTINY861V-10SU	SMD 145-5170	2.31	1.85	1.58	– –
1280 100	TQFP	8-bit Microcontroller, 128KB ISP Flash, 4K EEPROM	ATMEGA1280-16AU	SMD 145-5090	12.88	9.34	8.26	– –
1280 100	TQFP	8-bit Microcontroller, 128KB ISP Flash, 4K EEPROM	ATMEGA1280V-8AU	SMD 145-5091	12.88	9.34	8.26	– –
1281 64	TQFP	8-bit Microcontroller, 128KB ISP Flash, 4K EEPROM	ATMEGA1281V-8AU	SMD 145-5094	12.62	9.10	7.55	– –
1281 64	TQFP	8-bit Microcontroller, 128KB ISP Flash, 4K EEPROM	ATMEGA1281-16AU	SMD 145-5092	12.62	9.10	7.55	– –
1286 64	QFN	8-bit MCU with 128K ISP Flash and USB Controller	AT90USB1286-16MU	SMD 145-5070	11.88	7.40	6.29	5.78
1287 64	QFN	8-bit MCU with 128K ISP Flash and OTG USB Controller	AT90USB1287-16MU	SMD 145-5071	12.65	7.97	6.78	6.26
2313 20	DIP	8-Bit CMOS MCU, 2K Flash, 128bytes RAM, 18 I/O Lines, 20MHz	ATTINY2313-20PU	917-1592	2.01	1.08	0.95	– –
2313 20	SOIC	8-Bit CMOS MCU, 2K Flash, 128bytes RAM, 18 I/O Lines, 20MHz	ATTINY2313-20SU	SMD 917-1606	1.92	1.21	0.91	– –
2313 20	DIP	8-Bit CMOS MCU, 2K Flash, 128bytes RAM, 18 I/O Lines, 10MHz	ATTINY2313V-10PU	917-1614	2.01	1.08	0.95	– –
2313 20	SOIC	8-Bit CMOS MCU, 2K Flash, 128bytes RAM, 18 I/O Lines, 10MHz	ATTINY2313V-10SU	SMD 917-1622	1.92	1.24	0.91	– –
2560 100	TQFP	8-Bit CMOS MCU, 256K Flash, 8K bytes RAM, 86 I/O Lines, 16MHz (IND TEMP)	ATMEGA2560-16AU	SMD 128-8330	14.95	8.88	7.55	– –
2560 100	TQFP	8-Bit CMOS MCU, 256K Flash, 8K bytes RAM, 86 I/O Lines, 8MHz (IND TEMP)	ATMEGA2560V-8AU	SMD 128-8331	14.95	8.88	7.55	– –
2561 64	TQFP	8-Bit CMOS MCU, 256K Flash, 8K bytes RAM, 54 I/O Lines, 16MHz (IND TEMP)	ATMEGA2561-16AU	SMD 128-8332	14.18	8.43	7.16	– –
2561 64	TQFP	8-Bit CMOS MCU, 256K Flash, 8K bytes RAM, 54 I/O Lines, 8MHz (IND TEMP)	ATMEGA2561V-8AU	SMD 128-8333	14.18	8.43	7.16	– –
3250 100	TQFP	8-Bit CMOS MCU, 32K Flash, 2K bytes RAM, 69 I/O Lines, 8MHz (IND TEMP)	ATMEGA3250V-8AU	SMD 128-8335	6.29	3.67	3.24	– –
3250 100	TQFP	8-Bit CMOS MCU, 32K Flash, 2K bytes RAM, 69 I/O Lines, 16MHz (IND TEMP)	ATMEGA3250-16AU	SMD 128-8334	6.47	3.45	3.06	– –
3250 100	TQFP	8bit MCU with 32K Flash, 4.5V-5.5V	ATMEGA3250P-20AU	NEW SMD 163-6937	6.29	4.19	3.40	– –
3250 100	TQFP	8bit MCU with 32K Flash, 2.7V-5.5V	ATMEGA3250PV-10AU	NEW SMD 163-6938	6.29	4.19	3.40	– –
6450 100	TQFP	8-Bit CMOS MCU, 64K Flash, 4K bytes RAM, 69 I/O Lines, 16MHz (IND TEMP)	ATMEGA6450-16AU	SMD 128-8343	9.23	4.94	4.38	– –
6450 100	TQFP	8-Bit CMOS MCU, 64K Flash, 4K bytes RAM, 69 I/O Lines, 8MHz (IND TEMP)	ATMEGA6450V-8AU	SMD 128-8344	9.23	4.94	4.38	– –
8515 44	TQFP	8-Bit 8K ISP Flash, 512 bytes RAM, 16MHZ (IND TEMP)	ATMEGA8515-16AU	SMD 917-1398	4.32	2.46	2.18	– –
8515 44	PLCC	8-Bit CMOS MCU, 8K ISP Flash, 35 I/O Lines, 16MHz	ATMEGA8515-16JC	SMD 463-8864▲	4.66	3.54	2.64	– –
8515 40	DIP	8-Bit 8K ISP Flash, 512 bytes RAM, 16MHZ (IND TEMP)	ATMEGA8515-16PU	917-1401	4.70	2.51	2.22	– –
8515 44	PLCC	8-Bit 8K ISP Flash, 512 bytes RAM, 16MHZ (IND TEMP)	ATMEGA8515-16JU	NEW SMD 156-2624	2.98	2.38	2.15	1.98
8515 44	TQFP	8-Bit 8K ISP Flash, 512 bytes RAM, 8MHZ (IND TEMP)	ATMEGA8515L-8AU	SMD 917-1410	4.32	2.46	2.18	– –
8515 40	DIP	8-Bit 8K ISP Flash, 512 bytes RAM, 8MHZ (IND TEMP)	ATMEGA8515L-8PU	917-1428	4.32	2.51	2.22	– –
8515 44	PLCC	8-Bit 8K ISP Flash, 512 bytes RAM, 8MHZ (IND TEMP)	ATMEGA8515L-8JU	NEW SMD 156-2625	2.98	2.38	2.15	1.98
8535 44	TQFP	8-Bit ISP 8K Flash, 512bytes RAM 16MHZ (IND TEMP)	ATMEGA8535-16AU	SMD 917-1436	4.98	2.66	2.36	– –
8535 40	DIP	8-Bit ISP 8K Flash, 512bytes RAM 16MHZ (IND TEMP)	ATMEGA8535-16PU	917-1444	5.08	2.72	2.40	– –
8515 44	PLCC	8-Bit 8K ISP Flash, 512 bytes RAM, 16MHZ (IND TEMP)	ATMEGA8535-16JU	NEW SMD 156-2626	3.10	2.48	2.25	2.06
8535 44	TQFP	8-Bit ISP 8K Flash, 512bytes RAM 8MHZ (IND TEMP)	ATMEGA8535L-8AU	SMD 917-1460	4.98	2.66	2.36	– –
8535 40	DIP	8-Bit ISP 8K Flash, 512bytes RAM 8MHZ (IND TEMP)	ATMEGA8535L-8PU	917-1479	4.74	2.72	2.40	– –
8515 44	PLCC	8-Bit 8K ISP Flash, 512 bytes RAM, 8MHZ (IND TEMP)	ATMEGA8535L-8JU	NEW SMD 156-2627	3.10	2.48	2.25	2.06

RL Re-reeling available

AVR Butterfly Evaluation Kit



The AVR Butterfly evaluation Kit is designed to demonstrate the benefits and key features of the AVR microconrollers. It is a stand alone microprocessor module that can be used in numerous applications without need for an external hardware for reprogramming the AVR Butterfly. It also serves as a development kit for the ATmega169.

Features include:

- ATmega169 MLF package
- 120 segment LCD display
- Joystick, 4 directions with centre push as user input
- Piezo element for sound and 32KHz Xtal for the RTC
- RS-232 level converter for communicating with off board units
- NTC for temperature measurement and LDR for light
- JTAG emulation for debugging
- supported by AVR Studio 4.

339349.342163

Mftrs. List No.	Order Code	Price Each
ATAVRBFLY	**474-5061**	17.81

AVRDRAGON Emulator and Progammer



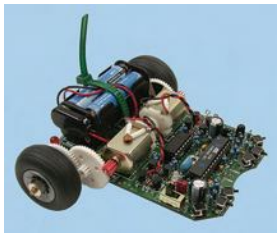
The AVR Dragon is a in-circuit emulator for AVR devices with 32KB or less Flash memory. It also supports programming modes for these and larger AVR devices, including in-system programming, high voltage serial programming, parallel programming and JTAG programming. Front-end software for the AVR Dragon is provided within AVR Studio. Host connection is via a USB interface.

495883

List No.	Description	Order Code	Price Each 1+
ATAVRDRAGON	In-Circuit Emulator and Programmer	**145-5088●**	43.66

Mobile Robot — AREXX

High-tech "ASURO" build it yourself Mobile Robot



ASURO is a small, mobile robot which has been developed for training and teaching purposes that can be programmed as required in C.
Construction is simple for experienced electronic technicians, and can even be carried out by those starting to learn electronics. With the exception of the PCBs, only commercially available components are used, which drive easily obtainable normal fine motors.
Programming is easy, using Freeware tools. ASURO is suitable for those who want to start using processor-controlled circuits, for student projects, for further and higher education courses.

- Driven by two electric motors
- ASURO uses two phototransistors to record the background brightness, and thus determine the direction.
- Six sensor keys help ASURO to identify and circumvent obstructions.
- The infrared transceiver allows a data link to be formed between ASURO and a PC. (requires USB link adaptor - to be ordered separately)

Further Accessories:

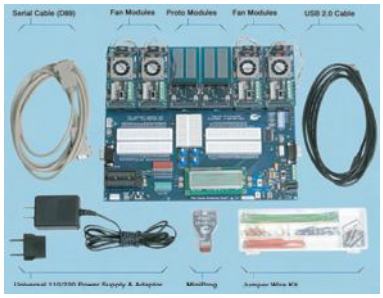
- ASURO Extension boards: contains 2 experimental boards, 1 connector kit for Asuro motherboard, 2 connector kits for experimental boards and one ceramic capacitor

422975

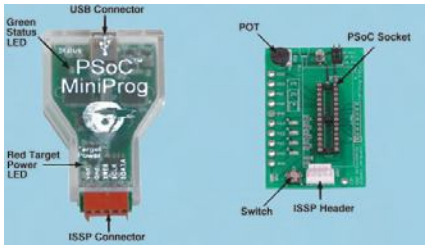
Description	Order Code	Price Each
Robot Kit	**809-2575**	41.47
Accessories		
USB Adaptor	**903-2118**	11.60
Extension PCB	**970-6488●**	4.23

Microcontrollers and Microprocessors - 8-Bit - CYPRESS

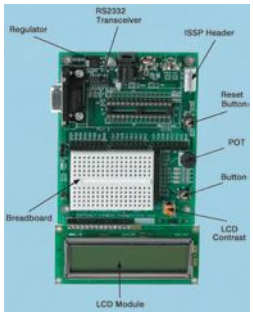
PSoC Development and Evaluation Kits



CY3210-EXPRESSDK



CY3210-MINIPROG1



CY3210-PSOCEVAL1

CY3210-EXPRESSDK

The Express Development Kit provides a feature-rich hardware platform to implement PSoC Express Designs. The kit includes an extensive development board that provides an intuitive platform for implementing PSoC Express Designs ranging from the simple to the complex.

Kit Includes:

- PSoC Express Software CD-ROM
- Express Development Board
- 4 x Fan Modules
- 2 x Proto Modules
- MiniProg In-System Serial Programmer
- MiniEval PCB Evaluation Board
- Jumper Wire Kit
- USB 2.0 Cable
- Serial Cable (DB9)
- 110 ~ 240V Power Supply, Euro-Plug Adapter
- 2 x CY8C24423A-24PXI 28-PDIP Chip Samples
- 2 x CY8C27443-24PXI 28-PDIP Chip Samples
- 2 x CY8C29466-24PXI 28-PDIP Chip Samples

CY3210-MINIPROG1

This evaluation kit allows the user to program PSoC devices via the MiniProg programming unit. The MiniEval PCB is a programming and evaluation board that allows socket programming of DIP devices.

Kit Includes:

- MiniProg Programming Unit
- MiniEval Socket Programming and Evaluation board
- 28 Pin CY8C29466-24PXI PDIP PSoC Device Sample
- PSoC Designer Software CD
- Getting Started Guide
- USB 2.0 Cable

CY3210-PSOCEVAL1

This PSoC Evaluation Kit features an evaluation board and MiniProg programming unit. The MiniProg programming unit will program PSoC devices directly on the evaluation board, or on other boards via a 5-pin header.

Kit Includes:

- Evaluation Board with LCD Module
- MiniProg Programming Unit
- PSoC Designer Software CD
- 28 Pin CY8C29466-24PXI PDIP PSoC Device Sample
- USB 2.0 Cable
- Getting Started Guide

492994

Mftrs List No.	Description	Order Code	Price Each
CY3210-EXPRESSDK	PSOC Express Development Kit	**132-1700●**	344.01
CY3210-MINIPROG1	PSOC Mini Evaluation Kit	**132-1701●**	24.09
CY3210-PSOCEVAL1	PSOC Basic Development Kit	**132-1702●**	44.73

RL Re-reeling available

Microcontrollers and Microprocessors - 8-Bit - CYPRESS - continued

PSoC Mixed Signal Controllers

The PSoC™ family consists of many Mixed-Signal Array with On-Chip Controller devices. These devices are designed to replace multiple traditional MCU-based system components with one, low cost single-chip programmable component. A PSoC device includes configurable blocks of analog and digital logic, as well as programmable interconnect. This architecture allows the user to create customized peripheral configurations, to match the requirements of each individual application. Additionally, a fast CPU, Flash program memory, SRAM data memory, and configurable IO are included in a range of convenient pinouts.

Features:

- Powerful Harvard Architecture Processor
- Advanced Peripherals (PSoC Blocks)
- Flexible On-Chip Memory
- Complete Development Tools
- Precision, Programmable Clocking
- Programmable Pin Configurations
- Additional System Resources

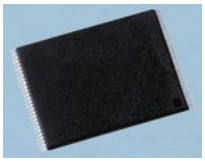
450953

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
8	CYP	20	SSOP	PSoC® Mixed-Signal Array (8K Flash, 512B Ram)	CY8C21334-24PVXI	SMD 132-1731	2.71	1.78	1.38
8	CYP	32	QFN	PSoC® Mixed-Signal Array (8K Flash, 512B Ram)	CY8C21434-24LFXI	SMD 132-1732	2.90	1.90	1.48
8	CYP	28	SSOP	PSoC® Mixed-Signal Array (8K Flash, 512B Ram)	CY8C21534-24PVXI	SMD 132-1733	2.92	1.94	1.43
8	CYP	32	QFN	PSoC® Mixed-Signal Array (8K Flash, 512B Ram)	CY8C21634-24LFXI	SMD 132-1734	2.98	2.13	1.66
8	CYP	20	DIP	PSoC® Mixed-Signal Array (4K Flash, 256B Ram)	CY8C24223A-24PXI	132-1737	3.28	1.67	1.33
8	CYP	20	SOIC	PSoC® Mixed-Signal Array (4K Flash, 256B Ram)	CY8C24223A-24SXI	SMD 132-1740	2.31	1.41	1.12
8	CYP	28	SOIC	PSoC® Mixed-Signal Array (4K Flash, 256B Ram)	CY8C24423A-24SXI	SMD 132-1743	3.43	1.75	1.40
8	CYP	44	TQFP	PSoC® Mixed-Signal Array (16K Flash, 256B Ram)	CY8C27543-24AXI	SMD 132-1744	3.16	2.46	2.40
8	CYP	28	SSOP	PSoC® Mixed-Signal Array (32K Flash, 2Kb Ram)	CY8C29466-24PVXI	SMD 132-1745	6.25	3.64	2.78
8	CYP	48	MLF	PSoC® Mixed-Signal Array (32K Flash, 2Kb Ram)	CY8C29666-24LFXI	SMD 132-1746	8.15	4.17	3.32
21123	CYP	8	SOIC	SM PSoC, 4K Flash, 256B RAM	CY8C21123-24SXI	SMD 126-7169	1.58	0.83	0.64
21223	CYP	16	SOIC	SM PSoC, 4K Flash, 256B RAM	CY8C21223-24SXI	SMD 126-7173	1.85	0.97	0.75
21234	CYP	16	SOIC	PSoC® Mixed-Signal Array (8K Flash, 512B Ram)	CY8C21234-24SXI	SMD 132-1728	2.01	1.41	1.09
21323	CYP	24	MLF	SM PSoC, 4K Flash, 256B RAM	CY8C21323-24LFXI	SMD 126-7174	2.12	1.11	0.86
21323	CYP	20	SSOP	SM PSoC, 4K Flash, 256B RAM	CY8C21323-24PVXI	SMD 126-7175	1.62	1.02	0.75
24123	CYP	8	DIP	SM PSoC, 4K Flash, 256B RAM	CY8C24123A-24PXI	126-7177	2.63	1.34	1.07
24123	CYP	8	SOIC	SM PSoC, 4K Flash, 256B RAM	CY8C24123A-24SXI	SMD 126-7178	2.10	1.22	0.97
24223	CYP	20	SSOP	SM PSoC, 4K Flash, 256B RAM	CY8C24223A-24PVXI	SMD 126-7179	2.39	1.27	1.03
24423	CYP	32	MLF	SM PSoC, 4K Flash, 256B RAM	CY8C24423A-24LFXI	SMD 126-7180	2.88	1.99	1.55
24423	CYP	28	DIP	PSoC, 4K Flash, 256B RAM	CY8C24423A-24PXI	126-7182	3.24	1.74	1.41
24794	CYP	56	QFN	SM PSoC, USB, 16K Flash, 256B RAM	CY8C24794-24LFXI	SMD 126-7183	4.69	3.23	2.48
24894	CYP	56	QFN	SM PSoC, 16K Flash, 256B RAM	CY8C24894-24LFXI	SMD 126-9153	5.94	3.23	2.48
24894	CYP	8	DIP	PSoC, 16K Flash, 256B RAM	CY8C27143-24PXI	126-7184	3.83	2.02	1.62
24994	CYP	68	QFN	SM PSoC, 16K Flash, 1KB RAM	CY8C24994-24LFXI	SMD 147-2492	6.02	3.92	3.01
27143	CYP	20	SSOP	SM PSoC, 16K Flash, 256B RAM	CY8C27243-24PVXI	SMD 126-7185	4.81	2.46	1.96
27243	CYP	20	SOIC	SM PSoC, 16K Flash, 256B RAM	CY8C27243-24SXI	SMD 126-7186	4.81	2.46	1.96
27243	CYP	28	SSOP	SM PSoC, 16K Flash, 256B RAM	CY8C27443-24PVXI	SMD 126-7187	5.06	2.59	2.06
27443	CYP	28	DIP	PSoC, 16K Flash, 256B RAM	CY8C27443-24PXI	126-7189	5.25	2.69	2.14
27443	CYP	28	SOIC	SM PSoC, 16K Flash, 256B RAM	CY8C27443-24SXI	SMD 126-7191	5.06	2.59	2.06
27643	CYP	48	MLF	SM PSoC, 16K Flash, 256B RAM	CY8C27643-24LFXI	SMD 126-7192	6.22	3.18	2.53
27643	CYP	48	SSOP	SM PSoC, 16K Flash, 256B RAM	CY8C27643-24PVXI	SMD 126-7193	5.37	2.74	2.19
27643	CYP	28	DIP	PSoC, 32K Flash, 2KB RAM	CY8C29466-24PXI	126-7194	7.82	4.00	3.19
29466	CYP	28	SOIC	SM PSoC, 32K Flash, 2KB RAM	CY8C29466-24SXI	SMD 126-7195	6.82	3.48	2.78
29466	CYP	44	TQFP	SM PSoC, 32K Flash, 2KB RAM	CY8C29566-24AXI	SMD 126-7196	7.60	3.88	3.10
29566	CYP	48	SSOP	SM PSoC, 32K Flash, 2KB RAM	CY8C29666-24PVXI	SMD 126-7197	5.73	3.06	2.44
29666	CYP	100	TQFP	SM PSoC, 32K Flash, 2KB RAM	CY8C29866-24AXI	SMD 126-7199	8.71	4.45	3.55

450919

	Pins/Package	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
7C64013C	28/PDIP	USB PERIPHERAL, 8K EPROM	CY7C64013C-PXC	126-9116	4.30	2.80	2.25
7C64013C	28/SOIC	8K EPROM USB Peripheral	CY7C64013C-SXC	SMD 126-9117	4.54	3.20	2.38
7C64113C	48/SSOP	8K EPROM USB Peripheral	CY7C64113C-PVXC	SMD 126-9118	4.67	3.06	2.45
7C64713	100/TQFP	8K EPROM USB Peripheral	CY7C64713-100AXC	SMD 126-9119	8.51	4.52	3.47
7C64713	56/QFN	8K EPROM USB Peripheral	CY7C64713-56LFXC	SMD 126-9120	7.71	4.10	3.14
7C65113C	28/SOIC	8K EPROM USB Peripheral	CY7C65113C-SXC	SMD 126-9121	3.24	2.07	1.69
7C65640A	56/QFN	8K EPROM USB Peripheral	CY7C65640A-LFXC	SMD 126-9122	9.55	6.50	4.84
7C66013C	48/SSOP	8K EPROM USB Peripheral	CY7C66013C-PVXC	SMD 126-9123	5.86	3.64	2.88
7C66113C	56/QFN	8K EPROM USB Peripheral	CY7C66113C-LFXC	SMD 126-9125	5.00	3.23	2.62
7C66113C	56/SSOP	8K EPROM USB Peripheral	CY7C66113C-PVXC	SMD 126-9126	3.17	2.61	2.33
7C68013A	100/TQFP	EZ-USB Microcontroller	CY7C68013A-100AXC	SMD 126-9130	14.19	7.48	5.78
7C68013A	128/TQFP	EZ-USB Microcontroller	CY7C68013A-128AXC	SMD 126-9131	15.04	7.89	6.13
7C68013A	56/VFBGA	EZ-USB Microcontroller	CY7C68013A-56BAXC	SMD 126-9132	12.77	8.65	6.87
7C68013A	56/QFN	EZ-USB Microcontroller	CY7C68013A-56LFXC	SMD 126-9133	13.43	7.06	5.47
7C68013A	56/SSOP	EZ-USB Microcontroller	CY7C68013A-56PVXC	SMD 126-9134	12.83	6.79	5.66
7C68014A	100/TQFP	EZ-USB Microcontroller	CY7C68014A-100AXC	SMD 126-9135	12.41	7.18	5.53
7C68014A	128/TQFP	EZ-USB Microcontroller	CY7C68014A-128AXC	SMD 126-9137	11.22	8.25	6.35
7C68014A	56/VFBGA	EZ-USB Microcontroller	CY7C68014A-56BAXC	SMD 126-9138	4.54	– –	– –
7C68014A	56/QFN	EZ-USB Microcontroller	CY7C68014A-56LFXC	SMD 126-9139	11.75	6.75	5.53
7C68014A	56/SSOP	EZ-USB Microcontroller	CY7C68014A-56PVXC	SMD 126-9140	9.52	6.97	5.56
7C68016A	56/QFN	EZ-USB Microcontroller	CY7C68016A-56LFXC	SMD 126-9141	10.51	7.73	6.09

CY7C630/640 8-Bit OTP MIcrocontrollers





The CY7C630/640 is a family of 8-bit RISC One Time Programmable (OTP) microcontrollers with a built-in 1.5-Mbps USB Serial Interface Engine (SIE). They provide low-cost solution for low-speed USB applications such as mouse, gamepads, keyboards, joysticks etc.

387118

	Pins/Package	I/O Pins	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
7C63001	20/DIP	16	CY7C63001A-PXC	891-1550	2.94	1.62	1.45
7C63001	20/SOIC	16	CY7C63001A-SXC	SMD 891-1568	2.26	1.80	1.40
7C63723	18/SOIC	13	CY7C63723-SXC	SMD 891-1584	2.92	2.31	1.77
7C64013	28/SOIC	19	CY7C64013-SXC	SMD 891-1606	4.75	4.01	3.10
7C63413	48/SSOP	32	CY7C63413C-PVXC	SMD 114-1742	3.43	2.34	1.74

RL Re-reeling available

CY8CLED EZ-Colour(TM) HB LED Controller

CY8CLED04/16

- HB LED Controller
- Visual Embedded Design, PSoC Express
- PrISM Modulation Technology
- Advanced Peripherals (PSoC Blocks)
- Complete Development Tools
- Programmable Pin Configurations
- Flexible On-Chip Memory
- CY8CLED04 Full-Speed USB (12 Mbps)
- CY8CLED16 Powerful Harvard Architecture Processor

Cypress' EZ-Color family of devices offers the ideal control solution for High Brightness LED applications requiring intelligent dimming control. EZ-Color devices combine the power and flexibility of PSoC (Programmable System-on-Chip(TM)); with Cypress' PrISM (precise illumination signal modulation) modulation technology providing lighting designers a fully customizable and integrated lighting solution platform.
The EZ-Color family support up to 16 independent LED channels with up to 32 bits of resolution per channel, enabling lighting designers the flexibility to choose the LED array size and color quality. PSoC Express software, with lighting specific drivers, can significantly cut development time and simplify implementation of fixed color points through temperature and LED binning compensation. EZ-Color's virtually limitless analog and digital customization allow for simple integration of features in addition to intelligent lighting, such as CapSense, Battery Charging, Image Stabilization, and Motor Control during the development process.

496744

Mftr.	Pins	Package	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
CYP	68	QFN	16K Flash, 1K SRAM, 4 Channel LED Controller	CY8CLED04-68LFXI	SMD 147-2493●	6.86	4.44	3.43
CYP	48	QFN	16K Flash, 256B RAM, 8 Channel LED Controller	CY8CLED08-48LFXI	SMD 147-2494●	11.67	8.68	6.76
CYP	48	SSOP	16K Flash, 256B RAM, 8 Channel LED Controller	CY8CLED08-48PVXI	SMD 147-2496●	11.67	8.68	6.76
CYP	28	SSOP	32K Flash, 2K RAM, 16 Channel LED Controller	CY8CLED16-28PVXI	SMD 147-2497●	21.22	17.51	13.61
CYP	48	QFN	32K Flash, 2K RAM, 16 Channel LED Controller	CY8CLED16-48LFXI	SMD 147-2498●	21.22	17.51	13.61
CYP	48	SSOP	32K Flash, 2K RAM, 16 Channel LED Controller	CY8CLED16-48PVXI	SMD 147-2499●	21.22	17.51	13.61

CY3261A-RGB EZ-Colour Evaluation Kit



The CY3261A-RGB board is a pre-programmed HB LED colour mix board with seven pre-set colours using the CY8CLED16 EZ-Colour HB LED Controller. The board is accompanied by a CD containing the colour selector software application, PSoC Express(TM) v. 3.0 Beta 2, PSoC Programmer, and a suite of documents, schematics, and firmware examples. The colour selector software application can be installed on a host PC and used to control the EZ-Color HB LED Controller using the included USB cable. The application enables you to select colours via a CIE 1931 chart or by entering coordinates.

496746

Mftrs. List No.	Order Code	Price Each
CY3261A-RGB	147-2490●	100.72

I2C Port Expander Lite Demo Kit CY3242-IOXLite



- I2C Port Expander Demo Board using CY8C9520 PSoC(R) Port Expander Device
- USB Cable from Board to PC
- Kit Documentation and Design Files CD

496779

Mftrs. List No.	Order Code	Price Each
CY3242-IOXLITE	147-2442●	87.18

CY3207ISSP In-System Serial Programmer



The In-System Serial Programming (ISSP) programmer programs PSoC ICs with HEX files created with Cypress' PSoC Designer™ software. The programmer programs a PSoC chip mounted on your PCB, one at a time. It connects to yourPCB with a 5-wire cable and to your PC with a USB cable. Programming operation can be automated by incorporating the programmer into a PC-based test system. The tester software communicates with the programmer-control software through a command line interface. The ISSP programmer can also be operated manually using the supplied Windows ® GUI software.

Kit Contents

- The ISSP Programmer
- ISSP Software CD-ROM
- USB Cable & Programming Cable
- 9-Volt Power Supply

496784

Mftrs. List No.	Order Code	Price Each
CY3207ISSP	147-2430●	207.06

CY3202-C Developer Kits



The PSoC Designer C Compiler compiles each .c source file to a PSoC device assembly file. The PSoC Designer Assembler then translates each assembly file (either those produced by the compiler or those that have been added) into a relocatable object file, .o. After all the files have been translated into object files, the linker combines them together to form an executable file. This .hex file is then downloaded to the emulator where it is debugged to perfect design functionality.

Features

- ANSI C compiler
- Inline assembly and interface with assembly modules
- Modern stack-based architecture
- 7 basic data types, including IEEE 32-bit floating point
- Assembler and linker
- Math and string libraries
- C Interrupt Service Routines
- Librarian

496785

Mftrs. List No.	Order Code	Price Each
CY3202-C	147-2429●	101.81

Microcontrollers and Microprocessors - 8-Bit - FREESCALE
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RS08KA8 Demonstration Board



This demonstration board can be used to demonstrate, debug and evaluate the RS08KA8 microcontroller. The board's built-in circuitry and USB programmer interface will reduce hardware interface development time and also allow faster code evaluation.

Features Include:

- MC9RS08KA8 microcontroller
- Built-in USB-to-BDM
- An RS-232 transceiver
- A provision for a low-frequency crystal
- 12 V DC input connector
- USB connector
- 3 Push Switches; 2 User, 1 Reset
- 3 LED Indicators; 2 User, 1 VDD
- 1 Potentiometer
- 1 Photocell; Jumper Selector

525938

Mftrs. List No.	Description	Order Code	Price Each
DEMO9RS08KA8	Demonstration Board for RS08KA8	162-2669●	31.26

RL Re-reeling available

Microcontrollers and Microprocessors - 8-Bit - FREESCALE - continued

DEMO9RS08KA2 Development Board



The cost effective KA2's demoboard supports the RS08 architecture. Simply connect, load and evaluate. The DEMO9RS08KA2 board's built-in circuitry and USB programmer interface included reduces hardware interface development time and allows faster code evaluation. It supports the MCRS08KA2 microcontroller, a general-purpose 8-bit device for the ultra low-end market.

Features
- 8pin Dip RS08KA2 microcontroller
- GPIO header connector 4x2 pin
- Built in USB BDM interface
- 4 LED circuitry connections: 3user, 1 VDD
- 2 Push Switches circuitry: 1user, 1 Reset
- BDM header connector

Kit Contents
- DEMO9RS08KA2 Board
- CodeWarriorTM Development Studio and Service pack CDs
- USB Cable, Quick Start Guide, User Manual, Packing List
- 3 additional samples of 8-pin PDIP 9RS08KA2 microcontroller

445965

Mftrs. List No.	Order Code	Price Each
DEMO9RS08KA2	**126-3711●**	41.81

Freescale DEMO9RS08KA2 Development Board with three DIP and SOIC Microcontrollers



The cost effective KA2's demoboard supports the RS08 architecture. The DEMO9RS08KA2 board's built-in circuitry and included USB programmer interface reduces hardware interface development time and allows faster code evaluation. It supports the MCRS08KA2 microcontroller, a general-purpose 8-bit device for the ultra low-end market.
This value pack includes three 8-pin DIP & SOIC microcontrollers. Simply connect, load and evaluate!

498733

Mftrs. List No.	Order Code	Price Each
RS08KA2 PROMO	**152-6551●**	33.56

USB mini board for Low-End 8-bit Microcontrollers



To aid fast and easy development for embedded systems engineers working on our low-end microcontrollers, Freescale has developed the low-cost, high-performance USB debug tool - the USBSPYDER08.
With the USBSPYDER08 you can, SPY into your application software, DEBUG 8 leg 8-bit microcontrollers before you have your application board, KILL bugs in your application software. This complete package delivers a low cost, yet powerful way to develop your products and speed time to market.

Features:

Small
- Targeted for small 8pin 8bit microcontrollers
- Dimensions: 25mm x 15mm x 75 mm

Simple
Basic Hardware interfaces included:
- USB to BDM built-in circuitry - Allows communication between Host PC and target microcontroller
- 8-pin socket for the 8-bit device - Supports QG, QD and KA 8-pin microcontrollers
- Header connector - Allows easy access to MCU GPIOs
- BDM header connector - Allows the use of the USBSPYDER kit as a BDM interface to program or debug external QG, QD or KA devices

Complete
- Development environment completed with CodeWarrior Software package and Supporting Information

478309

List No.	Order Code	Price Each 1+
USBSPYDER08	**132-4337●**	23.58

Flexis™ MC9S08AC128 Demonstration Board



This demonstration kit provides a platform for supporting the demonstration and evaluation of the Flexis™ MC9S08AC128 microcontroller.
The target microcontroller mounts on a plug-in module to allow the quick changing of the target MCUs. Application development is quick and easy with the board's integrated USB-BDM, sample software tools, BDM_PORT port and examples.

Features Include:
- Integrated, USB BDM
- Power Input Select Option Header
- On-board 5V regulator
- Power from USB BDM
- Optional Power Sourced to Connector J1
- 4MHz XTAL Oscillator
- 3-axis accelerometer
- LEDs - 4 User, 1 Power, 1 Reset
- Push button switches - 4 user, 1 Reset
- 5K ohm POT
- Jumpers
- MCU PORT

525958

Mftrs. List No.	Description	Order Code	Price Each
DEMOS08AC128KIT	Flexis™ MC9S08AC128 Demonstration Board . . .	**162-2672●**	61.88

DEMO9S08AC60E: Demo Board for S08AC



The DEMO9S08AC60 is a demonstration board for the S08AC microcontroller family. Development of application code is quick and easy with the integrated USB-to-BDM interface, CodeWarrior™ Development Studio, and software examples. A 40-pin connector allows connecting the DEMO9S08AC60 board to an expanded evaluation environment simple and easy. Other features like the 10 LED, 8 DIP switches, Freescale XYZ-axis low g acceleration sensor, and ZIF socket set makes it an ideal design platform for the S08AC microcontrollers.

Features
- MC9S08AC60 MCU
- Socketed 64 pin QFP package
- Power and communication through the integrated USB-BDM cable
- External power jack for optional DC power supply (+7 to +12 VDC)
- 40 Pin expansion connector
- Four push-button user switches
- Ten LED light bar with 8 connected to I/O port (2 user assignable)
- Eight port rocker switch connected to I/O port
- All I/O pins can be disconnected from demo board for alternate use
- Master reset switch
- Freescale MMA6260Q Accelerometer
- On-board visible light sensor
- Potentiometer connected to the ADC
- On-board RS-232 serial port
- 4.5" x 3.5" board size

506972

Mftrs. List No.		Order Code	Price Each
DEMO9S08AC60E	Demo Board for S08AC	**157-2057●**	64.51

DEMO9S08AW60E Demonstration Board



The DEMO9S08AW60E is a demonstration board for the MC9S08AW60 microcontroller. The integrated USB-to-BDM interface, CodeWarrior™ Development Studio, and software examples all aid the development of application code.

Kit Contents
- DEMO9S08AW60E Board
- CodeWarriorTM Development Studio CD with Service Pack CD
- Quick Start Guide and User Manual
- Resource CD

Features
- MC9S08AW60 microcontroller in socketed 64 pin LQFP package
- Power and communication through the integrated USB-BDM cable
- External power jack for optptional DC power supply (+7 to +12 VDC)
- 40 Pin expansion connector
- Four push-button user switches
- Ten LED light bar with 8 connected to I/O port (2 user assignable)
- Eight port rocker switch connected to I/O port
- Freescale MMA6260Q Accelerometer
- On-board visible light sensor
- Potentiometer connected to the ADC
- On-board RS-232 serial port

450734

Mftrs. List No.	Order Code	Price Each
DEMO9S08AW60E	**119-1217**	81.58

RL Re-reeling available

Farnell

S08D Family Demonstration Board



New

The DEMO9S08DZ60 is a demonstration board for the MC9S08DZ60 microcontroller. Application development is quick and easy with the integrated USB-BDM, sample software tools, and examples. An optional BDM_PORT port is also provided to allow use of a BDM_PORT cable. Two, 40-pin connectors provide access to all IO signals on the target MCU.

527758

Mftrs. List No	Description	Order Code	Price Each
DEMO9S08DZ60	S08D Family Demonstration board	157-9746●	59.20

EVB9S08DZ60 Evaluation Board



New

This evaluation board can be used to debug and evaluate the MC9S08DZ60 microcontroller. A user can program and debug advance application code using the board's expanded I/O functions, peripherals and large prototype area. The kit can be used as a standalone application, or via its built-in USB-to-BDM interface.

Features Include:
- Clock module
- BDM connector
- Four header connections with all MCU signals
- 12 V DC connector
- Two banana input connectors
- Built-in USB to BDM Interface
- Reset push-button
- Two potentiometers
- CAN section
- LIN section
- RS-232 section
- Serial settings section
- Prototype area

525944

Mftrs. List No.	Description	Order Code	Price Each
EVB9S08DZ60	Evaluation Board for MC9S08DZ60	162-2674●	178.12

MC9S08GB60 Evaluation Board (EVB)



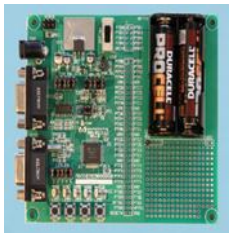
Features:
- Evaluation board with a 60K Flash MC9S08GB60 MCU
- LCD display
- Dual DB9 RS232 serial ports
- Modify or develop new demo code for the GB60 using free CodeWarrior™ Development Suite for HCS08
- Program and debug code using free CodeWarrior Development Studio for HC08
- Universal power supply

The GB60 evaluation kit contains everything a designer needs to develop and evaluate MC9S08GB or GT Family applications.

464689

Mftrs. List No	Order Code	Price Each
M68EVB908GB60E	133-6832●	220.23

M68DEMO908GB60 Demonstration Board



New

The GB60 demonstration kit contains everything a designer needs to develop and evaluate MC9S08GB or GT Family applications. It is available complete with Metrowerks CodeWarrior™ Development Studio Special Edition for HCS08 to modify demo code or develop new code. The evaluation board allows for real-time source-level debugging of your code and programming of the device's Flash memory; all with no additional hardware.

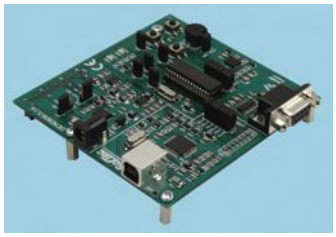
527753

Mftrs. List No	Description	Order Code	Price Each
M68DEMO908GB60E	GB60 Demonstration Kit	157-9767●	37.19

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DEMO908JL16E Demonstration Board



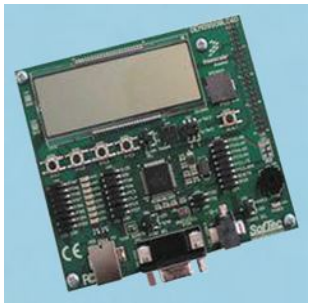
New

The DEMO908JL16 Demonstration board has been designed for the evaluation,demonstration and the debugging of the Freescale MC68HC908JL16 microcontroller.The DEMO908JL16 can be used as a standalone application, or via its built-in USB-to-MON08bridge, or together the Freescale Student Learning Kit (Freescale code: MCUSLK) through anexternal 28-pin I/O Header female connector.

527757

Mftrs. List No	Description	Order Code	Price Each
DEMO908JL16E	908JL16 Demonstration Board	157-9744●	37.95

MC9S08LC60 Demonstration Board



The DEMO9S08LC60 demonstration kit contains everything a designer needs to develop and evaluate application code. The integrated USB multilink allows the user to communicate with the board and target device with only a USB cable.

Main Board Component Features:
- MC9S08LC60 in 80 pin LQFP package
- 32.768 Crystal
- Built in BDM
- RS-232
- Power via USB or 12V DC input

Integrated Inputs:
- 4 buttons
- Potentiometer
- NTC-Based Temperature Sensor
- Photocell
- Accelerometer - Freescale MMA7260Q
- Board integrated Outputs:
- 8 high efficiency LEDs
- Piezoelectric Speaker
- Custom 3V LCD

Kit Contains:
- DEMO9S08LC60 Board
- CodeWarriorTM Development Studio CD
- CodeWarriorTM Service pack CD
- USB Cable
- Quick Start Guide
- User Manual
- Packing List

493277

Description	Mftrs. List No.	Order Code	Price Each
MC9S08LC60 Demonstration Board	DEMO9S08LC60	133-6808●	71.97

S08SH Family Demonstration Boards



New

The DEMO9S08SH32 and DEMO9S08SH8 demonstration boards can be used to exhibit and develop features of the MC9S08SH32 and the MC9S08SH8 microcontrollers, respectivily. Application development is quick and easy with the board's integrated USB-BDM, sample software tools, BDM_PORT port and examples.

Features Include:
- Integrated P&E USB-BDM
- On-board +5V regulator
- Optional power from USB-BDM or MCU_PORT connector
- Power Input Selection Jumpers
- User Components Provided
- Jumpers
- MCU I/O Connector
- Barrel Connector
- USB Connector
- DB9 Connector

525945

Mftrs. List No.	Description	Order Code	Price Each
DEMO9S08SH32	Demonstration Board for MC9S08SH32	162-2670●	43.12
DEMO9S08SH8	Demonstration Board for MC9S08SH8	162-2671●	36.87

DEMO9S08QD4 Demonstration Board



Features
- Socketed MC9S08QD4 MCU in 8 PDIP Package
- 4K Bytes Flash/256 Bytes RAM
- 4KBI Inputs
- 4 GPIO, 1 input only, 1 output only
- 1-Ch, 16-bit, Timer/Pulse Width Modulator
- 2-Ch, 16-bit, Timer/Pulse Width Modulator
- 4-Ch, 10-bit Analog to Digital Converter
- BDM_PORT header for BMD casble support (not installed)
- +5V or +3.3V Operation

RL Re-reeling available

Microcontrollers and Microprocessors - 8-Bit - FREESCALE - continued

DEMO9S08QD4 Demonstration Board - continued

The DEMO9S08QD4 is a demonstration board for the MC9S08QD4 8-bit microcontroller. Application development is quick and easy with the integrated programmer/debugger tools (USB-BDM) and software (CodeWarrior) included. A 32-Pin connector allows connecting the DEMO9S08QD4 board to an expanded evaluation environment.

450744

Mftrs. List No.	Order Code	Price Each
DEMO9S08QD4	129-7293●	32.14

DEMOQE8: QE8 Demonstration board



DEMO9S08QE8 is a cost-effective board targeting quick micro-controller evaluation.

New

In combination, they can be used to highlight the key features on the MC9S08QE8 device. The board also includes a power terminal to measure the ultra-low power consumption of the MC9S08QE8 device.

Base board features
- 3-axis Accelerometer w/ Enable
- 8 LEDS w/ enable
- 4 User Push Buttons w/ Enable
- 1 Piezzo Buzzer w/ Enable
- 1 RS-232 Serial Port w/ DB9-F Connector
- 10K Ohm POT w/ Enable
- ON/OFF Power Switch w/ LED indicator
- RESET Push Button and LED indicator w/ Enable
- Power options:

- 5VDC to 12VDC Power Jack (2.5/5.5mm barrel connector)
- USB Cable: 5VDC, 500mA max
- 2 AAA Battery Cells Selectable (regulated VDD Output at 3.0V or 2.1V)
- P&E micro Embedded Multilink USB Connector

- USB to SCI communication interface eliminates need for serial COM port on PC
- Two channel logic analyzer allows observation of MCU signals

Kit Contents
- DEMOQE Base Board with a MC9S08QE8 Daughter Card installed
- 2-cell AAA battery package
- USB Cable
- Quick Start Guide

DC9S08QE8 Daughter Card features
- An MC9S08QE8CLC chip
- Four 8x2 female connectors to mate with DEMOQE8 base board, also compatible with the DEMOQE128 kit.

504694

Mftrs. List No.		Order Code	Price Each
DEMO9S08QE8	DEMO9S08QE8 kit	156-1699●	49.87
DC9S08QE8	DC9S08QE8 Daughter Card	156-1700●	7.22

EVBQE128 Evaluation Board



The EVBQE128 Evaluation Board has been designed for the evaluation, demonstration and debugging of the Freescale Flexis QE128 Microcontrollers (MC9S08QE128 and MCF51QE128). The EVBQE128 can be used as a standalone application or can be controlled by a host PC via its built-in microDART™ interface.

Features
- Crystal Oscillator
- DBM Connector for in-circuit Debugging/Programming with an External Instrument
- 12VDC Barrel Input Connector (2.1mm)
- Jumper to Select Power Supply Source (USB or Barrel Connector)
- Power On/Off Switch
- One Potentiometer
- Reset & Four Additional Push Buttons
- Eight DIP-Switches
- Light & Temperature Sensors
- Ten User LEDs
- RS232 Section Containing Jumpers for Communication Options

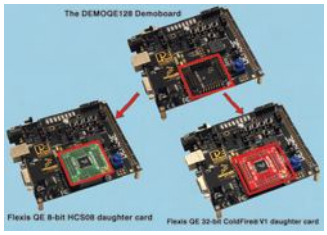
Kit Contents
- The EVBQE128 Evaluation Board
- 80-Pin LQFP MC9S08QE128 & MCF51QE128 Microcontrollers
- Pick-Up Vacuum Pump
- Universal 12VDC Power Supply
- USB Cable
- System Software DVD, Including CodeWarrior™ Development Studio
- Quick-Start Guide

Supported Devices:
- MC9S08QE128
- MCF51QE128
- Any Other Pin-to-Pin Compatible Devices

479364

Mftrs. List No.	Order Code	Price Each
EVBQE128	143-0733●	220.18

DEMOQE128 Demonstration Board



The DEMOQE128 is a low cost development system designed for demonstrating, evaluating and debugging the Freescale MC9S08QE128 and MCF51QE128 microcontrollers. P&E's Embedded Multilink circuitry on the DEMOQE128 board allows the processor on the DEMOQE128 to be debugged and programmed via USB from the PC. In addition, the demo board can be powered using the USB bus.

The DEMOQE128 supports the MC9S08QE128CLH, MCF51QE128CLH devices.

Features
- On-Board Logic Analyser
- On-Board Virtual Serial Port
- RS-232 Serial Port w/ DB9-F Connector
- On/Off Power Switch w/ LED Indicator
- 5VDC to 12VDC Power Supply Input Barrel Connector
- Power Input Selection Jumpers for Selecting Input Voltage Source

Kit Contents
- DEMOQE Base Board with a MC9S08QE 128 Daughter Card Installed
- MCF51QE128 Daughter Card
- Breaking Bit Boundaries DVD - Getting Started with QE128
- 2-Cell AAA Battery Package
- USB Cable
- Quick-Start Guide

479346

Mftrs. List No.	Order Code	Price Each
DEMOQE128	143-0732●	56.05

DEMO9S08QG8E Demonstration Board



The DEMO9S08QG8 is a demonstration board for the MC9S08QG8 microcontroller. Development of application code is quick and easy with the integrated USB-to-BDM interface, CodeWarrior™ Development Studio, and software examples. A 32-pin connector allows connecting the DEMO9S08QG8 board to an expanded evaluation environment.

Features
- Socketed MC9S08QG8 CPU in 16-pin DIP Package
- 8K Byte Flash/512 Bytes RAM
- 12 CPU GPIO, 1 Input Only, 1 Output only
- 2-Ch, 16-bit, Timer Interface
- 8-Ch, 10-bit Analog to Digital Converter (ATD)
- Analog Comparator w/ internal compare
- RS-232 Serial Port w/ DB9 Connector
- Power Input Selection Jumper
- 3 Push Switches; 2 User, 1 Reset
- 3 LED Indicators; 2 User, 1 VDD

Kit Contents
- DEMO9S08QG8 Board
- CodeWarriorTM Development Studio CD with Service Pack
- Quick Start Guide and User Manual
- Resource CD

450779

Mftrs. List No.	Order Code	Price Each
DEMO9S08QG8E	110-6182●	47.99

908QT Evaluation Board



The kit contains the following components:
- MC68HC908QT4 Microcontroller
- MON08 Debugging Interface
- Push-button and analogue input and LED output
- Space for optional 9.8MHz external crystal, LEDs, etc
- CodeWarrior Development Studio for HC08 Special Edition
- Example software and "Get Started" Instructions

Requires a 9V Battery and 9-pin RS232 serial cable (not supplied)

The 908QT Evaluation Board contains everything needed to begin code development with Freescale's newest and lowest cost Flash MCU derivatives. It is supplied complete with CodeWarrior Development Suite for HC08 Special Edition from Metrowerks and allows code to be developed in assembler or "C", real-time source-level debugging of your code and programming of the device's Flash memory. The CodeWarrior software also allows the internal RC oscillator on the 908QT and 908QY devices to be automatically trimmed while Flash programming.

239821

Mftrs. List No.	Order Code	Price Each
M68DEMO908QT4	415-4320	26.60

HC05 8-bit Microcontroller Family

These devices are part of Freescale's MC68HC05 family of single chip 8-bit microcontrollers and are based on the 68HC05 Central Processor Unit (CPU05).

Features Include:
- 16-Bit Timer Subsystem
- 15-Bit Multi-Function Timer
- Serial Peripheral Interface (SPI)
- Serial I/O Port
- Serial Communications Interface (SCI)
- Analog-to-Digital Converter
- On-Chip Oscillator

524660

Mftrs. List No.	Pkg	Pins	Flash (Byte)	RAM (Byte)	EPROM/ OTP	ADC Channels / Bits	Timer Channels	Interface Type	I/O Pins	Bus Freq (MHz)	USB/CAN	Addtional Features	Order Code	Price Each 1+	10+	100+
MC68HC705J1ACPE	DIP	20	—	64	1.2KB	—	1	—	14	1, 2.1	No/No	—	120-0547●	2.71	2.30	2.05
MC705P6ACPE	DIP	28	—	176	4.5KB	4 / 8	1	SIOP	21	1, 2.1	No/No	—	120-0548●	5.41	3.80	3.16
MC705C8ACPE	DIP	40	—	176	8KB	—	1	SCI, SPI	31	1, 2.1	No/No	—	120-0545●	6.62	5.68	5.10
MC705C9ACPE	PDIP	40	—	352	16KB	—	1	SCI, SPI	31	1, 2.1	No/No	—	NEW 145-7128●	8.80	8.36	7.53
MC68HC705C8ACFNE	PLCC	44	—	176	8KB	—	1	SCI, SPI	31	1, 2.1	No/No	—	SMD 120-0544●	7.41	6.42	5.65
MC68HC705C9ACFNE	PLCC	44	—	352	16KB	—	1	SCI, SPI	31	1, 2.1	No/No	—	NEW SMD 145-7132●	8.80	8.36	7.53

HC11 8-bit Microcontroller Family

These devices are part of Freescale's MC68HC11 family of 8-bit microcontrollers and are based on the 68HC11 Central Processor Unit (CPU11). The MC68HC11 is a family of microcontrollers which retain a high performance level at a low power.

Features Include:
- EEPROM Memory
- Expanded Bus Memory Interfaces
- Serial Peripheral Interface (SPI)
- Serial Communications Interface (SCI)
- Low-Power Operation
- High Performance Timer
- Additional 68HC11 timer features
- Analog-to-Digital Converter (ADC)
- Pulse-Width Modulation

524660

Mftrs. List No.	Pkg	Pins	Flash (Byte)	RAM (Byte)	EEPROM (Byte)	ADC Channels / Bits	Timer Channels	Interface Type	I/O Pins	Freq (MHz)	USB/CAN	Addtional Features	Order Code	Price Each 1+	10+	100+
MC68HC711D3CFNE2	PLCC	44	—	192	—	—	1	SCI, SPI	32	2	No/No	—	SMD 120-0551●	9.76	6.96	5.98
MC68HC11A1CFNE3	PLCC	52	—	256	512	8 / 8	1	SCI, SPI	38	3	No/No	—	NEW SMD 160-7931●	14.71	9.33	7.32
MC68HC11E1CFNE2	PLCC	52	—	512	512	8 / 8	8	SCI, SPI	38	4	No/No	—	NEW SMD 145-7130●	8.67	8.24	7.42
MC68HC11E1CFNE3	PLCC	52	—	512	512	8 / 8	8	SCI, SPI	38	4	No/No	—	NEW SMD 145-7131●	9.10	8.64	7.79
MC68HC711E9CFNE2	PLCC	52	—	512	512	8 / 8	1	SCI, SPI	38	4	No/No	—	SMD 120-0546●	17.01	14.59	13.09
MC68HC11E9BCFNE2	PLCC	52	—	512	512	8 / 8	1	SCI, SPI	38	4	No/No	—	NEW SMD 160-7932●	12.39	7.84	6.17
MCHC11F1CFNE4	PLCC	68	—	1024	512	8 / 8	8	SCI, SPI	30	4	No/No	—	NEW SMD 145-7129●	10.49	9.97	8.97

HC08 8-bit Microcontroller Family

These devices are part of Freescale's M68HC08 family of 8-bit microcontrollers and are based on the enhanced M68HC08 Central Processor Unit (CPU08). The family ranges from basic bare-bone controllers to feature-rich MCUs, all of which can flaunt an impressive array of peripherals.

Features Include:
- Byte Erasable EEPROM Memory
- Expanded Bus Memory Interfaces
- Serial Peripheral Interface (SPI)
- SCI, ESCI, SLIC
- 8 or 10-bit Analog to Digital Converters (ADC)
- Support for CANs and LINs
- Multichannel timers
- Industry-leading in-circuit reprogrammable FLASH
- Application specific devices for LIN, motor control, and RF

524684

Mftrs. List No.	Pkg	Pins	Flash (KB)	RAM (Byte)	EEPROM (Byte)	ADC Channels/Bits	Timers	Interface Type	I/O Pins	Bus Freq (MHz)	USB/CAN	Addtional Features	Order Code	Price Each 1+	10+	100+
AB Series																
MC908AB32CFUE	QFP	64	32	1024	512	8/8	2	SCI, SPI	51	8	Yes/No	COP,KBI,LVI,POR,LVD	SMD 114-8409●	6.82	5.68	4.55
AP Series																
MC908AP16CFBE	QFP	44	16	1024	—	8/10	2	I2C, IRSCI, SCI, SPI	32	8	Yes/No	LVD,Real-Time Clk,Watchdog OSC/Timer	SMD 114-8411●	2.89	2.41	1.93
MC908AP32CFBE	QFP	44	32	2048	—	8/10	2	I2C, IRSCI, SCI, SPI	30	8	Yes/No	LVD,Real-Time Clk,Watchdog OSC/Timer	SMD 114-8414●	5.40	4.50	3.62
MC908AP8CFAE	LQFP	48	8	1024	—	8/10	2	I2C, IRSCI, SCI, SPI	30	8	Yes/No	LVD,Real-Time Clk,Watchdog OSC/Timer	SMD 114-8415●	3.86	3.23	2.58
MC908AP16CFAE	LQFP	48	16	1024	—	8/10	2	I2C, IRSCI, SCI, SPI	32	8	Yes/No	LVD,Real-Time Clk,Watchdog OSC/Timer	SMD 114-8410●	4.26	3.54	2.84
MC908AP32CFAE	LQFP	48	32	2048	—	8/10	2	I2C, IRSCI, SCI, SPI	32	8	Yes/No	LVD,Real-Time Clk,Watchdog OSC/Timer	114-8413●	2.12	– –	– –
AS/AZ Series																
MC908AS60ACFNE	PLCC	52	60	2048	1024	15/8	1	SCI, SPI	42	8	Yes/No	COP,KBI,LVI,POR,LVD	SMD 114-8418●	11.52	8.88	7.75
MC908AZ32ACFUE	QPF	64	32	1024	512	15/8	2	CAN, SCI, SPI	50	8	Yes/Yes	COP,KBI,LVI,POR,LVD	SMD 114-8419●	4.62	3.86	3.09
MC908AZ60ACFUE	QFP	64	60	2048	1024	15/8	1	SCI, SPI	52	8	Yes/Yes	COP,KBI,LVI,POR	SMD 114-8420●	11.52	8.88	7.75
MC908AZ60AMFUE	QFP	64	64	2048	1024	15/8	3	SCI, SPI	50	8	Yes/Yes	COP,KBI,LVI,POR	SMD 129-6209●	12.66	11.80	10.99
BD Series																
MC908BD48IBE	DIP	42	48	1024	1024	6/8	1	I2C, USB	32	6	Yes/No	LVD,Watchdog OSC/Timer	114-8421●	4.86	3.76	3.27
G Series																
MC908GT16CFBE	QFP	44	16	512	—	8/8	2	I2C, IRSCI, SPI	36	8	Yes/No	Int Clk Gen,LVD,Real-Time Clk,Watchdog OSC/Timer	NEW SMD 152-8325●	293.36	285.64	278.32
MC908GP32CBE	DIP	42	32	256	—	8/8	1	I2C, IRSCI, SPI	33	8	Yes/No	LVD,Int Clk Gen,Real-Time Clk,Watchdog OSC/Timer	120-0520●	11.41	9.50	8.77
MC908GP32CFBE	QFP	44	32	256	—	8/8	1	I2C, IRSCI, SPI	33	8	Yes/No	LVD,Int Clk Gen,Real-Time Clk,Watchdog OSC/Timer	SMD 120-0521●	11.27	9.38	8.65
MC908GP32CPE	DIP	40	32	256	—	8/8	1	I2C, IRSCI, SPI	33	8	Yes/No	LVD,Int Clk Gen,Real-Time Clk,Watchdog OSC/Timer	120-0519●	7.44	6.61	6.27
MC908GR4CDWE	SOIC	28	4	384	—	4/8	1	SCI, SPI	17	8	Yes/No	COP,KBI,LVI,POR,LVD	SMD 114-8422●	2.96	2.28	1.99
MC908GR8CDWE	SOIC	28	8	384	—	6/8	1	SCI, SPI	21	8	Yes/No	COP,KBI,LVI,POR,LVD	SMD 114-8423●	3.79	3.16	2.55
MC908GR8CPE	DIP	28	8	384	—	6/8	1	SCI, SPI	21	8	Yes/No	COP,KBI,LVI,POR,LVD	114-8425●	4.35	3.36	2.91
MCHC908GR8CFAE	LQFP	32	8	384	—	6/8	2	SCI, SPI	21	8	Yes/No	COP,KBI,LVI,POR,LVD	SMD 114-8488●	3.79	3.16	2.53
MC908GT16CBE	DIP	42	16	512	—	8/8	2	I2C, IRSCI, SPI	36	8	Yes/No	Int Clk Gen,LVD,Real-Time Clk,Watchdog OSC/Timer	114-8426●	5.13	4.29	3.63
MC908GT16CFBE	QFP	44	16	512	—	8/8	2	I2C, IRSCI, SPI	36	8	Yes/No	Int Clk Gen,LVD,Real-Time Clk,Watchdog OSC/Timer	SMD 114-8427●	4.28	3.31	2.89
MC908GT8CBE	DIP	42	8	512	—	8/8	2	I2C, IRSCI, SPI	36	8	Yes/No	Int Clk Gen,LVD,Real-Time Clk,Watchdog OSC/Timer	114-8428●	4.61	3.55	3.10
MC908GT8CFBE	QFP	44	8	512	—	8/8	2	I2C, IRSCI, SPI	36	8	Yes/No	Int Clk Gen,LVD,Real-Time Clk,Watchdog OSC/Timer	SMD 114-8429●	4.61	3.55	3.10
MC68908GR16CFJE	LQFP	32	16	1024	—	8/10	2	SCI, SPI	21	8	Yes/No	COP,KBI,LVI,POR,LVD	NEW SMD 157-9675●	6.65	4.02	3.66
MC908GR16CFAE	LQFP	48	16	1024	—	8/10	2	SCI, SPI	37	8	Yes/No	COP,KBI,LVI,POR,LVD	NEW SMD 157-9681●	5.45	4.21	3.67
MC908GR60ACFAE	LQFP	48	60	2048	—	24/10	2	SCI, SPI	37	8	Yes/No	COP,KBI,LVI,POR,LVD	NEW SMD 157-9682●	8.65	6.32	4.76
MC908GR16ACFJE	LQFP	32	16	1024	—	8/10	2	SCI, SPI	21	8	Yes/No	COP,KBI,LVI,POR,LVD	NEW SMD 157-9698●	5.45	4.21	3.67
GZ Series																
MC68908GZ8CFAE	LQFP	48	8	1024	—	8/10	2	CAN, SCI, SPI	37	8	Yes/Yes	COP,KBI,LVI,POR,LVD,Real-Time Clk	SMD 114-8397●	3.78	3.15	2.53
MC68908GZ8CFJE	LQFP	32	8	1024	—	8/10	2	CAN, SCI, SPI	21	8	Yes/Yes	COP,KBI,LVI,POR,LVD,Real-Time Clk	SMD 114-8398●	3.78	3.15	2.53
MC68908GZ8MFAE	LQFP	48	8	1024	—	8/10	2	CAN, SCI, SPI	37	8	Yes/Yes	COP,KBI,LVI,POR,LVD,Real-Time Clk	SMD 114-8399●	5.54	4.63	3.69

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Microcontrollers and Microprocessors - 8-Bit - FREESCALE - continued

HC08 8-bit Microcontroller Family - continued

Mftrs. List No.	Pkg	Pins	Flash (KB)	RAM (Byte)	EEPROM (Byte)	ADC Channels/Bits	Timers	Interface Type	I/O Pins	Bus Freq (MHz)	USB/CAN	Addtional Features	Order Code	Price Each 1+	10+	100+
GZ Series																
MC68908GZ16CFJE	LQFP	32	16	1024	—	8/10	2	CAN, SCI, SPI	21	8	Yes/Yes	COP,KBI,LVI,POR,LVD,Real-Time Clk	NEW SMD 157-9674●	5.72	4.42	3.85
MC908GZ60CFJE	LQFP	32	60	2048	—	24/10	2	CAN, SCI, SPI	21	8	Yes/Yes	COP,KBI,LVI,POR,LVD,Real-Time Clk	NEW SMD 157-9683●	7.82	5.71	4.99
MC908GZ60CFUE	QFP	64	60	2048	—	24/10	2	CAN, SCI, SPI	53	8	Yes/Yes	COP,KBI,LVI,POR,LVD,Real-Time Clk	NEW SMD 157-9684●	7.26	5.89	5.13
MC908GZ60MFAE	LQFP	48	60	2048	—	24/10	2	CAN, SCI, SPI	37	8	Yes/Yes	COP,KBI,LVI,POR,LVD,Real-Time Clk	NEW SMD 157-9685●	8.57	6.28	5.47
MC908GZ48CFAE	LQFP	48	48	1536	—	24/10	2	CAN, SCI, SPI	37	8	Yes/Yes	COP,KBI,LVI,POR,LVD,Real-Time Clk	NEW SMD 157-9717●	7.10	5.20	4.51
JB/JW Series																
MC68HC908JB8JPE	DIP	20	8	256	—	—	1	SCI, SPI, USB	13	3	Yes/No	LVD,Watchdog OSC/Timer	114-8404●	1.99	1.54	1.34
MC908JB16DWE	SOIC	28	16	384	—	—	2	I2C, IRSCI, SPI	21	6	Yes/No	Int Clk Gen,LVD,Watchdog OSC/Timer	SMD 114-8430●	2.40	1.85	1.61
MC908JB8ADWE	SOIC	28	8	256	—	—	1	SCI, SPI, USB	21	3	Yes/No	LVD,Watchdog OSC/Timer	SMD 114-8431●	1.95	1.50	1.32
MC908JB8FBE	QFP	44	8	256	—	—	0	SCI, SPI, USB	37	3	Yes/No	LVD,Watchdog OSC/Timer	SMD 114-8432●	2.64	2.21	1.78
MC908JB16FAE	LQFP	32	16	384	—	—	2	I2C, IRSCI, SPI	21	6	Yes/No	Int Clk Gen,LVD,Watchdog OSC/Timer	NEW SMD 157-9686●	2.36	1.92	1.66
MCHC908JW32FC	QFN	48	32	1024	—	—	1	SPI, USB	29	8	Yes/No	LVD,Int Clk Gen,Watchdog OSC/Timer	NEW SMD 157-9716●	5.26	3.26	2.85
MC908JB8JDWE	SOIC	20	8	256	—	—	2	SCI, SPI, USB	13	3	Yes/No	LVD,Watchdog OSC/Timer	SMD 861-3800●	2.64	2.20	1.78
JK/JL Series																
MC908JK1ECDWE	SOIC	20	1.5	128	—	12/8	2	—	15	8, 4	—	LVD	SMD 114-8433●	1.44	1.19	0.96
MC908JK3ECDWE	SOIC	20	4	128	—	12/8	2	—	15	8, 4	Yes/No	Int Clk Gen,LVD	SMD 114-8434●	1.89	1.58	1.26
MC908JK3EMDWE	SOIC	20	4	128	—	12/8	2	—	15	8, 4	Yes/No	Int Clk Gen,LVD	SMD 114-8435●	2.40	1.85	1.61
MC908JK8CDWE	SOIC	20	8	256	—	12/8	2	SCI, SPI	15	8, 4	Yes/No	LVD,Watchdog OSC/Timer	SMD 114-8437●	3.62	2.79	2.44
MCHC908JK3ECPE	DIP	20	4	128	—	10/8	2	—	15	8, 4	Yes/No	LVD,Watchdog OSC/Timer	114-8490●	2.17	1.67	1.46
MCHC908JK8CPE	DIP	20	8	256	—	10/8	2	SCI, SPI	15	8, 4	Yes/No	LVD,Watchdog OSC/Timer	114-8491●	2.70	2.24	1.80
MCR908JK1ECDWE	SOIC	20	1.5	128	—	10/8	1	—	15	8, 4	—	LVD	SMD 120-0530●	1.78	1.49	1.26
MC68HC908JL8CSPE	DIP	32	8	256	—	13/8	2	I2C, IRSCI, SPI	26	8, 4	Yes/No	LVD,Watchdog OSC/Timer	114-8405●	3.72	3.10	2.48
MC908JL16CDWE	SOIC	28	16	512	—	12/10	1	I2C, SCI	23	8	Yes/No	LVD,Watchdog OSC/Timer	SMD 129-6210●	2.70	1.61	1.41
MC908JL16CPE	PDIP	28	16	512	—	12/10	1	I2C, SCI	23	8	Yes/No	LVD,Watchdog OSC/Timer	129-6211●	2.88	1.72	1.50
MC908JL3ECDWE	SOIC	28	4	128	—	12/8	2	—	26	8, 4	Yes/No	LVD,Watchdog OSC/Timer	SMD 114-8438●	2.42	2.00	1.61
MC908JL3ECFAE	LQFP	48	4	128	—	12/8	1	—	23	8, 4	Yes/No	LVD,Watchdog OSC/Timer	SMD 129-6212●	1.03	– –	– –
MC908JL3ECPE	DIP	28	4	128	—	12/8	1	—	23	8, 4	Yes/No	LVD,Watchdog OSC/Timer	114-8439●	2.42	2.00	1.70
MC908JL8CDWE	SOIC	28	8	256	—	12/8	2	SCI, SPI	26	8, 4	Yes/No	LVD,Watchdog OSC/Timer	SMD 114-8440●	2.74	2.12	1.98
MC908JL8CPE	DIP	28	8	256	—	12/8	2	SCI, SPI	26	8, 4	Yes/No	LVD,Watchdog OSC/Timer	114-8441●	3.39	2.82	2.26
MC68HC908JL8CFAE	LQFP	32	8	256	—	13/8	2	I2C, IRSCI, SPI	26	8, 4	Yes/No	LVD,Watchdog OSC/Timer	NEW SMD 157-9676●	5.39	3.36	2.77
MC68HC908JL8MFAE	LQFP	32	8	256	—	13/8	2	I2C, IRSCI, SPI	26	8, 4	Yes/No	LVD,Watchdog OSC/Timer	NEW SMD 157-9679●	5.03	3.68	3.04
K Series																
MC908KX8CDWE	SOIC	16	8	128	—	4/10	1	SCI	13	8, 4	Yes/No	LVD,Real-Time Clk,Watchdog OSC/Timer	SMD 120-0526●	3.82	3.22	2.75
MC908KX8MDWE	SOIC	16	8	192	—	4/10	1	SCI	13	8, 4	Yes/No	LVD,Real-Time Clk,Watchdog OSC/Timer	NEW SMD 157-9687●	4.99	3.66	2.75
LD Series																
MC908LD64IFUE	QFP	64	60	2048	—	6/8	1	I2C, USB	39	6	Yes/No	LVD,Watchdog OSC/Timer	SMD 114-8442●	6.91	5.33	4.65
LJ/LK Series																
MC908LJ12CPBE	LQFP	64	12	512	—	6/10	2	I2C, IRSCI, SPI	32	8, 4	Yes/No	LVD,Watchdog OSC/Timer	SMD 114-8443●	4.78	3.99	3.18
MC908LJ24CFUE	QFP	64	24	768	—	6/10	2	I2C, IRSCI, SPI	48	8, 4	Yes/No	LVD,Watchdog OSC/Timer	SMD 114-8445●	3.96	3.31	3.01
MC908LJ24CPBE	LQFP	64	24	768	—	6/10	2	I2C, IRSCI, SPI	48	8, 4	—	—	SMD 114-8446●	5.83	4.50	3.93
MC908LK24CFUE	LQFP	64	24	768	—	6/10	2	I2C, IRSCI, SPI	40	8, 4	Yes/No	LVD,Watchdog OSC/Timer	114-8447●	2.09	– –	– –
MC68HC98LJ12CFUE	QFP	64	16	384	—	6/10	2	IRSCI, SPI	32	8, 4	Yes/No	LVD,Watchdog OSC/Timer	NEW SMD 157-9677●	5.92	4.33	3.79
MC908LJ12CFBE	LQFP	52	12	512	—	4/10	2	IRSCI, SPI	20	8, 4	Yes/No	LVD,Watchdog OSC/Timer	NEW SMD 157-9688●	5.69	4.40	3.83
MC908LK24CPBE	LQFP	64	24	768	—	6/10	2	I2C, IRSCI, SPI	48	8, 4	—	—	NEW SMD 157-9689●	6.51	4.77	4.16
MR Series																
MCHC908MR8CFAE	LQFP	32	8	256	—	7/10	2	I2C, IRSCI, SCI, SPI	16	8		LVD,Watchdog OSC/Timer	NEW SMD 152-8328●	314.11	286.80	– –
MC908MR16CBE	DIP	56	16	768	—	10/8	2	I2C, IRSCI, SCI, SPI	36	8	Yes/No	LVD,Watchdog OSC/Timer	114-8449●	5.13	4.29	3.44
MC908MR16CFUE	QFP	64	16	768	—	10/10	2	I2C, IRSCI, SCI, SPI	36	8	Yes/No	LVD,Watchdog OSC/Timer	SMD 114-8451●	5.92	4.58	4.00
MC908MR32CBE	DIP	56	32	768	—	10/10	2	I2C, IRSCI, SCI, SPI	44	8	Yes/No	LVD,Watchdog OSC/Timer	120-0528●	8.57	7.21	6.11
MC908MR32CFUE	QFP	64	32	768	—	10/10	2	I2C, IRSCI, SCI, SPI	36	8	Yes/No	LVD,Watchdog OSC/Timer	SMD 114-8452●	5.02	4.50	4.08
MC908MR8CDWE	SOIC	28	8	256	—	7/10	2	I2C, IRSCI, SCI, SPI	14	8	Yes/No	LVD,Watchdog OSC/Timer	SMD 120-0529●	5.10	4.29	3.65
MCHC908MR8CFAE	LQFP	32	8	256	—	7/10	2	I2C, IRSCI, SCI, SPI	16	8	—	LVD,Watchdog OSC/Timer	SMD 114-8493●	2.99	2.68	2.43
MC908MR16VFUE	QFP	64	16	768	—	10/10	2	I2C, IRSCI, SCI, SPI	44	8	Yes/No	LVD,Watchdog OSC/Timer	NEW SMD 157-9696●	6.43	4.97	4.33
Q Series																
MC908QB8CDTE	TSSOP	16	8	256	—	10/10	4	SCI, SPI	14	8	Yes/No	COP,KBI,LVI,POR,LVD,Real-Time Clk	SMD 129-6213●	2.63	1.57	1.37
MC908QB8CDWE	SOIC	16	8	256	—	10/10	4	SCI, SPI	14	8	Yes/No	COP,KBI,LVI,POR,LVD,Real-Time Clk	SMD 129-6214●	2.25	1.48	1.29
MC908QB8MPE	PDIP	16	8	256	—	10/10	4	SCI, SPI	14	8	Yes/No	COP,KBI,LVI,POR,LVD,Real-Time Clk	129-6215●	2.15	2.00	1.86
MC908QT1ACDWE	SOIC	8	1.5	128	—	—	1	—	13	8	Yes/No	LVD,Watchdog OSC/Timer	SMD 120-0532●	1.03	0.80	0.62
MC908QT1ACPE	DIP	8	1.5	128	—	—	1	—	13	8	Yes/No	LVD,Watchdog OSC/Timer	120-0531●	1.03	0.80	0.62
MC908QT2ACDWE	SOIC	8	1.5	128	—	4/10	1	—	13	8	Yes/No	LVD,Watchdog OSC/Timer	SMD 120-0534●	1.23	0.95	0.75
MC908QT2ACPE	DIP	8	1.5	128	—	4/10	1	—	13	8	Yes/No	LVD,Watchdog OSC/Timer	120-0533●	1.23	0.95	0.75
MC908QT4ACDWE	SOIC	8	4	128	—	4/10	1	—	13	8	Yes/No	LVD,Watchdog OSC/Timer	SMD 120-0536●	1.50	1.15	0.91
MC908QT4ACPE	DIP	8	4	128	—	4/10	1	—	13	8	—	LVD,Watchdog OSC/Timer	120-0535●	1.50	1.15	0.91
MCHC908QT1CDWE	MFP	8	1.5	128	—	—	1	—	6	8	Yes/No	LVD,Watchdog OSC/Timer	SMD 114-8494●	1.08	0.91	0.74
MCHC908QT2CDWE	MFP	8	1.5	128	—	4/10	1	—	6	8	Yes/No	LVD,Watchdog OSC/Timer	SMD 114-8495●	1.31	1.08	0.87
MCHC908QT4CDWE	MFP	8	4	128	—	4/10	1	—	6	8	Yes/No	LVD,Watchdog OSC/Timer	SMD 114-8496●	1.04	0.87	0.70
MCL908QT1CDWE	SOIC	8	1.5	128	—	4/10	1	—	6	8	Yes/No	LVD,Watchdog OSC/Timer	SMD 114-8498●	0.92	0.71	0.62
MC908QY1ACDWE	SOIC	16	1.5	128	—	—	1	—	21	8	—	COP,KBI,LVI,POR,LVD	SMD 120-0539●	1.17	0.88	0.69
MC908QY1ACPE	DIP	16	1.5	128	—	—	1	—	21	8	—	COP,KBI,LVI,POR,LVD	120-0538●	0.80	0.65	0.63
MC908QY2ACDWE	SOIC	16	1.5	128	—	4/10	1	—	21	8	—	COP,KBI,LVI,POR,LVD	SMD 120-0541●	1.38	1.03	0.83
MC908QY2ACPE	DIP	16	1.5	128	—	4/8	1	—	21	8	—	COP,KBI,LVI,POR,LVD	120-0540●	0.94	0.70	0.56
MC908QY4ACDWE	SOIC	16	4	128	—	4/10	1	—	21	8	—	COP,KBI,LVI,POR,LVD	SMD 120-0543●	1.79	1.36	1.06
MC908QY4ACPE	DIP	16	4	128	—	4/10	1	—	21	8	—	COP,KBI,LVI,POR,LVD	120-0542●	1.22	0.92	0.73
MC908QY8CDTE	TSSOP	16		256	—	4/10	2	SCI, SPI	14	8	Yes/No	COP,KBI,LVI,POR,LVD,Real-Time Clk	SMD 129-6216●	0.63	– –	– –
MC908QY8CDWE	SOIC	16	8	256	—	4/10	2	SCI, SPI	14	8	Yes/No	COP,KBI,LVI,LVD,POR,Real-Time Clk	SMD 129-6217●	1.74	1.60	1.50
MC908QB4CDTE	TSSOP	16	4	128	—	10/10	4	SCI, SPI	13	8	Yes/No	COP,KBI,LVI,POR,LVD,Real-Time Clk	NEW SMD 157-9690●	2.34	1.45	1.26
MC908QB4CDWE	SOIC	16	4	128	—	10/10	4	SCI, SPI	13	8	Yes/No	COP,KBI,LVI,POR,LVD,Real-Time Clk	NEW SMD 157-9692●	2.53	1.36	1.19
MC908QB4CPE	PDIP	16	4	128	—	10/10	4	SCI, SPI	13	8	—	—	NEW 157-9693●	2.53	1.36	1.19
MC908QB8CPE	PDIP	16	8	256	—	10/10	4	SCI, SPI	13	8	—	—	NEW 157-9694●	2.47	1.54	1.34
MC908QL4MDTE	TSSOP	16	4	128	—	6/10	1	SLIC	13	8	Yes/No	COP,KBI,LVI,POR,LVD	NEW SMD 157-9695●	4.49	2.55	2.21
MC908QC16CDTE	TSSOP	16	16	512	—	10/10	2	SCI, SPI	14	8	Yes/No	COP,KBI,LVI,LVD,POR	NEW SMD 165-2401●	3.00	2.69	2.39
MC68HC908QY4CP	DIP	16	4	128	—	4/8	1	—	21	8	—	Int Clk Gen,LVD	415-4307▲	0.49	– –	– –
MC68HC908QT1CPE	DIP	8	1.5	128	—	—	2	—	5	8	Yes/No	LVD,Watchdog OSC/Timer	861-3508●	0.92	0.71	0.62
MC68HC908QT1VPE	DIP	8	1.5	128	—	—	2	—	5	8	Yes/No	LVD,Watchdog OSC/Timer	861-3524●	0.87	0.80	0.71
MC68HC908QT2CPE	DIP	8	1.5	128	—	4/8	2	—	5	8	Yes/No	LVD,Watchdog OSC/Timer	861-3532●	1.12	0.85	0.75
MC68HC908QT4CPE	DIP	8	4	128	—	4/10	2	—	5	8	Yes/No	LVD,Watchdog OSC/Timer	861-3567●	1.31	1.01	0.88
MC68HC908QT4VPE	DIP	8	4	128	—	4/10	2	—	5	8	Yes/No	LVD,Watchdog OSC/Timer	861-3583●	1.59	1.23	1.06
MC68HC908QY1MPE	DIP	16	1.5	128	—	—	2	—	13	8	—	Int Clk Gen,LVD	861-3605●	1.32	1.02	0.89
MC68HC908QY1VPE	DIP	16	1.5	128	—	—	2	—	13	8	—	Int Clk Gen,LVD	861-3613●	0.87	0.66	0.58
MC68HC908QY2CPE	DIP	16	1.5	128	—	4/10	2	—	13	8	—	Int Clk Gen,LVD	861-3621●	1.41	1.12	0.95
MC68HC908QY4CPE	DIP	16	4	128	—	4/10	2	—	13	8	—	Int Clk Gen,LVD	861-3656●	1.59	1.23	1.06
MC68HC908QY4MPE	DIP	16	4	128	—	4/10	2	—	13	8	—	Int Clk Gen,LVD	861-3664●	1.56	1.31	1.13

Mftrs. List No.	Pkg	Pins	Flash (KB)	RAM (Byte)	EEPROM (Byte)	ADC Channels/Bits	Timers	Interface Type	I/O Pins	Bus Freq (MHz)	USB/CAN	Addtional Features	Order Code	Price Each 1+	10+	100+
Q Series																
MCHLC908QT4CPE	DIP	8	4	128	—	4/10	2	—	5	8	Yes/No	LVD,Watchdog OSC/Timer	861-3729	1.10	0.85	0.74
MCHLC908QY2CPE	DIP	16	1.5	128	—	4/10	2	—	13	8	—	Int Clk Gen,LVD	861-3761	0.61	– –	– –
SR Series																
MC908SR12CBE	DIP	42	12	512	—	14/10	2	I2C, SCI	33	8	Yes/No	LVD,Int Clk Gen,Watchdog OSC/Timer	114-8453	5.26	4.06	3.54
MC908SR12CFAE	LQFP	48	12	512	—	14/10	2	I2C, SCI	33	8	Yes/No	LVD,Int Clk Gen,Watchdog OSC/Timer	114-8454	2.42	– –	– –

RS08 8-bit Microcontroller Family

These devices are part of Freescale's MC9RS09 family of 8-bit microcontrollers and are based on the popular S08 Central Processor Unit (CPU08).

Features Include:

- Up to 2 KB third-generation FLASH
- 8-bit modulo timer
- Real-time interrupt trigger
- Background debugging system
- Flexible clock options
- Analog comparator
- System protection, including LVD

524717

Mftrs. List No.	Pkg	Pins	Flash (KB)	RAM (Byte)	EEPROM (Byte)	ADC Channels/Bits	Timer Channels	Interface Type	I/O Pins	Bus Freq (MHz)	USB/CAN	Addtional Features	Order Code	Price Each 1+	10+	100+
MC9RS08KA1CDB	QFN	6	1	63	—	—	—	—	2	10	No/No	Analog Comparator,LVD	NEW SMD 157-9714	0.51	0.34	0.28
MC9RS08KA2CSC	SOIC	8	1	63	—	—	—	—	4	10	No/No	Analog Comparator,LVD	SMD 123-0500	0.43	0.33	0.27
MC9RS08KA1CSC	SOIC	8	2	63	—	—	—	—	4	10	No/No	Analog Comparator,LVD	SMD 129-6221	0.43	0.28	0.26
MC9RS08KA2CPC	DIP	8	2	63	—	—	—	—	4	10	No/No	Analog Comparator,LVD	123-0498	0.48	0.35	0.30
MC9RS08KA4CWG	SOIC	16	4	126	—	12 / 10	1	I2C	14	10	No/No	Analog Comparator,COP,KBI	NEW SMD 162-2676	0.82	0.58	0.47
MC9RS08KA8CWG	SOIC	16	8	254	—	12 / 10	1	I2C	14	10	No/No	Analog Comparator,COP,KBI	NEW SMD 162-2678	0.88	0.63	0.48
MC9RS08KA4CWJ	SOIC	20	4	126	—	12 / 10	1	I2C	18	10	No/No	Analog Comparator,COP,KBI	NEW SMD 162-2677	1.01	0.73	0.57
MC9RS08KA8CWJ	SOIC	20	8	254	—	12 / 10	1	I2C	18	10	No/No	Analog Comparator,COP,KBI	NEW SMD 162-2679	0.91	0.66	0.51

HCS08 8-bit Microcontroller Family

These devices are part of Freescale's M9HCS08 family of 8-bit microcontrollers and are based on the enhanced M9HCS08 Central Processor Unit. The M9HCS08 family combines high-performance levels with a low power operation of 1.8 V.

New

HCS08 - Flexis™ AC Series

These devices are part of the Flexis™ series of microcontrollers that deliver the reality of 8-bit to 32-bit compatability. The Flexis™ series includes complimentary families of microcontrollers that have a common set of peripherals and development tools to deliver the ultimate in migration flexibility.

Features Include:

- HCS08 CPU Core
- Background Debug System
- Integrated Third-Generation FLASH Memory
- Internal Clock Generator
- 10-bit Analog-to-Digital Converter (ADC)
- Up to 3 Timers/PWM
- Extensive Serial Communications
- System Protection
- Keyboard Interrupt (KBI)
- Additional Independent 1kHz Clock Source
- Cyclic Redundancy Check (CRC)
- Up to 56 GPIOs

525304

Mftrs. List No.	Pkg	Pins	Flash (KB)	RAM (KB)	EEPROM (Byte)	ADC Channel/Bits	Timer Channels	Interface Type	I/O Pins	Bus Freq MHz	USB/CAN	Addtional Features	Order Code	Price Each 1+	10+	100+
MC9S08AC8CFGE	LQFP	44	8	768 (Byte)	—	8 / 10	3	I2C, SCI, SPI	34	20	No/No	COP,Int Clock Generator,Int Voltage Regulator,KBI,LVD	SMD 157-2056	2.20	1.68	1.47
MC9S08AC16CFGE	LQFP	44	16	1	—	8 / 10	3	I2C, SCI, SPI	34	20	No/No	COP,Int Clock Generator,Int Voltage Regulator,KBI,LVD	SMD 157-2044	2.37	1.82	1.59
MC9S08AC32CFGE	LQFP	44	32	2	—	8 / 10	3	I2C, SCI, SPI	34	20	No/No	COP,Int Clock Generator,Int Voltage Regulator,KBI,LVD	SMD 157-2046	2.69	2.07	1.81
MC9S08AC60CFGE	LQFP	44	60	2	—	8 / 10	3	I2C, SCI, SPI	34	20	No/No	COP,Int Clock Generator,Int Voltage Regulator,KBI,LVD	SMD 157-2051	2.90	2.23	1.95
MC9S08AC96CFGE	LQFP	44	96	6	—	8 / 10	3	I2C, SCI, SPI	38	20	No/No	COP,Int Clock Generator,Int Voltage Regulator,KBI,LVD	SMD 162-2683	3.20	2.33	1.78
MC9S08AC128CFGE	LQFP	44	128	8	—	8 / 10	3	I2C, SCI, SPI	38	20	No/No	COP,Int Clock Generator,Int Voltage Regulator,KBI,LVD	SMD 162-2680	3.46	2.53	1.91
MC9S08AC8CFDE	QFN	48	8	768 (Byte)	—	8 / 10	3	I2C, SCI, SPI	38	20	No/No	COP,Int Clock Generator,Int Voltage Regulator,KBI,LVD	SMD 157-2055	2.24	2.06	1.87
MC9S08AC16CFDE	QFN	48	16	1	—	8 / 10	3	I2C, SCI, SPI	38	20	No/No	COP,Int Clock Generator,Int Voltage Regulator,KBI,LVD	SMD 157-2043	2.44	1.88	1.64
MC9S08AC60CFDE	QFN	48	60	2	—	8 / 10	3	I2C, SCI, SPI	38	20	No/No	COP,Int Clock Generator,Int Voltage Regulator,KBI,LVD	SMD 157-2050	2.99	2.29	2.00
MC9S08AC32CFDE	QFN	48	32	2	—	8 / 10	3	I2C, SCI, SPI	38	20	No/No	COP,Int Clock Generator,Int Voltage Regulator,KBI,LVD	SMD 157-2045	2.77	2.14	1.86
MC9S08AC32CFUE	QFP	64	32	2	—	16 / 10	3	I2C, SCI, SPI	54	20	No/No	COP,Int Clock Generator,Int Voltage Regulator,KBI,LVD	SMD 157-2047	2.96	2.71	2.46
MC9S08AC32CPUE	LQFP	64	32	2	—	16 / 10	3	I2C, SCI, SPI	54	20	No/No	COP,Int Clock Generator,Int Voltage Regulator,KBI,LVD	SMD 157-2048	3.02	2.33	2.02
MC9S08AC48CPUE	LQFP	64	48	2	—	16 / 10	3	I2C, SCI, SPI	54	20	No/No	COP,Int Clock Generator,Int Voltage Regulator,KBI,LVD	SMD 157-2049	3.16	2.43	2.13
MC9S08AC60CFUE	QFP	64	60	2	—	16 / 10	3	I2C, SCI, SPI	54	20	No/No	COP,Int Clock Generator,Int Voltage Regulator,KBI,LVD	SMD 157-2053	3.25	2.50	2.19
MC9S08AC60CPUE	LQFP	64	60	2	—	16 / 10	3	I2C, SCI, SPI	54	20	No/No	COP,Int Clock Generator,Int Voltage Regulator,KBI,LVD	SMD 157-2054	3.18	2.46	2.14
MC9S08AC96CFUE	QFP	64	96	6	—	16 / 10	3	I2C, SCI, SPI	54	20	No/No	COP,Int Clock Generator,Int Voltage Regulator,KBI,LVD	SMD 162-2684	3.43	2.49	1.91
MC9S08AC128CFUE	QFP	64	128	8	—	16 / 10	3	I2C, SCI, SPI	54	20	No/No	COP,Int Clock Generator,Int Voltage Regulator,KBI,LVD	SMD 162-2681	3.68	2.68	2.29
MC9S08AC96CLKE	LQFP	80	96	6	—	16 / 10	3	I2C, SCI, SPI	70	20	No/No	COP,Int Clock Generator,Int Voltage Regulator,KBI,LVD	SMD 162-2685	3.55	2.58	1.95
MC9S08AC128CLKE	LQFP	80	128	8	—	16 / 10	3	I2C, SCI, SPI	70	20	No/No	COP,Int Clock Generator,Int Voltage Regulator,KBI,LVD	SMD 162-2682	3.81	2.78	2.10

HCS08 - AW Series

Features Include:

- HCS08 CPU Core
- On-Chip Debug Interface
- Integrated Third-Generation FLASH Memory
- Internal Clock Generator
- 10-bit Analog-to-Digital Converter (ADC)
- 2 Timers with up to Eight Programmable Channels
- Extensive Serial Communications
- System Protection
- Up to 56 Input/Output (I/O) Lines

524759

Mftrs. List No.	Pkg	Pins	Flash (KB)	RAM (KB)	EEPROM (Byte)	ADC Channel/ Bits	Timer Channels	Interface Type	I/O Pins	Bus Freq (MHz)	USB/CAN	Addtional Features	Order Code	Price Each 1+	3+	5+
MC9S08AW16CFGE	LQFP	44	16	1	—	16 / 10	2	I2C, SCI, SPI	34	20	No/No	BDM,COP,ICE,KBI,LVI,POR,Temp Sensor,LVD,Real-Time Clk	SMD 119-1205	3.25	1.95	1.70
MC9S08AW32CFGE	LQFP	44	32	2	—	16 / 10	2	I2C, SCI, SPI	34	20	No/No	BDM,COP,ICE,KBI,LVI,POR,Temp Sensor,LVD,Real-Time Clk	NEW SMD 152-8354	161.22	146.65	137.91
MC9S08AW32CFGE	LQFP	44	32	2	—	16 / 10	2	I2C, SCI, SPI	34	20	No/No	BDM,COP,ICE,KBI,LVI,POR,Temp Sensor,LVD,Real-Time Clk	SMD 119-1209	3.52	2.11	1.84
MC9S08AW48CFGE	LQFP	44	48	2	—	16 / 10	2	I2C, SCI, SPI	34	20	No/No	BDM,COP,ICE,KBI,LVI,LVD,POR,Real-Time Clk,Temp Sensor	NEW SMD 157-9699	4.00	2.62	2.29
MC9S08AW60CFGE	LQFP	44	60	2	—	16 / 10	2	I2C, SCI, SPI	34	20	No/No	BDM,COP,ICE,KBI,LVI,POR,Temp Sensor,LVD,Real-Time Clk	SMD 119-1213	4.59	2.75	2.48
MC9S08AW60MFGE	LQFP	44	60	2	—	16 / 10	2	I2C, SCI, SPI	34	20	No/No	BDM,COP,ICE,KBI,LVI,POR,Temp Sensor,LVD,Real-Time Clk	NEW SMD 157-9701	4.12	3.18	2.78
MC9S08AW16CFDE	QFN	48	16	1	—	16 / 10	2	I2C, SCI, SPI	38	20	No/No	BDM,COP,ICE,KBI,LVI,POR,Temp Sensor,LVD,Real-Time Clk	SMD 119-1204	3.43	2.05	1.79
MC9S08AW32CFDE	QFN	48	32	2	—	16 / 10	2	I2C, SCI, SPI	38	20	No/No	BDM,COP,ICE,KBI,LVI,POR,Temp Sensor,LVD,Real-Time Clk	SMD 119-1208	3.69	2.20	1.92
MC9S08AW16CFUE	QFP	64	16	1	—	16 / 10	2	I2C, SCI, SPI	54	20	No/No	BDM,COP,ICE,KBI,LVI,POR,Temp Sensor,LVD,Real-Time Clk	SMD 119-1206	3.69	2.21	1.92
MC9S08AW16CPUE	LQFP	64	16	1	—	16 / 10	2	I2C, SCI, SPI	54	20	No/No	BDM,COP,ICE,KBI,LVI,POR,Temp Sensor,LVD,Real-Time Clk	SMD 119-1207	3.69	2.20	1.92
MC9S08AW32CFUE	QFP	64	32	2	—	16 / 10	2	I2C, SCI, SPI	54	20	No/No	BDM,COP,ICE,KBI,LVI,POR,Temp Sensor,LVD,Real-Time Clk	SMD 119-1210	3.92	2.35	2.05
MC9S08AW32CPUE	LQFP	64	32	2	—	16 / 10	2	I2C, SCI, SPI	54	20	No/No	BDM,COP,ICE,KBI,LVI,POR,Temp Sensor,LVD,Real-Time Clk	SMD 119-1211	3.92	2.35	2.05
MC9S08AW48CPUE	LQFP	64	48	2	—	16 / 10	2	I2C, SCI, SPI	54	20	No/No	BDM,COP,ICE,KBI,LVI,LVD,POR,Real-Time Clk,Temp Sensor	NEW SMD 157-9700	4.50	2.89	2.53
MC9S08AW60CFUE	QFP	64	60	2	—	16 / 10	2	I2C, SCI, SPI	54	20	No/No	BDM,COP,ICE,KBI,LVI,POR,Temp Sensor,LVD,Real-Time Clk	SMD 119-1215	5.02	3.00	2.62
MC9S08AW60MFUE	QFP	64	60	2	—	16 / 10	2	I2C, SCI, SPI	54	20	No/No	BDM,COP,ICE,KBI,LVI,POR,Temp Sensor,LVD,Real-Time Clk	NEW SMD 157-9702	4.50	3.47	3.03
MC9S08AW60CPUE	LQFP	64	60	2	—	16 / 10	2	I2C, SCI, SPI	54	20	No/No	BDM,COP,ICE,KBI,LVI,POR,Temp Sensor,LVD,Real-Time Clk	SMD 119-1216	3.71	2.53	2.41

RL Re-reeling available

Microcontrollers and Microprocessors - 8-Bit - FREESCALE - continued

HCS08 - D Series

freescale semiconductor

New

Features Include:

- HCS08 CPU Core
- On-Chip Debug Interface
- Integrated Third-Generation FLASH Memory
- Internal Clock Generator
- 10-bit Analog-to-Digital Converter (ADC)
- 2 Timers with up to Eight Programmable Channels
- Extensive Serial Communications
- System Protection
- Up to 56 Input/Output (I/O) Lines

524768

Mftrs. List No.	Pkg	Pins	Flash (KB)	RAM (KB)	EEPROM (Byte)	ADC Channels/Bits	Timer Channels	Interface Type	I/O Pins	Bus Freq (MHz)	USB/CAN	Addtional Features	Order Code	Price Each 1+	10+	100+
MC9S08DZ16CLC	LQFP	32	16	1	512	10 / 12	2	CAN,I2C,SCI,SPI	26	20	No/Yes	BDM,COP,ICE,KBI,LVI,POR,Real-Time Clk,Temp Sensor	SMD 162-2695	3.34	2.42	1.84
MC9S08DN32CLC	LQFP	32	32	2	1024	10 / 12	2	I2C,SCI,SPI	26	20	No/No	BDM,COP,ICE,KBI,LVI,POR,Real-Time Clk,Temp Sensor	SMD 162-2686	3.26	2.39	1.80
MC9S08DZ60CLC	LQFP	32	60	4	2048	10 / 12	2	CAN,I2C,SCI,SPI	26	20	No/Yes	BDM,COP,ICE,KBI,LVI,POR,Real-Time Clk,Temp Sensor	SMD 162-2700	4.05	2.93	2.23
MC9S08DZ60MLC	LQFP	32	60	4	2048	10 / 12	2	CAN,I2C,SCI,SPI	26	20	No/Yes	BDM,COP,ICE,KBI,LVI,POR,Real-Time Clk,Temp Sensor	SMD 162-2703	4.43	3.22	2.46
MC9S08DV16CLF	LQFP	48	16	1	—	16 / 12	2	CAN,I2C,SCI,SPI	40	20	No/Yes	BDM,COP,ICE,KBI,LVI,POR,Real-Time Clk,Temp Sensor	SMD 162-2690	3.26	2.39	1.80
MC9S08DZ16CLF	LQFP	48	16	1	512	16 / 12	2	CAN,I2C,SCI,SPI	40	20	No/Yes	BDM,COP,ICE,KBI,LVI,POR,Real-Time Clk,Temp Sensor	SMD 162-2696	3.43	2.49	1.89
MC9S08DZ32CLF	LQFP	48	32	2	1024	16 / 12	2	CAN,I2C,SCI,SPI	40	20	No/Yes	BDM,COP,ICE,KBI,LVI,POR,Real-Time Clk,Temp Sensor	SMD 162-2697	3.68	2.68	2.02
MC9S08DN60CLF	LQFP	48	60	2	2048	16 / 12	2	I2C,SCI,SPI	40	20	No/No	BDM,COP,ICE,KBI,LVI,POR,Real-Time Clk,Temp Sensor	SMD 162-2688	3.85	2.79	2.13
MC9S08DZ60MLF	LQFP	48	60	4	2048	16 / 12	2	CAN,I2C,SCI,SPI	40	20	No/Yes	BDM,COP,ICE,KBI,LVI,POR,Real-Time Clk,Temp Sensor	SMD 162-2704	4.59	3.34	2.54
MC9S08DZ60CLF	LQFP	48	60	4	2048	16 / 12	2	CAN,I2C,SCI,SPI	40	20	No/Yes	BDM,COP,ICE,KBI,LVI,POR,Real-Time Clk,Temp Sensor	SMD 162-2701	4.17	3.04	2.29
MC9S08DZ96CLF	LQFP	48	96	6	2048	16 / 12	2	CAN,I2C,SCI,SPI	40	20	No/Yes	BDM,COP,ICE,KBI,LVI,POR,Real-Time Clk,Temp Sensor	SMD 162-2707	4.45	3.24	2.47
MC9S08DZ128CLF	LQFP	48	128	8	2048	24 / 12	2	CAN,I2C,SCI,SPI	40	20	No/Yes	BDM,COP,ICE,KBI,LVI,POR,Real-Time Clk,Temp Sensor	SMD 162-2692	4.89	3.55	2.70
MC9S08DV32CLH	LQFP	64	32	2	—	16 / 12	2	CAN,I2C,SCI,SPI	53	20	No/Yes	BDM,COP,ICE,KBI,LVI,POR,Real-Time Clk,Temp Sensor	SMD 162-2691	3.75	2.74	2.07
MC9S08DZ32CLH	LQFP	64	32	2	1024	24 / 12	2	CAN,I2C,SCI,SPI	53	20	No/Yes	BDM,COP,ICE,KBI,LVI,POR,Real-Time Clk,Temp Sensor	SMD 162-2698	3.90	2.84	2.16
MC9S08DN60CLH	LQFP	64	60	2	2048	16 / 12	2	I2C,SCI,SPI	53	20	No/No	BDM,COP,ICE,KBI,LVI,POR,Real-Time Clk,Temp Sensor	SMD 162-2689	4.10	2.99	2.26
MC9S08DZ60CLH	LQFP	64	60	4	2048	24 / 12	2	CAN,I2C,SCI,SPI	53	20	No/Yes	BDM,COP,ICE,KBI,LVI,POR,Real-Time Clk,Temp Sensor	SMD 162-2702	4.40	3.19	2.44
MC9S08DZ60MLH	LQFP	64	60	4	2048	24 / 12	2	CAN,I2C,SCI,SPI	53	20	No/Yes	BDM,COP,ICE,KBI,LVI,POR,Real-Time Clk,Temp Sensor	SMD 162-2706	4.84	3.52	2.69
MC9S08DZ96CLH	LQFP	64	96	6	2048	24 / 12	2	CAN,I2C,SCI,SPI	53	20	No/Yes	BDM,COP,ICE,KBI,LVI,POR,Real-Time Clk,Temp Sensor	SMD 162-2708	4.78	3.47	2.68
MC9S08DZ128CLH	LQFP	64	128	8	2048	24 / 12	2	CAN,I2C,SCI,SPI	53	20	No/Yes	BDM,COP,ICE,KBI,LVI,POR,Real-Time Clk,Temp Sensor	SMD 162-2693	5.21	3.79	2.89
MC9S08DZ128CLL	LQFP	100	128	8	2048	24 / 12	2	CAN,I2C,SCI,SPI	—	20	No/Yes	BDM,COP,ICE,KBI,LVI,POR,Real-Time Clk,Temp Sensor	SMD 162-2694	5.66	4.10	3.13
MC9S08DZ96CLL	LQFP	100	96	6	2048	24 / 12	2	CAN,I2C,SCI,SPI	—	20	No/Yes	BDM,COP,ICE,KBI,LVI,POR,Real-Time Clk,Temp Sensor	SMD 162-2709	5.27	3.82	2.91

HCS08 - GB and GT Series

freescale semiconductor

Features Include:

- HCS08 CPU Core
- Background Debug System
- On-chip programmable FLASH Memory
- Internal Clock Generator
- 8-bit or 10-bit Analog-to-Digital Converter (ADC)
- 3 channel and 5 channel timers, with PWM
- Extensive Serial Communications
- System Protection
- Up to 56 Input/Output (I/O) Lines

524836

Mftrs. List No.	Pkg	Pins	Flash (KB)	RAM (KB)	EEPROM (Byte)	ADC Channels/Bits	Timer Channels	Interface Type	I/O Pins	Bus Freq MHz	USB/CAN	Addtional Features	Order Code	Price Each 1+	10+	100+
GB Series																
MC9S08GB32ACFUE	LQFP	64	32	2	—	8 / 10	2	I2C, SCI, SPI	56	20	No/No	LVD,Real-Time Clk,Watchdog OSC/Timer	NEW SMD 157-9703	4.02	3.10	2.70
MC9S08GB32CFUE	LQFP	64	32	2	—	8 / 10	2	I2C, SCI, SPI	56	20	No/No	LVD,Real-Time Clk,Watchdog OSC/Timer	SMD 114-8456	3.95	3.05	2.67
MC9S08GB60ACFUE	LQFP	64	60	4	—	8 / 10	8	I2C, SCI, SPI	56	20	No/No	LVD,Real-Time Clk,Watchdog OSC/Timer	SMD 133-6814	5.20	4.84	4.50
GT Series																
MC9S08GT8ACFCE	QFN	32	8	1	—	8 / 10	2	I2C, SCI, SPI	24	20	No/No	LVD,Real-Time Clk,Watchdog OSC/Timer	SMD 129-4367	2.27	1.52	1.24
MC9S08GT8AMFCE	QFN	32	8	1	—	8 / 10	2	I2C, SCI, SPI	24	20	No/No	LVD,Real-Time Clk,Watchdog OSC/Timer	SMD 129-4363	0.67	– –	– –
MC9S08GT8ACBE	PSDIP	42	8	1	—	8 / 10	2	I2C, SCI, SPI	34	20	No/No	LVD,Real-Time Clk,Watchdog OSC/Timer	129-4366	2.50	1.67	1.34
MC9S08GT32ACBE	PSDIP	42	32	2	—	8 / 10	2	I2C, SCI, SPI	39	20	No/No	LVD,Real-Time Clk,Watchdog OSC/Timer	NEW 157-9707	4.64	3.02	2.63
MC9S08GT60ACBE	PSDIP	42	60	4	—	8 / 10	2	I2C, SCI, SPI	39	20	No/No	LVD,Real-Time Clk,Watchdog OSC/Timer	NEW 157-9709	5.54	4.06	3.54
MC9S08GT8AMFBE	QFP	44	8	1	—	8 / 10	2	I2C, SCI, SPI	36	20	No/No	LVD,Real-Time Clk,Watchdog OSC/Timer	SMD 129-4361	2.56	1.70	1.37
MC9S08GT8ACFBE	QFP	44	8	1	—	8 / 10	2	I2C, SCI, SPI	36	20	No/No	LVD,Real-Time Clk,Watchdog OSC/Timer	SMD 129-4365	2.33	1.56	1.24
MC9S08GT16CFBE	QFP	44	16	1	—	8 / 10	2	I2C, SCI, SPI	36	20	No/No	LVD,Real-Time Clk,Watchdog OSC/Timer	SMD 114-8458	3.48	2.69	2.36
MC9S08GT16AMFBE	QFP	44	16	2	—	8 / 10	2	I2C, SCI, SPI	36	20	No/No	LVD,Real-Time Clk,Watchdog OSC/Timer	NEW SMD 157-9706	2.40	1.94	1.68
MC9S08GT60ACFBE	QFP	44	60	4	—	8 / 10	2	I2C, SCI, SPI	36	20	No/No	LVD,Real-Time Clk,Watchdog OSC/Timer	NEW SMD 152-8393	295.23	257.36	– –
MC9S08GT60ACFBE	QFP	44	60	4	—	8 / 10	2	I2C, SCI, SPI	36	20	No/No	LVD,Real-Time Clk,Watchdog OSC/Timer	SMD 129-4358	4.81	3.71	3.23
MC9S08GT8ACFDE	QFN	48	8	1	—	8 / 10	2	I2C, SCI, SPI	39	20	No/No	LVD,Real-Time Clk,Watchdog OSC/Timer	SMD 129-4364	1.67	1.11	0.89
MC9S08GT8ACFDE	QFN	48	8	1	—	8 / 10	2	I2C, SCI, SPI	39	20	No/No	LVD,Real-Time Clk,Watchdog OSC/Timer	NEW SMD 152-8395	113.81	– –	– –
MC9S08GT8AMFDE	QFN	48	8	1	—	8 / 10	2	I2C, SCI, SPI	39	20	No/No	LVD,Real-Time Clk,Watchdog OSC/Timer	SMD 129-4360	1.84	1.23	1.07
MC9S08GT16CFDE	QFN	48	16	1	—	8 / 10	2	I2C, SCI, SPI	36	20	No/No	LVD,Real-Time Clk,Watchdog OSC/Timer	SMD 114-8459	3.62	2.79	2.44
MC9S08GT16ACFDE	QFN	48	16	2	—	8 / 10	2	I2C, SCI, SPI	39	20	No/No	LVD,Real-Time Clk,Watchdog OSC/Timer	NEW SMD 157-9705	2.40	1.85	1.60
MC9S08GT32CFDE	QFN	48	32	2	—	8 / 10	2	I2C, SCI, SPI	36	20	No/No	LVD,Real-Time Clk,Watchdog OSC/Timer	SMD 114-8460	3.53	2.72	2.37
MC9S08GT60ACFDE	QFN	48	60	4	—	8 / 10	2	I2C, SCI, SPI	39	20	No/No	LVD,Real-Time Clk,Watchdog OSC/Timer	SMD 129-4359	4.93	3.81	3.32
MC9S08GT60CFDE	QFN	48	60	4	—	8 / 10	2	I2C, SCI, SPI	36	20	No/No	LVD,Real-Time Clk,Watchdog OSC/Timer	SMD 114-8462	4.51	3.48	3.04
MC9S08GT60ACFDE	QFN	48	60	4	—	8 / 10	2	I2C, SCI, SPI	39	20	No/No	LVD,Real-Time Clk,Watchdog OSC/Timer	NEW SMD 152-8394	412.75	– –	– –

HCS08 - Flexis™ JM Series

freescale semiconductor

New

These devices are part of the Flexis™ series of microcontrollers that deliver the reality of 8-bit to 32-bit compatability. The Flexis™ series includes complimentary families of microcontrollers that have a common set of peripherals and development tools to deliver the ultimate in migration flexibility.

Features Include:

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- Background Debug System
- Integrated Third-Generation FLASH Memory
- Internal Clock Generator
- 12-bit Analog-to-Digital Converter (ADC)
- 2 Timers/PWM
- Extensive Serial Communications
- System Protection
- Keyboard Interrupt (KBI)
- Up to 51 GPIOs
- USB 2.0 full-speed device

525311

Mftrs. List No.	Pkg	Pins	Flash (KB)	RAM (KB)	EEPROM (Byte)	ADC Channel/Bits	Timer Channels	Interface Type	I/O Pins	Bus Freq MHz	USB/CAN	Addtional Features	Order Code	Price Each 1+	10+	100+
MC9S08JM32CQH	QFP	64	32	2	—	12 / 12	2	I2C, SCI, SPI	51	24	Yes/No	Analog Comparator,COP,Int Voltage Reg,KBI,LVD,Real-Time Clk	SMC 156-2856	3.87	3.00	2.61
MC9S08JM32CLH	LQFP	64	32	2	—	12 / 12	2	I2C, SCI, SPI	51	24	Yes/No	Analog Comparator,COP,Int Voltage Reg,KBI,LVD,Real-Time Clk	SMC 156-2857	3.87	3.00	2.61
MC9S08JM32CGT	QFN	48	32	2	—	8 / 12	2	I2C, SCI, SPI	37	24	Yes/No	Analog Comparator,COP,Int Voltage Reg,KBI,LVD,Real-Time Clk	SMC 156-2858	3.80	2.93	2.56
MC9S08JM32CLD	LQFP	44	32	2	—	8 / 12	2	I2C, SCI, SPI	33	24	Yes/No	Analog Comparator,COP,Int Voltage Reg,KBI,LVD,Real-Time Clk	SMC 156-2859	3.75	2.89	2.53
MC9S08JM60CQH	QFP	64	60	4	—	12 / 12	2	I2C, SCI, SPI	51	24	Yes/No	Analog Comparator,COP,Int Voltage Reg,KBI,LVD,Real-Time Clk	SMC 156-2860	4.17	3.23	2.82
MC9S08JM60CLH	LQFP	64	60	4	—	12 / 12	2	I2C, SCI, SPI	51	24	Yes/No	Analog Comparator,COP,Int Voltage Reg,KBI,LVD,Real-Time Clk	SMC 156-2862	4.17	3.23	2.82
MC9S08JM60CGT	QFN	48	60	4	—	8 / 12	2	I2C, SCI, SPI	37	24	Yes/No	Analog Comparator,COP,Int Voltage Reg,KBI,LVD,Real-Time Clk	SMC 156-2863	4.09	3.17	2.76
MC9S08JM60CLD	LQFP	44	60	4	—	8 / 12	2	I2C, SCI, SPI	33	24	Yes/No	Analog Comparator,COP,Int Voltage Reg,KBI,LVD,Real-Time Clk	SMC 156-2864	4.05	3.11	2.74

RL Re-reeling available

Farnell

HCS08 - LC Series

Features Include:
- HCS08 CPU Core
- Background Debug System
- Dual on-chip in-circuit programmable FLASH
- Internal Clock Generator
- Power-saving options
- 12-bit Analog-to-Digital Converter (ADC)
- LCD compatible
- 1 Timer/PWM
- Extensive Serial Communications
- System Protection
- Up to 24 Input/Output (I/O) Lines

524841

Mftrs. List No.	Pkg	Pins	Flash (KB)	RAM (KB)	EEPROM (KB)	ADC Channels/Bits	Timer Channels	Interface Type	I/O Pins	Bus Freq MHz	USB/CAN	Addtional Features	Order Code	Price Each 1+	10+	100+
MC9S08LC36LH	LQFP	64	36	2.5	36	2 / 12	2	I2C, SCI, SPI	18	20	No/No	LCD Controller,COP,ICE,KBI,LVI,Real-Time Clk	SMD 133-6809	4.40	3.22	2.65
MC9S08LC60LH	LQFP	64	60	4	60	2 / 12	2	I2C, SCI, SPI	18	20	No/No	LCD Controller,COP,ICE,KBI,LVI,Real-Time Clk	SMD 133-6811	6.82	4.50	3.91
MC9S08LC36LK	LQFP	80	36	2.5	36	8 / 12	2	I2C, SCI, SPI	24	20	No/No	LCD Controller,COP,ICE,KBI,LVI,Real-Time Clk	SMD 133-6810	4.56	3.33	2.75
MC9S08LC60LK	LQFP	80	60	4	60	8 / 12	2	I2C, SCI, SPI	24	20	No/No	LCD Controller,COP,ICE,KBI,LVI,Real-Time Clk	SMD 133-6813	4.27	3.67	3.22

HCS08 - QA Series

New

Features Include:
- HCS08 CPU Core
- Background Debug System
- On-chip in-circuit programmable FLASH
- Internal Clock Generator
- Power-saving options
- 10-bit Analog-to-Digital Converter (ADC)
- 1 Timer/PWMs
- Extensive Serial Communications
- System Protection
- Four GPIOs

524845

Mftrs. List No.	Pkg	Pins	Flash (KB)	RAM (KB)	EEPROM (Byte)	ADC Channels/Bits	Timer Channels	Interface Type	I/O Pins	Bus Freq MHz	USB/CAN	Addtional Features	Order Code	Price Each 1+	10+	100+
MC9S08QA2CDNE	SOIC	8	2	160	—	4 / 10	1	—	4	10	No/No	Analog Comparator,COP,KBI	SMD 162-2710	1.17	0.84	0.66
MC9S08QA4CDNE	SOIC	8	4	256	—	4 / 10	1	—	4	10	No/No	Analog Comparator,COP,KBI	SMD 162-2712	1.29	0.92	0.71
MC9S08QA4CPAE	PDIP	8	4	256	—	4 / 10	1	—	4	10	No/No	Analog Comparator,COP,KBI	162-2713	1.01	0.74	0.57

HCS08 - QD Series

Features Include:
- HCS08 CPU Core
- Background Debug System
- On-chip in-circuit programmable FLASH
- Internal Clock Generator
- Power-saving options
- 10-bit Analog-to-Digital Converter (ADC)
- 2 Timers/PWMs
- Extensive Serial Communications
- System Protection
- Four GPIOs

524848

Mftrs. List No.	Pkg	Pins	Flash (KB)	RAM (Byte)	EEPROM (Byte)	ADC Channels/Bits	Timer Channels	Interface Type	I/O Pins	Bus Freq MHz	USB/CAN	Addtional Features	Order Code	Price Each 1+	10+	100+
MC9S08QD2CPC	PDIP	8	2	128	0	4 / 10	2	—	4	8	No/No	Internal Clk Generator,LVD	NEW 157-9711	1.02	0.69	0.61
MC9S08QD2CSC	SOIC	8	2	128	0	4 / 10	2	—	4	8	No/No	Internal Clk Generator,LVD	NEW SMD 157-9712	0.99	0.66	0.58
MC9S08QD4CPC	DIP	8	4	256	0	4 / 10	2	—	6	8	No/No	LVD,Internal Clk Generator	129-4369	1.17	0.90	0.78
MC9S08QD4CSC	SOIC	8	4	256	0	4 / 10	2	—	6	8	No/No	LVD,Internal Clk Generator	SMD 129-4368	0.92	0.71	0.62
MC9S08QD4VPC	DIP	8	4	256	0	4 / 10	2	—	6	8	No/No	LVD,Internal Clk Generator,Watchdog OSC/Timer	129-4371	1.38	0.99	0.87
MC9S08QD4VSC	SOIC	8	4	256	0	4 / 10	2	—	6	8	No/No	LVD,Internal Clk Generator,Watchdog OSC/Timer	SMD 129-4370	1.31	0.96	0.83

HCS08 - Flexis™ QE Series

These devices are part of the Flexis™ series of microcontrollers that deliver the reality of 8-bit to 32-bit compatability. The Flexis™ series includes complimentary families of microcontrollers that have a common set of peripherals and development tools to deliver the ultimate in migration flexibility.

New

Features Include:
- HCS08 CPU Core
- Background Debug System
- Integrated Third-Generation FLASH Memory
- Internal Clock Generator
- Loop-control oscillator
- 12-bit Analog-to-Digital Converter (ADC)
- Up to 2 Timers/PWM
- Extensive Serial Communications
- System Protection
- Keyboard Interrupt (KBI)
- Up to 70 GPIOs

525319

Mftrs. List No.	Pkg	Pins	Flash (KB)	RAM (KB)	EEPROM (Byte)	ADC Channel/Bits	Timer Channels	Interface Type	I/O Pins	Bus Freq MHz	USB/CAN	Addtional Features	Order Code	Price Each 1+	10+	100+
MC9S08QE4CPG	PDIP	16	4	256	—	10 /	1	I2C, SCI, SPI	12	10	No/No	Analog Comparator,COP	156-1380	1.49	1.36	1.24
MC9S08QE4CTG	TSSOP	16	4	256	—	10 /	1	I2C, SCI, SPI	12	10	No/No	Analog Comparator,COP	SMD 156-1381	1.49	1.36	1.24
MC9S08QE8CPG	PDIP	16	8	512	—	10 /	1	I2C, SCI, SPI	12	10	No/No	Analog Comparator,COP	156-1385	1.74	1.34	1.17
MC9S08QE8CTG	TSSOP	16	8	512	—	10 /	1	I2C, SCI, SPI	12	10	No/No	Analog Comparator,COP	SMD 156-1386	1.74	1.34	1.17
MC9S08QE4CWJ	SOIC	20	4	256	—	10 /	2	I2C, SCI, SPI	16	10	No/No	Analog Comparator,COP	SMD 156-1382	1.56	1.43	1.29
MC9S08QE8CWJ	SOIC	20	8	512	—	10 /	2	I2C, SCI, SPI	16	10	No/No	Analog Comparator,COP	SMD 156-1387	1.80	1.38	1.20
MC9S08QE4CWL	SOIC	28	4	256	—	10 /	2	I2C, SCI, SPI	22	10	No/No	Analog Comparator,COP	SMD 156-1383	1.60	1.24	1.06
MC9S08QE8CWL	SOIC	28	8	512	—	10 /	2	I2C, SCI, SPI	22	10	No/No	Analog Comparator,COP	SMD 156-1389	1.85	1.68	1.54
MC9S08QE4CLC	LQFP	32	4	256	—	10 / 12	2	I2C, SCI, SPI	26	10	No/No	Analog Comparator,COP	SMD 156-1379	1.63	1.49	1.36
MC9S08QE8CLC	LQFP	32	8	512	—	10 / 12	2	I2C, SCI, SPI	26	10	No/No	Analog Comparator,COP	SMD 156-1384	1.85	1.68	1.54
MC9S08QE128CLH	LQFP	64	128	8	—	24 / 12	3	I2C, SCI, SPI	54	25	No/No	Analog Comparator,COP	SMD 156-1391	5.38	4.15	3.62
MC9S08QE64CLH	LQFP	64	64	4	—	24 / 12	3	I2C, SCI, SPI	54	25	No/No	Analog Comparator,COP	SMD 156-1393	4.64	3.58	3.13
MC9S08QE128CLK	LQFP	80	128	8	—	24 / 12	3	I2C, SCI, SPI	70	25	No/No	Analog Comparator,COP	SMD 156-1392	5.69	4.40	3.83

HCS08 - QG Series

Features Include:
- HCS08 CPU Core
- Background Debug System
- On-chip in-circuit programmable FLASH
- Internal Clock Generator
- Power-saving options
- 10-bit Analog-to-Digital Converter (ADC)
- 2 Timers/PWMs
- Extensive Serial Communications
- System Protection

525300

Mftrs. List No.	Pkg	Pins	Flash (KB)	RAM (Byte)	EEPROM (Byte)	ADC Channels/Bits	Timer Channels	Interface Type	I/O Pins	Bus Freq MHz	USB/CAN	Addtional Features	Order Code	Price Each 1+	10+	100+
MC9S08QG4CDNE	NSOIC	8	4	256	—	4 / 10	2	I2C, SCI, SPI	4	10	No/No	LVD,Watchdog OSC/Timer	SMD 102-4055	1.59	1.33	1.06
MC9S08QG4CFQE	DFN	8	4	256	—	4 / 10	2	I2C, SCI, SPI	4	10	No/No	LVD,Watchdog OSC/Timer	SMD 102-4054	1.60	1.32	1.06
MC9S08QG4CPAE	DIP	8	4	256	—	4 / 10	2	I2C, SCI, SPI	4	10	No/No	LVD,Watchdog OSC/Timer	102-4056	1.56	1.31	1.04
MC9S08QG8CDNE	NSOIC	8	8	512	—	4 / 10	2	I2C, SCI, SPI	4	10	No/No	LVD,Watchdog OSC/Timer	SMD 102-4051	1.12	0.94	0.75
MC9S08QG4CDTE	TSSOP	16	4	256	—	8 / 10	2	I2C, SCI, SPI	12	10	No/No	LVD,Watchdog OSC/Timer	SMD 102-4052	1.66	1.38	1.12
MC9S08QG4CFFE	QFN	16	4	256	—	8 / 10	2	I2C, SCI, SPI	12	10	No/No	LVD,Watchdog OSC/Timer	SMD 102-4053	1.94	1.51	1.31
MC9S08QG8CDTER	TSSOP	16	8	512	—	8 / 10	2	I2C, SCI, SPI	12	10	No/No	LVD,Watchdog OSC/Timer	NEW SMD 157-9713 RL	2.02	1.31	1.22
MC9S08QG8CDTE	TSSOP	16	8	512	—	8 / 10	2	I2C, SCI, SPI	12	10	No/No	LVD,Watchdog OSC/Timer	SMD 102-4046	1.77	1.46	1.17
MC9S08QG8CFFE	QFN	16	8	512	—	8 / 10	2	I2C, SCI, SPI	12	10	No/No	LVD,Watchdog OSC/Timer	SMD 102-4047	2.32	1.79	1.56
MC9S08QG8CPBE	DIP	16	8	512	—	8 / 10	2	I2C, SCI, SPI	12	10	No/No	LVD,Watchdog OSC/Timer	102-4044	1.67	1.38	1.11

RL Re-reeling available

Microcontrollers and Microprocessors - 8-Bit - FREESCALE - continued

HCS08 - R Series

Features Include:
- HCS08 CPU Core
- Background Debug System
- On-chip in-circuit programmable FLASH
- Internal Clock Generator
- Power-saving options
- 1 Timer/PWMs
- Extensive Serial Communications
- System Protection
- Up to 39 GPIOs

525302

Mftrs. List No.	Pkg	Pins	Flash (KB)	RAM (KB)	EEPROM (Byte)	ADC Channels/Bits	Timer Channels	Interface Type	I/O Pins	Bus Freq MHz	USB/CAN	Addtional Features	Order Code	Price Each 1+	10+	100+
MC9S08RG32CFGE	LQFP	64	32	2	—	—	8	SCI, SPI	56	8	No/No	LVD,Real-Time Clock	SMD 133-6815	6.98	5.58	4.64
MC9S08RG60CFGE	LQFP	64	60	2	—	—	8	SCI, SPI	56	8	No/No	Analog Comparator	SMD 133-6816	8.70	6.96	5.81

HCS08 - SH Series

New

Features Include:
- HCS08 CPU Core
- Background Debug System
- On-chip in-circuit programmable FLASH
- Internal Clock Generator
- Power-saving options
- 3 Timers/PWMs
- 10-bit Analog-to-Digital Converter (ADC)
- Extensive Serial Communications
- System Protection
- Up to 23 GPIOs

525303

Mftrs. List No.	Pkg	Pins	Flash (KB)	RAM (Byte)	EEPROM (Byte)	ADC Channels/Bits	Timer Channels	Interface Type	I/O Pins	Bus Freq MHz	USB/CAN	Addtional Features	Order Code	Price Each 1+	10+	100+
MC9S08SH4CTG	TSSOP	16	4	256	—	12 / 10	3	I2C, SCI, SPI	13	20	No/No	Analog Comparator,COP,Int Clk Generator,Int Voltage Reg, LVD	SMD 162-2719	1.20	0.87	0.67
MC9S08SH8CTG	TSSOP	16	8	512	—	8 / 10	3	I2C, SCI, SPI	13	20	No/No	Analog Comparator,COP,Int Clk Generator,Int Voltage Reg, LVD	SMD 162-2721	1.33	0.97	0.74
MC9S08SH4CTJ	TSSOP	20	4	256	—	12 / 10	3	I2C, SCI, SPI	17	20	No/No	Analog Comparator,COP,Int Clk Generator,Int Voltage Reg, LVD	SMD 162-2720	1.26	0.92	0.70
MC9S08SH8CTJ	TSSOP	20	8	512	—	12 / 10	3	I2C, SCI, SPI	17	20	No/No	Analog Comparator,COP,Int Clk Generator,Int Voltage Reg, LVD	SMD 162-2722	1.39	1.01	0.76
MC9S08SH16CTL	TSSOP	28	16	1024	—	12 / 10	3	I2C, SCI, SPI	23	20	No/No	Int Clk Generator,Int Voltage Reg, LVD	SMD 162-2714	1.94	1.41	1.06
MC9S08SH16CWL	SOIC	28	16	1024	—	12 / 10	3	I2C, SCI, SPI	23	20	No/No	Analog Comparator,COP,Int Clk Generator,Int Voltage Reg, LVD	SMD 162-2715	1.92	1.38	1.08
MC9S08SH32CTL	TSSOP	28	32	1024	—	12 / 10	3	I2C, SCI, SPI	23	20	No/No	Int Clk Generator,Int Voltage Reg, LVD	SMD 162-2716	2.17	1.58	1.19
MC9S08SH32CWL	SOIC	28	32	1024	—	12 / 10	3	I2C, SCI, SPI	23	20	No/No	Analog Comparator,COP,Int Clk Generator,Int Voltage Reg, LVD	SMD 162-2718	2.14	1.56	1.18

Microcontrollers and Microprocessors - 8-Bit - FUJITSU

F²MC-8FX Emulation System

New



The F²MC-8FX emulation system consists of the MCU emulator, MCU board and either the MCU evaluation board or the MCU header board and user target system.
The evaluation board is used as an emulator target board for the MB2146-09 emulator.
The MB2146-303A-E is an MCU board, onto which an F²MC-8FX MCU can be mounted for evaluation.
The header boards are used to connect the F²MC-8FX MCU board to a user system with 30-pin SSOP, 52-pin LQFP, 64-pin LQFP, 100-pin QFP package types.

526396

Mftrs. List No.	Description	Order Code	Price Each
MB2146-401	MB2146-09 Emulator Evaluation Board	167-4643	253.02
MB2146-303A-E	F²MC-8FX MCU Board	167-4642	581.94
MB2146-271	F²MC-8FX Header Board - SSOP-30	167-4635	253.02
MB2146-260	F²MC-8FX Header Board - LQFP-52	167-4636	253.02
MB2146-221	F²MC-8FX Header Board - LQFP-64	167-4637	253.02
MB2146-251	F²MC-8FX Header Board - QFP-100	167-4639	253.02

F²MC-8FX Series Emulator

New



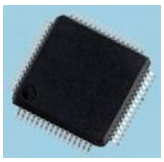
Features Include:
- USB communication interface
- 256 code / 2 data event breakpoints
- Connected to target system via BGM user interface connector
- Sequential breakpoints (2 levels)
- Trace function

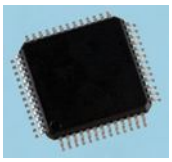
The MB2146-09 emulator for F²MC-8FX series of microcontrollers offers the ability to emulate microcontrollers operating at a voltage starting at 2.7V. In addtion the emulator supports sophisticated debugging features including, multi-level breakpoints, bit-level event trigger capabilities and high level language support.

526397

Mftrs. List No.	Description	Order Code	Price Each
MB2146-09A-E	MB2146-09 Emulator	167-4641	160.67

F²MC-8FX Family - MB951xx Series 8-Bit Microcontrollers









This F_2MC-8FX familiy of 8-bit Flexible Microcontrollers, deliver a rich set of on-chip peripheral resources combined with a high-performance CPU core suitable to cover a variety of applications. The wide product line features FLASH/ROM/RAM variations, general-purpose basic resources, and enhanced application-specific resources with reinforced functions.

Features include:
- F_2MC-8FX CPU core
- Low-power consumption (standby) mode
- Programmable input voltage levels of port
  -Automotive input level / CMOS input level / hysteresis input level
- Flash memory security function
  -Protects the content of Flash memory (Flash memory devices only)

486257

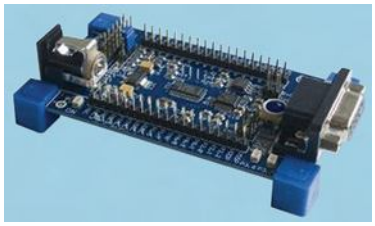
Mftrs. List No.	Pins/ Package	FLASH	RAM	Clock Frequency (MHz)	I/O Pins	Operating Temperature	Order Code	Price Each 1+	10+	100+
MB95F133JBSPFV-GE1	30/SSOP	8KB	256Byte	16.25	20	-40°C to +85°C	NEW SMD 167-4622	2.09	1.81	1.39
MB95F134JBSPFV-GE1	30/SSOP	16KB	512Byte	16.25	20	-40°C to +85°C	NEW SMD 167-4623	2.32	2.02	1.55
MB95F114JSPMC-GE1	52/LQFP	16KB	512Byte	16	39	-40°C to 85°C	SMD 144-8269	1.86	1.56	1.33
MB95F104AJSPMC-GE1	64/LQFP	16KB	512Byte	16.25	54	-40°C to +85°C	NEW SMD 167-4627	2.81	2.44	1.88
MB95F136JSPFV-GE1	28/SOP	32KB	1KB	16	20	-40°C to 85°C	SMD 144-8264	1.96	1.63	1.40
MB95F136JBSPFV-GE1	30/SSOP	32KB	1KB	16.25	20	-40°C to +85°C	NEW SMD 167-4624	2.55	2.22	1.70
MB95F116JSPMC-GE1	52/LQFP	32KB	1KB	16	39	-40°C to 85°C	SMD 144-8268	2.33	1.95	1.67
MB95F126JBPFR-GE1	100/QFP	32KB	1KB	16.25	87	-40°C to +105°C	NEW SMD 167-4629	5.36	4.66	3.57
MB95F118JSPMC-GE1	52/LQFP	60 KB	2KB	16	39	-40°C to 85°C	SMD 144-8267	2.62	2.19	1.87
MB95F118JSPMCR-GE1	52/LQFP	60KB	2KB	16.25	39	-40°C to +85°C	NEW SMD 167-4625	3.53	3.07	2.35
MB95F108JSPFM-GE1	64/QFP	60 KB	2KB	16	54	-40°C to 85°C	SMD 144-8270	2.88	2.41	2.06
MB95F108AJSPMC-GE1	64/LQFP	60KB	2KB	16.25	54	-40°C to +85°C	NEW SMD 167-4628	3.79	3.30	2.52
MB95F128JBPFR-GE1	100/QFP	60KB	2KB	16.25	87	-40°C to +105°C	NEW SMD 167-4630	6.57	5.71	4.38

RL Re-reeling available

Farnell

Microcontrollers and Microprocessors - 8-Bit - INFINEON

SK-XC866 Easy Kit



Features:
- Interfaces: RS232 port, 2 x CAN, LIN, JTAG connector, motor control connector and SBC board connector
- Potentiometer and 8 LEDs
- Comprehensive documentation

The SK-XC866 Easy Kit provides users with a complete development platform that includes all hardware and software tools to develop and debug designs based on the XC866 microcontroller.
The kit includes evaluation versions of the iVision3 Keil software and the Hitex HiTOP5 IDE. Both take advantage of the MCU's embedded in-circuit emulator and JTAG interface to support advanced debugging features, including single stepping, program tracing and advanced breakpoints. Infineon's DAvE (Digital Application virtual Engineer) software provides an expert wizard to automatically configure the system and kick-start application development.

451569

	Order Code	Price Each
SK-XC866 EASY KIT	129-6189●	58.09

XC866 High Performance 8-bit Microcontroller

The XC866 is a member of the XC800 Family of advanced 8-bit microcontrollers. They combine a high performance 8051 core with on-chip Flash and ROM memory as well as a powerful mix of peripherals. Additional key features of the XC866 family of products include support for LIN (Local Interconnected Network), an enhanced CAPCOM6E unit for flexible PWM generation and a new 10-Bit ADC with extended functionality (e.g. comparator mode). The XC866, with its extensive peripheral set is well suited to a wide range of different applications such as industrial motor control, automotive body and consumer drive.

Features
- Programmable 16-Bit Watchdog Timer (WDT)
- Power saving modes of operation
- On-chip debug support (JTAG)
- Brown-out detection for core logic supply
- Temperature range: -40°C to +125°C

451536

Mftrs. List No.	Pins/ Package	Internal OTP Size	Internal RAM Size	Counter (16-bit) (16-bit)	I/O Lines	Serial Interfaces	Order Code	Price Each 1+	10+	100+
SAK-XC866-4FRI	TSSOP/38	16KB	0.75KB	3	27	1xUART, 1xSSC	SMD 147-2750●	2.96	2.46	1.98
SAK-C868-1SR	TSSOP/38	0.0KB	8.25KB	3	18	1xUART	SMD 147-2747●	1.65	1.38	1.21

C500 8-Bit Single-Chip Microcontroller

The C505CA provides full CAN version 2.0B integrated On-Chip with high performance, optimized Electro Magnetic Compatibility (EMC) behavior and fast communication between decentralized sensors, actuators and the host. The device provides 32 KByte of OTP or 16/32 KByte of ROM, 256 Byte of RAM, 1 KByte of XRAM, Controller Area Network (CAN) Version 2.0B, an asynchronous/synchronous serial interface and highly accurate 10-bit Analog to Digital Converter (ADC) integrated on chip. With an external clock rate of 20 MHz, the C505CA has an instruction time of 300 ns. Typical applications for the C505CA are automotive body and industrial control.

496725

	Mftr.	Pins	Package	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
505	INF	44	MQFP	20MHz CMOS Microcontroller ROM less memory with CAN	SAF-C505CA-LM	SMD 147-2711●	7.55	6.30	5.52
505	INF	44	MQFP	20MHz CMOS Microcontroller 16kB OTP memory with CAN	SAK-C505CA-4EMCA	SMD 147-2746●	11.04	9.19	7.87
515	INF	80	MQFP	10MHz CMOS Microcontroller 64kB OTP memory with CAN	SAF-C515C-8EM	SMD 147-2712●	14.77	12.30	10.53

SAK-XC886/8 8-Bit Flash Microcontrollers

The XC886/888LM enhances the XC800 family of 8-bit μCs with a new member providing advanced motor drive capability by combining up to 32 KByte of embedded Flash with a powerful capture compare unit (CCU6) for flexible PWM generation and the new Multiplication/Division Unit (MDU) for fast mathematical computations. Additional key features include support for LIN, a highly accurate 10-bit ADC with fast conversion speed and a COrdinate Rotation Digital Computer (CORDIC) unit. The flexibility offered by the XC886/888LM embedded Flash products is also expanded to include a family of compatible ROM versions for further cost saving potential in high volume production. The XC886/888LM family offers an optimized fit to a wide range of motor control applications including automotive body,industrial motor control and consumer drive.

496721

Mftr.	Pins	Package	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
INF	48	TQFP	8-bit Microcontroller, 24KB FLASH.	SAK-XC886-6FFA	SMD 147-2751●	4.10	3.43	2.74
INF	48	TQFP	8-bit Microcontroller, 32KB FLASH.	SAK-XC886-8FFA	SMD 147-2752●	4.60	3.83	3.07
INF	48	TQFP	8-bit Microcontroller, 32KB FLASH, CAN Module	SAK-XC886C-8FFA	SMD 147-2753●	5.13	4.27	3.43
INF	48	TQFP	8-bit Microcontroller, 32KB FLASH, CAN Module, LIN BSL Support, MDU Module.	SAK-XC886CLM-8FFA	SMD 147-2754●	5.52	4.60	3.68
INF	48	TQFP	8-bit Microcontroller, 32KB FLASH, CAN Module, MDU Module	SAK-XC886CM-8FFA	SMD 147-2755●	5.43	4.51	3.62
INF	48	TQFP	8-bit Microcontroller, 24KB FLASH, LIN BSL Support, MDU Module	SAK-XC886LM-6FFA	SMD 147-2757●	4.48	3.72	3.00
INF	48	TQFP	8-bit Microcontroller, 32KB FLASH, LIN BSL Support, MDU Module	SAK-XC886LM-8FFA	SMD 147-2758●	4.57	3.81	3.05
INF	64	TQFP	8-bit Microcontroller, 24KB FLASH.	SAK-XC888-6FFA	SMD 147-2759●	4.48	3.72	3.00
INF	64	TQFP	8-bit Microcontroller, 32KB FLASH.	SAK-XC888-8FFA	SMD 147-2760●	4.68	3.90	3.13
INF	64	TQFP	8-bit Microcontroller, 32KB FLASH, CAN Module	SAK-XC888C-8FFA	SMD 147-2761●	5.57	4.64	3.71
INF	64	TQFP	8-bit Microcontroller, 32KB FLASH, CAN Module, LIN BSL Support, MDU Module.	SAK-XC888CLM-8FFA	SMD 147-2762●	5.43	4.51	3.62
INF	64	TQFP	8-bit Microcontroller, 32KB FLASH, CAN Module, MDU Module	SAK-XC888CM-8FFA	SMD 147-2763●	5.32	4.44	3.55
INF	64	TQFP	8-bit Microcontroller, 24KB FLASH, LIN BSL Support, MDU Module	SAK-XC888LM-6FFA	SMD 147-2764●	4.44	3.70	2.96
INF	64	TQFP	8-bit Microcontroller, 32KB FLASH, LIN BSL Support, MDU Module	SAK-XC888LM-8FFA	SMD 147-2765●	4.72	3.94	3.15

Microcontrollers and Microprocessors - 8-Bit - MAXIM

8-bit Microcontrollers

210789

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
80C310	MAX	40	DIP	8-Bit CMOS CPU, 256 bytes RAM - 25MHz	DS80C310-MCG	700-617▲	4.53	4.41	4.30
80C310	MAX	44	PLCC	8-Bit CMOS CPU, 256 bytes RAM - 25MHz	DS80C310-QCG	SMD 700-629▲	5.37	5.22	5.09
80C320	MAX	40	DIP	8-Bit CMOS CPU, 256 bytes RAM - 25MHz	DS80C320+MCG	972-5873●	9.05	7.28	6.41
80C320	MAX	40	DIP	8-Bit CMOS CPU, 256 bytes RAM - 25MHz (IND TEMP)	DS80C320-MNG	700-605▲	10.59	8.73	6.84
80C320	MAX	44	PLCC	8-Bit CMOS CPU, 256 bytes RAM - 25MHz	DS80C320+QCG	SMD 972-6250●	10.99	8.85	7.78
80C320	MAX	40	DIP	High-Speed/Low-Power Microcontrollers	DS80C320-MNG+	137-9839●	16.98	11.54	6.82
87C520	MAX	44	PLCC	8-Bit CMOS CPU, 16Kb OTP PROM, 256 bytes RAM - 33MHz	DS87C520-QCL+	SMD 130-6345●	22.16	17.84	14.77
87C520	MAX	40	DIP	8-Bit CMOS CPU, 16Kb OTP PROM, 256 bytes RAM - 33MHz, Plastic	DS87C520+MCL	972-6349●	29.81	24.37	18.50
87C520	MAX	40	DIP	8-Bit CMOS CPU, 16Kb EPROM, 256 bytes RAM - 33MHz	DS87C520-WCL	787-206▲	43.12	35.28	27.88
89C450	MAX	40	PDIP	8bit MCU with 64K Flash, 25MHz	DS89C450-MNG+	NEW 160-6352●	12.95	9.42	7.39
89C450	MAX	40	PDIP	8bit MCU with 64K Flash, 33MHz	DS89C450-MNL+	NEW 160-6353●	15.69	11.40	8.96

RL Re-reeling available

Farnell

Microcontrollers and Microprocessors - 8-Bit - NEC

Low Pin Count - Do It! Demonstration Kit

NEC



The Low Pin Count - Do it! Is a demonstration kit for the NEC's 78K0S Low Pin Count microcontrollers. It supports onboard FLASH programming and real time execution of application programs up to 4 kBytes based on the 78K0S/KA1+ Low Pin Count microcontroller. The board is prepared to be connected to user hardware parts such as digital I/O or analogue signals.

Main Features:
- Easy to use device demonstration capabilities
- Powered via USB interface
- PG-LPC, FLASH programming software
- Analogue to digital signal conversion is supported
- Various input / output signals available

493714

Mftrs List No.	Description	Order Code	Price Each
LPC-DOIT	Low Pin Count - Do It! Demonstration Kit	129-7150	28.62

L_Line - See it! Demonstration Kit

NEC



The L_Line - See it! Is a demonstration kit for the NEC's L_Line 8-Bit microcontroller family with integrated LCD controller. It supports onboard FLASH programming and real time execution of application programs up to 4 kBytes of program code. The board is prepared to be connected to user hardware partssuch as digital I/O or analogue signals.

Main Features:
- Easy to use device demonstration capabilities
- On-Board debug function
- Flexible power supply
- LCD panel
- FPL3, FLASH programming software
- Analogue to digital signal conversion is supported
- Various input / output signals available

493749

Mftrs List No.	Description	Order Code	Price Each
L-LINE-SEEIT	L Line - See It! Demonstration Kit	129-7151	28.69

£ € 40,000 PRICES REDUCED

78K0/Fx2 - CAN it! Starter Kit

NEC

New



The CAN it! is a demonstration kit for the 78K0 F_Series microcontroller. It supports on-board debugging, flash programming and real time execution of application programs based on the 78K0/FF2 microcontroller.

Features Include:
- On-Board debug function
- Power supply via USB interface
- Character LCD module
- FPL3, flash programming software
- Analog to digital signal conversion is supported
- Various input / output signals available
- Full documentation

Kit Contents:
- Demonstration board
- PC connection via USB
- LCD display
- Temperature sensor
- Daughter board
- 78K0/FF2 Microcontroller
- CAN transceiver
- USB cable
- IAR Embedded Workbench (size limited)

526267

Mftrs. List No.	Description	Order Code	Price Each 1+
78K0FX2-CANIT	78K0/Fx2 - CAN it! Starter Kit	150-2859	81.56

78K0/Lx3 - See it! Starter Kit

NEC

New



The See it! is a starter kit for the 78K0 L_Series 8-bit microcontroller. The kit has an integrated LCD controller and supports on-board debugging, flash programming and real time execution of application programs based on the 78K0/LF3 microcontroller.

Features Include:
- TK-78 debugging
- OCD debugging
- Flexible power supply
- LCD panel
- WriteEZ3, flash programming software
- Various input / output signals available
- Full documentation

Kit Contents:
- Demonstration board
- 78K0/LF3 Microcontroller
- 224 segment LCD
- Temperature & light sensors
- PC connection via USB
- Prototyping space
- USB cable
- IAR Embedded Workbench (size limited)

526271

Mftrs. List No.	Description	Order Code	Price Each 1+
78K0LX3-SEEIT	78K0/Lx3 - See it! Starter Kit	150-2860	131.02

78K0/FX2 Series Microcontrollers

NEC

New

Based on the 8-bit 78K0 core, the 8-bit 78K0/Fx2 all flash microcontrollers offer reliability, networking protocol support, real-time performance, secure self-programming, and integrated functionality for automotive body and safety applications.
These devices use SuperFlash® technology. Based on the target application, all products support the CAN and LIN protocol.

Applications:
- Automotive
- Junction boxes
- Door modules
- Lighting modules

496468

Mftrs. List No.	Pins/ Package	Flash Memory	Internal RAM	I/O Lines	Operating Freq (Max)	Operating Temperature	Order Code	Price Each 1+	10+	100+	250+	500+
UPD78F0890GK(A)-GAJ-AX	64/LQFP	128KB	7 KB	55	20MHz	-40°C to +85°C	SMD 167-4349	9.81	7.85	6.54	6.32	6.15
UPD78F0887GK-GAK-AX	64/LQFP	48KB	3 KB	55	20MHz	-40°C to +85°C	150-2854	6.48	5.30	4.49	4.16	3.89
UPD78F0881GB(A)-GAF-AX	44/LQFP	32KB	2 KB	37	20MHz	-40°C to +85°C	SMD 156-4473	4.78	3.92	3.32	3.08	2.88
UPD78F0883GB(A)-GAF-AX	44/LQFP	60 KB	3 KB	37	20MHz	-40°C to +85°C	156-4474	5.56	4.55	3.85	3.57	3.34
UPD78F0886GA(A)-GAM-AX	48/LQFP	60 KB	3 KB	41	20MHz	-40°C to +85°C	156-4475	5.89	4.81	4.08	3.78	3.53

78K0/Kx2 Series Microcontrollers

NEC

The 78K0/Kx2 Series is designed to lower the power consumption and cost through a dramatic reduction in the die size, made possible through the use of a fabrication process equivalent to 0.15 m.

Applications:
- Home Appliances
- Consumer Electronics
- Industrial Equipment
- Automotive Systems
- Lighting Systems
- Sensors

496463

Mftrs. List No.	Pins/ Package	Flash Memory	Internal RAM	I/O Lines	Operating Freq (Max)	Operating Temperature	Order Code	Price Each 1+	10+	100+	250+	500+
UPD78F0711MC-5A4-A	30/SSOP	8KB	768 Byte	15	20MHz	-40 to 85°C	SMD 129-7128	4.53	3.62	3.01	2.58	2.42
UPD78F0712MC-5A4-A	30/SSOP	16KB	768 Byte	15	20MHz	-40 to 85°C	SMD 129-7129	4.68	3.74	3.12	2.67	2.50
UPD78F0502MC(T)-5A4-A	30/SSOP	16KB	768 Byte	23	20MHz	-40 to 85°C	SMD 129-7116	3.39	2.71	2.25	1.94	1.81
UPD78F0714GK-9ET-A	64/TQFP	32KB	1 KB	54	20MHz	-40 to 85°C	SMD 129-7130	6.33	5.06	4.22	3.61	3.38
UPD78F0503DMC(T)-5A4A	30/SSOP	32KB	1 KB	23	20MHz	-40 to 85°C	SMD 129-7117	4.86	3.89	3.23	2.77	2.59
UPD78F0513GB(T)-UES-A	44/LQFP	32KB	1 KB	37	20MHz	-40 to 85°C	SMD 129-7121	4.01	3.20	2.67	2.30	2.14
UPD78F0545GK(T)-8EU-A	80/LQFP	60 KB	3 KB	71	20MHz	-40 to 85°C	SMD 129-7123	6.20	4.96	4.13	3.54	3.31
UPD78F0535GB(T)-UEU-A	64/LQFP	60 KB	3 KB	55	20MHz	-40 to 85°C	SMD 129-7124	5.61	4.49	3.73	3.20	3.00
UPD78F0547DGK(T)-8EU-A	80/LQFP	128KB	7 KB	71	20MHz	-40 to 85°C	SMD 129-7122	9.27	7.42	6.18	5.46	5.32
UPD78F0537DGA(T)-9EV-A	64/TQFP	128KB	7 KB	55	20MHz	-40 to 85°C	SMD 129-7125	8.34	6.67	5.84	5.68	5.54

RL Re-reeling available

Farnell

78K0/Lx3 Series Microcontrollers

NEC New

The 78K0/Lx3 microcontrollers provide a solution for applications with LCD readouts that require a low power consumption. This series of microcontrollers include LCD controllers/drivers on-chip, 16bit A/D and are easy to program.

Applications:
- Home Health Appliances
- HVAC
- Industrial Systems
- Household Appliances

526529

Mftrs. List No.	Pins/ Package	Flash Memory	Internal RAM	I/O Lines	ADC Channels	Operating Freq (Max)	Operating Temperature	Order Code	Price Each 1+	10+	100+	250+	500+
UPD78F0400GA-GAM-AX	48/LQFP	8KB	512 Byte	26	0	10MHz	-40°C to +85°C	SMD 150-2843	2.87	2.35	1.99	1.85	1.72
UPD78F0410GA-GAM-AX	48/LQFP	8KB	512 Byte	26	6	10MHz	-40°C to +85°C	SMD 150-2845	3.08	2.52	2.13	1.98	1.86
UPD78F0430GB-GAG-AX	52/LQFP	8KB	512 Byte	34	6	10MHz	-40°C to +85°C	SMD 150-2848	3.48	2.85	2.41	2.23	2.09
UPD78F0422GB-GAG-AX	52/LQFP	24KB	1024 Byte	34	0	10MHz	-40°C to +85°C	SMD 150-2847	3.52	2.88	2.44	2.26	2.11
UPD78F0413GA-GAM-AX	48/LQFP	32KB	1024 Byte	26	6	10MHz	-40°C to +85°C	SMD 150-2846	3.52	2.88	2.44	2.26	2.11
UPD78F0403GA-GAM-AX	48/LQFP	32KB	1024 Byte	26	0	10MHz	-40°C to +85°C	SMD 150-2844	4.61	3.77	3.19	2.97	2.77
UPD78F0433GB-GAG-AX	52/LQFP	32KB	1024 Byte	34	6	10MHz	-40°C to +85°C	SMD 150-2849	3.91	3.20	2.71	2.52	2.35

78K0S Series 8-bit Microcontrollers

NEC

Features:
- On-chip programmable low voltage indicator (LVI)
- Power-on clear (POC)
- Single-voltage, self-programming flash memory
- flash memory security protection

Applications:
- Home appliances
- Sensors
- Battery chargers
- Sub-microcontrollers for general-purpose use

4292109

Mftrs. List No.	Pins/ Package	Flash Memory	Internal RAM	I/O Lines	Operating Freq (Max)	Operating Temperature	Order Code	Price Each 1+	10+	100+	250+	500+
UPD78F9200MA-CAC-A	10/SSOP	1KB	128 Byte	8	10MHz	-40 to 85°C	SMD 129-7109	1.40	1.11	0.93	0.81	0.75
UPD78F9500MA-CAC-A	10/SSOP	1KB	128 Byte	8	10MHz	-40 to 85°C	NEW SMD 150-2835	1.52	1.24	1.06	0.98	0.92
UPD78F9210GR(T)-JJG-A	16/SSOP	1KB	128 Byte	14	10MHz	-40 to 85°C	SMD 129-7112	1.45	1.15	0.97	0.83	0.78
UPD78F9510GR-JJG-A	16/SOP	1KB	128 Byte	14	10MHz	-40 to 85°C	NEW SMD 150-2838	1.60	1.32	1.11	1.03	0.96
UPD78F9201MA-CAC-A	10/SSOP	2KB	128 Byte	8	10MHz	-40 to 85°C	SMD 129-7110	1.43	1.14	0.95	0.82	0.77
UPD78F9501MA-CAC-A	10/SSOP	2KB	128 Byte	8	10MHz	-40 to 85°C	NEW SMD 150-2836	1.54	1.27	1.07	0.99	0.93
UPD78F9511GR-JJG-A	16/SOP	2KB	128 Byte	14	10MHz	-40 to 85°C	NEW SMD 150-2841	1.62	1.33	1.12	1.04	0.98
UPD78F9221MC(T)-5A4-A	20/SSOP	2KB	128 Byte	17	10MHz	-40 to 85°C	SMD 129-7114	1.75	1.41	1.17	1.01	0.94
UPD78F9202MA-CAC-A	10/SSOP	4KB	128 Byte	8	10MHz	-40 to 85°C	SMD 129-7111	1.45	1.15	0.97	0.83	0.78
UPD78F9502MA-CAC-A	10/SSOP	4KB	128 Byte	8	10MHz	-40 to 85°C	NEW SMD 150-2837	1.59	1.31	1.10	1.02	0.96
UPD78F9212GR(T)-JJG-A	16/SSOP	4KB	128 Byte	14	10MHz	-40 to 85°C	SMD 129-7113	1.90	1.50	1.24	1.09	1.02
UPD78F9512GR-JJG-A	16/SOP	4KB	128 Byte	14	10MHz	-40 to 85°C	NEW SMD 150-2842	0.99	0.82	0.68	0.64	0.59
UPD78F9222MC(T)-5A4-A	20/SSOP	4KB	256 Byte	17	10MHz	-40 to 85°C	SMD 129-7115	1.84	1.47	1.22	1.05	0.98

Microcontrollers and Microprocessors - 8-Bit - NXP

210715

	Mftr.	Pins	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
80C31	NXP	40	8-Bit CMOS CPU, 128 bytes RAM - 16MHz	P80C31SBPN	120-509	2.08	1.41	1.01
80C32	NXP	40	8-Bit CMOS CPU, 256 bytes RAM - 16MHz (Low Voltage)	P80C32SBPN	121-071	2.08	1.41	1.01
80C32	NXP	44	8-Bit CMOS CPU, 256 bytes RAM - 33MHz. PLCC Package	P80C32UBAA	SMD 120-1265	1.96	1.34	1.01

80C188, 82C84

211006

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
82C84	INTS	18	DIP	CMOS Clock Generator and Driver, 25MHz	CP82C84AZ	121-6116	2.18	1.95	1.70	1.50	1.34

MCB900 Development/Evaluation Board For Philips 89LPC932

KEIL SOFTWARE UK



Keil MCB900 is a versatile and flexible evaluation board for the Philips P89LPC932. Its low price makes it ideal for student projects, CPU evaluation and general R & D. By using the industry-standard 8051 core, the P89LPC932 is programmed using the Keil µVISION2 8051 C development environment that combines source editing, compilation, in-system debugging, CPU simulation and FLASH programming into a single workbench. The on-board LED array and wire-wrap area allow easy access to the IO pins for hardware expansion.
To get started, a range of program examples are included that show how the powerful peripheral set can be used. These will build with the included 4K code-limited Keil µVISION2 8051 IDE so that the MCB900 can be up-and-running in minutes. Finished applications can then be programmed in the 8kbyte FLASH and the MCB900 becomes a dedicated controller card.

MCB900
Features:
- Keil µVISION2 industry-standard IDE for 8051 (4k CODE limit)
- LED array on Port 2 and wire-wrap area
- RS232 debugger interface
- FLASHMagic in-system FLASH programmer
- In-FLASH debugging with Keil ISD51
- Application examples
- Requires Windows 95/98/NT/ME/2K/XP and a free COM port
- Requires a suitable unregulated 9v PSU and RS232 cable

274594

Mftrs. List No.	Order Code	Price Each
MCB900	441-0233	53.40

P89LPC9xx Single-Chip MCUs

NXP

The **P89LPC9xx Series** are single-chip microcontrollers in low cost 8-pin packages. The high performance processor architecture executes instructions in two to four clocks at six times the rate of standard 80C51 devices.
Many system-level functions have been incorporated in order to reduce component count, board space and system cost.

Features include:
- Program security
- Brown-out detection
- Active low reset
- Power on reset
- Watchdog timer
- Internal RC
- Vdd with 5V tolerant I/O pins (2.4V ~ 3.6V)
- LED drive capability (20mA)
- Serial Flash in-circuit programming
- Byte erasable Flash (except 89LPC932)
- Schmitt trigger port inputs
- Second data pointer
- Operating temp. (40°C to 85°C)
- Configurable on-chip oscillator with frequency range & RC oscillator options

Microcontrollers and Microprocessors - 8-Bit - NXP - continued

P89LPC9xx Single-Chip MCUs - continued

DEVICE	FLASH (bytes)	RAM (bytes)	Analogue Comparators	Timers #	PWM	CCU	I/O	Serial Interface	Interrupts (Ext.)	Frequency (MHz)
89LPC901	1KB	128	1	4 x 16-bit	-	-	6	-	6 (1)	12
89LPC902	1KB	128	2	4 x 16-bit	-	-	6	-	6 (1)	7.3728
89LPC922	8KB	256	1	4 x 16-bit	-	-	18	UART, I²C	8 (1)	12
89LPC930	4 KB	256	2	4 x 16-bit	2ch 8-bit	-	26	UART, I²C, SPI	13 (1)	12
89LPC931	8KB	256	2	4 x 16-bit	2 ch 8-bit	4 ch	26	UART, I²C, SPI	15 (1)	12
89LPC9408	8 KB	256	2	2 x 16-bit	4 ch 8-bit	4 ch	23	EUART, I2C, SPI	8 (3)	18

343548

	Pins/Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
89LPC901	8 / DIP	8-Bit MCU, 1kB Flash, With anaLogue comparator, 2 keypad interrupt Inputs - 12MHz (IND TEMP)	P89LPC901FN.129	734-2500●	1.40	1.04	0.85
89LPC902	8 / DIP	8-Bit MCU, 1kB Flash, With 2 anaLogue comparators, 3 keypad interrupt Inputs - 7MHz (IND TEMP)	P89LPC902FN.129	734-2527●	1.43	1.07	0.85
89LPC922	20 / TSSOP	8-Bit MCU, 8kB Flash, With 2 anaLogue comparators, UART / I²C interfaces, 8 key-pad interrupt Inputs - 12MHz (IND TEMP)	P89LPC922FDH.129	SMC 108-5361●	2.80	2.14	1.71
89LPC930	28 / TSSOP	8-Bit MCU, 4kB Flash, With 2 anaLogue comparators, UART / I²C / SPI interfaces, 8 keypad interrupt Inputs - 12MHz (IND TEMP)	P89LPC930FDH.129	SMC 734-2594▲	2.86	2.14	1.71
89LPC931	28 / TSSOP	8-Bit MCU, 8kB Flash, With 2 anaLogue comparators, UART / I²C / SPI interfaces, 8 keypad interrupt Inputs - 12MHz (IND TEMP)	P89LPC931FDH.129	SMC 108-5362●	2.34	1.79	1.43
89LPC9408	64 / LQFP	8-Bit MCU,8K Flash	P89LPC9408FBD	SMC 129-4793●	4.23	2.88	2.14

LPC900 Series

Designed for applications that demand high integration and low cost over a wide range of performance requirements, these single chip microcontrollers integrate a number of system-level functions.
The P89LPC9401 also includes an integrated universal LCD driver.

496732

	Pins	Pkg	Flash	EEPROM	RAM	Timers	PWM ch	UART	I2C	SPI	ADC	DAC	Comparators	I/O Pins	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
89LPC9103	10	HVSON	1K		128B	4		1			4/8b	1/8b	1	8	P89LPC9103FTK	SMC 152-4652● RL	1.22	0.97	0.76
89LPC9107	14	TSSOP	1K		128B	4	2	1			4/8b	1/8b	1	10	P89LPC9107FDH	SMC 152-4654●	1.17	0.95	0.78
89LPC9107	14	DIP	1K		128B	4	2	1			4/8b	1/8b	1	10	P89LPC9107FN	152-4655●	0.98	0.79	0.68
89LPC912	14	TSSOP	1K		128B	4	1			1			2	12	P89LPC912FDH	SMC 152-4656●	1.24	0.96	0.69
89LPC913	14	TSSOP	1K		128B	4		1		1			2	12	P89LPC913FDH	SMC 152-4658●	1.34	1.04	0.75
89LPC915	14	TSSOP	2K		256B	4	1	1	1		4/8b	1/8b	2	12	P89LPC915HDH	SMC 152-4660●	1.43	1.15	0.99
89LPC916	16	TSSOP	2K		256B	4	1	1	1	1	4/8b	1/8b	2	14	P89LPC916FDH	SMC 152-4661●	1.53	1.23	1.06
89LPC917	16	TSSOP	2K		256B	4	2	1	1		4/8b	1/8b	2	14	P89LPC917FDH	SMC 152-4662●	1.12	0.90	0.83
89LPC920	20	TSSOP	2K		256B	4	2	1	1				2	18	P89LPC920FDH	SMC 152-4663●	1.88	1.28	0.92
89LPC922	20	DIP	8K		256B	4	2	1	1				2	18	P89LPC922FN	152-4664●	1.59	1.28	1.10
89LPC932	28	HVQFN	8K	512B	768B	5	CCU	1	1	1			2	26	P89LPC932A1FHN	SMC 152-4669●	1.85	1.48	1.36
89LPC933	28	TSSOP	4K		256B	4	2	1	1	1	4/8b	2x8b	2	26	P89LPC933FDH	SMC 152-4670●	2.08	1.44	1.07
89LPC934	28	TSSOP	8K		256B	4	2	1	1	1	4/8b	2x8b	2	26	P89LPC934FDH	SMC 152-4671●	2.32	1.58	1.18
89LPC935	28	PLCC	8K	512B	768B	5	CCU	1	1	1	2x4/8b	2x8b	2	26	P89LPC935FA	SMC 152-4672●	2.88	1.96	1.46
89LPC935	28	HVQFN	8K	512B	768B	5	CCU	1	1	1	2x4/8b	2x8b	2	26	P89LPC935FHN	SMC 152-4673●	1.92	1.52	1.35
89LPC936	28	PLCC	16K	512B	768B	5	CCU	1	1	1	2x4/8b	2x8b	2	26	P89LPC936FA	SMC 152-4674●	3.24	2.61	2.25
89LPC938	28	PLCC	8K	512B	768B	5	CCU	1	1	1	8/10b		2	26	P89LPC938FA	SMC 152-4676●	1.92	1.52	1.35
89LPC938	28	TSSOP	8K	512B	768B	5	CCU	1	1	1	8/10b		2	26	P89LPC938FDH	SMC 152-4678●	2.66	1.84	1.37
89LPC9401	64	LQFP	8K		256B	4	2	1	1	1			2	23	P89LPC9401FBD	SMC 152-4679●	3.31	2.39	1.78

P87LPC761/760

Designed for applications that demand low voltage, high integration, and low cost, the LPC700 series uses a high performance 6-clock 80C51 that executes instructions at twice the rate of the standard 80C51.

496731

	Pins	Pkg	OTP/ ROM	RAM	Timers	I2C	Comparators	I/O Pins	Freq (Mhz)	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
87LPC760	14	DIP	1K	128B	2	1	2	12	20	P87LPC760BN	152-4649●	1.60	1.29	1.12
87LPC761	16	DIP	2K	128B	2	1	2	14	20	P87LPC761BN	152-4650●	1.99	1.45	1.04

87LPC

The 87LPC microcontroller family features include:

- C51 compatible
- 2.7V to 6V operating range
- Brownout detection
- Twice the 8051 execution time
- Two 16-bit counters/timers
- Two analogue comparators
- Full duplex UART
- I²C comms port
- Watchdog timer
- Active low reset
- Configurable oscillator
- LED drive capability
- Up to 18 I/Os

210926

	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
87LPC762	20	DIP	8-Bit CMOS CPU, 2Kb OTP PROM, 128 bytes RAM, Low Power - 20 MHz	P87LPC762BN	386-3591●	2.33	1.90	1.47
87LPC764	20	DIP	8-Bit CPU, 4Kb OTP PROM, 128 bytes RAM - 20MHz	P87LPC764BN	309-5733●	2.35	1.60	1.19
87LPC764	20	DIP	8-Bit CMOS CPU, 4Kb OTP PROM, 128 bytes RAM, Low Power - 20 MHz (IND TEMP)	P87LPC764FN	386-3633●	2.81	1.91	1.42

80C51 Rx2 Family

Designed for real-time applications, these 8-bit microcontrollers are used in a variety of applications, from consumer products and computer peripherals to automotive systems.

496733

	Pins	Pkg	Flash	RAM	I/O Pins	Operating Voltage	Freq Range (MHz)		Mftrs. List No.	Order Code	Price Each 1+	10+	100+
89LV51	40	DIP	32K	1K	32	3	0-16/33	4 Timers, PWM, WD, UART, SPI	P89LV51RC2BN	SMC 152-4680●	3.44	2.76	2.39
89LV51	40	DIP	64K	1K	32	3	0-16/33	4 Timers, PWM, WD, UART, SPI	P89LV51RD2BN	SMC 152-4681●	4.53	3.64	3.15
89V51	44	PLCC	16K	1K	32	5	0-20/40	4 Timers, PWM, WD, UART, SPI	P89V51RB2FA	SMC 152-4682●	4.78	3.25	2.63
89V51	40	DIP	16K	1K	32	5	0-20/40	4 Timers, PWM, WD, UART, SPI	P89V51RB2FN	152-4683●	4.43	3.38	2.73
89V51	40	DIP	32K	1K	32	5	0-20/40	4 Timers, PWM, WD, UART, SPI	P89V51RC2FN	152-4684●	5.28	3.59	2.90
89V51	40	DIP	64K	1K	32	5	0-20/40	4 Timers, PWM, WD, UART, SPI	P89V51RD2BN	SMC 152-4685●	4.61	3.70	3.20
89V51	44	PLCC	64K	1K	32	5	0-20/40	4 Timers, PWM, WD, UART, SPI	P89V51RD2FA	SMC 152-4687●	5.81	3.96	3.20

RL Re-reeling available

8-bit Microcontrollers

210800

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
8751											
87C51	NXP	44	PLCC	8-Bit CMOS CPU, 8Kb OTP PROM, 256 bytes RAM - 16MHz. (Low Voltage)	P87C51FA-4A	SMD 108-5237●	7.52	5.18	2.94	– –	– –
87C51	NXP	40	DIP	8-Bit CMOS CPU, 8Kb OTP ROM, 512 bytes RAM - 16 MHz	P87C51FA-4N	386-3529●	5.59	3.81	3.25	– –	– –
87C51	NXP	40	DIP	8-Bit CMOS CPU, 16Kb OTP PROM, 256 bytes RAM - 16MHz. (Low Voltage)	P87C51FB-4N	121-137●	6.95	4.74	4.39	– –	– –
87C51	NXP	44	PLCC	8-Bit CMOS CPU, 32Kb OTP PROM, 512 bytes RAM, ProgrammableTimer, H'ware watchdog timer - 16MHz	P87C51RC+4A	SMD 120-1260●	4.67	3.78	3.68	3.58	3.49
87C51	NXP	44	PLCC	8-Bit CMOS CPU, 8Kb OTP PROM, 512 bytes RAM, Programmable Timer, H/ware watchdog timer - 16MHz	P87C51RA+4A	SMD 108-5269●	7.89	6.67	5.50	4.46	4.06
87C51	NXP	44	PLCC	8-Bit CMOS CPU, 64Kb OTP PROM, 1024 bytes RAM, ProgrammableTimer, H/ware watchdog timer - 16MHz	P87C51RD+4A	SMD 108-5271●	8.38	6.51	5.13	4.47	4.35
87C51	NXP	40	DIP	8-Bit CMOS CPU, 4Kb OTP PROM, 128 bytes RAM - 16MHz. (Low Voltage)	P87C51SBPN	121-101●	2.61	1.78	1.32	– –	– –

210544

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
87C52	NXP	44	PLCC	8-Bit CMOS CPU, 8Kb OTP PROM, 256b RAM - 16MHz	P87C52SBAA	SMD 120-1253●	3.51	2.19	1.62
87C52	NXP	44	PLCC	8-Bit CMOS CPU, 8Kb OTP PROM, 256b RAM - 16MHz	P87C52SBAA	SMD 120-1253●	3.51	2.19	1.62
87C52	NXP	40	DIP	8-Bit CMOS CPU, 8Kb OTP PROM, 256b RAM - 16MHz (Low Voltage)	P87C52SBPN	121-150●	3.32	2.37	1.78
87C52	NXP	44	PLCC	8-Bit CMOS CPU, 8Kb OTP PROM, 256b RAM - 33MHz	P87C52UBAA	SMD 120-1254●	2.93	2.00	1.69
87C52	NXP	40	DIP	8-Bit CMOS CPU, 8Kb OTP PROM, 256b RAM - 33MHz	P87C52UBPN	120-583●	4.53	3.19	1.86

210545

	Pins	Pins	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	+
87C552	68	PLCC	8-Bit CMOS CPU, 8Kb OTP ROM, 256 bytes RAM, Low Voltage - 16 MHz (IND TEMP)	P87C552SFAA,512	SMD 120-1287●	26.07	20.16	13.52	– –
80C592	68	PLCC	8-Bit CMOS CPU With CAN, 512 bytes RAM - 16 MHz	P80C592FFA/00,512	SMD 108-5276●	16.74	14.32	11.26	– –

Microcontrollers and Microprocessors - 8-Bit - PARALLAX

SX Tech Tool Lite Demonstration Kit



The SX Tech Tool Kit LITE is an excellent starting point for developing SX projects with Parallax's SX-Key programming tool. The SX-Key is Parallax's primary development tool for the SX line of microcontrollers, supporting every chip that is commercially available. Using the SX-Key software, the programming tool can program SX chips in-system and perform in-circuit source-level debugging.

Kit Includes:

- SX Key Rev. F
- SX Tech Board
- 2 x SX 28AC/DP 50 MIPS Chips
- 1 x Murata 50 MHz Resonator
- 1 x Murata 4 MHz Resonator
- SX-Key Manual v2.0
- 4-pin Header
- Serial Cable

492097

Mftrs. List No.	Order Code	Price Each
45180	126-3899●	80.18



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Components ready to pick and place in original manufacturer waffle tray packaging - at half full quantities!

Find out more on **page 579** or visit **www.farnell.com**

Microcontrollers and Microprocessors - 8-Bit - PARALLAX

SX Series - 8 Bit Microcontrollers

The Parallax SX Family are configurable communication controllers, with EE/FLASH Program memory and In System Programming capability. On-Chip functions include a general purpose 8-bit timer with prescaler, an analog comparator, a brownout detector, a watchdog timer, a power-save mode with wakeup capability, an internal R/C oscillator, user selectable clock modes and high current outputs.

451792

	Pins	Pkg	Description	EEPROM Size	EEPROM Size	Temperature Range	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
20	20	SSOP	8 Bit Microcontroller	2048 Byte	137 Byte	-40 to 85°C	SX20AC/SS-G	SMD 126-3901●	5.00	3.85	2.32
28	28	DPIP	8 Bit Microcontroller	2048 Byte	136 Byte	-40 to 85°C	SX28AC/DP-G	126-3902●	5.00	3.85	2.46
28	28	SSOP	8 Bit Microcontroller	2048 Byte	136 Byte	-40 to 85°C	SX28AC/SS-G	SMD 126-3903●	6.00	4.62	2.40
48	48	TQFP	8 Bit Microcontroller	4096 Byte	262 Byte	-40 to 85°C	SX48BD-G	SMD 126-3904●	5.00	3.85	2.68

Microcontrollers and Microprocessors - 8-Bit - RAMTRON

Versa 8051 Development Kits



VERSAKIT-30XX



VERSA JTAG USB

The VersaKit 30xx and VersaKit20xx development kits are plug and play evaluation systems for the VRS51L3xxx and VRS51L2xxx MCUs, respectively. They provide a complete and comprehensive programming and development platform, with ample prototyping space an easy access to chip perippherals and I/Os.

528781

Mftrs. List No.	Description	Order Code	Price Each
VERSAKIT-20XX	VRS51L2xxx Development Kit	168-8941●	47.14
VERSAKIT-30XX	VRS51L3xxx Development Kit	168-8942●	47.14
VERSA JTAG USB	VERSA USB Cable	168-8940●	33.99

8051 Microcontrollers

These high performance microcontrollers are 40MHz 8051-based 3.3V devices. They include a JTAG interface for flash programming/debugging, SPI, I^2C, dual UARTs and 8 PWM/Timers.

528708

Mftrs. List No.	Pkg	Pins	Flash (KB)	SRAM (KB)	FRAM (KB)	I/O	Order Code	Price Each 1+	10+	100+
VRS51L2070-40-QG	QFP	64	64	4	—	56	SMD 168-8897●	6.39	5.05	4.11
VRS51L3072-40-QG	QFP	64	64	4	2	56	SMD 168-8898●	7.65	6.04	4.92
VRS51L3174-40-QG	QFP	44	64	4	8	40	SMD 168-8899●	8.04	6.34	5.17

Microcontrollers and Microprocessors - 8-Bit - RENESAS

H8/300L and H8/300 'FLASH' Microcontrollers

The low power H8/300L family and the H8/300 series microcontrollers feature the 'FLASH' on-chip programming technology. For the first time a designer can change the code within the device without having to remove it from the board. A self test programme can be loaded onto the device and once it is functionally correctly tested on the board the finished code can be loaded into the device ready for use. Fully populated Evaluation Boards with hardware/software support for evaluation of these 'FLASH' devices are available. See Order Codes 693-820 and 693-832.

	FLASH (Bytes)	RAM (Bytes)	16-Bit Timers	8-bit Timers	PWM Timers	I²C BUS Interface	Async/Sync Serial Ports	I/O Lines	Input Lines
H8/3334Y	32KB	1K	2	2	2	Yes	2	60	6
H8/38024	32KB	1K	2	4	2	No	1	51	9
H8/3337Y	60 KB	1K	1	2	2	Yes	2	74	8

210824

	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
H8/3334Y	80	PQFP	8-Bit Microcontroller, 32K Flash, 1K RAM, 60 I/O lines, 6 Input lines, I2C Bus interface. 16MHz clock using 16MHz crystal.	HD64F3334YF16V	SMC 119-3607●	18.12	14.98	12.71
H8/3337Y	84	PLCC	8-Bit Microcontroller, 60K Flash, 2K RAM, 60 I/O lines, 6 Input lines, I2C Bus interface.16MHz clock using 16MHz crystal.	HD64F3337YCP16V	SMC 119-3608●	18.73	17.18	14.83
H8/38024	80	QFP	8-Bit Microcontroller, 32K Flash, 1K RAM, 51 I/O lines, 6 Input lines, 16MHz.	HD64F38024RF	SMC 883-0100●	10.20	8.16	6.12

H8

The various H8 families are high performance, high integration, low power, CMOS, programmable 8-bit microcontrollers. Suitable for applications that range from portable communication systems through small industrial controllers to automotive and POS systems. Also suitable as an intelligent peripheral in large multi-processor systems.

	ROM (Bytes)	RAM (Bytes)	Dual port RAM (Bytes)	16-Bit Timers	8-bit Timers	PWM Timers	Async/Sync Serial Ports	A/D Converter	I/O Lines	Input Lines
H8/325	32K	512	15	1	2	2 CHANNELS	2	8 CHANNELS	53	8
H8/330	16K	512	15	1	2	2 CHANNELS	1	8 CHANNELS	58	8

210915

	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
H8/325	64	DIP	8-Bit CMOS Microcontroller, 32Kb OTP PROM, 1024 bytes RAM, 53 I/O lines - 10MHz	HD6473258P10V	119-3605●	23.43	21.42	19.28
H8/330	64	PLCC	8-Bit CMOS Microcontroller, 16Kb OTP PROM, 512 bytes RAM, 58 I/O lines - 10MHz (on-Board ADC/ PWM)	HD6473308RCP10V	SMC 119-3606●	23.13	18.92	17.44

Microcontrollers and Microprocessors - 8-Bit - SILICON LABS

FM RADIO USB STICK KIT



This USB FM Radio design is intended as a reference for incorporating FM radio functionality into a USB product.The design consists of two major components, the Si4701 FM radio receiver and the C8051F321 microcontroller with a built-in universal serial bus (USB) peripheral. Due to the high level of system integration of both of these components, the total design is very small with fewer external components than many other solutions.

Plug it in your PC's USB port and launch the Radio Player software to listen to your favourite radio station right on your PC.

433093

Mftrs. List No.	Order Code	Price Each
USBFMRADIO-RD	118-6925●	31.15

ToolStick Kit



Using only a PC with a USB port, designers can experience the Silicon Laboratories software development environment in conjunction with the on-chip debugging hardware that allows full, non-intrusive access to the C8051F mixed-signal MCUs CPU, peripherals and memory. The target microcontroller on the board is a Silicon Laboratories C8051F300 which interfaces with the PC via the integrated Silicon Laboratories USB debug adapter that uses the C8051F321 USB MCU.

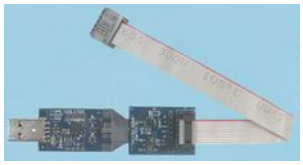
Kit Includes:
- ToolStick
- Silicon Laboratories Evaluation Kit IDE and Product Information CD-ROM

CD Content Includes:
- Silicon Laboratories Integrated Development Environment (IDE)
- Keil Software 8051 Development Tools (evaluation assembler, linker and C compiler)
- Source code examples and register definition files
- Demo software
- ToolStick User's Guide

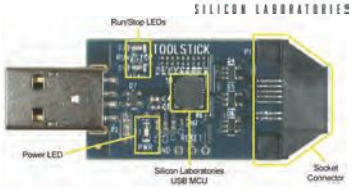
491829

Mftrs. List No.	Order Code	Price Each
TOOLSTICK-EK	118-6944●	8.76

ToolsStick Adapter



ToolsStick Debug Adapter



ToolsStick Base Adapter

ToolStick Base Adapter
The ToolStick Base Adapter provides a USB debug interface and data communications path between a Windows PC and a target microcontroller. The Base Adapter is USB powered and also provides power to the daughter cards. The target microcontroller and application circuitry are located on the daughter card. The base adapter is not functional without a daughter card.

ToolStick Debug Adapter
The ToolStick debug adapter, in conjunction with a ToolStick Base Adapter, provides an interface between the PC's USB port and the target device's in-system debug/programming circuitry. The ToolStick Debug Adapter can be used to program and debug a standard Silicon Laboratories MCU development board.

451979

Mftrs. List No.	Order Code	Price Each
TOOLSTICKBA	129-5416●	12.51
TOOLSTICKDA	129-5417●	6.39

USB Mass Storage Reference Design Kit



The USB Mass Storage and CF/MMC/SD Reference Design Kit includes everything necessary to implement a FAT16 file system using a SD, MMC, or CF memory card on your Silicon Labs MCU. In addition, it provides a method of interfacing that system to a host PC via USB using the Mass Storage Device class.

Kit includes:
- SD, MMC, and CF Memory Card Expansion Board
- 256 MB SD Memory Card
- 9-Pin Serial Cable
- Quick-Start Guide
- USB Mass Storage Reference Design CD-ROM

451976

Mftrs. List No.	Order Code	Price Each
USB-MSD-RD	129-1550	87.10

RL Re-reeling available

C8051F930 Development Kit



The C8051F930 Development Kit is intended as a development platform for the microcontrollers in the C8051F93x-C8051F92x MCU family.

Kit Contents:
- C8051F930 Target Board
- C8051Fxxx Development Kit Quick-Start Guide
- Silicon Laboratories IDE and Product Information CD-ROM.
- AC to DC Power Adapter
- USB Debug Adapter (USB to Debug Interface)
- 2 USB Cables
- 2 AAA Batteries

CD content includes:
- Silicon Laboratories Integrated Development Environment (IDE)
- Keil 8051 Development Tools (macro assembler, linker, evaluation C compiler)
- Source code examples and register definition files
- Documentation
- C8051F930 Development Kit User's Guide

503878

Mftrs. List No.		Order Code	Price Each
C8051F930DK	C8051F930 Development Kit	155-8935▲	50.95

USB Toolstick C8051F931 Daughter Card



The C8051F931 Daughter Card includes a pair of GPIO controlled LEDs, a potentiometer, a switch connected to a GPIO, a capacitive touch sense switch, and a small prototyping area which provides access to all of the pins of the device. This prototyping area can be used to connect additional hardware to the microcontroller and use the daughter card as a development platform.

The C8051F931 Daughter Card also includes an A76 1.5 V alkaline battery which can be used to power the board when not connected to the Toolstick Base Adapter. The C8051F931 will continue to operate from the single button cell" battery until the supply voltage drops below 0.9 V.

503879

Mftrs. List No.		Order Code	Price Each
TOOLSTICK931DC	ToolStick C8051F931 Daughter Card	155-8937▲	12.16

ToolStick CapTouchSense



The CapTouchSense Daughter Card includes a C8051F931 MCU, four GPIO controlled LEDs, a switch connected to a GPIO, four capacitive touch sense switches, and a small prototyping area which provides access to all of the pins of the device. This prototyping area can be used to connect additional hardware to the microcontroller and use the daughter card as a development platform.

The CapTouchSense Daughter Card also includes an A76 1.5 V alkaline battery which can be used to power the board when not connected to the Toolstick Base Adapter. The C8051F931 MCU on this daughter card will continue to operate from the single button cell" battery until the supply voltage drops below 0.9 V.

503880

Mftrs. List No.		Order Code	Price Each
CAPTOUCHSENSEDC	ToolStick CapTouchSense Daughter Card	155-8939●	13.06
CAPTOUCHSENSESK	ToolStick CapTouchSense Starter Kit (inc Daughter Card, ToolStick Base Adapter and USB cable)	155-8938●	24.08

C8051F Development Tools



These development kit provides a development environment for unobtrusive real-time debug in the target system. The kist offer features and performance typically found on high-end development systems. These kits are complete with all hardware, software, cables and power supply. The user only needs a PC running Windows (95/98/Me/NT) with a free COM port.
These kits include advanced debug features enabling the user to fully develop and integrate the hardware and software design as well as built-in debug capabilities, meaning the development environment can be used with devices already installed in the end application.

Features:
- Editing & Managing Project Files
- An Evaluation C Compiler
- Configuration Wizard - writes the source code necessary to set up the peripherals
- Run, Halt, Single-Stepping and Animate
- Set Hardware Breakpoints
- Inspect/Modify Memory and Registers
- Download Program Memory

451929

Mftrs. List No.	Order Code	Price Each
AB4	118-6940●	29.47
C8051F005-TB	129-1450	30.81
C8051F020DK	129-1459	69.53
C8051F020-TB	129-1460	33.63
C8051F040DK	129-1461	157.49
C8051F040-TB	129-1462	40.36
C8051F060DK	129-1469	157.49
C8051F064EK	129-1474	66.59
C8051F120DK	129-1480	87.10
C8051F120-TB	129-1482	33.63
C8051F206DK	129-1492	60.72
C8051F226DK	129-1494	60.72
C8051F300DK	129-1496	60.72
C8051F310DK	129-1500	60.72
C8051F310-TB	129-1501	23.55
C8051F320DK	129-1509	87.10
C8051F326DK	129-1510	87.10
C8051F005DK	129-1449	60.72
C8051F326-TB	129-1511	33.63
C8051F330DK	129-1512	60.72
C8051F340DK	129-1521	87.10
C8051F340-TB	129-1522	33.63
C8051F350DK	129-1523	66.59
C8051F350-TB	129-1525	33.63
C8051F410DK	129-1529	87.10
C8051F411EK	129-1532	25.52
CP2103EK	129-1537	25.84
CP2120EK	129-5413●	23.59
CP2201EK	129-1539	24.75
DEBUGADPTR1-USB	118-6943●	29.47
ETHERNETDK	118-6945●	92.50
F350-COMPASS-RD	129-1540	64.15
SI3400-EVB	129-1544	84.08
TOOLSTICKSK	129-5418●	17.85
TOOLSTICK330DC	129-5415●	7.06

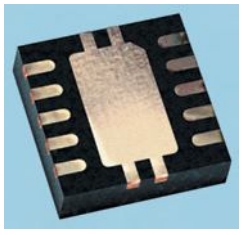
C8051F9xx Low-Voltage/Low-Power MCUs

The C8051F9xx is capable of full-spec operation down to 0.9 V and up to 3.6 V, enabling single-cell battery operation as well as increasing battery life for dual-cell applications. With an integrated dc-dc converter, the C8051F9xx has been designed to provide a fast wake-up time, low active-mode, and ultra-low sleep mode current consumptions.

503881

Mftrs. List No.	Pins/ Package	RAM	Flash	MIPS	I/O	ADC	Serial Interface	Comparators	Order Code	Price Each 1+	10+	100+
C8051F930-GQ	32/LQFP	4 KB	64KB	25	24	10-bit, 23-ch	UART, I2C, EMIF, 2 SPI	2; up to 23 touch sense inputs	SMD 155-8928●	5.32	3.82	2.98
C8051F930-GM	32/QFN	4 KB	64KB	25	24	10-bit, 23-ch	UART, I2C, EMIF, 2 SPI	2; up to 23 touch sense inputs	SMD 155-8930●	4.48	3.22	2.52
C8051F931-GM	24/QFN	4 KB	64KB	25	16	10-bit, 15-ch	UART, I2C, 2 SPI	2; up to 15 touch sense inputs	SMD 155-8931●	4.00	2.88	2.25
C8051F920-GQ	32/LQFP	4 KB	32KB	25	24	10-bit, 23-ch	UART, I2C, EMIF, 2 SPI	2; up to 23 touch sense inputs	SMD 155-8932●	4.71	3.39	2.64
C8051F920-GM	32/QFN	4 KB	32KB	25	24	10-bit, 23-ch	UART, I2C, EMIF, 2 SPI	2; up to 23 touch sense inputs	SMD 155-8933●	4.00	2.88	2.25
C8051F921-GM	24/QFN	4 KB	32KB	25	16	10-bit, 15-ch	UART, I2C, 2 SPI	2; up to 15 touch sense inputs	SMD 155-8934●	3.60	2.59	2.02

Silicon Laboratories Microcontrollers



MLP11



TQ100



LPQ32



TQ48



TQ64

RL Re-reeling available

Farnell

Microcontrollers and Microprocessors - 8-Bit - SILICON LABS - continued

Silicon Laboratories Microcontrollers - continued

Silicon Laboratories offers a range of In-System Programmable, mixed signal System-on-Chip microcontroller products. They integrate world-class analogue peripherals, a high-speed pipelined 8051 CPU, ISP Flash Memory, and on-chip JTAG based debug in each device. Silicon Laboratories concentrates on reducing the cost of the system by integrating more functions onto a single device.

Silicon Laboratories parts offer an enhanced 8051 compatible CPU delivering up to 25 MIPS at 25 MHz. Memory options are currently up to 64K Flash with 4K RAM.System cost, development time and parts count are all reduced by integrating UART, SMBus™, and SPI™ serial interfaces, four 8051-style timers, and a five-channel programmable counter array (PCA). Some parts have a dedicated parallel interface (capable of data rates up to 5Mbytes/second) that facilitates the easy expansion of data memory, and provides the means to attach external devices such as USB or Ethernet controllers.

Analogue peripherals include 12-bit or 10-bit 100ksps ADC and an 8-bit 500ksps ADC with performance figures normally only found on monolithic ADCs. Devices also feature a temperature sensor, two 12-bit digital-to-analogue converters, voltage comparator(s), and a voltage reference.

Mftrs. List No.	MIPS (peak)	Flash Memory (bytes)	RAM (bytes)	Serial Buses	Timers (16-Bit)	Digital I/O Pins	ADC Resol. (bits)	ADC Speed (Ksps)	ADC inputs	DAC Resol. (bits)	DAC Ouputs	Voltage Comparators	Pins/ Package
C8051F000-GQ	20	32KB	256	UART, SMBus, SPI	4	32	12	100	8	12	2	2	64 / TQFP
C8051F001-GQ	20	32KB	256	UART, SMBus, SPI	4	16	12	100	10	12	2	2	48 / TQFP
C8051F005-GQ	25	32KB	2304	UART, SMBus, SPI	4	32	12	100	8	12	2	2	64 / TQFP
C8051F006-GQ	25	32KB	2304	UART, SMBus, SPI	4	16	12	100	10	12	2	2	48 / TQFP
C8051F010-GQ	20	32KB	256	UART, SMBus, SPI	4	32	10	100	8	12	2	2	64 / TQFP
C8051F011-GQ	20	32KB	256	UART, SMBus, SPI	4	16	10	100	10	12	2	2	48 / TQFP
C8051F012-GQ	20	32KB	256	UART, SMBus, SPI	4	8	10	100	4	12	2	1	32 / LQFP
C8051F015-GQ	25	32KB	2304	UART, SMBus, SPI	4	32	10	100	8	12	2	2	64 / TQFP
C8051F016-GQ	25	32KB	2304	UART, SMBus, SPI	4	16	10	100	10	12	2	2	48 / TQFP
C8051F017-GQ	25	32KB	2304	UART, SMBus, SPI	4	8	10	100	4	12	2	1	32 / LQFP
C8051F019-GQ	25	16KB	1280	UART, SMBus, SPI	4	16	10	100	8	—	—	2	48 / TQFP
C8051F020-GQ	25	64KB	4352	2 UARTs, SMBus, SPI	5	64	12/8	100/500	8/8	12	2	2	100 / TQFP
C8051F021-GQ	25	64KB	4352	2 UARTs, SMBus, SPI	5	32	12/8	100/500	8/8	12	2	2	64 / TQFP
C8051F022-GQ	25	64KB	4352	2 UARTs, SMBus, SPI	5	64	10/8	100/500	8/8	12	2	2	100 / TQFP
C8051F040-GQ	25	64KB	4352	CAN2.0B, 2 UARTs, SMBus, SPI	5	64	12/8	100/500	13/8	12	2	3	100 / TQFP
C8051F041-GQ	25	64KB	4352	CAN2.0B, 2 UARTs, SMBus, SPI	5	32	12/8	100/500	13/8	12	2	3	64 / TQFP
C8051F042-GQ	25	64KB	4352	CAN2.0B, 2 UARTs, SMBus, SPI	5	64	10/8	100/500	13/8	12	2	3	100 / TQFP
C8051F043-GQ	25	64KB	4352	CAN2.0B, 2 UARTs, SMBus, SPI	5	32	10/8	100/500	13/8	12	2	3	64 / TQFP
C8051F044-GQ	25	64KB	4352	CAN2.0B, 2 UARTs, SMBus, SPI	5	64	10	100	13	—	—	3	100 / TQFP
C8051F045-GQ	25	64KB	4352	CAN2.0B, 2 UARTs, SMBus, SPI	5	32	10	100	13	—	—	3	64 / TQFP
C8051F046-GQ	25	64KB	4352	CAN2.0B, 2 UARTs, SMBus, SPI	5	64	10	100	13	—	—	3	100 / TQFP
C8051F047-GQ	25	64KB	4352	CAN2.0B, 2 UARTs, SMBus, SPI	5	32	10	100	13	—	—	3	64 / TQFP
C8051F060-GQ	25	64KB	4352	CAN2.0B, 2 UARTs, SMBus, SPI	5	59	16/16	1000/1000	1/1	12	2	3	100 / TQFP
C8051F061-GQ	25	64KB	4352	CAN2.0B, 2 UARTs, SMBus, SPI	5	24	16/16	1000/1000	1/1	12	2	3	64 / TQFP
C8051F062-GQ	25	64KB	4352	CAN2.0B, 2 UARTs, SMBus, SPI	5	59	16/16	1000/1000	1/1	12	2	3	100 / TQFP
C8051F063-GQ	25	64KB	4352	CAN2.0B, 2 UARTs, SMBus, SPI	5	24	16/16	1000/1000	1/1	12	2	3	64 / TQFP
C8051F064-GQ	25	64KB	4352	2 UARTs, SMBus, SPI	5	59	16/16	1000/1000	1/1	—	—	3	100 / TQFP
C8051F065-GQ	25	64KB	4352	2 UARTs, SMBus, SPI	5	24	16/16	1000/1000	1/1	—	—	3	64 / TQFP
C8051F066-GQ	25	32KB	4352	2 UARTs, SMBus, SPI	5	59	16/16	1000/1000	1/1	—	—	3	100 / TQFP
C8051F067-GQ	25	32KB	4352	2 UARTs, SMBus, SPI	5	24	16/16	1000/1000	1/1	—	—	3	64 / TQFP
C8051F120-GQ	100	128KB	8448	2 UARTs, SMBus, SPI	5	64	12/8	100/500	8/8	12	2	2	100 / TQFP
C8051F121-GQ	100	128KB	8448	2 UARTs, SMBus, SPI	5	32	12/8	100/500	8/8	12	2	2	64 / TQFP
C8051F122-GQ	100	128KB	8448	2 UARTs, SMBus, SPI	5	64	10/8	100/500	8/8	12	2	2	100 / TQFP
C8051F123-GQ	100	128KB	8448	2 UARTs, SMBus, SPI	5	32	10/8	100/500	8/8	12	2	2	64 / TQFP
C8051F124-GQ	50	128KB	8448	2 UARTs, SMBus, SPI	5	64	12/8	100/500	8/8	12	2	2	100 / TQFP
C8051F125-GQ	50	128KB	8448	2 UARTs, SMBus, SPI	5	32	12/8	100/500	8/8	12	2	2	64 / TQFP
C8051F127-GQ	50	128KB	8448	2 UARTs, SMBus, SPI	5	32	10/8	100/500	8/8	12	2	2	64 / TQFP
C8051F130-GQ	100	128KB	8448	2 UARTs, SMBus, SPI	5	64	10	100	8	—	—	2	100 / TQFP
C8051F132-GQ	100	64KB	8448	2 UARTs, SMBus, SPI	5	64	10	100	8	—	—	2	100 / TQFP
C8051F133-GQ	100	64KB	8448	2 UARTs, SMBus, SPI	5	32	10	100	8	—	—	2	64 / TQFP
C8051F206-GQ	25	8KB	1280	UART, SPI	3	32	12	100	32	—	—	2	48 / TQFP
C8051F220-GQ	25	8KB	256	UART, SPI	3	32	8	100	32	—	—	2	48 / TQFP
C8051F226-GQ	25	8KB	1280	UART, SPI	3	32	8	100	32	—	—	2	48 / TQFP
C8051F230-GQ	25	8KB	256	UART, SPI	3	32	—	—	—	—	—	2	48 / TQFP
C8051F300-GM	25	8KB	256	UART, SMBus	3	8	8	500	8	—	—	1	11 / MLP
C8051F301-GM	25	8KB	256	UART, SMBus	3	8	—	—	—	—	—	1	11 / MLP
C8051F302-GM	25	8KB	256	UART, SMBus	3	8	8	500	8	—	—	1	11 / MLP
C8051F304-GM	25	4KB	256	UART, SMBus	3	8	—	—	—	—	—	1	11 / MLP
C8051F305-GM	25	2KB	256	UART, SMBus	3	8	—	—	—	—	—	1	11 / MLP
C8051F310-GQ	25	16KB	1280	UART, SMBus, SPI	4	29	10	200	21	—	—	2	32 / LQFP
C8051F311-GM	25	16KB	1280	UART, SMBus, SPI	4	25	10	200	17	—	—	2	28 / MLP
C8051F312-GQ	25	8KB	1280	UART, SMBus, SPI	4	29	10	200	21	—	—	2	32 / LQFP
C8051F313-GM	25	8KB	1280	UART, SMBus, SPI	4	25	10	200	17	—	—	2	28 / MLP
C8051F314-GQ	25	8KB	1280	UART, SMBus, SPI	4	29	—	—	—	—	—	2	32 / LQFP
C8051F315-GM	25	8KB	1280	UART, SMBus, SPI	4	25	—	—	—	—	—	2	28 / MLP
C8051F316-GM	25	16KB	1280	UART, SMBus, SPI	4	21	10	200	13	—	—	2	24 / QFN
C8051F317-GM	25	16KB	1280	UART, SMBus, SPI	4	21	—	—	—	—	—	2	24 / QFN
C8051F320-GQ	25	16KB	2304	USB 2.0, UART, SMBus, SPI	4	25	10	200	17	—	—	2	32 / LQFP
C8051F321-GM	25	16KB	2304	USB 2.0, UART, SMBus, SPI	4	21	10	200	13	—	—	2	24 / QFN
C8051F326-GM	25	16KB	1536	USB 2.0, UART	2	15	—	—	—	—	—	—	24 / QFN
C8051F327-GM	25	16KB	1536	USB 2.0, UART	2	15	—	—	—	—	—	—	24 / QFN
C8051F330-GM	25	8KB	768	UART, SMBus, SPI	4	17	10	200	16	10	1	1	20 / MLP
C8051F331-GM	25	8KB	768	UART, SMBus, SPI	4	17	—	—	—	—	—	1	20 / MLP
C8051F332-GM	25	4KB	768	UART, SMBus, SPI	4	17	10	200	16	—	—	1	20 / MLP
C8051F334-GM	25	2KB	768	UART, SMBus, SPI	4	17	10	200	16	—	—	1	20 / MLP
C8051F335-GM	25	2KB	768	UART, SMBus, SPI	4	17	—	—	—	—	—	1	20 / MLP
C8051F340-GQ	48	64KB	5376	USB 2.0, 2 x UART, SMBus, SPI	4	40	10	200	17	—	—	2	48 / TQFP
C8051F341-GQ	48	32KB	3328	USB 2.0, 2 x UART, SMBus, SPI	4	40	10	200	17	—	—	2	48 / TQFP
C8051F342-GQ	48	64KB	5376	USB 2.0, UART, SMBus, SPI	4	25	10	200	17	—	—	2	32 / LQFP
C8051F343-GQ	48	32KB	3328	USB 2.0, UART, SMBus, SPI	4	25	10	200	17	—	—	2	32 / LQFP
C8051F344-GQ	25	64KB	5376	USB 2.0, 2 x UART, SMBus, SPI	4	40	10	200	17	—	—	2	48 / TQFP
C8051F345-GQ	25	32KB	3328	USB 2.0, 2 x UART, SMBus, SPI	4	40	10	200	17	—	—	2	48 / TQFP
C8051F346-GQ	25	64KB	5376	USB 2.0, UART, SMBus, SPI	4	25	10	200	17	—	—	2	32 / LQFP
C8051F347-GQ	25	32KB	3328	USB 2.0, UART, SMBus, SPI	4	25	10	200	17	—	—	2	32 / LQFP
C8051F350-GQ	50	8KB	768	UART, SMBus, SPI	4	17	24	1	8	8	2	1	32 / LQFP
C8051F352-GQ	50	8KB	768	UART, SMBus, SPI	4	17	16	1	8	8	2	1	32 / LQFP
C8051F353-GM	50	8KB	768	UART, SMBus, SPI	4	17	8	1	8	8	2	1	28 / MLP
C8051F410-GQ	50	32KB	2304	UART, SMBus, SPI	4	24	12	200	24	12	2	2	32 / LQFP
C8051F411-GM	50	32KB	2304	UART, SMBus, SPI	4	20	12	200	20	12	2	2	28 / MLP
C8051F412-GQ	50	16KB	1280	UART, SMBus, SPI	4	24	12	200	24	12	2	2	32 / LQFP
C8051F413-GM	50	16KB	1280	UART, SMBus, SPI	4	20	12	200	20	12	2	2	28 / MLP

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Mftrs. List No.	Order Code	Price Each 1+	10+	100+
C8051F000-GQ	SMD 129-1447●	12.00	8.29	6.87
C8051F001-GQ	129-1448●	4.75	– –	– –
C8051F005-GQ	SMD 968-5677●	12.85	11.26	10.04
C8051F006-GQ	SMD 968-5685●	12.53	8.65	7.17
C8051F010-GQ	129-1451●	4.52	– –	– –
C8051F011-GQ	129-1453●	4.44	– –	– –
C8051F012-GQ	SMD 129-1454●	8.47	6.93	5.61
C8051F015-GQ	SMD 968-5707●	13.08	10.71	9.24
C8051F016-GQ	129-1455●	4.66	– –	– –
C8051F017-GQ	SMD 129-1456●	11.81	8.16	6.77
C8051F019-GQ	SMD 129-1458●	11.07	7.84	6.25
C8051F020-GQ	SMD 968-5766●	17.25	11.92	9.88
C8051F021-GQ	SMD 968-5774●	16.66	11.50	9.53
C8051F022-GQ	SMD 968-5782●	10.65	8.52	7.25
C8051F040-GQ	SMD 968-5839●	12.30	8.49	7.72
C8051F041-GQ	SMD 968-5847●	11.81	8.16	7.32
C8051F042-GQ	SMD 129-1463●	10.54	7.29	6.04
C8051F043-GQ	SMD 968-5855●	15.67	14.10	13.08
C8051F044-GQ	SMD 129-1465●	10.03	7.10	5.66
C8051F045-GQ	SMD 129-1466●	9.49	6.72	5.36
C8051F046-GQ	SMD 129-1467●	9.42	6.67	5.31
C8051F047-GQ	SMD 129-1468●	7.95	6.24	4.98
C8051F060-GQ	SMD 129-1470●	16.92	11.68	9.68
C8051F061-GQ	SMD 129-1471●	15.38	10.62	8.81
C8051F062-GQ	SMD 129-1472●	11.32	9.27	7.49
C8051F063-GQ	SMD 129-1473●	13.99	9.65	8.00
C8051F064-GQ	SMD 129-1475●	9.60	7.85	6.36
C8051F065-GQ	SMD 129-1477●	11.04	8.15	6.76
C8051F066-GQ	129-1478●	4.62	– –	– –
C8051F067-GQ	SMD 129-1479●	11.03	7.62	6.31
C8051F120-GQ	SMD 129-1481●	21.16	14.61	12.11
C8051F121-GQ	SMD 129-1483●	20.48	14.14	11.72
C8051F122-GQ	SMD 129-1484●	19.59	13.53	11.21
C8051F123-GQ	SMD 129-1485●	18.95	13.09	10.85
C8051F124-GQ	SMD 968-5863●	18.54	12.81	10.62
C8051F125-GQ	SMD 968-5871●	17.86	12.33	10.22
C8051F127-GQ	SMD 968-5898●	16.35	11.29	9.36
C8051F130-GQ	SMD 129-1486●	15.13	10.45	8.66
C8051F132-GQ	SMD 129-1489●	12.68	8.76	7.26
C8051F133-GQ	SMD 129-1491●	12.04	8.32	6.90
C8051F206-GQ	SMD 968-5715●	5.29	3.76	3.24

Mftrs. List No.	Order Code	Price Each 1+	10+	100+
C8051F220-GQ	SMD 129-1493●	4.00	2.98	2.37
C8051F226-GQ	SMD 968-5731●	4.62	3.14	2.51
C8051F230-GQ	SMD 129-1495●	3.75	2.80	2.23
C8051F300-GM	SMD 968-5804●	2.98	2.13	1.84
C8051F301-GM	SMD 129-1497●	2.59	1.94	1.55
C8051F302-GM	SMD 968-5812●	2.79	1.90	1.51
C8051F304-GM	SMD 129-1498●	2.20	1.63	1.30
C8051F305-GM	SMD 129-1499●	2.13	1.59	1.26
C8051F310-GQ	SMD 968-5901●	5.71	3.89	3.10
C8051F311-GM	SMD 968-5910●	5.12	3.48	2.78
C8051F312-GQ	SMD 129-1502●	4.05	3.03	2.42
C8051F313-GM	SMD 129-1503●	3.38	2.77	2.24
C8051F314-GQ	SMD 129-1504●	3.43	2.56	2.04
C8051F315-GM	SMD 129-1505●	3.19	2.38	1.90
C8051F316-GM	SMD 129-1507●	3.79	3.11	2.50
C8051F317-GM	SMD 129-1508●	3.73	2.79	2.22
C8051F320-GQ	SMD 968-5928●	6.95	4.74	3.78
C8051F321-GM	SMD 968-5936●	5.94	4.04	3.22
C8051F326-GM	SMD 118-6926●	3.48	2.71	2.08
C8051F327-GM	SMD 118-6927●	3.97	2.71	2.16
C8051F330-GM	SMD 129-1513●	3.88	2.90	2.31
C8051F331-GM	SMD 129-1514●	3.48	2.60	2.07
C8051F332-GM	SMD 129-1515●	2.61	2.13	1.72
C8051F334-GM	SMD 129-1517●	2.47	1.83	1.46
C8051F335-GM	SMD 129-1519●	1.34	1.18	1.04
C8051F340-GQ	SMD 118-6928●	8.40	6.82	5.14
C8051F341-GQ	SMD 118-6931●	7.80	6.08	4.64
C8051F342-GQ	SMD 118-6932●	8.51	6.61	5.06
C8051F343-GQ	SMD 118-6933●	7.40	5.75	4.40
C8051F344-GQ	SMD 118-6934●	9.71	6.61	5.27
C8051F345-GQ	SMD 118-6935●	7.40	5.75	4.40
C8051F346-GQ	SMD 118-6936●	6.14	4.83	3.67
C8051F347-GQ	SMD 118-6937●	6.79	5.29	4.05
C8051F350-GQ	SMD 129-1524●	7.36	5.48	4.37
C8051F352-GQ	SMD 129-1527●	5.44	4.06	3.23
C8051F353-GM	SMD 129-1528●	4.56	3.40	2.71
C8051F410-GQ	SMD 129-1530●	5.42	4.44	3.59
C8051F411-GM	SMD 129-1533●	5.71	4.25	3.39
C8051F412-GQ	SMD 129-1534●	5.76	4.71	3.81
C8051F413-GM	SMD 129-1535●	5.32	3.95	3.15

Microcontrollers and Microprocessors - 8-Bit - ST

ST62 Starter Kits



The ST62 Starter Kit is a complete low cost tool providing immediate evaluation of the ST62 family. It includes the ST62 Assembler, Linker, Debugger, and WinEE programming software, plus an application/debug/programming board, power supply and samples. Application notes and example software routines are provided.

Features:
- Simulation and debugging within the user's real application environment
- In-situ programming of all ST62 devices in the appropriate sub-family
- In-socket programming of the DIL OTP and EPROM ST62 devices in the appropriate sub-family (includes QFP80 for the ST6240-Kit)
- Software simulation, including I/O read and write

210987

	Order Code	Price Each
ST622XC-KIT/UK	688-460	207.59
ST623X-KIT/UK	688-514	113.66

ST62 Microcontroller Family

The ST62 family of low cost microcontrollers is designed for rugged and reliable operation, even in the harshest industrial or automotive applications.

A number of design features contribute to the ST62's outstanding noise immunity, and ultra-low noise generation, including:
- An internal serial architecture
- An oscillator safeguard circuit which dynamically controls the internal operating frequency of the micro
- Clamp diodes an all pins
- A watchdog, and an auxiliary oscillator ensuring safe operation even if the oscillator components fail
- Power on and power off reset circuits

This family is widely regarded as the industry's best for EMC/EMI performance.

In addition to these advanced noise immunity features, ST62 family variants offer:
- EEPROM
- LCD drive
- Analogue-to-digital converters
- High current outputs for direct connection to LEDs or triacs
- Timers with or without PWM capability
- Broad range of memory and package combinations

Devices can be programmed in-situ. *All OTP variants are supplied in Industrial Temperature range (-40°C to +85°C) as standard.*

Developers will find the ST62 easy to use, with its straightforward accumulator-based architecture, twin index pointers, and hardware stack. The ST62 also features a surprisingly powerful dual-level interrupt mechanism, ideal for managing events in real-time without messy software loops. Through its Data ROM Window construct, the ST62 is capable of reading its own program content, a vital feature for ROM checking algorithms such as CRC.

All ST62's feature WAIT and HALT low power modes, while the "C" revision devices have now been recharacterised to offer even lower power consumption.

A range of development tools is available, from low cost Starter Kits, to full in-circuit real-time emulators. Engineers with little experience, or with little time available, can draw their application schematically, using the STREALIZER-II, without having to write a single line of assembly code.

210990

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Microcontrollers and Microprocessors - 8-Bit - ST - continued

ST62 is a family of rugged microcontrollers with high EMC, low EMI. All members feature watchdog and have 8MHz clock.

All devices with prefix ST62E=EPROM ST62T=OTP

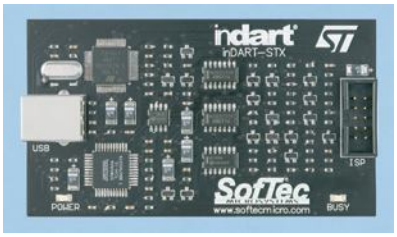
The temperature range is -40°C to +85°C for all the OTP versions. EPROM Devices For Prototyping are rated to +25°C

210991

Device	Prog. Mem.	RAM bytes	EEPROM bytes	ADC inputs	Timers	Serial Interfaces	I/Os (high current)	Pins/Package	Features	Order Code	Price Each 1+	10+	100+	250+	500+
BASIC															
ST62T03CB6	1KB	64	—	—	1 x 8-bit	—	9 (3)	16/DIP	LVD/RC/OSG/Readout Protn./Direct LED/ Triac Drive	975-5616●	2.04	1.67	1.40	1.28	1.24
ST62T03CM6	1KB	64	—	—	2 x 8-bit	—	9 (3)	16/PSOP		SMC 129-2635●	1.00	0.81	0.72	0.70	0.68
ST62T08CB6	1KB	64	—	—	1 x 8-bit	—	12 (4)	20/DIP	LVD/RC/OSG/Readout Protn./Direct LED/ Triac Drive	975-5624●	2.16	1.79	1.51	1.40	1.31
ADC															
ST62T00CB6	1KB	64	—	4 x 8-bit	1 x 8-bit	—	9 (3)	16/DIP	LVD/RC/OSG/Readout Protn./Direct LED/ Triac Drive	975-5632●	2.21	1.94	1.89	1.72	1.51
ST62T00CM6	1KB	64	—	4 x 8-bit	2 x 8-bit	—	9 (3)	16/PSOP		SMC 129-2633●	1.89	1.55	1.21	1.11	1.02
ST62T01CB6	2KB	64	—	4 x 8-bit	1 x 8-bit	—	9 (3)	16/DIP	LVD/RC/OSG/Readout Protn./Direct LED/ Triac Drive	975-5659●	2.86	2.69	2.17	1.93	1.69
ST62T01CM6	2KB	64	—	4 x 8-bit	2 x 8-bit	—	9 (3)	16/PSOP		SMC 129-2634●	2.11	1.78	1.39	1.26	1.19
ST62T09CB6	1KB	64	—	4 x 8-bit	1 x 8-bit	—	12 (4)	20/DIP	LVD/RC/OSG/Readout Protn./Direct LED/ Triac Drive	975-5667●	3.25	2.66	2.09	1.89	1.79
ST62T10CB6	2KB	64	—	8 x 8-bit	1 x 8-bit	—	12 (4)	20/DIP	LVD/RC/OSG/Readout Protn./Direct LED/ Triac Drive	109-4326●	3.96	3.05	2.55	2.31	2.13
ST62T10CM6	2KB	64	—	8 x 8-bit	1 x 8-bit	—	12 (4)	20/SOIC	LVD/RC/OSG/Readout Protn./Direct LED/ Triac Drive	SMC 109-4327●	4.09	3.43	2.77	2.46	2.15
ST62T15CB6	2KB	64	—	16 x 8-bit	1 x 8-bit	—	20 (4)	28/DIP	LVD/RC/OSG/Readout Protn./Direct LED/ Triac Drive	109-4328●	4.07	3.62	3.13	2.82	2.60
ST62T15CM6.	2KB	64	—	16 x 8-bit	1 x 8-bit	—	20 (4)	20/SOIC	LVD/RC/OSG/Readout Protn./Direct LED/ Triac Drive	SMC 326-0057▲	6.62	5.48	4.58	4.26	4.04
ST62T20CB6	4KB	64	—	8 x 8-bit	1 x 8-bit	—	12 (4)	20/DIP	LVD/RC/OSG/Readout Protn./Direct LED/ Triac Drive	109-4329●	5.56	4.28	3.76	3.35	2.93
ST62T20CM6	4KB	64	—	8 x 8-bit	2 x 8-bit	—	12 (4)	20/PSOP		SMC 129-2636●	5.47	4.12	3.46	2.97	2.74
ST62T25CB6	4KB	64	—	16 x 8-bit	1 x 8-bit	—	20 (4)	28/DIP	LVD/RC/OSG/Readout Protn./Direct LED/ Triac Drive	109-4330●	6.83	5.08	3.74	3.21	2.97
ST62T25CM6	4KB	64	—	16 x 8-bit	1 x 8-bit	—	20 (4)	28/SOIC	LVD/RC/OSG/Readout Protn./Direct LED/ Triac Drive	SMC 109-4331●	7.20	5.92	4.64	4.22	3.99
ADC + PWM															
ST62T52CB6	2KB	128	—	4 x 8-bit	1 x 8-bit, 1 x 8-bitAR	—	9 (5)	16/DIP	LVD/RC/OSG/Readout Protn./Direct LED/ Triac Drive	326-0148▲	3.43	3.34	3.24	3.16	3.07
ADC + PWM + E2															
ST62T60CB6	4KB	128	128	7 x 8-bit	1 x 8-bit, 1 x 8-bitAR	SPI	13 (6)	20/DIP	LVD/RC/OSG/Readout Protn./Direct LED/ Triac Drive/SPI	109-4332●	4.76	3.86	3.09	2.91	2.84
ST62T60CM6	4KB	128	128	7 x 8-bit	1 x 8-bit, 1 x 8-bitAR	SPI	13 (6)	20/SOIC	LVD/RC/OSG/Readout Protn./Direct LED/ Triac Drive/SPI	SMC 326-0239▲	4.91	4.05	3.40	3.13	2.98
ST62T62CB6	2KB	128	64	4 x 8-bit	1 x 8-bit, 1 x 8-bitAR	—	9 (5)	16/DIP	LVD/RC/OSG/Readout Protn./Direct LED/ Triac Drive	975-5683●	3.75	3.10	2.60	2.40	2.27
ST62T65CB6	4KB	128	128	13 x 8-bit	1 x 8-bit, 1 x 8-bitAR	SPI	21 (8)	28/DIP	LVD/RC/OSG/Readout Protn./Direct LED/ Triac Drive/SPI	109-4333●	5.38	4.44	3.64	3.45	3.28
ST62T65CM6	4KB	128	128	13 x 8-bit	1 x 8-bit, 1 x 8-bitAR	SPI	21 (8)	28/SOIC	LVD/RC/OSG/Readout Protn./Direct LED/ Triac Drive/SPI	SMC 109-4334●	3.61	2.90	2.52	2.45	2.39
EPROM DEVICES FOR PROTOTYPING															
ST62E25CF1.	4KB	64	—	16 x 8-bit	1 x 8-bit	—	20 (4)	28/DIP	LVD/RC/OSG/Readout Protn./Direct LED/ Triac Drive	118-138▲	18.86	15.58	14.43	14.05	13.69
ST62E65CF1	4KB	128	128	13 x 8-bit	1 x 8-bit	SPI	21 (4)	20/DIP	LVD/RC/OSG/Readout Protn./Direct LED/ Triac Drive/SPI	121-8162●	26.82	23.08	18.51	18.03	17.57

inDART-STX/D - In-Circuit Debugger/ Programmer for STMicroelectronics ST FIVE 508 and ST72F Families (USB)

SofTec MICROSYSTEMS Development Tools for the Embedded World



inDART-STX/D is an in-circuit debugger/programmer which supports all of the devices of the ST72F FLASH family as well as all of the devices of the ST FIVE 508 FLASH family. It takes advantage of the ISP (In-System Programming) feature to program the FLASH memory of the target microcontrollers. inDART-STX/D seamlessly integrates into the popular ST development environment: STMicroelectronics STVD7 and Metrowerks CodeWarrior for ST7 (for working with ST7 devices) or STMicroelectronics Visual FIVE and Raisonance RKit-ST5 (for working with FIVE devices).

Features & Benefits:

- Real-Time Code Execution Without Probes--Works with All Packages
- Standard Chip Used--No Bondouts, 100% Electrical Characteristics Guaranteed
- Seamlessly Integrates Into you Favorite Development Environment
- Built-In ISP Programmer
- USB Connection to the PC

368456

Mftrs. List No.		Order Code	Price Each
INDART-STX/D	Debugger/Programmer for ST508 and ST72F (USB)	752-4625	181.59

inDART-STX/LITE2 - Design Kit for STMicroelectronics ST7FLITE2 (USB)

SofTec MICROSYSTEMS Development Tools for the Embedded World



inDART-STX/LITE2 is a Design Kit package which includes the inDART-STX in-circuit debugger/programmer unit plus an evaluation board specific for the ST7FLITE2 microcontroller (in DIP20 package). inDART-STX/LITE2 is also supported by Metrowerks CodeWarrior IDE--an evaluation version of which is provided as well. Full-speed program execution allows users to perform hardware and software testing in real time. The instrument is powered by the USB bus, so an external power supply is not required.

Features & Benefits:

- Real-Time Code Execution Without Probes--Works with All Packages
- Standard Chip Used--No Bondouts, 100% Electrical Characteristics Guaranteed
- Seamlessly Integrates Into popular ST Development Environment: STMicroelectronics STVD7 or Metrowerks CodeWarrior (Both Are Provided)
- Built-In ISP Programmer
- USB Connection to the PC
- Includes inDART-STX/D + Evaluation Board with a Sample ST7FLITE2 Microcontroller (DIP20 Package)

368458

Mftrs. List No.		Order Code	Price Each
INDART-STX/LITE2	Design Kit for ST7FLITE1 LITE2 (USB)	752-4641	222.75

RL Re-reeling available

PK-ST7FLITE2 - Starter Kit for STMicroelectronics ST7FLITE2



The PK-ST7FLITE2 Starter Kit is an entry level tool which enables the designer to get started with the STMicroelectronics ST7FLITE2 microcontroller. This Starter Kit also includes the evaluation versions of the Metrowerks and Cosmic C compilers for ST7, which seamlessly integrate with STVD7.

Features & Benefits:

- True In-Circuit Real-Time Emulation through USB interface
- STMicroelectronics STVD7 IDE, with Editor, Assembler and Debugger; Evaluation Versions of Metrowerks and Cosmic C Compilers Included
- Working Experiments in Minutes
- USB-to-ICC circuitry which allows the host PC to communicate to the microcontroller through a standard USB cable.
- prototyping area for the designer's own small application

368459

Mftrs. List No.		Order Code	Price Each
PK-ST7FLITE2	Starter Kit for ST7FLITE2 (USB)	**752-4650**	68.58

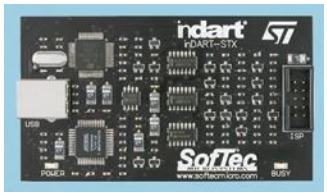
ST7LITE Microcontroller Family

The STLITE are members of the ST7 microcontroller family and are based on a common industry standard 8-bit core with an enhanced instruction set.
The STLITE features single voltage FLASH memory with In-Circuit Programming(ICP) and In-Application Programming(IAP) capability.

339012

Mftrs. List No.	Package	Prog. Mem.	RAM Size	EEPROM	I/Os/High Current	ADC Inputs	Timers 16-Bit	Timers 8-Bit	Serial Interface	Order Code	Price Each 1+	10+	100+
BASIC		(Octet)	(Octet)	(Octet)									
ST7FLITEUS2B6	8 / DIL	1 K	128	–	5(5)	–	1x12-bit	1	–	**129-2637**●	0.74	0.62	0.54
ST7FLITEUS2M6	8 / SOIC	1 K	128	–	5(5)	–	1x12-bit	1	–	SMC **129-2639**●	1.13	0.92	0.71
ST7FLITEUS5B6	8 / DIL	1 K	128	–	5(5)	5x10-bit	1x12-bit	1	–	**129-2641**●	1.84	1.43	1.13
ST7FLITEUS5M6	8 / SOIC	1 K	128	–	5(5)	5x10-bit	1x12-bit	1	–	SMC **129-2642**●	1.88	1.39	1.19
ST7FLITE02Y0M6	16 / SOIC	1.5 K	128	–	13(6)	–	1x12-bit	1	SPI	SMC **109-4450**●	2.21	1.58	1.27
ST7FLITES2Y0B6	16 / DIP	1 K	128	–	13(6)	–	1x12-bit	1	SPI	**109-4446**●	1.29	1.06	0.86
ST7FLITES2Y0M6	16 / SOIC	1 K	128	–	13(6)	–	1x12-bit	1	SPI	SMC **109-4447**●	1.07	0.86	0.69
ST7FLITE05Y0M6	16 / SOIC	1.5 K	128	–	13(6)	5x8-bit	1x12-bit	1	SPI	SMC **109-4451**●	2.68	2.19	1.72
ST7FLITE05Y0B6	16 / DIP	1.5 K	128	–	13(6)	5x8-bit	1x12-bit	1	SPI	**975-6280**●	2.04	1.57	1.30
ST7FLITES5Y0B6	16 / DIP	1 K	128	–	13(6)	5x8-bit	1x12-bit	1	SPI	**109-4448**●	1.32	1.04	0.85
ST7FLITES5Y0M6	16 / SOIC	1 K	128	–	13(6)	5x8-bit	1x12-bit	1	SPI	SMC **109-4449**●	1.32	1.04	0.85
ST7FLITE09Y0M6	16 / SOT	1.5 K	128	128	13(6)	5x8-bit	1x12-bit	1	SPI	SMC **109-4453**●	1.90	1.46	1.14
ST7FLITE09Y0B6	16 / DIP	1.5 K	128	128	13(6)	5x8-bit	1x12-bit	1	SPI	**975-6299**●	3.36	2.57	1.86
ST7FLIT10BF0M6	20 / SOIC	2 K	256	–	17(7)	7x10-bit	2x12-bit	2	SPI	SMC **128-7256**●	1.47	1.20	1.06
ST7FLIT10BF0B6	20 / DIL	2 K	256	–	17(7)	7x10-bit	2x12-bit	2	SPI	**128-7257**●	1.27	1.03	0.80
ST7FLIT10BF1M6	20 / SOIC	4 K	256	–	17(7)	7x10-bit	2x12-bit	2	SPI	SMC **128-7269**●	1.35	1.09	0.87
ST7FLIT10BF1B6	20 / DIL	4 K	256	–	17(7)	7x10-bit	2x12-bit	2	SPI	**128-7270**●	1.27	1.03	0.81
ST7FLIT10BY0M6	16 / SOIC	2 K	256	–	13(5)	7x10-bit	2x12-bit	2	SPI	SMC **128-7258**●	1.43	1.16	1.03
ST7FLIT10BY0B6	16 / DIL	2 K	256	–	13(5)	7x10-bit	2x12-bit	2	SPI	**128-7259**●	2.19	1.80	1.42
ST7FLIT10BY1M6	16 / SOIC	4 K	256	–	13(5)	7x10-bit	2x12-bit	2	SPI	SMC **128-7271**●	1.30	1.05	0.82
ST7FLIT10BY1B6	16 / DIL	4 K	256	–	13(5)	7x10-bit	2x12-bit	2	SPI	**128-7272**●	1.30	1.05	0.82
ST7FLITE10F1B6	20 / DIP	4 K	256	–	15(7)	7x10-bit	1x12-bit	2	SPI	**975-6302**●	2.22	1.76	1.73
ST7FLIT15BF0M6	20 / SOIC	2 K	256	–	17(7)	7x10-bit	2x12-bit	2	SPI	SMC **128-7260**●	1.51	1.23	1.11
ST7FLIT15BF0B6	20 / DIL	2 K	256	–	17(7)	7x10-bit	2x12-bit	2	SPI	**128-7261**●	1.38	1.13	0.89
ST7FLIT15BF1M6	20 / SOIC	4 K	256	–	17(7)	7x10-bit	2x12-bit	2	SPI	SMC **128-7273**●	2.25	1.83	1.46
ST7FLIT15BF1B6	20 / DIL	4 K	256	–	17(7)	7x10-bit	2x12-bit	2	SPI	**128-7274**●	1.47	1.21	0.94
ST7FLIT15BY0M6	16 / SOIC	2 K	256	–	13(5)	7x10-bit	2x12-bit	2	SPI	SMC **128-7262**●	1.51	1.23	1.09
ST7FLIT15BY0B6	16 / DIL	2 K	256	–	13(5)	7x10-bit	2x12-bit	2	SPI	**128-7263**●	1.23	1.00	0.78
ST7FLIT15BY1M6	16 / SOIC	4 K	256	–	13(5)	7x10-bit	2x12-bit	2	SPI	SMC **128-7276**●	2.26	1.83	1.45
ST7FLIT15BY1B6	16 / DIL	4 K	256	–	13(5)	7x10-bit	2x12-bit	2	SPI	**128-7277**●	1.39	1.13	0.89
ST7FLITE15F1M6	20 / SOIC	4 K	256	–	15(7)	7x10-bit	1x12-bit	2	SPI	SMC **109-4455**●	4.12	3.36	2.61
ST7FLIT19BF0M6	20 / SOIC	2 K	256	128	17(7)	7x10-bit	2x12-bit	2	SPI	SMC **128-7264**●	1.83	1.51	1.33
ST7FLIT19BF0B6	20 / DIL	2 K	256	128	17(7)	7x10-bit	2x12-bit	2	SPI	**128-7265**●	1.71	1.42	1.33
ST7FLIT19BF1M6	20 / SOIC	4 K	256	128	17(7)	7x10-bit	2x12-bit	2	SPI	SMC **128-7279**●	4.19	3.28	2.31
ST7FLIT19BF1B6	20 / DIL	4 K	256	128	17(7)	7x10-bit	2x12-bit	2	SPI	**128-7281**●	4.19	3.28	2.31
ST7FLIT19BY0M6	16 / SOIC	2 K	256	128	13(5)	7x10-bit	2x12-bit	2	SPI	SMC **128-7267**●	1.47	1.21	0.94
ST7FLIT19BY0B6	16 / DIL	2 K	256	128	13(5)	7x10-bit	2x12-bit	2	SPI	**128-7268**●	1.47	1.21	0.94
ST7FLIT19BY1M6	16 / SOIC	4 K	256	128	13(5)	7x10-bit	2x12-bit	2	SPI	SMC **128-7282**●	3.32	2.74	2.31
ST7FLIT19BY1B6	16 / DIL	4 K	256	128	13(5)	7x10-bit	2x12-bit	2	SPI	**128-7283**●	2.18	1.68	1.20
ST7FLITE19F1M6	20 / SOIC	4 K	256	128	15(7)	7x10-bit	1x12-bit	2	SPI	SMC **109-4456**●	2.94	2.39	1.86
ST7FLITE19F1B6	20 / DIP	4 K	256	128	15(7)	7x10-bit	1x12-bit	2	SPI	**975-6329**●	2.55	1.96	1.41
ST7FLITE20F2B6	20 / DIP	8 K	384	–	15(7)	7x10-bit	1x12-bit	2	SPI	**975-6337**●	3.71	2.75	1.96
ST7FLITE25F2M6	20 / SOIC	8 K	384	–	15(7)	7x10-bit	1x12-bit	2	SPI	SMC **109-4458**●	4.55	3.71	2.73
ST7FLITE25F2B6	20 / DIP	8 K	384	–	15(7)	7x10-bit	1x12-bit	2	SPI	**975-6345**●	3.85	2.85	2.03
ST7FLITE29F2M6	20 / SOIC	8 K	384	256	15(7)	7x10-bit	1x12-bit	2	SPI	SMC **128-7284**●	3.24	2.62	2.05
ST7FLITE29F2B6	20 / DIP	8 K	384	256	15(7)	7x10-bit	1x12-bit	2	SPI	**975-6353**●	5.17	3.94	3.06
ST7FLITE30F2M6	20 / SOIC	8K	384	–	15(7)	7x10-bit	2x12-bit	2	SPI/LINSCI	**128-7285**●	1.50	1.22	0.95
ST7FLITE30F2B6	20 / DIP	8 K	384	–	15(7)	7x10-bit	2x12-bit	2	SPI/LINSCI	**128-7286**●	2.16	1.75	1.37
ST7FLITE35F2M6	20 / SOIC	8 K	384	–	15(7)	7x10-bit	2x12-bit	2	SPI/LINSCI	SMC **128-7287**●	3.02	2.44	1.89
ST7FLITE35F2B6	20 / DIP	8 K	384	–	15(7)	7x10-bit	2x12-bit	2	SPI/LINSCI	**128-7288**●	1.82	1.49	1.40
ST7FLITE39F2M6	20 / SOIC	8 K	384	256	15(7)	7x10-bit	2x12-bit	1	SPI/LINSCI	SMC **128-7289**●	2.90	2.79	2.61
ST7FLITE39F2B6	20 / DIP	8 K	384	256	15(7)	7x10-bit	2x12-bit	1	SPI/LINSCI	**128-7290**●	2.39	1.97	1.68

In-Circuit Debugging and In-Circuit Programming Tool for STMicroelectronics ST7FLITE0x / ST7FLIT2x Families (USB)



The inDart-ST7 is a powerful, low-cost In-Circuit Debugging (ICD) and In-Circuit Programming (ICP) tool, developed for STMicroelectronics ST7 8-bit Microcontroller Family.

Features & Benefits:

- Real-Time code execution without probes
- Works with all device packages
- Standard Chip Used, so no Bondouts, 100% electrical characteristics guaranteed
- STVD7 Source Level Debugger
- Built-In ISP Programmer
- USB Connection to the host PC

423004

Mftrs. List No.	Order Code	Price Each
inDART for ST7FLITE0x Microcontrollers		
ST7FLIT0-IND/USB	**109-4460**	346.61
inDART for ST7FLITE2x Microcontrollers		
ST7FLIT2-IND/USB	**109-4461**●	334.21

RL Re-reeling available

Farnell

Microcontrollers and Microprocessors - 8-Bit - ST - continued

DEBUGGER FOR ST7, STR7, UPSD PROGRAMMER



The RLink (STX-RLINK) is Raisonance's versatile, low-cost, in-circuit debugger and programmer for ST7, uPSD, and STR7 microcontrollers. It connects to application or evaluation boards for programming and debugging via a JTAG standard connection for ARM core-based and uPSD microcontrollers, or via STMicroelectronic's In-Circuit Communication (ICC) connection for ST7 microcontrollers.

- In-circuit debugging and programming
- Connection to application board via JTAG standard, or ST standard ICC connection
- USB interface to host PC
- Powered from USB

429312

Mftrs. List No	Order Code	Price Each
STX-RLINK	117-1272	55.70

FREE technical support
Our trained engineers are here to help!
08447 11 11 22
techsales@farnell.co.uk
Live technical chat at www.farnell.co.uk

STM8S Flash Microcontrollers

The STM8S family of 8bit flash MCUs offer an ideal solution for industrial and appliance market requirements. The microcontrollers boast an advanced core version combined with 3-stage pipeline ranks, true embedded EEPROM and calibrated RC oscillators.

New

527508

Mftrs. List No.	Pkg	Pins	Flash (KB)	RAM (KB)	EEPROM (KB)	ADC Channels/Bits	Timer Func (IC/OC/PWM)	Interface Type	I/O Pins	Frequency MHz	Order Code	Price Each 1+	10+	100+	250+
STM8S207K6T6C	LQFP	32	32	2	1	7 / 10	1x8bit, 3x16bit (8/8/11)	SPI, UART, I2C	25	24	SMD-168-3827●	1.97	1.41	1.09	1.02
STM8S207S6T6C	LQFP	44	32	2	1	9 / 10	1x8bit, 3x16bit (8/8/11)	SPI, UART, I2C	34	24	SMD-168-3830●	2.10	1.51	1.17	1.09
STM8S207C6T6	LQFP	48	32	2	1	10 / 10	1x8bit, 3x16bit (9/9/12)	SPI, UART, I2C	38	24	SMD-168-3824●	2.10	1.51	1.17	1.09
STM8S207C8T6	LQFP	48	64	4	1.5	10 / 10	1x8bit, 3x16bit (9/9/12)	SPI, UART, I2C	38	24	SMD-168-3825●	2.30	1.65	1.28	1.19
STM8S207CBT6	LQFP	48	128	6	2	10 / 10	1x8bit, 3x16bit (9/9/12)	SPI, UART, I2C	38	24	SMD-168-3826●	2.62	1.89	1.46	1.36
STM8S207R8T6	LQFP	64	64	4	1.5	16 / 10	1x8bit, 3x16bit (9/9/12)	SPI, UART, I2C	52	24	SMD-168-3828●	2.43	1.74	1.36	1.27
STM8S207RBT6	LQFP	64	128	6	2	16 / 10	1x8bit, 3x16bit (9/9/12)	SPI, UART, I2C	52	24	SMD-168-3829●	2.89	2.08	1.61	1.50
STM8S208RBT6	LQFP	64	128	6	2	16 / 10	1x8bit, 3x16bit (9/9/12)	CAN, SPI, UART, I2C	52	24	SMD-168-3831●	3.16	2.28	1.77	1.64

STM8S2XX Evaluation Board



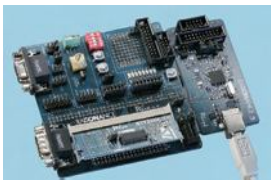
New

This evaluation board is a complete development platform for the STM8S2xx (128K) 8-bit MCUs. It provides a flexible and open design area, ideal for demonstrating device capabilities. Added to this the board can evaluate many peripherals and features including CAN2.0A/B, I^2C, SPI, USART channels with smart card, IrDA and LIN support.

527523

Mftrs. List No.	Description	Order Code	Price Each 1+
STM8/128-EVAL	STM8S (128K) Evaluation Board	168-3821●	142.21

STM8S REva Starter Kit



New

This Raisonance starter kit is a complete solution for application development and evaluation of the STM8S family of MCUs.

Features Include:

- Ride development environment
- Raisonance C compiler
- RLink (USB/JTAG) in-circuit debugger/programmer
- Demonstration motherboard
- Daughter board
- STM8S target device

527524

Mftrs. List No.	Description	Order Code	Price Each 1+
STM8/128-SK/RAIS	STM8S REva Starter Kit	168-3823●	147.25

Starter Kit for STR710



The kits are full-featured solutions for starting application development andevaluating the features of STMicroelectronic's STR7 ARM® core-based microcontrollers. They come with all the hardware and software developers need to start developing applications for STR7 devices, including full-featured evaluation board, STR7 microcontroller, Tantino JTAG interface and the HiTOP5 Integrated-Development Environment with GNU C/C++ toolset.

429714

Mftrs. List No	Order Code	Price Each
STKPS-ARM-STR710	116-9519	296.20

STR7 Starter Kit

The REva Starter Kits are Raisonance's complete, cost-effective solutions for starting application development and evaluating the features of STR7 ARM core-based microcontrollers. They come with all the hardware and software developers need to start developing applications for STR7 devices, including the REva evaluation board, STR7 microcontrollers, the embedded RLink JTAG interface and the Raisonance Integrated Development Environment (RIDE).

Embedded RLink:

- USB interface to host PC
- JTAG standard interface

REva mother board:

- 1 standard SO-DIMM connector to plug in
- daughter boards.
- RS232 driver and 2 DB9 connectors
- USB powered, no external power required
- VDD settings for 1.8V, 3.3V and 5V

429303

Mftrs. List No	Description	Order Code	Price Each
STR730-SK/RAIS	With STR730F DaughterBoard	117-1268	158.44
STR71X-SK/RAIS	With STR711F and STR712F DaughterBoards	117-1269	177.31

700 products added online every week
See our pick of the hottest products and latest technologies in '**What's New?**' at **www.farnell.co.uk**

STR711/12 EVAL BOARD KIT

The KickStart Kits™ are IAR's complete, cost-effective solutions for starting application development and evaluating STMicroelectronic's ARM® core-based microcontrollers.
They come with all the hardware and software you need to start developing applications for STR711F, STR712F devices, including the KickStart Development Board with STR7 micro-controller, the IAR JLink-KS USB-to- JTAG debugger and IAR Embedded Workbench® for ARM (EWARM) integrated development environment with the 32KB KickStart version of the C/C++ compiler, built in Flash loader and sample projects covering all STR7 peripherals.

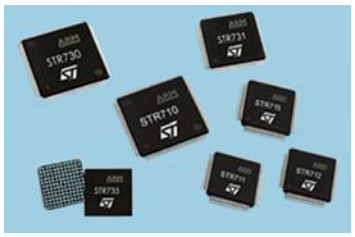
- Supplies power from USB connection via pin 19 of the JTAG connector (no additional power supply required).
- Supported platforms: Microsoft® Windows® 2000 and XP
- Download speed up to 50KB/sec

429305

Mftrs. List No	Order Code	Price Each
STR711-SK/IAR	117-1270	236.95

STR7 Flash Family

32-bit ARM-based Microcontrollers



STR7 Flash microcontrollers are a new generation of super-integrated, single chip devices, combining the industry standard ARM7TDMI® RISC microprocessor with embedded Flash and powerful peripheral functions including USB and CAN. They are ideal for embedded applications requiring a compact yet powerful MCU, or versatile, scalable solutions such as user interfaces, factory automation systems and Point of Sale applications.

Key features:

- Fast memory access times
- Low power consumption
- Superior interrupt handling
- Wide range of peripherals including UARTs CAN, USB2.0 HDLC dual I²C and real time clocks
- Best support for IAP
- Memory protection sector prevents unauthorised code access

442355

Mftrs. List No.	Package	FLASH (KByte)	RAM (KByte)	FLASH (KByte)	Frequency (MHz)	Pins	Interface	(V)	Order Code	Price Each 1+	10+	100+
STR711FR0T6	64/TQFP	64	16	16	16	30	2xSPI, 2xI²C, 4xUART, HDLC, SC, USB	3.0 to 3.6	SMD 109-4481	5.56	4.88	4.75
STR712FR0T6	64/TQFP	64	16	16	16	32	2xSPI, 2xI²C, 4xUART, HDLC, SC, CAN	3.0 to 3.6	SMD 109-4484	6.61	5.34	4.04
STR715FR0T6	64/TQFP	64	16	16	16	32	2xSPI, 2xI²C, 4xUART, HDLC, SC	3.0 to 3.6	SMD 109-4487	7.99	6.22	4.70
STR710FZ1T6	144/TQFP	128	32	16	16	48	2xSPI, 2xI²C, 4xUART, HDLC, SC, CAN, USB	3.0 to 3.6	SMD 109-4479	11.35	10.37	8.79
STR712FR1T6	64/TQFP	128	32	16	16	32	2xSPI, 2xI²C, 4xUART, HDLC, SC, CAN	3.0 to 3.6	SMD 109-4485	11.52	9.56	7.51
STR710FZ2T6	144/TQFP	256	64	16	16	48	2xSPI, 2xI²C, 4xUART, HDLC, SC, CAN, USB	3.0 to 3.6	SMD 109-4480	19.36	15.92	12.11
STR711FR2T6	64/TQFP	256	64	16	16	30	2xSPI, 2xI²C, 4xUART, HDLC, SC, USB	3.0 to 3.6	SMD 109-4483	11.68	9.20	6.66
STR712FR2T6	64/TQFP	256	64	16	16	32	2xSPI, 2xI²C, 4xUART, HDLC, SC, CAN	3.0 to 3.6	SMD 109-4486	14.24	11.64	8.84
STR730FZ2T7	144/TQFP	256	16	—	36	112	3xSPI, 2xI²C, 4xUART, 3xCAN	4.5 to 5.5	SMD 117-2287	18.48	16.51	13.53
STR731FV2T7	100/TQFP	128	16	—	36	72	3xSPI, 2xI²C, 4xUART, 3xCAN	4.5 to 5.5	SMD 117-2289	11.35	11.02	10.73
STR735FZ2T7	144/TQFP	128	16	—	36	112	3xSPI, 2xI²C, 4xUART	4.5 to 5.5	SMD 117-2288	16.17	13.37	10.46
STR736FV2T7	100/TQFP	256	16	—	36	72	3xSPI, 2xI²C, 4xUART	4.5 to 5.5	SMD 117-2290	8.20	6.76	5.58
STR730FZ1T6	144/TQFP	128	16	—	36	112	3xSPI, 2xI²C, 4xUART, 3xCAN	4.5 to 5.5	SMD 129-2662	9.96	8.10	7.20
STR735FZ1T6	144/TQFP	128	16	—	36	112	3xSPI, 2xI²C, 4xUART, 3xCAN	4.5 to 5.5	SMD 129-2665	13.06	10.56	8.24
STR735FZ2T6	144/TQFP	256	16	—	36	112	3xSPI, 2xI²C, 4xUART, 3xCAN	4.5 to 5.5	SMD 129-2666	8.50	6.95	5.91
STR731FV2T6	100/TQFP	256	16	—	36	72	3xSPI, 2xI²C, 4xUART, 3xCAN	4.5 to 5.5	SMD 129-2669	16.04	13.14	10.11
STR736FV0T6	100/TQFP	64	16	—	36	72	3xSPI, 2xI²C, 4xUART, 3xCAN	4.5 to 5.5	SMD 129-2670	9.64	7.84	6.16
STR736FV1T6	100/TQFP	128	16	—	36	72	3xSPI, 2xI²C, 4xUART, 3xCAN	4.5 to 5.5	SMD 129-2671	6.76	5.50	4.31
STR736FV2T6	100/TQFP	256	16	—	36	72	3xSPI, 2xI²C, 4xUART, 3xCAN	4.5 to 5.5	SMD 129-2672	14.73	12.15	9.18

µPSD Microcontroller Family

Flash 8032 microcontrollers with programmable logic and USB

µPSD is a family of 8-bit microcontrollers built on an 8032 microcontroller core.The µPSD family devices feature large dual-bank Flash memories, a large SRAM, Flash-based programmable logic and JTAG in-system programming (ISP). The family's 24/40MHz 8032 core supports USB and many other on-chip peripherals making the devices suitable for a variety of embedded control applications.

Key features:

- On-chip programmable Logic
- Multiple communication interfaces including: USB, SPI, I²C, IrDA, UART(x2)
- JTAG in system programming and Debug
- 4 channel, 8-bit ADC
- 40MHz 5V or 24MHz 3.3V 8032 core

442347

Mftrs. List No.	Package	Flash (KByte)	RAM (KByte)	EEPROM (KByte)	Frequency (MHz)	Pins	Features	(V)	Order Code	Price Each 1+	10+	100+
UPSD3234A-40U6	80/TQFP	256	8	32	40	46	UART (x2), I2C, DDC, USB	4.5 to 5	SMD 109-4468	12.59	11.00	9.20
UPSD3234BV-24U6	80/TQFP	256	8	32	24	46	UART (x2), I2C, DDC	3.0 to 3.6	SMD 109-4469	8.22	6.73	6.61
UPSD3234A-40T6	52/TQFP	256	8	32	40	37	UART (x2), I2C, DDC, USB	4.5 to 5	SMD 109-4467	8.05	6.82	5.46
UPSD3212C-40T6	52/TQFP	64	2	16	40	37	UART (x2), I2C, DDC	4.5 to 5	SMD 109-4462	10.03	8.42	6.37
UPSD3312DV-40T6	52/TQFP	80	2		40	37	UART (x2), I2C, SPI, IrDA	3.0 to 5.5	SMD 129-2648	5.79	4.66	4.32
UPSD3333D-40U6	80/TQFP	160	8		40	46	UART (x2), I2C, SPI, IrDA	4.5 to 5.5	SMD 129-2649	10.88	8.57	6.20
UPSD3333DV-40U6	80/TQFP	160	8		40	46	UART (x2), I2C, SPI, IrDA	3.0 to 5.5	SMD 129-2652	7.98	6.81	6.29
UPSD3334DV-40U6	80/TQFP	288	8		40	46	UART (x2), I2C, SPI, IrDA	3.0 to 5.5	SMD 129-2653	15.57	12.72	9.61
UPSD3422E-40U6	80/TQFP	96	4		40	46	UART (x2), I2C, SPI, IrDA	4.5 to 6.5	SMD 129-2657	6.60	5.28	4.05
UPSD3433E-40U6	80/TQFP	160	8		40	46	UART (x2), I2C, SPI, IrDA	4.5 to 6.5	SMD 129-2659	10.42	8.45	7.02
UPSD3434E-40T6	52/TQFP	288	8		40	35	UART (x2), I2C, SPI, IrDA	4.5 to 6.5	SMD 129-2660	12.63	10.24	8.49

Turbo µPSD Microcontroller Family

High-performance 8-bit microcontrollers with USB and JTAG debug

The Turbo uPSD family of high-performance 8-bit microcontrollers combine the 8051 MCU core with a flexible memory structure, programmable logic, and a verity of analog and digital peripherals. These features are supported by the 4-pin serial JTAG interface, which provides non-intrusive, real-time debugging, and fast programming of Flash memory. The Turbo µPSD Microcontrollers are well suited to applications in a wide range of situations e.g. vending machines, building security systems or automotive GPS.

Key features:

- 10 MIPs 40 MHz Turbo 8032 core
- USB 2.0 peripheral (on selected devices)
- On-chip debugging via JTAG interface
- In system serial programming via JTAG interface
- 8 channel/10-bit A/D with fast conversion
- Watchdog timer
- Two timers

442339

Mftrs. List No.	Package	Flash (KByte)	RAM (KByte)	EEPROM (KByte)	Pins	Features	(V)	Order Code	Price Each 1+	10+	100+
UPSD3312D-40T6	52/TQFP	80	2	16	36	UART (x2), I2C, SPI	4.5 to 5.5	SMD 109-9713	10.89	8.79	6.70
UPSD3333D-40T6	52/TQFP	160	8	32	36	UART (x2), I2C, SPI	4.5 to 5.5	SMD 109-9714	7.47	7.26	7.06
UPSD3354DV-40U6	80/TQFP	288	32	32	45	UART (x2), I2C, SPI	3.0 to 3.6	SMD 109-9717	12.99	11.12	8.97
UPSD3354D-40U6	80/TQFP	288	32	32	45	UART (x2), I2C, SPI	4.5 to 5.5	SMD 109-9716	19.36	15.80	12.00
UPSD3422EV-40T6	52/TQFP	80	4	32	36	USB, SPI, I2C, UART(x2), IrDR	3.0 to 3.6	SMD 109-4470	7.49	6.94	5.61
UPSD3422EV-40U6	80/TQFP	80	4	32	45	USB, SPI, I2C, UART(x2), IrDR	3.0 to 3.6	SMD 109-4471	6.01	4.80	3.94
UPSD3433EV-40T6	52/TQFP	160	8	32	36	USB, SPI, I2C, UART(x2), IrDR	3.0 to 3.6	SMD 109-4472	6.91	5.88	2.92
UPSD3434EV-40T6	52/TQFP	288	8	32	36	USB, SPI, I2C, UART(x2), IrDR	3.0 to 3.6	SMD 109-4474	4.54	– –	– –
UPSD3434EV-40U6	80/TQFP	288	8	32	45	USB, SPI, I2C, UART(x2)	3.0 to 3.6	SMD 109-4475	9.29	7.22	5.63

RL Re-reeling available
Farnell

Microcontrollers and Microprocessors - 8-Bit - TOSHIBA

TOSHIBA

TMP Series Microcontrollers

The TMP Series is a high-speed, high-performance microcomputer with built-in flash memory and it is pin compatible with its mask ROM version. Writing programs in the built-in flash memory enables this microcomputer to perform the same operations as the other versions. The built-in flash memory can be rewritten on board (without removing it from the PCB) by a built-in boot program.

452104

Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
8Bit MCU,16K Flash,512B RAM	TMP86FH12MG	SMD 129-7167●	3.35	2.67	2.22
8Bit MCU,16K Flash,512B RAM	TMP86FH47UG	SMD 129-7155●	2.57	1.80	1.52
8Bit MCU,32K Flash,LCD DRVR	TMP86FM26UG	SMD 129-7169●	6.02	4.81	4.02
8Bit MCU,32K Flash,LCD Driver	TMP86FM29UG	SMD 129-7160●	5.00	3.40	2.59
8Bit MCU,60K Flash, 2K RAM	TMP86FS28FG	SMD 129-7171●	5.15	4.12	3.44
8Bit MCU, 60K Flash,2K RAM	TMP86FS49AFG(Z)	SMD 129-7154●	4.63	3.16	2.55
8Bit MCU,60K Flash, 2K RAM	TMP86FS49AUG(JZ)	SMD 129-7153●	3.60	2.66	2.43
8Bit MCU,122K Flash,MOT CNTRL	TMP88FW45FG	SMD 129-7166●	6.65	5.31	4.44
32Bit.ROMLESS.LCD CNTRL	TMP92CH21FG	SMD 129-7164●	10.40	8.32	6.94
32Bit MCU,512K Flash,2.0B CAN	TMP92FD54AIFG	SMD 129-7163●	20.78	15.13	13.86

Microcontrollers and Microprocessors - 8-Bit - ZILOG

ZiLOG

eZ80 8-Bit Flash Microcontrollers

The eZ80F91/F92/L92 Microcontrollers are high-speed, single-cycle, instruction-fetch devices with on-chip Flash program memory. The eZ80Acclaim!™ Flash MCU devices provide the memory needed to implement communication protocol stacks and achieve the flexibility when performing in-system updates of application firmware.

372745

	Pins	Package	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
eZ80F91	144	LQFP	256Kb Flash eZ80Acclaim MCU, 16Kb SRAM	EZ80F91AZ050SG	SMD 780-5233●	10.21	9.62	9.37
eZ80L92	100	LQFP	128Kb Flash eZ80Acclaim MCU, 8Kb SRAM	EZ80L92AZ020SG	SMD 780-5284●	9.83	7.04	4.99

Z8F08X and Z8F642 Development Kits

ZiLOG



The Z8 Encore!® MCU Development Kits offer all the hardware and software tools required for the Z8 Encore based designs with the benefit of a greatly reduced time-to-market. A free full version ANSI-C-Compiler is also included.

Features:

Hardware:
- Development Board, Smart Cable for PC to Z8 Encore!®
- Z8F08x or Z8F642 Development Board
- Universal 5VDC Power Supply

Software:
- ZDS II - Z8 Encore!® IDE with ANSI C-Compiler
- Sample code
- Document browser

Documentation:
- Quick Start Guide
- Development Kit User Manual
- ZDS II - IDE User Manual
- eZ8 CPU User Manual
- Product Specification
- Product Briefs
- Application Notes

342882.345150

Mftrs. List No.	Description	Order Code	Price Each
Z8F08200100KIT	Z8 Encore! 8K/4K MCU Eval. Kit	529-1914	32.96

Z8 Encore! Development Kits

ZiLOG



New

Features:

Hardware
- Development Board
- USB Smart Cable for PC to Z8 Encore!® Development Board
- Universal 5VDC Power Supply

Software
- ZDS II - Z8 Encore!® IDE with ANSI C-Compiler
- Sample Code
- Document Browser

Documentation
- Quick Start Guide
- Development Kit User Manual
- ZDS II - IDE User Manual
- Product Specification
- Product Briefs
- Application Notes

These development kits are a complete solution providing all necessary hardware and software tools including a free full-version ANSI C-Compiler to get your design to market easily and quickly.

503845

Mftrs. List No.	Order Code	Price Each
Z8F04A08100KITG Z8 Encore! XP 4K Series 8-Pin Development Kit	155-8094●	31.21
Z8F04A28100KITG Z8 Encore! XP 4K Series 20, 28-Pin Development Kit	155-8095●	27.12
Z8F08200100KITG Z8 Encore! 8K/4K MCU Development Kit	155-8096●	27.12
Z8F08A28100KITG Z8 Encore! XP F08xA Series Development Kit	155-8097●	27.12

Z8 8-Bit Flash Microcontrollers

ZiLOG

These Flash Microcontrollers are part of the Z8 Encore!™Series and are designed to set a new standard for performance and on-chip-peripherals. The devices come in various packages with between 20 and 80-pins and upto 64KB of Flash program memory and 4KB RAM. The new single-pin debugger and programming interface simplifies code development and allows for easy in-circuit programming. The full-duplex UART provides serial communications and IrDA encoding an decoding capability. Up to 12 channels of 10-bit ADC are available depending on the product, along with 16-bit timers/PWM and an on-chip debugger.

372751

	Pins	Package	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
Z8F0411	20	SSOP	8-Bit 4K Flash Z8 MCU, 1K RAM	Z8F0411HH020SG	SMD 780-5306●	2.44	1.76	1.24
Z8F0422	28	DIP	8-Bit 4K Flash Z8 MCU, 1K RAM	Z8F0422PJ020SG	780-5373●	3.40	2.22	1.57
Z8R0812	28	SOIC	8-Bit 8K Flash Z8 MCU, 1K RAM	Z8F0812SJ020SG	SMD 780-5438●	3.11	1.98	1.87
Z8F0822	28	DIP	8-Bit 8K Flash Z8 MCU, 1K RAM	Z8F0822PJ020SG	780-5462●	3.58	2.29	2.14
Z8F0822	28	SOIC	8-Bit 8K Flash Z8 MCU, 1K RAM	Z8F0822SJ020SG	SMD 780-5470●	3.32	2.14	2.08
Z8F1621	44	LQFP	8-Bit 16K Flash Z8 MCU, 2K RAM	Z8F1621AN020SG	SMD 780-5489●	4.71	3.92	3.21
Z8F3221	44	LQFP	8-Bit 32K Flash Z8 MCU, 2K RAM	Z8F3221AN020SG	SMD 780-5543●	5.24	3.61	3.51
Z8F6421	40	DIP	8-Bit 64K Flash Z8 MCU, 4K RAM	Z8F6421PM020SG	780-5594●	6.68	4.53	4.41
Z8F6421	44	PLCC	8-Bit 64K Flash Z8 MCU, 4K RAM	Z8F6421VN020SG	SMD 780-5608●	6.44	4.53	4.41
Z8F6422	68	PLCC	8-Bit 64K Flash Z8 MCU, 4K RAM	Z8F6422VS020SG	SMD 780-5616●	6.68	4.67	4.55
Z8F6423	80	QFP	8-Bit 64K Flash Z8 MCU, 4K RAM	Z8F6423FT020SG	SMD 780-5624●	6.68	4.76	4.64

RL Re-reeling available

Z86E03-40

ZiLOG

A low cost family of 8-bit microcontrollers from Zilog with on-board OTP PROM, RAM, I/O, timer/counters, watchdog, power-on reset/brown out protection and two comparator inputs that can be configured to provide analogue inputs/ADCs.

Features include:

Register-to-register architecture — avoids accumulator bottlenecks and is more code efficient than RISC processors.
Two timers on most devices (exception Z86E03) — combines with flexible clocking and interrupt modes for simpler software solutions.
Relocatable stack — only limited in size by total RAM space.
Fast context switching — to rapidly respond to interrupts and switch tasks.

Applications:
- Security systems
- Smart cards
- Exercise equipment
- Keyboards
- Remote controls
- Monitors
- Electronic games
- Answering machines
- Kitchen appliances
- Mobile phones
- Microwave ovens
- Automotive modules
- Card readers
- Industrial controls

210510

	Pins	Pkg.	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	+
86E04	18	DIP	8-Bit Microcontroller, 1Kb OTP PROM, 124 bytes RAM, 14 I/O lines, With crystal oscillator - 12MHz	Z86E0412PSG1866	108-1881●	2.13	1.74	1.60	– –
86E08	18	DIP	8-Bit Microcontroller, 2Kb OTP PROM, 124 bytes RAM, 14 I/O lines, With crystal oscillator - 12MHz	Z86E0812PSG1866	108-1884●	2.08	1.37	1.02	– –
86E30	28	DIP	8-Bit Microcontroller, 4Kb OTP PROM, 236 bytes RAM, 24 I/O lines, With selectable oscillator - 16MHz	Z86E3016PSG	108-1885●	5.89	3.76	2.83	– –
Z8									
80180	64	DIP	8-Bit CMOS CPU, 10MHz Clock (enhanced Z80)	Z8018010PSG	108-1879●	10.04	6.42	4.67	– –

Z8S180

ZiLOG

An enhanced model of the Z80180 with faster execute speeds, power saving modes and EMI noise reduction.

Features include:
- Core compatible with 780 CPU
- Extended instructions
- Low power down modes
- On-chip interrupt controller
- On-chip oscillator/generator
- Clocked serial I/O port
- 2 x 16-bit timers
- 2 UARTs

210956

	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
Z8S180	68	PLCC	8-Bit COMS CPU, 33MHz (enhanced Z80180)	Z8S18033VSG	SMD 108-1880●	12.08	7.72	5.47

224009

Z8x	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
84C	40	DIP	8-Bit CMOS CPU, 8MHz	Z84C0008PEG	108-1890●	4.39	2.80	1.98
84C	40	DIP	8-Bit CMOS CPU, 10MHz	Z84C0010PEG	108-1891●	4.39	3.38	2.98
86C91	40	DIP	8-Bit CMOS CPU, 236 bytes RAM, 24 I/O lines, UART 16MHz,(ROMless, up to 64K bytes of external ROM)	Z86C9116PSG	108-1887●	15.04	9.63	7.40

Microcontrollers and Microprocessors - 8/16/32-Bit - MICROCHIP - Development Tools

PICSTART® Plus - Low Cost Development/Evaluation System

MICROCHIP



The PICSTART® Plus development system from Microchip provides a highly flexible low cost entry level programming tool for all of the PIC 8-bit series of microcontrollers including One Time Programmable, Erasable and FLASH devices.

The 40 way universal ZIF socket accepts device sizes from 8-pin 0.3" to 40-pin 0.6" DIL.

PICSTART Plus operates in a Windows 3.1, 95, 98, NT environment on any PC compatible machine, access to a serial port is required for communication.

The PICSTART Plus is easy-to-use and features Microchip's highly acclaimed MPLAB™ Integrated Development Environment (IDE). This features an editor, MPASM assembler and Windows based simulator which provides a comprehensive user interface with on-screen views of all used registers during program simulation.

A copy of the PICC™ LITE C compiler is included, this is limited to compile specifically for the sample PIC16F84 included with the kit.

Full documentation is included and software is supplied together with device data on CD-ROM. The development system is supplied complete with 9-way RS-232 cable, PIC16F84 device sample and a universal power supply.

UK or International IEC power leads are available separately.

229993

	Order Code	Price Each
PICSTART Plus Development/Evaluation system	704-740	143.03
Upgrade Kit for PICStart+ (UK003010)	501-0925	21.45
8-pin DFN-S (MLF) adapter for PICStart+ and PROMATE II with AC164012 (445-666) socket module	424-1990	114.43
European mains lead	112-4379●	5.75

PIC In-Circuit Programmer



The ISPIC Adaptor allows for In-Circuit Programming of serially programmable PICmicros, including One Time Programmable and FLASH devices.
The adaptor plugs into the programmer ZIF socket, such as the PICStart+ (704740), with the cable end connecting to the target board containing the target PICmicro.

Features:
- In-Circuit Programming of PICmicro
- Connects directly from any PIC programmer
- Easy programming of any package
- Connects directly to programmer ZIF socket
- Connects directly to target board
- Use male header, Order Code: 673225

Device Support:
12C508/509A, 12CE518/519, 12C671/672, 12CE673/674, 14000, 16C505/554/558/6XX/7XX, 16Fxxx

241349

Mftrs. List No.	Order Code	Price Each
ISPICR1	394-3227	32.52

TEAclipper-PIC-xV-PT™

TEAclipper PIC Programmer Core Processors

New

TEAclipper-PIC-HV-PT and TEAclipper-PIC-LV-PT are the core processors used in TEAclipper/PIC programming clips. They allow custom fieldprogramming products to be manufactured in applications where a different form factor is required to the TEAclipper/PIC.
TEAclipper/PIC devices make it easy to sell code written for PICs and also to deliver updates to products already delivered to customers.

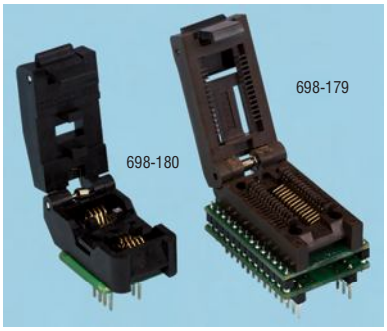
Features:
- Based on the PIC18F66J16 microcontroller. No resonator required
- 64-pin TQFP package
- PIC-HV-PT can generate Vpp programming voltages of up to 13V
- PIC-LV-PT can only generate Vpp programming voltages up to the target board Vdd

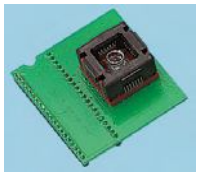
525845

Mftrs List No.	Description	Order Code	Price Each
TEACLIPPER-PIC-HV-PT	High Voltage TEAclipper Core Processor	SMD 167-0819●	22.91
TEACLIPPER-PIC-LV-PT	Low Voltage TEAclipper Core Processor	SMD 167-0820●	16.91

Microcontrollers and Microprocessors - 8/16/32-Bit - MICROCHIP - Development Tools - continued

Programming Adaptors





797-005

To assist with product development, the following adaptors have been designed for use with the PICSTART Plus programmer.

210877

Mftr.		Order Code	Price Each
LEW	8 pin SOIC to DIL socket module for PICs	**698-180**	64.63
LEW	14 pin SOIC to DIL socket module for PICs	**113-554**	64.63
BBD	18/28 pin SOIC to DIL socket module for PICs	**698-179**	64.63
BBD	44 pin PLCC socket module for PICs	**797-005**	56.01

PIC10F Adaptor Kit



The 6L SOT-23 to 8P DIP Adapter Kit is designed to make the SOT-23 look like a standard 8 pin DIP so it can be used in standard development tool sockets. This is a hobby kit which is designed to be used for early evaluation, not for production applications. The pin-out is family specific and is different from the standard 8P DIP pin-out. The kit is made up of 5 PIC10F206 SOT-23 devices and 5 pin scramble boards with DIP pins.

372232

Mftrs. List No.	Order Code	Price Each
AC163021	**796-5540●**	8.58

PICtail board for SD and MMC



The PICtail Daughter Board for SD and MMC cards (AC164122) is a universal board that interfaces the Secure Digital (SD) and Multi-Media Card (MMC) to the Serial Peripheral Interface (SPI) bus of the microcontroller. This PICtail board is designed to operate with a multitude of demonstration boards, including all those having PICtail signals, those with PICtail Plus signals (utilizing the card-edge connectors like the Explorer 16), and those with non-standard PICtail signals.

493488

Mftrs. List No.	Order Code	Price Each
AC164122	**143-9830●**	27.17

Explorer 16 Plug-In Modules (PIMs)



MA330016

Processor Plug-In Modules are small circuit boards to be used with the various Microchip Development Boards to evaluate Microchip microcontrollers and dsPIC devices. These plug into the main processor socket of the Development Boards so that different microcontrollers can be used for prototyping, demonstration or development --quickly and easily. Microchip development tools such as the MPLAB© REAL ICE™ and MPLAB ICD 2 connect directly to these development boards and provide quick, full-featured hardware/software/firmware development environment using the free MPLAB Integrated Development Environment software.

527788

Mftrs. List No.	Description	Order Code	Price Each
MA330016	dsPIC33 GP 44P QFN to 100P Plug-In Module	**157-6922●**	17.88
MA330017	dsPIC33 MC 44P QFN to 100P Plug-In Module	**157-6923●**	17.88
MA330018	dsPIC33F MC 44P QFN TO 100P Plug-In Module	**167-6249●**	17.88
MA330019	dsPIC33F GP 44P QFN TO 100P Plug-In Module	**167-6250●**	17.88

9V Power Supply



The 9V power supply can be used with the PICSTART Plus (DV003001), the PRO MATE II (DV007003), and the MPLAB ICD 2 (DV164005).

505598

Mftrs. List No.	Order Code	Price Each 1+
AC162039	**155-5682●**	17.17

MPLAB®ICD 2 In-Circuit Debugger



The ICD 2 module connects between the PC and the users target board allowing direct in circuit debugging, in real time, of the target microcontroller. It can also be used as a programmer to download programs to the target microcontroller.

The In-Circuit Debugger 2 (MPLAB® ICD 2) allows the debugging of a range of PIC microcontrollers through the MPLAB® Integrated Development Environment (IDE) graphical user interface. Programs may be executed in real time or single step, watch variables established, break points set, memory read/writes accomplished and more.

Features:

- USB (full speed 2Mbits/sec) and RS232 interface to host PC
- Real time background debugging
- MPLAB compatible (copy included)
- Firmware upgradable from the PC
- Supports low voltage target systems (2.0 to 6.0V)
- Diagnostic LEDs (Power, Busy, Error)
- Reading/Writing memory space and stack of target microcontroller
- Freeze on halt

Devices Supported:

PIC18C601/801, PIC18F248/258/442/448/452/458/6620/6720/8620 and PIC18F8720.

Kit contents:

DV164005 - ICD2 module, USB cable (Order code 415-6924)
DV164006 - ICD2 module, USB cable, RS232 cable, Power Supply, PICDEM™2 Plus (DM163022)
DV164007 - ICD2 module, USB cable, RS232 cable, Power Supply

234360

Mftrs. List No.		Order Code	Price Each
DV164005	ICD2 Module (With USB cable)	**415-6924**	114.43
DV164006	ICD2 Evaluation Kit	**386-6397**	164.49
DV164007	ICD2 Module (With USB/RS232 cable, Power Supply)	**395-6477**	135.88
AC162049	Universal Programming Module for ICD2, PICStart+ and PROMATE II	**424-2002**	28.60
AC162050	8-pin ICD2/ICD3 header interface for PIC12F629/675	**430-0830**	17.88
AC162051	28 to 40-pin DIL Header for ICD2/ICD3	**433-9332**	14.30
AC162052	14-pin ICD2/ICD3 header interface for PIC16F676/630	**430-0841**	17.88
AC162053	18-pin ICD2/ICD3 header interface for PIC16F627A/628A/648A	**476-6805**	25.03
AC162054	18-pin ICD2/ICD3 header interface for PIC16F716	**817-8615**	25.03
AC162055	14-pin ICD2/ICD3 header interface for PIC16F684	**771-1522**	17.88
AC162056	14-pin ICD2/ICD3 header interface for PIC16F688	**771-1530**	17.88
AC162057	14-pin ICD2/ICD3 Header Interface for PIC12F635/16F636	**111-2736**	17.88
AC162058	8-pin ICD2/ICD3 Header Interface for PIC12F683	**111-2722**	17.88
AC162059	8-pin ICD2/ICD3 Header Interface for PIC10F200/202/204/206, 12F508/509, 16F505	**111-2783**	17.88
AC162060	20-pin ICD2/ICD3 Header Interface for PIC16F785	**111-2725**	25.03
AC162061	20-pin ICD2/ICD3 header interface for PIC16F690	**143-9826●**	25.03
AC162066	20-pin ICD2/ICD3 header interface for PIC16F639	**143-9827●**	25.03
AC162088	MPLAB ICD2/ICD3 28P Header	**167-6242●**	35.76
AC162094	MPLAB ICD2/ICD3 44P Header	**167-6243●**	35.76
AC162069	MPLAB ICD2 BreadBoard Cable	**111-2721●**	10.72
AC162070	8 to14 Pin ICD2/ICD3 Header	NEW **161-7326●**	17.88
AC164112	MPLAB ICD 2 Voltage Limiter for K Series PIC Microcontollers	NEW **167-1899●**	7.15

MPLAB® ICD 3 In-Circuit Debugger/Programmer



MPLAB ICD 3 In-Circuit Debugger is an all in one in-circuit debugger / programmer solution for Microchip's dsPIC Digital Signal Controller (DSC) and Flash PIC Microcontroller (MCU) devices. The ICD 3 programs and debugs these devices with the aid of the powerful and easy to use MPLAB Integrated Development Environment (IDE).

Features Include:

- Full-speed, Real-time emulation
- Source debugging, stopwatch, complex breakpoints, and in-circuit programming
- USB powered (USB 2.0, 480 Mbps)
- Internal 1MB memory buffer for increased download speed
- Overvoltage and undervoltage protection
- Target power, up to 100 MA
- Vdd range 2-5.5V
- Vpp range 2-14V
- Firmware upgrade via MPLAB IDE download

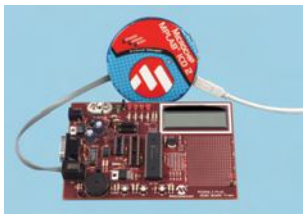
RL Re-reeling available

Kit Contents:
- 1x MPLAB ICD 3 In-Circuit Debugger module
- 1x USB cable
- 1x 6 inch RJ-11 modular cable from MPLAB ICD 3 to target
- 1x interface test module
- 1x CD containing MPLAB IDE software and product documentation

526244

Mftrs. List No.	Description	Order Code	Price Each 1+
DV164035	MPLAB® ICD 3 In-Circuit Debugger Kit	166-4878●	157.34

PICDEM™ 2 Plus Demo Board



The PICDEM 2 Plus Demonstration Board provides designers with a tool for programming and debugging FLASH-based microcontrollers. It has an ICD port, LCD read-out, sounder and a temperature sensor. The board is supplied with software on a PIC18F452 microcontroller to demonstrate the device's features and peripherals. The program sets up the microcontroller as a real-time clock and measures the local temperature, both displayed on an LCD display. A PWM signal is sent directly to the Piezo sounder.

An active RS-232 port and on-board Serial EEPROM is provided. The board offers generous prototyping area for development. A second FLASH-based microcontroller, the PIC16F877, is included with demonstration program.

Source code is also provided for users to understand and modify the algorithm for their own applications. Users with an MPLAB® ICD 2 can cut, paste, rewrite or add to the program using the capability of the Flash-based microcontroller's In-Circuit Debugger.

240352

Mftrs. List No.		Order Code	Price Each
DM163022	Demonstration Board	399-2925	71.51

PICkit 1 FLASH Starter Kit



The PICkit 1 FLASH Starter Kit is a development kit with easy interface for programming Microchip's 8/14-pin FLASH family of microcontrollers. The kit allows for programming, evaluation and developing applications using the 8 and 14-pin FLASH PIC-micros. Code development and debugging is performed using the MPLAB® Integrated Development Environment (IDE).

FEATURES:
- 3"x4.5" circuit board with snap-off prototyping board
- Easy to use Windows® programming interface for programming the 8/14 pin FLASH PICmicros
- Seven tutorials written in both Assembly and HI TECH 'C' demonstrate how to use the 8/14 pin FLASH PICmicros
- Microchip's Tips 'n Tricks booklet provides design techniques
- PICkit 1 User Guide (included on CD ROM)
- MPLAB IDE software for code development environment
- HI-TECH PICC™ LITE C Compiler (contained on the MPLAB CD-ROM)
- Supports 8/14-pin FLASH PICmicros® including: PIC12F629, PIC12F675, PIC16F630 and PIC16F676

CONTENTS:
- PICkit 1 Circuit Board with 8-pin PIC12F675
- PICkit 1 FLASH Starter Kit CD-ROM
- MPLAB IDE CD-ROM
- Software and Hardware "Tips 'n Tricks" for 8-pin FLASH PIC Microcontrollers Booklet
- USB Interface Cable

System Requirements:
- PC-compatible with a Pentium® or equivalent
- 16 MB RAM min
- 40 MB min hard drive space
- CD-ROM drive
- USB port
- Microsoft Windows® 98, Windows NT® 4.0, Windows 2000 or Windows XP

273266.342161

Description	Order Code	Price Each
Kit Development, PIC Flash Starter Kit	439-0787	25.75
PICKit1 Upgrade for PIC10F	804-9750	3.58
Programmer Adapter for PIC10F	804-9769	32.18

PICkit™ Signal Analysis Board



The Signal Analysis PICtail™ Daughter Board

The Signal Analysis PICtail™ Daughter Board is is an extension to the PICkit™ 1 Flash starter Kit. It is designed to program PIC10F2XX devices and contains a FLASH microcontroller and 16kB of EEPROM memory. Used in conjunction with the starter kit, the board allows real time measurements of analogue signals processed by the PIC microcontroller. The signal-analysis capabiltites include processing data and displaying it as a Real-Time Strip Chart, Oscilloscope plot, Histogram or by carrying out Fast Fourier Transform.

Baseline Flash Microcontroller Programmer (BFMP)

This in-circuit serial programmer is designed to be used with any of Microchip's baseline Flash PIC® microcontrollers. Using a USB connection (to eliminate the need for an external power supply) this BFMP is designed to provide ICSP support as well as stand alone programming support in a simple and in-expensive way. It includes a Graphical User Interface which is used to read, write and verify the microcontroller being programmed. The operating systems which can be used are Windows 98/ME/2000/XP.

372175

Description	Mftrs. List No.	Order Code	Price Each
PICKit Signal Analysis Board	AC164120	815-6255●	17.88

PICkit™ 2 Starter Kit



The PICkit 2 starter kit is a low-cost, easy to use development kit for programming Microchip's 8, 14 and 20-pin Flash microcontrollers. It includes everything needed to program, evaluate and develop the microcontrollers and helps the user to get up to speed quickly using PIC microcontrollers. The included instructions cover I/O, Interrupts, A/D Converters, Data tables and Timers.

Features:
- Easy to use Windows programming interface
- 12 sequential lessons written in Assembly to demonstrate how to use the microcontrollers
- Microchip Tips 'n Tricks booklet to provide efficient, low-cost design techniques
- PICkit 2 User's Guide CD-ROM
- Low pin count demo board User's Guide
- MPLAB IDE Software for complete code development
- HI-TECH PICC™ LITE C Complier

413600

Description	Mftrs. List No.	Order Code	Price Each
PICKit 2 Starter Kit	DV164120	984-7162●	35.75
PICkit 2 Programmer Only	PG164120	984-7170	25.03

PICkit™ 2 Debug Express



The PICkit 2 Debug Express is a low-cost development kit with an easy to use interface for debug as well as programming. It comes complete with a development board that contains Microchip's 44-pin PIC16F887 Flash microcontroller. This starter kit is designed to help developers get up to speed quickly using PIC® microcontrollers and provides everything needed to program, evaluate and develop applications. Instructions are provided in a series of twelve lessons that cover I/O, Interrupts, A/D Converters, Data Tables and Timers with an additional lesson covering debugging features. All source code files for the lessons are furnished.

PICkit 2 Debug Express (DV164121) bundles the PICkit 2 Device Programmer with a 44-pin demo board. The board includes a PIC16F887 TQFP pre-soldered device and a generous surface mount prototyping area. Tutorials in the User's Guide demonstrate the debugging features implemented.

467318

Description	Mftrs. List No.	Order Code	Price Each
PICkit 2 Debug Express	DV164121	134-0278●	35.75

RL Re-reeling available

Farnell

Microcontrollers and Microprocessors - 8/16/32-Bit - MICROCHIP - Development Tools - continued

Low Pin Count USB Development Kit w/ PICkit 2



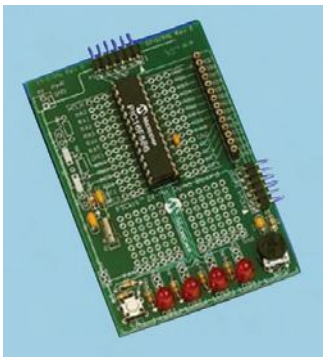
The low pin count USB development kit provides an easy way to evaluate the functionality of the PIC18F14K50 and PIC18F13K50 USB microcontrollers. A self-directed course and lab material have been designed and included with the view to easing the process of adding USB connectivity to embedded systems.
The PICkit™ 2 development programmer/debugger is a development tool with an easy to use interface for programming and debugging Microchip's flash families of microcontrollers.

Kit Contents:
- 1x Low Pin Count USB Development Board
- 1x Unpopulated spare development board
- 1x PIC18F14K50 Debug Header
- 1x PICkit 2™ Debugger/Programmer with cable
- 1x CD containing the user guide, course materials, and product documentation

528086

Mftrs. List No.	Description	Order Code	Price Each 1+
DV164126	Low Pin Count USB Development Kit w/ PICkit 2	168-7477●	37.25

DM164120-3 - PICkit 2 28-Pin Demo Board



The 28-Pin Demo Board is a small and simple demonstration PCB for Microchip's 28-pin Dual Inline Package PIC® Microcontroller Units. It is populated with a PIC16F886 MCU, four LEDs, push button and potentiometer.
It has several test points to access the I/O pins of the MCU and a generous prototyping area. The MCU can be programmed with the PICkit™ 2 Microcontroller Programmer or the MPLAB® ICD 2 using the RJ-11 to 6-pin inline adapter (AC164110).

503872

Mftrs. List No.		Order Code	Price Each
DM164120-3	PICkit 2 28-Pin Demo Board	155-5681●	17.87

DM164120-2 - PICkit 2 44-Pin Demo Board



The DM164120-2 is a small demo board with a PIC16F917 on board and a small surface mount prototype area. It is used with a PICkit 2 to program codes via a 6-pin ICSP header on the board. This kit also includes two bare PCB boards for those interested in customizing their development.

450889

		Order Code	Price Each
DM164120-2	PICKit2 44-PIN DEMO Kit	129-4834●	17.16

PICkit™ 2 Low Pin Count Demo Board



The Low Pin Count Demo Board Works with the PICkit™ 2 Microcontroller Programmer to help the user get up to speed quickly using PICmicro® microcontrollers. Also included are 2 extra bare PCB boards.

Does not support PIC10F 8DIP or 18-Pin Devices.

Features:
- PIC16F690 (Requires ICD debug header)
- 4 LEDs
- Potentiometer
- Pushbutton
- Prototyping area

493700

Mftrs. List No.		Order Code	Price Each
DM164120-1	PICkit 2 Low Pin Count Demo Board	143-9837●	17.16

PICkit 2 18-Pin Demo Board



This 18-Pin Demo Board with PIC16F648A includes 4 LEDs, a potentiometer for ADC, a push-button, a prototyping area, and a 6-pin connector for PICkit Serial Analyser. It also includes 2 extra bare PCB boards for your own design.

527562

Mftrs. List No.	Description	Order Code	Price Each
DM164120-4	PICkit 2 18-Pin Demo Board	167-6247●	17.16

PICkit 2 PIC18 J-Series 64/80-Pin Demo Board



The DM1164120-5 is a small demo board featuring the PIC18F87J10 device and a small surface mount prototype area. Use this board with a low-cost PICkit 2 Programmer (PG164120) to program your code via a 6-pin ICSP header on the board. This board can be used to evaluate the cost-effective PIC18 J-series 64 and 80-pin devices.

527787

Mftrs. List No.	Description	Order Code	Price Each
DM164120-5	PICkit 2 PIC18 J-Series Demo Board	157-6905●	25.03

PICkit 3 Debug Express



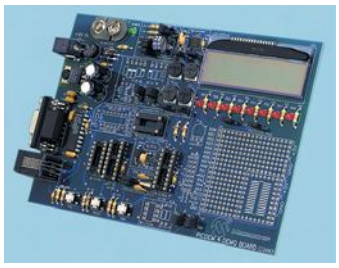
This in-circuit debugger/programmer provides a hardware debugger and programmer for the PIC ® and dsPIC® flash microcontroller famlies. It uses the powerful graphical user interface of the MPLAB Integrated Development Environment (IDE) and is connected to a PC using a full speed USB interface and to the target MCU via an RJ-11 debug connector.

Features Include:
- Full speed USB
- Real-time execution
- MPLAB IDE compatible
- Built-in over-voltage/short circuit monitor
- Firmware upgradeable
- Supports low voltage
- Diagnostic LEDs
- Read/write program and data memory
- Erase of program memory space
- Freeze-peripherals at breakpoint

527911

Mftrs. List No.	Description	Order Code	Price Each 1+
DV164131	PICkit 3 Debug Express	168-6530●	50.06

PICDEM™ 4 Demo Board



The PICDEM™ 4 Demonstration Board can be used to evaluate and demonstrate the capabilities of Microchip's 8-pin, 14-pin and 18-pin (PIC12F, PIC16F and PIC18F) microcontrollers. The demonstration Board showcases many features of low pin-count parts, including Local Interconnect Network (LIN) and motor control features using the enhanced capture/compare/PWM module (ECCP).
By connecting the PICDEM 4 Demonstration Board to an MPLAB® ICD 2, a designer can develope, simulate, debug and download code to a microcontroller using Microchip's powerful graphical MPLAB integrated Development Environment (IDE). Low power operation is achieved with a supercapacitor circuit and jumpers allow the on-board hardware to be disabled to eliminate current draw in this mode.

Features:
Key features of the PICDEM 4 Demonstration Board include:
- RS-232 interface
- 2x16 liquid crystal
- ICD connector for programming via in-Circuit or developing with MPLAB ICD 2
- Eight LEDs, four potentiometers and three push buttons
- PCB footprints for EEPROM, H-Bridge motor driver and LIN transceiver
- Support for crystal RC or canned oscillator modes
- Support for either power adapter or battery
- Generous prototyping area and header for expansion

311838

Mftrs List No.		Order Code	Price Each 1+
DM163014	Kit, PICDEM 4 DEMO Board.	441-8098	92.97

PICkit Serial Analyzer



The PICkit Serial Analyzer simplifies the chore of managing serial communication with a device under test. The Windows® user interface (provided) configures the hardware and 'scripts' communication with the target device. Scripts created within the software GUI are saved to an internal library for future use. Once created, scripts can be conveniently assigned to push buttons or simply executed directly from the library index. All communication data and events are posted to a transaction window in a readable format.

The PICkit Serial Analyzer currently supports the following protocols:

- I2C™ - Master and Slave
- SPI
- USART - Asynchronous and Synchronous
- LIN (external hardware required to meet electrical specifications)
- MICROWIRE

The 28-Pin Demo Board includes a PIC16F886, switch, LED(s), connector for the PICkit Serial and ample prototype area. The processor contains demonstration firmware supporting I2C™ communication and emulation of 3 I2C™ devices: EEPROM, ADC and Real Time Clock.

Example custom GUI(s) are provided to demonstrate use of the DLL in each of the supported serial protocols. The examples come as projects for Visual Basic 2005 Express (free download from Microsoft®).

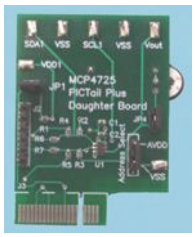
Features:

- PICkit Serial Analyzer
- 28-Pin Demo Board (w/ PIC16F886 microcontroller and generous prototyping area)
- USB Cable
- Easy-to-use Windows®-based graphical user interface
- Software DLL for custom software development
- CD containing all user's guides, technical documentation and source code

493344

	Mftrs. List No.	Order Code	Price Each
PICkit Serial Analyzer	DV164122	**143-9719●**	35.75

MCP4725 PICtail Plus Daughter Board



This daughter board demonstrates the MCP4725 (12 bit DAC with non-volatile memory) features using the Explorer 16 Development Board and the PICkitTM Serial Analyser.

- **Supported Operating Systems:**
- MPLAB® IDE
- MPLAB C30
- MPLAB ICD 2
- PICkit Serial Analyser GUI

Features:

- Experimenting with the MCP4725 features in PIC 24 environment
- Experimenting with the MCP4725 features using PICkit Serial Analyser
- MCU (PIC24FJ128) firmware examples to write the MCP4725 DAC Register and EEPROM
- Step by step examples on using the PICkit Serial Analyser
- Programming the MCP4725 DAC and EEPROM registers using the PIC Explore 16 demo board and PICkit Serial Analyser

527682

Mftrs. List No.	Description	Order Code	Price Each
MCP4725DM-PTPLS	MCP4725 PICtail Plus Daughter Board	**167-6253●**	9.26

PICkit™ Serial I²C Demonstration Board



This demonstration board exhibits the I²C serial communications and operation of the following devices:

- 24LC02B - 2Kbit Serial EEPROM
- MCP9801 - High-Accuracy Temperature Sensor
- MCP3221 - Low-Power 12-Bit A/D Converter
- TC1321 - 10-Bit Digital-to-Analog Converter
- MCP23008 - 8-Bit I/O Expander

The kit is designed to easily connect to the PICkit Serial Analyzer which provides the I²C master mode serial communications and power for the PICkit™ Serial I²C Demonstration Board.

Features include:

- Five unique devices with I²C interfaces
- Test points on the I²C bus and most of the devices
- Connector for directly connecting to an I²C bus or PICkit Serial Analyzer

526028

Mftrs. List No.	Description	Order Code	Price Each
PKSERIAL-I2C1	PICkit Serial I2C Demonstration Board	**161-7324●**	17.88

PICkit™ SPI Demonstration Board



This demonstration board exhibits the SPI communications and operation of the following devices:

- 25LC020A - 2K SPI Bus Serial EEPROM
- TC77-5.0 - Thermal Sensor with SPI Interface
- MCP3201 - 2.7V 12-Bit A/D Converter with SPI Serial Interface
- MCP4822 - 12-Bit DAC with Internal VREF and SPI Interface
- MCP41010 - Single/Dual Digital Potentiometer with SPI Interface
- MCP6S92 - Single-Ended, Rail-to-Rail I/O, Low-Gain PGA
- MCP23S08 - 8-Bit I/O Expander with Serial Interface

The kit is designed to easily connect to the PICkit Serial Analyzer which provides the SPI master mode serial communications and power for the PICkit™ SPI Demonstration Board.

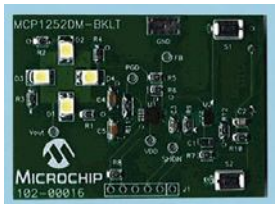
Features include:

- Seven unique devices with SPI interfaces
- Test points on the SPI bus and most of the devices
- Connector for directly connecting to an SPI bus or PICkit Serial Analyzer

526034

Mftrs. List No.	Description	Order Code	Price Each
PKSERIAL-SPI1	PICkit™ Serial SPI Demonstration Board	**161-7325●**	25.03

MCP1252 Charge Pump Backlight Demo Board



Features:

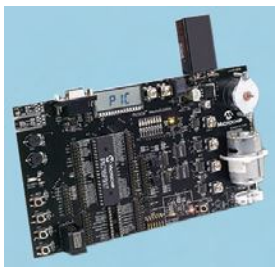
- Programmed MCP1252 Charge Pump control (via the PIC10F206)
- Four white LEDs
- PIC10F206 microcontroller
- Push-button interface for multiple control options
- Baseline Flash Microcontroller Programmer (BFMP) Header for reprogramming the PIC10F206
- 3 AAA Battery Pack (Batteries not included)

The MCP1252 Charge Pump Backlight LED Demo Board demonstrates the use of a Charge Pump device in an LED application. The board also serves as a platform to evaluate the MCP1252 device in general. The MCP1252-ADJ is an excellent choice for biasing the back lighting or driving other LED applications. Light intensity is controlled uniformly through the use of ballast resistors. The peak intensity is set by the feedback to the the MCP1252-ADJ. Dimming is accomplished by pulse-width modulating the shutdown pin of the device.
The board also feature a PIC10F206 microcontroller in a SOT23 package, which is used to provide an enable signal to the MCP1252. The PICmicro also accepts a push-button input that allows the user to adjust the white LEDs to five different light intensities, in addition to placing the system in a standby mode that consumes less than 1 uA of current (typical).

450872

		Order Code	Price Each
MCP1252DM-BKLT	MCP1252 Charge Pump Backlight Demo Board	**111-2734**	13.79

PICDEM™ MECHATRONICS DEMO KIT



The PICDEM™ Mechatronics demonstration board is an easy-to-use mechatronics development and demonstration platform.
The demonstration kit takes a hands-on approach to learning about mechatronics. Jumper wires are provided in the kit which allow the developer to experiment with connecting the PIC microcontroller to various components on the board. These components include sensors, LEDs, human input devices and motor drivers. The board comes with nine example projects which include firmware, connection diagrams (for the wire jumpers) and schematics.

Features:

- PIC16F917 MCU with 8 MHz internal oscillator and on-board LCD module
- Displays: 8 LEDs and LCD (pre-connected to the LCD module)
- Stepper motor and brushed DC motors
- Analog temperature sensor (Microchip TC1047A)
- Light sensor
- 32.768 kHz crystal for time generation
- Human inputs: 4 tactile switches, 2 potentiometers
- Over-current protection circuit
- ICSP™ programming capability and MPLAB ICD 2 interface connector
- Optical speed sensor for brushed DC motor
- 20-pin socket (compatible with all 8-, 14- and 20-pin Flash devices)
- Nine example projects with complete source code

450869

		Order Code	Price Each
DM163029	Mechatronics Demonstration Kit	**111-2782**	107.27

RL Re-reeling available

Farnell

Microcontrollers and Microprocessors - 8/16/32-Bit - MICROCHIP - Development Tools - continued

Qwik&Low Board



The Qwik&Low Board includes features such as a PIC18LF4321 and a PIC18LF6390, an eight-character LCD, and an In-Circuit Serial Porgramming™ and debugging interface.

527553

Mftrs. List No.	Description	Order Code	Price Each
DM183034	Qwik&Low Board	167-6239●	71.52

PICDEM Touch Sense 1 Development Kit



The PICDEM™ Touch Sense 1 Development Board and Diagnostic Tool provides a platform to introduce users to Microchip's Capacitive mTouch™ Sensing Solutions. This board is a completely sealed application example using three different touch sensor configurations in the form of a Directional pad, Keypad and Slider section. A factory programmed firmware application provides the user immediate access to all of the board's features through the use of the accompanying Windows® based Diagnostic Tool and PICkit Serial Analyzer. The Diagnostic Tool provides the user a platform to analyse application critical information in real-time" as it relates to touch sensor behavior.

Features:
- Populated with PIC16F677 and PIC16F887 MCUs
- Directional Pad, Keypad and Slider sensor configuration sections
- ICSP™ programming capability
- PICkit™ Serial Analyzer connectivity

Kit Contents:
- The PICDEM™ Touch Sense 1Development Board
- PICkit™ Serial Analyzer
- mTouch™ Sensing Solutions CD-ROM (including user guide, source code, mTouch™ diagnostic tool software and MPLAB® IDE software)

503819

	Mftrs. List No.	Order Code	Price Each
PICDEM Touch Sense 1 Development Kit	DM164125	154-7488●	100.12

PICDEM™ Touch Sense 2 Development Board



This demonstration board provides a complete platform to introduce the mTouch Sensing Solutions from Microchip, which employs the 16-bit PIC24F MCU. The board features the Charge Time Measurement Unit (CTMU) for fast capacitive touch sensing and factory programmed firmware providing immediate access to all the board's features.

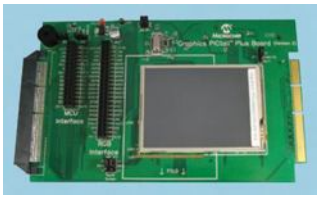
Features:
- Populated with PIC24F256GB110 Microcontoller
- Directional pad, keypad and slider sensor
- ICSP programming capability

Kit Contents:
- PICDEM™ Touch Sense 2 Demonstration Board
- USB cable
- mTouch Sensing Solutions CD-ROM, with user's guide, reference manuals, source code, MPLAB IDE and mTouch diagnostic tool software

526002

	Mftrs. List No.	Order Code	Price Each
PICDEM™ Touch Sense 2 Demonstration Board	DM164128	163-1878●	71.51

Graphics PICtail™ Plus Daughter Board



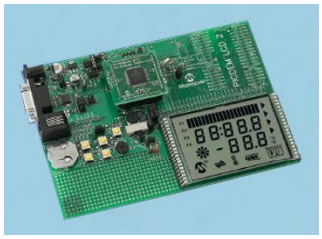
The Graphics PICtail™ Plus Daughter Board 2 is a demonstration board for evaluating Microchip Technology's graphic LCD display solution and Graphics Library for 16-bit microcontrollers. It is an expansion board compatible with the Explorer 16 Development Board (DM240001). It can be used in conjunction with the Graphics Library for Microchip microcontrollers.

Features:
- 2.8" QVGA (320x240) LCD module with resistive touch screen
- 65K color support
- Supports portrait and landscape orientations
- Stand-alone graphics controller, Solomon Systech SSD1906, supporting 4/8-bit STN, 4/8-bit CSTN, 18-bit HR-TFT and 9/12/18-bit TFT interfaces via connector
- 4 Megabit (512Kx8) flash memory for graphic data storage
- Sound buzzer
- Horizontal PICtail™ Plus Daughter Board connection interface

505060

Mftrs. List No.	Description	Order Code	Price Each
AC164127	Graphics PICtail Plus Daughter Board	156-3478●	96.55

PICDEM LCD 2 Demonstration Board



The PICDEM LCD 2 Demonstration Board (DM163030) shows the main features of Microchip's 28, 40, 64 and 80-pin LCD Flash PIC microcontrollers including the LCD voltage booster and contrast controller. It is populated with the PIC18F85J90. Other devices are supported via a transition socket and are available separately. A sample LCD glass display is included for custom prototyping. The glass features 7-segment displays, wipers, thermometers, star bursts, and other common icons.

Included applications:
- Voltmeter - A/D module measures the voltage of the on board potentiometer and displays a voltage between 0.00V and 3.30V on the LCD.
- Thermometer - The A/D module measures the voltage of the thermistor and converts to temperature both in Celsius and Fahrenheit to continuously display the temperature.
- Clock - Timer/Clock function shows hours:minutes:seconds with a moving second hand using on board 32 kHz watch crystal.
- Charge Pump and Software Contrast - When using the PIC18F85J90 family of devices the LCD module can be configured as a charge pump and software contrast control is activated.

493309

	Mftrs. List No.	Order Code	Price Each
PICDEM LCD 2 Demonstration Board	DM163030	143-9682●	89.40

PICDEM System Management Kit



The PICDEM™ System Management Kit is a demonstration and training tool for system integration and the design of a variety of applications. PIC® microcontrollers provide powerful integrated peripherals, ideally suited for such integration tasks. System integration refers to the consolidation of multiple systems within a unified design. The PICDEM System Management Board provides an I2C™ communications bus, typically found in applications such as personal computers or rack mount servers. The bus connects to multiple devices to monitor and record the health and status of the system. The PICDEM System Management Board integrates the functions of a dedicated Real-Time Clock (RTC), serial EEPROM, thermal management controller and analog-to-digital converter using a single PIC microcontroller.

In conjunction with the PICkit™ Serial Analyzer (included in the kit), communication to the emulated devices on the bus can be managed and monitored. The PICkit Serial Analyzer is a low-cost development tool that allows communication between a PC and the serial protocol of the system under test.
The PICDEM System Management board is populated with Microchip's mid-range PIC16F886 microcontroller.

Features:
- Emulation of 24LC02 Serial EEPROM
- Emulation of I2C real-time clock
- I2C thermal management control using MCP9700 temperature sensor
- Control of 2-, 3- and 4-wire fans (3-wire fan supplied)
- +3V lithium battery
- Microchip's MPLAB® IDE software for a complete code development environment
- HI-TECH PICC™ LITE C Compiler (contained on the MPLAB IDE CD)
- CCS PCB Baseline C Compiler installed with MPLAB IDE

493358

	Mftrs. List No.	Order Code	Price Each
PICDEM System Management Kit	DM164123	143-9720●	78.67

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Low Power Solutions Demo Board



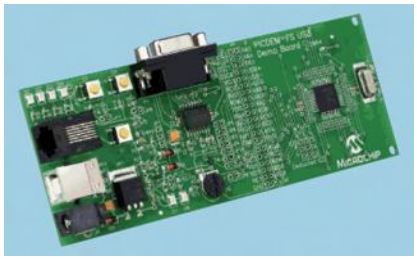
The Low Power Solutions Demonstration board provides designers a convenient and fun way to explore PICmicro® nanoWatt features within a functional ultrasonic range-finder application. It features the PIC18F4620, Microchip Technology's latest power managed device.
The development tool is ideal for learning nanoWatt features and implementing system power reduction techniques. The Low Power Solutions Demonstration board is part of the Workshop-in-a-Box 2, a complete nanoWatt training kit designed for self-paced and instructor-led training.

Features:
- Fully functional ultrasonic range finder with LCD display (PCB also supports four 7-segment LEDs)
- DC boost circuit
- USART
- Connector for MPLAB® ICD 2 In-Circuit Debugger and programming
- Two power supply options: 9V power supply or 9V battery
- Test points to measure system and PICmicro power consumption via current meter
- Three switches for input and a reset switch and 2 LEDs
- Microchip TC1047A Temperature sensor
- CD with user's guide, sample code written for the MPLAB C18 Compiler and three step-by-step labs illustrating nanoWatt features

385659

	Mftrs. List No.	Order Code	Price Each
Low Power Solutions Demo Board	DM163026	**875-3008**	92.97

PICDEM™ Full Speed USB Demo Board



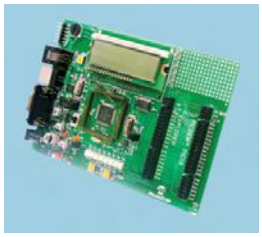
The PICDEM™ FS-USB is a demonstration and evaluation board for the PIC18F4550 family of Flash microcontrollers with full speed USB 2.0 interface. The board contains a PIC18F4550 microcontroller in a 44-pin TQFP package, representing the superset of the entire family of devices. The pre-loaded USB bootloader demonstrates the Enhanced Flash memory capabilities of the device and the PIC18F4550 can be re-programmed in circuit without an external programmer.

Features:
- 20 MHz crystal
- serial port connector/interface (for demonstration of migration from legacy applications)
- connection to the MPLAB® ICD 2 In Circuit Debugger
- voltage regulation, with the ability to switch from external power supply to USB bus supply
- expansion connector, compatible with the PICtail™ daughter boards standard
- temperature sensor TC77 (connected to the I2C™ bus)
- potentiometer (connected to RA0 input) for A/D conversion demonstrations
- 2 LEDs for status display and 2 input switches
- CD-ROM with full documentation about the board, application notes and software libraries

385658

	Mftrs. List No.	Order Code	Price Each
PICDEM Full Speed USB	DM163025	**875-2982**	42.91

PICDEM PIC18 Explorer Board



New

The PICDEM PIC18 Explorer demo board supports dozens of the general purpose PIC18 families using various processor Plug-In Modules (PIMs). It supports dozens of the general purpose PIC18 families using various processor Plug-In Modules (PIMs). This board is the ideal complement to the MPLAB ICD 2 debugger and programer for a full-featured PIC18 development environment.

515850

Mftrs. List No.	Description	Order Code	Price Each
DM183032	PIC18 Explorer Board	**161-5691●**	71.51

PICDEM™ HPC Explorer Board



The PICDEM™ HPC Explorer Board demo board is the ideal complement to the MPLAB ICD 2 In Circuit Debugger which enables the design engineer to evaluate the performance of Microchip high-end 8-bit microcontrollers of the PIC18F series.The board features a PIC18F8722 microcontroller, which is the superset of the entire 64- and 80-pin PIC18FXXXX general purpose family. A daughter board (mezzanine) is also part of the kit and allows different processors sharing the same pin out to be mounted and tested on the Explorer board. The same connector allows MPLAB-ICE 4000 (and via an extension MPLAB-ICE 2000) real time in circuit emulators to be attached to the board.

The Key Features include:
- PIC18F8722, 128K Flash, 80-pin TQFP microcontroller
- Daughter board and MPLAB ICE2000/4000 connector (with switch to disable on board processor)
- Convenient connection for MPLAB ICD 2 (In-Circuit Debugger) for in-circuit programming and debugging
- PIC- Tail™ connector, to allow connection to standard expansion boards
- Temperature sensor demo included (illustrates Microchip's TC77 device)
- Potentiometer (connected to 10-bit A/D, analog input channel)

403176

Mftrs. List No.	Description	Order Code	Price Each
DM183022	PICDEM HPC Explorer Board	**908-8024**	42.91

DM164124 - PIC18F4xK20 Starter Kit



New

The PIC18F4XK20 Starter Kit is a demonstration and development platform for Microchips K20 series microcontrollers. The board provides a platform to highlight this new familys benchmark for lower power consumption, low-cost and high-performance operation.

Includes:
- Development board
- PICkit 2 Development Programmer/Debugger
- Programming Lessons

509605

Mftrs. List No.		Order Code	Price Each
DM164124	PIC18F4xK20 Starter Kit	**160-0100●**	71.38

DM183033 - Internet Radio Demonstration Board



The Internet Radio Demonstration Board uses the PIC18F67J60 8-bit microcontroller with integrated 10Base-T MAC and PHY to connect to SHOUTcast servers and stream MP3 data to an audio decoder. This demonstration board implements the basic features of an internet radio, such as volume control and station selection.

Features:
- PIC18F67J60 8-bit microcontroller with integrated 10Base-T MAC and PHY
- Integrated magnetic RJ-45 connector with status LEDs
- VLSI VS1011E MPEG Audio Codec to decode MP3 data streams and drive headphones
- Two 256 Kbit serial SRAMs for buffering of TCP packets and MP3 audio data
- Brilliant OLED display showing song title and author, station name and IP address of the demonstration board
- Push button switches to control station, volume and bass
- Connector for MPLAB® ICD 2 In-Circuit Debugger or MPLAB REAL ICE™ In-Circuit Emulator

518648

Mftrs. List No.	Order Code	Price Each
DM183033	**162-9964●**	71.51

MPLAB Starter Kit for PIC24F



New

The PIC24F Starter Kit contains everything needed to begin exploring the high performance and versatility of the PIC24F microcontroller family. This kit includes an integrated in-circuit debugger and programmer, USB device and host connectors, tri color LED, capacitive touch pad and an OLED display. Menu driven demonstration software supports data logging, thumb drive, and graphics applications to test the PIC24F MCU.
A USB connection to a host computer supplies communi-

Microcontrollers and Microprocessors - 8/16/32-Bit - MICROCHIP - Development Tools - continued

MPLAB Starter Kit for PIC24F - continued

cations and power to the board, no additional external power supply is needed.

Features:
- Easy and inexpensive way to learn the PIC24F 16-bit MCU family
- Starter kit features the PIC24FJ256GB110 MCU with 256KB Flash
- Peripherals including CTMU for capacitive touch and USB OTG
- Integrated debugger and programmer
- Free MPLAB C Compiler

512214

	Description	Order Code	Price Each
DM240011	MPLAB Starter Kit for PIC24F	**160-5296●**	42.90

PIC24F USB Plug in Module

MICROCHIP New



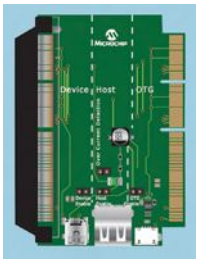
This is a 100-pin PIC24FJ256GB110 MCU sample for use with the Explorer 16 Development Board (DM240001 or DM240002). Also requires USB PICtail Plus Daughter Board (AC164131).

505608

Mftrs. List No.	Order Code	Price Each 1+
MA240014	**155-8604●**	17.88

USB PICtail Plus Daughter Board

MICROCHIP New



This module enables USB hardware connectivity when using an Explorer 16 and USB- capable plug-in module. Provides support for USB device, hose, and on-the-go development.

505607

Mftrs. List No.	Order Code	Price Each 1+
AC164131	**155-8603●**	42.91

Explorer 16 Development Board for PIC24 and dsPIC33

MICROCHIP



The Explorer 16 development board is designed to aid the evaluation of the features and performance of the Microchip PIC24 Microcontroller and dsPIC33 Digital Signal Controller (DSC) families. Coupled with the MPLAB ICD 2 In Circuit Debugger, real-time emulation and debug facilities speed evaluation and prototyping of application circuitry. The Explorer 16 features two interchangeable Plug-In Modules (PIMs), one each for the PIC24FJ128GA010 and the dsPIC33FJ256GP710 DSC.

Board Features:
- RS-232 serial port and associated hardware
- On-board analog thermal sensor
- USB connectivity for communications and device programming/debugging
- Full emulation and debug support for MPLAB ICD 2
- 2-line by 16-character LCD display with provision to add on graphic LCD version
- Potentiometer for analog input
- Serial EEPROM
- Prototype area for developing custom applications
- Socket and edge connector for PICtail™ Plus card compatibility
- Interface for PICkit 2 Programmer
- JTAG connector pad

Kit Content:
- The Explorer 16 Development Board with a preprogrammed PIC24FJ128GA010 Processor Installation Module (PIM) installed
- A preprogrammed dsPIC33FJ256GP710 PIM
- An RS-232 cable
- CD ROM including: hardware data sheets, schematics and PCB drawing files for the PIM modules, example programs ect.

429245

Mftrs. List No.	Order Code	Price Each
DM240001	**114-6554**	92.97

Audio PICtail Plus Daughter Card

MICROCHIP New



Record & playback with Explorer16 Development Board. The Audio PICtail Plus Daughter Board is used with the Explorer 16 Development Board and the 16 bit 28 pin Starter Board to facilitate rapid implementation, development and testing of full duplex speech and audio applications with dsPIC DSC and PIC24H.

Features:
- Audio Playback using PWM signal from dsPIC/PIC24H Output Compare module
- 4th order Low pass filter for Audio PWM signal demodulation
- 16/24 bit Audio Codec
- 4 Mega bit Serial Flash
- 110mW Headphone Amplifier
- Microphone and Line input with adjustable gain
- Line output with adjustable gain
- Works with Explorer 16 Development Board and 16-bit 28 pin Starter Board

525165

Mftrs. List No.	Description	Order Code	Price Each
AC164129	Audio PICtail Plus Daughter Card	**166-2530●**	57.22

Explorer 16 Starter Kit

MICROCHIP



The Explorer 16 Starter Kit is a complete set of tools for application development using Microchip's PIC24F, PIC24H, and dsPIC33 16-bit microcontrollers. The kit includes MPLAB® ICD 2 In Circuit Debugger, Explorer 16 Development Board, 9V universal power supply that can be used for either the Explorer 16 Development Board or the MPLAB ICD 2 in-circuit debugger, serial cable, and both PIC24FJ128GA010 and dsPIC33FJ256GP710 devices mounted on plug-in modules for quick replacement.
Also included with the kit is Microchip's MPLAB Integrated Development Environment (IDE), the Student Edition of the MPLAB C30 C Compiler for Microchip's 16-bit devices, with tutorials and user manuals on CDROM. The complete kit introduces the developer to Microchip's new family of 16-bit microcontrollers with all the tools for writing code in C, hardware debugging the application and programming devices.

493692

	Mftrs. List No.	Order Code	Price Each
Explorer 16 Starter Kit	DV164033	**143-9839●**	214.55

Prototype PICtail Plus Daughter Board

MICROCHIP



The Prototype PICtail Plus Daughter Board is an expansion breadboard card for the Explorer 16 Evaluation Board using PIC24 MCU or dsPIC33 DSC. This board is an 8x8 cm board with a card-edge connector to plug directly into the PICtail Plus expansion socket. The breadboard area provides access to all of the processor pins and a general purpose prototyping area. AC164126 kit contains three blank Prototype PICtail Plus Daughter Boards.

493683

	Mftrs. List No.	Order Code	Price Each
Prototype PICtail Plus Daughter Board	AC164126	**143-9835●**	14.30

dsPIC® Starter Kit

MICROCHIP New



This starter kit is a complete hardware and software tool suite for exploring applications based upon dsPIC DSCs.The board is designed with a dsPIC33FJ256GP506 DSC that has 256 KB of flash memory, a high-fidelity audio codec, microphone input and headphone/speaker outputs, and is powered from the USB connection to the PC. Also on the board are reconfigurable switches, potentiometers, a temperature sensor and a 4 Mb serial EEPROM to store data such as audio samples.

Features:
- Integrated debugger / programmer
- USB powered
- dsPIC33FJ256GP506 DSC with 256 KB Flash and 16 KB RAM
- 16/24/32 bit codec with a maximum sampling frequency of 48KHz
- Low cost audio capture and play back circuitry using the 12 bit ADC and PWM Audio
- Microphone and line level inputs with adjustable input gain
- 100mW headphone amplifier with digital volume control
- 2 switches and 3 LEDs for user application purposes
- 4 Megabit serial flash memory for application use
- Temperature sensor

518619

RL Re-reeling available

Farnell

Mftrs. List No.	Description	Order Code	Price Each
DM330011	MPLAB Starter Kit for dsPIC DSCs	162-1788●	42.90

dsPICDEM™ 1.1 General Purpose Demonstration Board



The dsPICDEM™ 1.1 General Purpose Demonstration Board provides the application designer with a low-cost development solution to become familiar with the dsPIC30F 16-bit DSC architecture. The development board serves as an ideal prototyping tool to quickly develop and validate key design requirements.

Features:
Key features of the dsPICDEM 1.1 General Purpose Development Board include:
- dsPIC30F6014 Plug-in Sample
- Serial Communication Channels Interface(two UARTs, SPI™, CAN, RS-485)
- Si3000 Voiceband Codec with MIC In/Speaker Jacks
- General Purpose Prototyping Area with Expansion Header
- 122 x 32 Dot Addressable LCD
- MPLAB® ICD 2 and MPLAB ICE 4000 Emulator support
- LED's, Switches and Potentiometers
- Temperature Sensor
- Separate Digital and Analog Voltage Regulators
- Digital Potentiometer for DAC Capability
- RS-232 Cable and Power Supply
- Example Software and Documentation on CD

346900

Mftrs. List No.	Description	Order Code	Price Each
DV164032	dsPICDEM 1.1 GP Demo Board w/ ICD2 In-Circuit Debugger	111-2778	286.07

dsPICDEM 2 Development Board



The dsPICDEM 2 Development Board is a development and evaluation tool that helps create embedded applications using dsPIC30F Digital Signal Controllers. Sockets are provided for 28 and 40-pin devices in the motor control family and 18, 28 and 40-pin devices in the general purpose and sensor family.

Kit Contents:
- dsPICDEM 2 Development Board w/ dsPIC30F4011 installed
- CD with documentation and sample application programs
- Sample pack containing dsPIC30F3012 and dsPIC30F4013

Board Features:
- Multiple sockets for 18, 28 and 40-pin PDIP and SPDIP devices
- dsPIC30F4011 40-pin PDIP sample device installed on the board
- 5V regulator provides VDD and AVDD from a 9V DC power supply
- Supports MPLAB ICD 2 In-Circuit Debugger and MPLAB ICE 4000
- RS-232 and CAN interfaces
- Temperature sensor and analog potentiometer
- 2 push button switches and 2 LED indicators
- 2x16 ASCII Character LCD with SPI interface
- Access to all pins on the dsPIC30F device sockets via 2x40-pin headers

429243

Mftrs. List No.	Order Code	Price Each
DM300018	111-2720	71.51

16-Bit 28-Pin Starter Board



This low-cost, 16-bit, 28-pin Starter Development Board supports 28-pin PIC24 microcontrollers or dsPIC Digital Signal Controller (DSC) devices. This board is an ideal prototyping tool to help validate key design requirements using these microcontrollers and DSCs.

Features
- Prototyping tool for all 28-pin, SDIP PIC24, dsPIC30F and dsPIC33F devices
- On-board regulators for 3.3V or 5V operation
- Power input from 9V power supply or USB power source
- Single UART communication channel via USB bridge
- Connectors for MPLAB® ICD 2 In-circuit Debugger/Programmer and PICkit™ 2
- Header for access to all device I/O pins
- Circuit prototyping area including pads for SOIC and SOT-23 devices

Contents:
- 16-bit, 28-pin Starter Board
- 28-pin PIC24FJ64GA002 device
- USB cable
- Example software and documentation on CD

478225

Mftrs. List No.		Order Code	Price Each 1+
DM300027	16 Bit 28-Pin Starter Board	136-7272●	57.21
DV164027	16-Bit 28-Pin Starter Board Kit with MPLAB ICD 2 In-Circuit Debugger	143-9838●	171.63

PICDEM MC LV Development Board



The PICDEM MC LV Development board is a development and education tool that provides designers with a quick and cost-effective method to evaluate both sensored and sensorless brushless DC (BLDC) motor control. Users can create embedded motor control applications using MICROCHIP's 28-pin PIC18F microcontrollers and dsPIC30F Digital Signal Controllers.

Features & Benefits:
- Capable of driving motors up to 48V, 2.2Amps
- 3-phase voltage source inverter bridge
- Temperature sensor with I^2C interface
- MPLAB ICD2 connector
- Active RS232 connector
- Speed control potentiometer
- Test points for motor current and back EMF sensing
- Optional 3-phase, 24V BLDC motor and 24V external power supply available

Kit Includes:
- PICDEM MC LV Development Board with pre-programmed (BLDC firmware) PIC18F2431 and dsPIC30F3010 devices
- Software and Documentation CD containing Motor Control GUI (MC-GUI), User's guide and sample applications programs

423040

Mftrs. List No.	Order Code	Price Each
PICDEM MC LV Development Board		
DM183021	108-4612	92.97
24V BLDC Motor with Cables		
AC300020	108-4614	85.82
24V Power Supply for PICDEM MC LV Development Board		
AC002013	108-4617	35.76

dsPICDEM™ MC1 Motor Control Development System





The Motor Control Development System provides the application developer with three main components for quick prototyping and validation of BLDC, PMAC and ACIM applications. The three components are: dsPICDEM MC1 Motor Control Development Board,dsPICDEM MC1L3-Phase Low Voltage Power Module and dsPICDEM MC1H 3-Phase High Voltage Power Module.
The dsPICDEM MC1 Motor Control Development Board contains the dsPIC30F6010 but supports all dsPIC® MCU motor control variances, various peripheral interfaces and a custom interface header system, which allows different motor power modules to be connected to the PCB. The dsPICDEM MC1L 3-Phase Low Voltage Power Module is optimized for 3-phase motor applications that require a DC bus voltage less than 50 volts and can deliver up to 400W power output. The 3-phase low voltage power module is intended to power BLDC and PMAC motors.

The dsPICDEM MC1H 3-Phase High Voltage Power Module is optimized for 3-phase motor applications that require DC bus voltages up to 400 volts and can deliver up to 1 kW power output. The high voltage module has an active power factor correction circuit that is controlled by the dsPIC30F device. This power module is intended for AC induction motor and power inverter applications that operate directly from the AC line voltage.

Features:
- High Voltage or Low Voltage Power Module
- dsPICDEM MC1 Motor Control Development Board with Pre-programmed dsPIC30F Device
- Heatsink for Ambient Cooling of Power Sections
- Full Automatic Protection of Power Circuits
- Electrical Isolation from Power Circuits
- Many Options for Motor Feedback Signals
- Example Software and Documentation on CD

Note: RS232 Cable not provided with DM300020

346901

Mftrs. List No.	Description	Order Code	Price Each
DM300020	dsPICDEM MC1 Motor Control Dev Board	734-8517	214.56
DM300021	MC1H 3-Phase High Voltage Power Module	NEW 162-1783●	572.16
DM300022	dsPICDEM MC1H 3-Phase Lo Volt. Power Module	734-8533	500.64
AC300021	3-Phase ACIM High Voltage Motor (208/460V)	111-2769	85.82
MA300015	dsPIC30F6010 80L Plug-In Module for DM300020	143-9703●	17.88

RL Re-reeling available

Farnell

Microcontrollers and Microprocessors - 8/16/32-Bit - MICROCHIP - Development Tools - continued

Motor Control Development

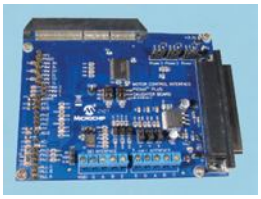


DM330021



MA330013

The dsPICDEM™ MCLV Development Board (**DM330021**) provides a cost-effective method of evaluating and developing sensored or sensorless brushless DC (BLDC) and permanent magnet synchronous motor control applications. The board supports the 100-pin to 100-pin dsPIC33FJXXXMCX10 Plug-In Module (**MA330013**) with a dsPIC33F Motor control device (U9) socket.



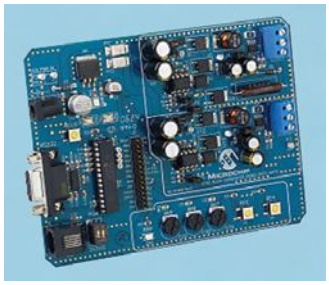
AC164128

The Motor Control Interface PICtail Plus Daughter Board (**AC164128**) is a bridge board that connects the Explorer 16 Development Board to the 3-phase power modules, and is used in motor control applications involving the dsPIC33F family of motor control devices. It has a variety of test points that will make debugging applications easier. It also has hardware support for sensor and sensor-less applications such as Hall sensors, optical encoder, back EMF and current sensing.

521683

Mftrs. List No.	Description	Order Code	Price Each
AC164128	Motor Control Interface PICtail Plus Daughter Card	**164-5433**	76.21
MA330013	dsPIC33 MC Plug In Module	**164-5434**	17.88
DM330021	dsPICDEM MCLV Development Board	**164-5435**	107.28

dsPICDEM SMPS Buck Development Board



This dsPICDEM SMPS Buck Development Board provides an easy way to evaluate the dsPIC30F202x/1010 SMPS & Digital Power Conversion family of components and provides an educational and prototyping platform to investigate digital power conversion and digital Switch Mode Power Supply (SMPS) design. The board includes a socketed dsPIC30F2020 device connected to power devices and circuitry for controlling dual independent low power DC to DC Synchronous Buck Converter circuits as well as support, debug, and communication circuitry.

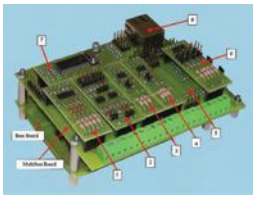
Features:

- Socketed dsPIC30F2020 on board connected to power devices and circuitry for controlling dual independent low power DC to DC Synchronous Buck Converter circuits
- Buck converters can operate in Synchronous or Asynchronous modes
- Input voltage range 7V to 15V (nominal 9V)
- User can enable a dynamic output load to investigate transient response
- User potentiometers to simulate application features such as voltage trim, remote voltage sense, voltage tracking, current sharing, etc.
- MPLAB® ICD 2 or REAL ICE support ready
- RS-232 serial channel
- Example software for implementing digital dual synchronous buck converter, educational material, and documentation on CD

467311

Description	Mftrs. List No.	Order Code	Price Each
dsPICDEM SMPS Buck Development Board	DM300023	**134-0277**	107.27

FLEX Base Boards, Daughter Boards & Modules



1 - Serial port 1
2 - Serial port 2
3 - CAN port 1
4 - CAN port 2
5 -Shown as blank
6 - SPI port (channel selectable)
7 - 10Mbit Ethernet module
8 - RJ45 Ethernet connector

The FLEX Base Board is designed to export all the connections of a standard Microchip dsPIC Digital Signal Controller. The board connections use the standard 2.54mm pitch which makes it easy to use custom, home-made daughterboards. It has robust electronic design, modular architecture and full support of Erika Enterprise real-time kernel from Evidence Srl.

- The FLEX Light Base Board has been designed to be as compact as possible. It uses simplified power supply circuitry and has no integrated USB programming capability. Power to the FLEX Light Base Board must be in the range of 9 - 12V.
- The FLEX Full Base Board integrates an extra-robust power supply circuitry, which allows the usage of a wide range of power supplies. It accepts voltage ranging between 9 and 36 volts. The power supply signal is filtered and regulated to the internal levels. It is protected by a resettable fuse. The board also features an USB port that can be used for data transfer.

A FLEX Daughter Board is a board with specialised features that can be inserted on top of a FLEX Base Board to obtain complex devices for all possible applications.
FLEX is designed as a modular development system. Peripheral functions can be added by connecting the FLEX Multibus Daughterboard and adding any or all of the following modules:

- FLEX Ethernet Module
- FLEX RS232 Module
- FLEX RS485 Module
- FLEX RS422 Module
- FLEX CAN Module
- FLEX SPI Module
- FLEX Serial TTL module

FLEX Plug-in Modules are mounted only if needed. For example, if the application requires the Ethernet interface and the connection to the CAN bus, only the corresponding plug-ins will be mounted on the Multibus board, leaving the remaining pins free for other uses. Alternatively, a custom circuit can be created with the FLEX Thru Hole Prototyping Daughterboard.

506910

Mftrs. List No	Description	Order Code	Price Each
FLEX Base Boards			
FLEX001	FLEX Light Base Board	**157-1910**	90.18
FLEX003	FLEX Full Base Board	**157-1911**	108.40
FLEX Daughter Boards			
FLEX100	FLEX Thru Hole Board	**157-1912**	8.36
FLEX101	FLEX Multibus Daughter Board	**157-1913**	38.26
FLEX109	FLEX Demo Daughter Board	**157-3046**	135.68
FLEX Plugin Modules			
FLEX102	FLEX Multibus Ethernet Module	**157-1914**	32.59
FLEX103	FLEX Multibus RS232 Module	**157-1915**	8.36
FLEX104	FLEX Multibus RS485 Module	**157-1917**	8.36
FLEX105	FLEX Multibus RS422 Module	**157-1918**	8.36
FLEX106	FLEX Multibus CAN Module	**157-1919**	8.36
FLEX107	FLEX Multibus SPI Module	**157-1920**	8.36
FLEX108	FLEX Multibus Serial TTL Module	**157-3045**	8.36

PIC32 Starter Kit



The PIC32 Starter Kit comes complete with everything that you need to get started, including the USB-powered MCU board, the MPLAB® IDE and MPLAB C32 C complier, documentation, sample projects with tutorials, schematics, and 16-bit compatible peripheral libraries. Application expansion boards will also be made available, which plug into the expansion slot on the bottom of the MCU board.

496393

Mftrs. List No.		Order Code	Price Each
DM320001	PIC32 Starter Kit	**152-3317**	35.75

PIC32 USB Starter Board



The PIC32 USB Starter Board provides the easiest and lowest cost method to experience the USB On-The-Go family of PIC32 microcontrollers. Users can develop USB embedded host, device, dual-role, or On-The-Go applications by combining this board with free USB software (On-The-Go support provided in a future software release). The kit includes the PIC32 USB Starter Board, a standard A to mini B cable for debugger & a standard A to micro B cable for USB application development.

Features:

- PIC32MX460F512L 32-bit microcontroller
- Green power-indicator LED
- Regulated +3.3V power supply for powering the starter board via USB or expansion board
- On-board crystal for precision microcontroller clocking (8 MHz)
- USB connectivity for on-board debugger communications
- PIC18LF4550 USB microcontroller for on-board debugging
- Orange Debug indicator LED
- Three push-button switches for user-defined inputs
- Three user-defined indicator LEDs
- Connector for various expansion boards (on the underside of board)
- USB Type A receptacle connectivity for PIC32MX Host based Applications
- USB Type Micro-AB receptacle for OTG and USB Device connectivity for PIC32MX OTG/Device based Applications (on the underside on board)
- USB Host and OTG power supply for powering PIC32MX USB applications

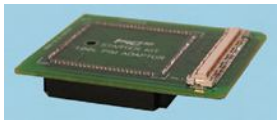
518615

Mftrs. List No.	Description	Order Code	Price Each
DM320003	PIC32 USB Starter Board	**162-1787**	39.34

RL Re-reeling available

PIC32 Starter Board to Explorer 16 PIM Adapter

MICROCHIP



New

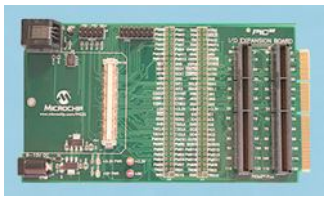
This adapter enables PIC32 Starter Boards to connect to the Plug-In Module on Explorer 16. Users can utilize the functionality on the Explorer 16 or connect PICtail Plus daughter cards for application-specific development.

518609

Mftrs. List No.	Description	Order Code	Price Each
AC320002	PIC32 Starter Board to Explorer 16 PIM Adapter	162-1785●	21.46

PIC32 I/O Expansion Board

MICROCHIP



New

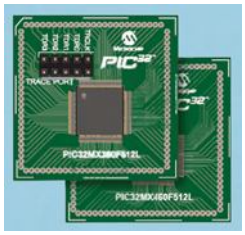
The PIC32 I/O Expansion Board provides Starter Kit and Starter Board users with full access to MCU signals, additional debug headers, and connection of PICtail Plus daughter cards. MCU signals are available for attaching prototype circuits or monitoring signals with logic probes. Headers are provided for connecting JTAG tools or Microchip tools using the 2-wire (ICSP) interface.

518572

Mftrs. List No.	Description	Order Code	Price Each
DM320002	I/O Expansion Board	162-1784●	51.49

PIC32 USB Plug in Module

MICROCHIP



New

This Plug-in Module enables USB development using a PIC32, Explorer 16 development board. Requires USB PICtail+ (AC164131) for connecting USB hardware. An 80 MHz PIC32MX460F512L with 512 KB of Flash, 32 KB of RAM, USB On-The-Go controller, 4 channels of hardware DMA and instruction trace are installed on the plug-in module.

505602

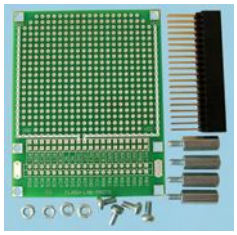
Mftrs. List No.	Order Code	Price Each 1+
MA320002	155-8601●	17.88

Flash Lab and USB MicroStak Dev Kit

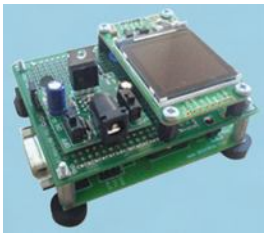
POWERLITE SYSTEMS



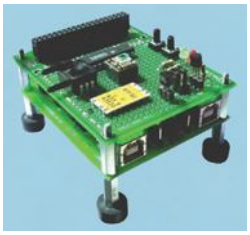
Flash Lab



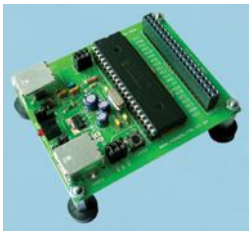
Proto Board



Stacked Board Example



USB MicroStak Stacked Board Example



USB MicroStak

This PC104 style PIC microcontroller development system is based around the Flash Lab Main Board with RS232 connectivity. It is then combined with a choice of Bootloader PICs and 1 or more Flash Lab Prototype Boards.
Mecanique Microcode Loader software is included and bootloader firmware in the on board PIC. This means that no hardware programmer is needed to programme the PIC, only a serial connection to a PC and a standard *.hex file.
Terminal strip breadboards can also be mounted on top of the prototype board or on the bench for quick circuit design and testing. Finished circuits can then be constructed directly on the modular, stackable prototype boards.

The Flash Lab Proto Board is an unpopulated matrix board for inclusion of custom specific circuitry. Both boards carry a gold plated 40 pin PC104 stackthrough connector which enables the interconnection of all the PIC microcontroller I/O between the main board and any number of stacked prototype boards. Spacers are provided to enable the a solid stack assembly to be constructed which can be used for experimentation and as a finished working project.

The USB MicroStak is an alternative to the Flash Lab mainboard and provides USB to Uart rather than RS232 interface connectivity, via the USB1 connector. Like the Flash Lab, no hardware programmer is required and the same prototyping boards used with Flash Lab can be used with USB MicroStak. In fact most circuits assembled on a prototyping board can be used with either mainboard. A second USB socket, USB2, optionally allows use of the on board USB port of a suitable pic. All software for bootloading and USB to Uart virtual COM port drivers is supplied.

Flash Lab Features:
- Rapid PC104 style prototyping with plug and play modular architecture
- Includes software to program your application over a serial connection MAX233 serial interface
- 3-pin header for direct access to serial port DTR, TX and RX signals
- Auto-reset enable/disable jumper for boot-loader programming
- Gold contacts on pass-through I/O connections for superior electrical contacts
- Header posts for connecting any I/O-pin to direct/buffered RS-232 signals

USB MicroStak Features:
- USB1 connector for bootloader programming
- USB2 connector for using PIC on board USB port
- Powered by USB1 or USB2 bus or external 5V supply
- On board voltage selectable for 5V or 3.3V
- Main board can be 5V, proto board 3.3V for example
- 40 pin PC104 stackthrough gold plated connections

451841

	Order Code	Price Each
Flash Lab Main Board	129-6445●	41.56
Bootloader PICs		
PIC16F877A with Bootloader	129-6456●	9.31
PIC18F452 with Bootloader	129-6457●	11.13
PIC18F4455 with Bootloader	129-6458●	11.84
Prototype Board		
Flash Lab Prototype Board	129-6451●	14.48
USB MicroStak		
USB MicroStak PicMicro Development System	146-6680●	44.66

PicBlock MC28AD-USB

POWERLITE SYSTEMS



Features:
- All I/O lines available
- 8 500mA open collector outputs
- ICSP header
- RS232 connector for serial comms or boot-loading
- Independent pull-up options on the O/C outputs
- Onboard reset button and external restart option via RS232
- Onboard regulator or external 5V power option
- USB powered facility

The MC28AD-USB provides direct access to PORTA, PORTB and PORTC. PORTB is also used to drive an 8 way darlington driver providing 500mA open collector outputs with optional pull-up resistors. An ICSP header is provided as is an RS232 connector for serial comms or boot-loading. When using a suitable PIC, USB connectivity is available via an on-board USB-B socket. Both RS232 and USB connections are selectable, as is the option to power the board via the USB socket, an existing 5V supply or the on-board 5V regulator from a higher DC voltage.

471139

	Order Code	Price Each
PicBlock MC28AD-USB	116-1461●	65.45

Microcontrollers and Microprocessors - 8/16/32-Bit - MICROCHIP - Development Tools - continued

POWERLITE SYSTEMS

PicBlock MC18D/28AD



These populated boards are high quality PCBs designed to accept 18 or 28 pin DIL (subject to board selected) PIC or SCENIX microcontroller. Their use is not only confined to being a development board but also due to the features on board, they can also be integrated into a system as a finished product. The PicBlock has an on-board power supply section, input conditioning, output drive of 500mA per channel and all connections are via PCB mounting screw terminals.

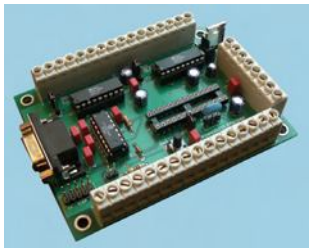
Features:
- Buffered and filtered inputs to cope with a range of input voltages and noisy environments. Input voltage range 3 to 24V DC
- Open collector digital outputs each capable of sinking 500mA
- Power source can be AC 7-20V, or DC 9-28V. A low current regulated 5V supply is available to power external circuits
- An on-board reset button is provided as is space for output pull-up resistors should they be required
- On board 4MHz resonator
- PCB construction all PTH and ground planed on both sides
- Dimensions (18 pin) 81 x 66 x 22mm (28 pin) 104 x 75 x 26mm with 4mm mounting holes

211018

	Order Code	Price Each
PicBlock MC18D	332-7980	32.15
PicBlock MC28AD	120-9616●	43.62

POWERLITE SYSTEMS

PicBlock MC28AD-16



The MC28AD-16 is designed for use with 28-pin Microchip PIC chips and is the most versatile product in the PicBlock range so far.
Serial input latched drivers have enabled 16 open collector outputs requiring the use of only 4 of the PIC chip's I/O lines. This enhances the I/O capability of a 28-pin device to 32 while still maintaining functionality.

Features:
- 16 uncommitted I/O lines
- 16 500mA open collector outputs
- ICSP header
- RS232 connector for serial comms or boot-loading
- Independent pull-up options on the O/C outputs
- Onboard reset button
- Reset via RS232 connection
- Onboard 5V regulator or external power option

423187

	Order Code	Price Each
PicBlock MC28AD-16F	109-3780●	65.64

E-Block Development Boards

matrix multimedia

Matrix Multimedia introduces a wide range of E-Block development boards which are a compacted all-in-one solution to learning microcontroller programming. The kits include everything you need to start to program PIC microcontrollers using flow charts.

477715

PICmicro MCU C Programming Pack

matrix multimedia

New



This solution is perfect for low cost entry into PICmicro development for engineers who need to get up to speed with microcontroller system development using C. The pack is supplied with a PIC16F88 device and a spare 877A chip. It is fully compatible with the range of E-block accessories.

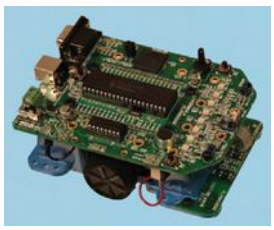
Kit Includes:
- USB PICmicro microcontroller multiprogrammer
- LED E-block (8 leds)
- Switch E-block (8 switches)
- LCD E-block (2 line 16 character)
- USB cable
- Power supply
- C for 16 series PICmicro microcontrollers CD ROM

516946

Mftrs. List No.	Description	Order Code	Price Each
EB627SI3	PICmicro MCU C Programming Pack	162-0649●	136.50

Formula Flowcode Maze Solving Buggy

matrix multimedia



New

This maze solving robot has been designed to provide a motivating platform for learning robotics for all ages. The robot addresses the requirements of technology education in schools and colleges and the electronic circuit board can also be used for mechanical projects at 16+.
It uses an advanced PICmicro 18 series microcontroller with internal precision motor controller circuitry, has 3 infrared distance sensors, line following sensors on a separate circuit board, a speaker, audio level sensor, light sensor, two spare switch inputs, 8 user programmable LEDs, and various expansion buses - including an E-blocks port.

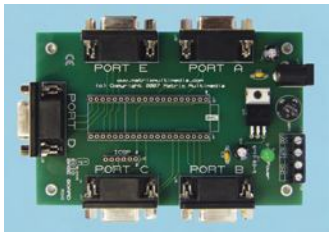
Features:
- Flowcode graphical programming software
- USB programmable
- High technical specification
- Micromouse competition compatible
- Can also be programmed in C and Assembly
- A2 line following track is provided

513806

Mftrs. List No.	Description	Order Code	Price Each
HP794	Maze Solving Buggy	161-0264●	68.00

E-Block ECIO Application Board

matrix multimedia



New

The ECIO application board adds E-blocks compatibility to the ECIO 28 and 40 pin devices. The application board provides up to 5 E-blocks ports which allows the user to attach a wide range of E-blocks boards - from simple LED and switch boards through to Bluetooth, IrDA and Internet communications baords.

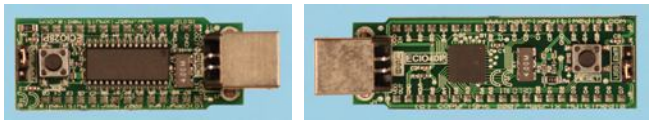
Features:
- Adaptor for E-blocks
- 5x E-blocks ports

516822

Mftrs. List No.	Description	Order Code	Price Each
EB061	ECIO Application Board	162-0637●	20.00

ECIO™ Programmable Microcontrollers

matrix multimedia



New

The ECIO family of USB programmable microcontrollers provides an incredibly simple way of adopting microcontroller technology into projects. The device behaves just likea normal microcontroller, but when connected to a USB lead a simple press of the reset switch allows a new program to be sent to the device. There are two products in the range: ECIO-28P and ECIO- 40P. These devices are based on PICmicro 18 series devices - the 18F2455 and the 18F4455 respectively.

Features:
- Programmable from USB
- Compatible with a free version of Flowcode
- Includes bootloader software
- Can draw power from USB

516702

Mftrs. List No.	Description	Order Code	Price Each
ECIO28	PICmicro MCU ECIO 28 pin	162-0633●	16.50
EC378	PICmicro MCU ECIO 28 pin - 4 pack	162-0635●	47.39
ECIO40	PICmicro MCU ECIO 40 pin	162-0634●	20.39
EC927	PICMicro MCU ECIO 40 pin - 4 pack	162-0636●	58.58

Flowcode 3 development board HP34SI3

matrix multimedia

This pack consists of Flowcode3, a PICMicro microcontroller development board with USB cable and power supply and a spare PIC16F877A chip. This pack is designed for those who want to develop electronic and robotic projects based on PICmicro microcontrollers. This software allows you to quickly develop sophisticated electronic systems based on flow charts. The V3 development board (with USB connection) can be used to both program PICmicro MCU devices and as a development platform for experiments and tutorials. The retail price of this pack is at a significant discount to the sum of the individual parts.

475575

	Mftrs. List No.	Order Code	Price Each
KIT, V3 DEV BOARD AND FLOWCODE S/W	HP343SI	138-2357●	155.00

RL Re-reeling available

E-blocks Easy internet bundle EB566SI

This bundle includes everything you need to rapidly develop internet based systems linked to microcontroller hardware. The bundle includes a copy of Flowcode V3 professional, an E-blocks PICmicro microcontroller USB multiprogrammer, LCD board, LED board, switch board, internet board, power supply, and a spare 16F877A device. Flowcode macros for rapid web development are included.

475586

	Mftrs. List No.	Order Code	Price Each
KIT, E-BLOCKS BUNDLE, EASY INTERNET	EB566SI	138-2360	199.00

E-blocks Easy CAN bus bundle EB628SI

This bundle includes everything you need to rapidly develop CAN systems. It includes a copy of Flowcode Professional, two E-blocks PICmicro Multiprogrammers, an LCD board, a switch board, an LED board, two CAN bus boards, power supply and two PIC16F877A devices. Flowcode macros for rapid CAN bus development are included.

475589

	Mftrs. List No.	Order Code	Price Each
KIT, E-BLOCKS BUNDLE, EASY CAN BUS	EB628SI	138-2361	239.00

E-blocks Entry level Easy CAN bus bundle EB674SI3

This bundle consists of a copy of Flowcode 3, a USB PICmicro microcontroller multiprogrammer, an LED E-block (8 leds) ,a switch E-block (8 switches), an LCD E-block (2 line 16 character) and a USB cable, power supply. This solution is perfect for low cost entry into PICmicro development and is great for students who want to continue their studies at home, and for engineers who need to develop prototypes of electronic systems quickly. The pack is supplied with a PIC16F88 device and a spare 16F877A chip, and is fully compatible with the range of E-block accessories. The retail price of this pack is at a significant discount to the sum of the individual parts.

475590

	Mftrs. List No.	Order Code	Price Each
KIT, E-BLOCKS BUNDLE, FLOWCODE	EB674SI3	138-2362	145.00

E-blocks Microcontroller Development Board HP488

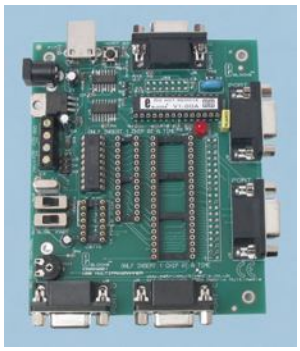
- Connects to USB port
- Compatible with 3 CD ROM based courses
- Download software, PPP, included
- Programs a wide range of PICMicro MCU devices
- E-blocks compatible

This flexible development board is an ideal platform for learning and project development.The board will program a range of 8, 18, 28 and 40 pin PICmicro® microcontroller devices from the 12, 16 and 18 series PICmicro range. The board is programmed using the USB port (from which it can also take power) and is supplied with a comprehensive programming utility - PPP. The board is ideal for using in conjunction with one of our 3 PICmicro CD ROM resources to help learn PICmicro programming using flow charts, C or assembly code. The board can program Low Voltage Programmable PICmicro MCUs and deliver a limited amount of power using only the USB supply, but we recommend that an external power supply (product code HPPSU2) is used to take maximum advantage of the board's features. The board is compatible with our range of E-blocks modules which contain circuitry for a wide range of functions - from simple switches and LEDs, through to internet servers, and Bluetooth transceivers. The board is also compatible with Microchip's In Circuit Debugging (ICD) system.

475776

	Mftrs. List No.	Order Code	Price Each
V3 PICMICRO Development Board	HP488	138-1390	135.00

E-blocks™ PICmicro® Microcontroller Programmer



This new PICmicro® microcontroller programmer connects to your PC via USB to provide you with a low cost flexible PICmicro microcontroller programmer for development and programming use. This board can be used with Assembly, C or Flowcode programming utilities. The board will program a range of 8, 18, 28 and 40 pin PICmicro® microcontroller devices from the 12, 16 and 18 series PICmicro® range, using the programming software provided. The board takes power from an external power supply or from the USB port. A microchip ICD2 socket is fitted for debugging advanced projects. A PIC16F88 device is included. A complete customised training solution can be built using this board and several E-blocks.

377471

	Mftrs. List No.	Order Code	Price Each
E-Blocks USB Multiprogrammer	EB006	121-1611	66.83

E-blocks MIDI Interface EB021

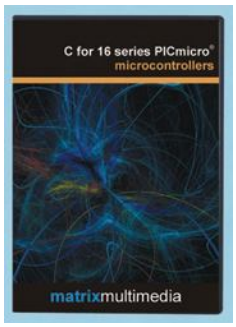
With MIDI in, out and thru ports, this E-block allows any microcontroller to generate, process or respond to any MIDI datastream. The MIDI in signal is fully opto-isolated and the MIDI out and through signals are buffered. This board can be made to work with 3.3V systems with the addition of a few extra components (not fitted as standard).

- MIDI in, out and through
- Opto-isolated input
- E-blocks compatible

475483

	Mftrs. List No.	Order Code	Price Each
KIT, E-BLOCKS MIDI BOARD	EB021	138-2369	30.00

CD-ROM for C PIC16 Series



The C for PICmicro microcontrollers CD ROM is designed for those who need to learn how to program embedded microcontrollers in C. The CD contains a full course as well as all the software tools needed to create hex code for a wide range of PICmicro devices - including a full C compiler and an Integrated Development Environment (IDE). The compiler on this product is for educational use only. Those wanting to produce commercial products using the compiler will need to purchase a commercial licence of the Boost C compiler included on the CD ROM. This new version is designed with the PIC16F88 in mind. This product is designed to work seamlessly with the E-blocks Multiprogrammer and Version 3 development board, but will also operate with third party programmers.

- Includes a new version of our C compiler and IDE
- New analogue sections
- Compatible with most PICmicro programmers
- Highly interactive course

479175

	Mftrs. List No.	Order Code	Price Each
CD-ROM for C PIC16 Series	EL543SI	138-2365	85.00

Assembly for PICmicro® Microcontrollers



The Assembly for PICmicro microcontrollers CD ROM (previously known as PICtutor) contains a complete course in programming the PIC16F84 microcontroller from Arizona Microchip. It starts at a level that the complete beginner will find intelligible, and includes 39 tutorials that take you right up to an advanced level of competence - including discussion and examples of watchdog timers, interrupts and sleep modes. Tests and exercises are provided at every stage of the course to help students ensure that they have grasped one topic before moving on to the next. The CD makes use of the latest simulation techniques which provide a superb tool for learning: the Virtual PICmicro MCU. The Virtual PICmicro microcontroller is a simulation tool that allows users to write and execute assembler code for the PIC16F84 microcontroller on-screen. Using this students can actually see what happens inside the PICmicro MCU as each instruction is executed. This highly visual approach makes learning and debugging much easier than using conventional text-only simulators. The Assembly for PICmicro microcontrollers CD ROM includes an assembler and send package that allows students to download each tutorial program onto the complementary development board.

- Comprehensive instruction with over thirty tutorials
- Includes a Virtual PICmicro microcontroller fully functioning simulator
- Tests, exercises and projects covering a wide range of PICmicro MCU applications
- Includes shareware assembler and download programs

377466

	Mftrs. List No.	Order Code	Price Each
Assembly for PICmicro MCUs V2.0 CD-ROM	ELPICSI2	865-2490	101.78

PIC Trainer Project Boards



These populated boards are ideal for prototype evaluation and for learning PIC programming. The boards have been designed so that the user can start with a working PCB to reduce development time. The project boards are supported by 'The Engineers Guide to Programming PICs' book, Order Code 183-143. PIC Trainer 1 refers to program examples with some code modifications shown in the last chapter.

PIC Trainer 1 Features push button inputs and LED outputs with provision for a ULN2803 Darlington driver.

- Suitable for 18-pin devices (16C54, 16C56, 16C71 and 16C84)
- Socket provided for a Darlington driver (ULN2803)
- 4 input switches connected to port A
- 8 LEDs connected to port B

Microcontrollers and Microprocessors - 8/16/32-Bit - MICROCHIP - Development Tools - continued

PIC Trainer Project Boards - continued

- Suitable projects include push button switching, LED pattern generator, delay timers and logic replacement

PIC Trainer 2 Features 4 x 3 data entry keypad, 4 push button inputs and 4 seven segment display drivers.

- Suitable for 28-pin devices (16C55 and 16C57)
- 4 x 3 keypad connected to ports A and B
- 4 input switches connected to port B
- 4 x 7 segment LED displays connected to port B
- Suitable projects include digital clock, simple calculator, key scan and HEX to 7 segment display

Both project boards have:

- ZIF socket for easy insertion of the PIC
- 4MHz crystal for 1µs instruction time
- 5V regulator and a diode to protect against incorrect voltage polarity

The two boards are also available in kit form, without the ZIF sockets.

210922

	Order Code	Price Each
PIC trainer 1	**300-3942**	23.94
PIC trainer Kit 1	**300-3954**	12.38
PIC trainer 2	**300-3980**	30.20
PIC trainer Kit 2	**300-3991**	16.14

MPLAB REAL ICE In-Circuit Emulator



MPLAB REAL ICE In-Circuit Emulator System is Microchip's next generation high speed emulator for Microchip Flash DSC and MCU devices.
It debugs and programs PIC and dsPIC Flash microcontrollers with the easy-to-use but powerful graphical user interface of the MPLAB Integrated Development Environment (IDE), included with each kit.
The MPLAB REAL ICE probe kit is supplied with a standard Probe Driver which uses a MPLAB ICD 2 type connector (RJ11) to connect to the target application.
The optional High Speed Probe Driver consists of two circuit boards (transmitter and receiver) that employ two CAT5 cables. Debug pins are driven using LVDS communications, and additional trace connections allow high speed serial trace uploads to the PC.

Features:

- Full speed emulation
- Fast debugging and programming
- Low voltage emulation down to 2.0 (2.0 to 6.0 range)
- Erase of program memory space with verification
- Read/Write program and data memory of microcontroller
- Over voltage/short-circuit monitor protection
- Capture trace to log instruction execution and variable contents
- Port trace for high speed upload of trace data
- Stop watch and Real time watch
- USB 2.0 high speed interface to PC (480 Mb/s)

Contents:

MPLAB REAL ICE base Probe Kit(DV244005) includes MPLAB REAL ICE and Standard Driver Board (Compatible with MPLAB ICD 2 RJ-11 connections)
MPLAB REAL ICE Performance Pak(AC244002), includes the High Speed Driver to replace Standard Driver Board for high speed LVDS communications, and a High Speed Receiver Board. The High Speed Driver Boards use a second connector for high speed trace upload.

450867

Mftrs. List No.		Order Code	Price Each
DV244005.	Real Ice Base Probe Kit	**129-4851**●	304.84
AC244002	Performance Pak	**129-7183**●	114.42
AC244006	MPLAB REAL ICE Trace Interface Board Kit	NEW **157-6904**●	57.21

AC244022 - Processor Extension Pak

New

The AC244022 processor pak provides debug capability for the 100/80/64-pin TQFP for the PIC24FJ128GA010 family with no pin loss to the target application. This Processor Extension Pak is to be used with the MPLAB ICD 2 or MPLAB REAL ICE. MPLAB REAL ICE offers the option to interface with the high-speed module (AC244002).

527722

Mftrs. List No.	Description	Order Code	Price Each
AC244022	Processor Extension Pak	**167-6248**●	50.06

MPLAB-ICE Real-Time Emulator



MPLAB-ICE is a high-performance, Real-Time In-Circuit Emulator for the PIC microcontrollers. The system is portable, light weight and connects to a portable or desktop PC parallel port. It provides a migration path for users of PICMASTER Probe kits. The system is designed for easy interchange of processor modules to allow emulation of different processors. MPLAB IDE with MPASM macro assembler, editor, symbolic debugger, project manager with built-in support for high-level languages are also included.

The MPLAB-ICE 2000 features include:

- Full speed Real-Time Emulation
- Programmable clock
- Low voltage operation
- Upto 65,535 breakpoints
- Assembly and C source level debugging
- Program memory emulation and memory mapping capability up to 64K words
- Real-Time trace with up to 32K deep by 128 bit wide buffer
- Trigger/break/trace on internal registers/RAM
- Complex breakpoints with advanced trigger features, including sequential events, AND/OR events, filtered trace, time between events and pass counts
- External trigger input and output for logic analyzer/scope interface
- Time-stamp trace feature
- Code coverage
- Supports all PICmicro package types

The modular system consists of:

- Emulator Pod
- Processor Module
- Device Adaptor
- Translation Socket

Supplied with a universal power supply (100 - 240V, 0.55 - 0.3A, 60/50Hz)UK (240Vac) power supply, 9V, 500mA. UK mains plug lead **439-319**. European mains plug lead **210-699**.

210882

		Order Code	Price Each
ICE2000	MPLAB-ICE real time emulator	**121-393**	715.20
ACICE0108	MPLAB ICE 2000 USB/Parallel Adapter	**108-4627**	71.51
PCM14XA0	Processor module for 16F629/675	**430-0828**	217.07
PCM16XA0	Processor module for 12C50x, 12CE51x, 16C505/52/54A/54B/55/56/56A/57/58A/58B	**121-435**	217.07
PCM16XB1	Processor module for 16C62A/63/64A/65A/72/73A/74A	**326-6825**	246.89
PCM16XH0	Processor module for 16F83/84	**121-502**	246.89
PCM16XK1	Processor module for 16F873/874/876/877	**392-8251**	318.26
PCM16XP0	Real-Time Emulator Processor module for 16F627/628	**352-9060**	246.89
PCM16XQ1	Real-Time Emulator Processor Module for 16C745/765	**352-9071**	251.80
PCM16XR1	Processor module for PIC16F870/871	**424-2014**	217.07
PCM16XS2	Processor Module for 16F7x	**410-3592**	217.07
PCM16XV0	Processor module for PIC16F877A/876A/874A/873A/872A/871A/870A	**424-2038**	318.26
PCM16YE0	Processor Module for 16F818, 819	**469-1593**	217.07
PCM16YG0	Processor Module for PIC16F87/88	**111-2762**	217.07
PCM16YH0	Processor Module for PIC16F777	**111-2763**	217.07
PCM16YR0	Processor Module for PIC16F88x	**143-9840**●	318.26
PCM18XE1	Processor Module for PIC18F6620/8720/8520/6520	**501-0895**	247.91
PCM18XH0	Processor Module for 18F242/252/442/452/2220/2320/4220/4320	**927-2860**	250.76
PCM18XJ0	Processor Module for PIC18F1320/1220	**501-0913**	246.89
PCM18XK0	Processor Module for PIC18F6525/6585/6621/6680/8525/8585/8621/8680	**770-9692**	246.89
PCM18XL0	Processor Module for PIC18F4X31, 2X31	**770-9706**	217.07
PCM18XD1	Processor Module for PIC18F2X8/4X8	**466-3081**	217.07
DVA12XP081	Device adapter for 8-pin 12C671/672, CE673/674 PDIP and SOCI (207 mil)	**121-540**	89.40
DVA16PQ441	Device adapter for 44-pin 16C64A/65A/65B/67/662/74A/74B/765/77/774, F871/F871A/874/877, 18Cxx2 PQFP and TQFP	**430-0853**	160.92
DVA16XP180	Device Adapter for 18/20-pin 16C52/54/54A 54B/56/56A/58A/554/558/620/620A/621/621A/622/622A/CE623/CE624/CE625/71/710/711/715/F83/F84 FDIP, SOIC and SSOP	**121-575**	60.98
DVA16XP183	Real-Time Emulator Device Adaptor for 18 pin 16F627/628 PDIP, SOIC and SSOP	**352-9022**	80.49
DVA16XP186	Device Adapter for PIC16F818/819	**469-1600**	91.54
DVA16XP282	Device adapter for 28 Pin 16CG2A/63/642/66/72/72A/73A/76/16F870/872/873/876/PIC18CXX2/PDIP, SOIC,SSOP	**334-8581**	118.01
DVA16XL441	Device adapter for 44-pin 16C65A/67/662/74A/77 PLCC	**121-617**	71.66
DVA16XP401	Device Adapter for 40-pin PIC16C64A/65A/65B/67/662/74A/74B/77/774/874/877/PIC18Cxx2	**348-1311**	118.01
DVA18PQ440	PIC18F4320 44-pin TQFP Device Adapter	**111-2760**	109.76
DVA18PQ640	PIC18C658 64-pin TQFP Device Adapter	**371-6697**	160.92
DVA18PQ800	PIC18C858 80-pin TQFP Device Adapter	**477-6288**	127.31
DVA18PQ802	PIC18F8680/6680/8565/6585/6621/6525/8621/8525 64-pin TQFP/80-pin TQFP Device Adapter	**111-2786**	109.76
DVA18XP180	DVA18XP180-Ddeive Adapter DVA18XP180, 18P DIP	**111-2772**	80.49
DVA18XP280	PIC18F2220/2320 28-pin Device Adapter	**500-7951**	100.60
DVA18XP400	PIC18F4220/4320 40-pin Device Adapter	**501-0860**	80.49
XLT18SO-1	18-pin SOIC (300 mil) transition socket	**151-1318**●	89.40
XLT20SS	20-pin SSOP transition socket	**119-933**	41.61
XLT28SO-1	28-pin SOIC 0.05" Adapter Socket	**136-7271**●	89.40
XLT80PT	PIC18C801 80-pin TQFP Transition Socket	**371-6892**	72.15

* Transition plug not required for this item

RL Re-reeling available

MPLAB ICE 4000 High Performance In-Circuit Emulator



MPLAB ICE 4000 is a powerful, full featured real-time In-Circuit emulator capable of debugging the most demanding real time systems.
The MPLAB ICE 4000 is intended to provide the product development engineer with a complete microcontroller design tool set for high end PICmicro microcontrollers Software control of the emulator is provided by the MPLAB integrated Development environment, which allows editing, building, downloading and source debugging from a single environment.
The MPLAB ICE 4000 is a premium emulator system providing the features of MPLAB ICE 2000, but with increased emulation memory and high speed performance for dsPIC30F and PIC18XXXX devices.

Features:
- Full speed emulation
- Low voltage emulation down to 1.8 Volts or device limit
- 64K deep X 216-bit wide Trace Memory
- Up to 2 MB of addressable memory
- Unlimited breakpoints
- Complex break, trace and trigger logic
- Multi-level trigger up to 4 levels
- 48- bit time stamp
- Stop watch
- External inputs
- External output to synch with other instrumentation
- USB port and parallel port connection to PC

311393

		Order Code	Price Each
ICE4000	MPLAB ICE 4000 In-Circuit Emulator	**435-4102**	1,830.91
PMF18WS0	ICE4000 Processor Module for PIC18F8722	**111-2754**	425.54
XLT28QFN4	Socket, Transition ICE4000 for 28-Lead QFN	**111-2775**	28.61
ACICE0401	Power supply for use with MPLAB ICE4000, and MPLAB PM3 Programmer	**111-2770●**	35.76

'C' Compiler for PIC17/18

The MPLAB-C17 and -C18 are full-featured compilers compatible with MPLAB-IDE, which allows for quick movement between different development and debugging modes from software debugging with MPLAB-SIM to hardware debugging with MPLAB-ICE.
MPLAB-C17 and -C18, designed for PIC17Cxxx and PIC18Cxxx families allow for:
- Code to be written in high level 'C' language using PICmicro libraries
- Use of software stack for max RAM re-usability
- Optimal code space efficiency, without a stack
- User configurable interrupt support macros
- MPLAB-C17 and -C18 will run on any 386+, DOS 5.0+ or 32-bit Wins 95/NT executive

The development package includes:
- MPLAB-C17 or -C18 Compiler software
- MPLAB software
- Complete documentation
- Microchip CD-ROM with data, embedded control information and applications notes

210928

	Order Code	Price Each
MPLAB-C18 C compiler for PIC18Cxxx family	**315-4841●**	354.02

PIC C-Compiler

- Built-in libraries to work with all chips for RS232 serial I/O library, I/O, I^2C, discrete I/O and precision delays
- Integrates with MPLAB and other simulators/emulators for source level debugging
- Standard Hex file and debug files for all programmers
- Efficient function implementation
- Access to hardware features from easy to use C functions, Timers, A/D, E^2, etc.
- Assembly code may be inserted anywhere in the source and may reference C variables
- #Bit and #BYTE allows C variables to be placed at absolute addresses to map register to C variables
- Automatic linking for multiple code pages
- Both an Integrated editor/compiler and a CMD line compiler
- Special windows show the RAM memory map, C/Assembly listing and the calling tree
- Updates via modem for 30 days included

The C-Compiler for the Microchip PIC processors is fully optimised for these parts. Built-in functions make coding and software easy. The integrated C development environment allows for fast and efficient code from an easily maintainable high level language.

The compilers are available in two versions - command line compiler (PCB, PCM or PCH) and compiler with Windows IDE (PCWH).
The PCW C-Compiler for PICmicro contains both 'PCB' and 'PCM'.
The PCWH C-Compiler for PICmicro contains 'PCH'.
These types have Windows Integrated Development Environment and run under Windows 3.1, 95, 2000 and NT.

All versions include:
- Command Line Compiler
- Built-in Functions
- Program Examples
- Device Drivers
- MPLAB Interface
- Call Tree and Memory Map

Features	PCB	PCM	PCH	PCWH
Windows IDE	—	—	—	✓
C Aware Editor	—	—	—	✓
New Project Wizard	—	—	—	✓
Extra Optimisation	—	—	—	✓
Device Selector/Editor	—	—	—	✓
Statistics	—	—	—	✓
Special Viewers	—	—	—	✓
Serial Port Utility	—	—	—	✓
12-bit support	✓	—	—	✓
14-bit support	—	✓	—	✓
PIC18 support	—	—	✓	✓

210689

	Order Code	Price Each
PCM - C compiler for PIC16C61-84	**791-428**	132.63
PCH - C Compiler for PIC18xxx devices	**394-3185**	164.72
PCWH - C Compiler for Windows	**394-3203**	426.78

C Complier - For the PIC



SourceBoost IDE is a modern development environment that allows rapid development of code. The code can be compiled under one of the SourceBoost compilers, or under under a third part compilers. SourceBoost IDE works under MS Windows 95/98/ME/NT/2000/XP.

Below are only a few IDE features
- Project management
- Syntax coloring, auto complete, value hover, function prototype tool tips etc
- Built-in debugger & profiler
- Open architecture Plugins system for virtual devices and components
- Support of different compilers
- Clock accurate simulator for PIC12, PIC16 and PIC18 targets

451982

Description	Mftrs. List No.	Order Code	Price Each 1+
BoostC Compiler Full License	100001-BCPICFUL	**121-9627**	42.38
BoostC Compiler Pro License	100001-BCPICPRO	**121-9626**	95.44

MPLAB® C30 Compiler

The MPLAB® C30 compiler is a full-featured ANSI compliant C compiler for the dsPIC30F family. MPLAB C30 is fully compatible with Microchip's MPLAB Integrated Development Environment (IDE), allowing source level debugging with the MPLAB ICE in-circuit emulator, MPLAB ICD 2 in-circuit debugger, and MPLAB SIM Simulator.

Features:
- ANSI compliant with standard, math, memory, data conversion and math libraries
- Generates relocatable object modules for enhanced code reuse
- Optimized for dsPIC30F to generate as much as 30% less code than other 16-bit MCU compilers
- Strong support for in-line assembly when total control is absolutely necessary
- Allows code and data to be located at absolute addresses
- Supports advanced code size optimizations
- ANSI compliant with standard, math, memory, data conversion and math libraries
- Generates relocatable object modules for enhanced code reuse
- Optimized for dsPIC30F to generate as much as 30% less code than other 16-bit MCU compilers
- Strong support for in-line assembly when total control is absolutely necessary
- Allows code and data to be located at absolute addresses
- Supports advanced code size optimizations

346951

Mftrs. List No.	Description	Order Code	Price Each
SW006012	dsPIC30F C Compiler Software	**300-6505●**	640.10

MPLAB® C32 C Compiler



Optimised C Compiler with full peripheral libraries.

496397

		Order Code	Price Each
SW006015	MPLAB® C32 C Compiler	**152-3315●**	640.10

BASIC Pro Compiler

The professional version of the PicBasic compiler makes it even easier to program PIC microcontrollers. Many additional features are added and the compiler can also be used within Microchip's MPLAB IDE software.

Features:
- Direct and library access to any pin or register
- Automatic page boundary handling past 2K
- Bit, byte and word arrays
- Real **If...Then...Else...Endif**
- Hierarchical expression handling
- Interrupts in BASIC and assembler
- More variable space (processor dependant)
- In-line assembler and **Call** support
- MPASM / ICE compatibility
- Use in DOS or Windows

RL Re-reeling available
Farnell

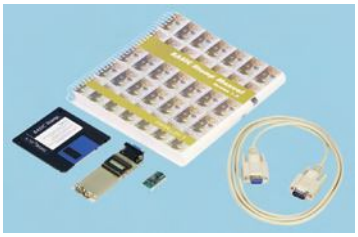
Microcontrollers and Microprocessors - 8/16/32-Bit - MICROCHIP - Development Tools - continued

BASIC Pro Compiler - continued

210985

	Order Code	Price Each
MEL-BPRO	329-6933	189.05

BASIC Stamp Development Kit



BASIC Stamp2 is a module that runs easy-to-read BASIC programs. Its features make it ideal for many prototyping and control applications and it is programmed from a standard PC. It becomes a fully autonomous unit once programmed. The Stamp is fully programmable up to 1,000,000 times with retaining capability even after powerdown.

The Kit comprises:-
- A manual covering programming language, examples/detailed applications, Stamp editor software for the PC (manuals may be updated)
- Stamp2 module and project board
- Programming cable

210784

	Order Code	Price Each
StAmp2 development Kit	688-680	98.74
Basic StAmp2 Module	111-235	43.63

TEAleaf-USB Authentication Key

for Software Licensing and Revenue Protection



TEAleaf-USB is a low cost authentication system which may be used to verify that a software product is not an unauthorised pirate copy. The host processor uses a simple but robust algorithm to verify that a TEAleaf device is present, using a 128-bit encryption key.
TEAleaf-USB uses the Human Interface Device (HID) USB profile. It does not require USB drivers and is immediately plug-and-play compatible with present and future Windows, Linux and Mac operating systems.
TEAleaf-USB is firmware for the PIC18F2450 & PIC18F14K50 microcontrollers. They require only a few discrete components and are available in DIL and SSOP packages.

Features:
- True USB 2.0 HID plug and play - No drivers required
- Ultra low cost single chip solution
- Low speed USB, can use a low cost resonator
- No Vendor ID / Product ID registration required
- Authentication success indication
- All-Systems-Go indication
- Tx / Rx indication
- Low power indication
- 5 digital, analog, interrupt virtual I/O
- 122-byte EEPROM

525834

Mftrs List No.	Description	Order Code	Price Each
TEALEAF-USB	Complete System	167-0823●	22.73
TEALEAF-USB-DIL	Pre-Programmed 28-Pin DIL	167-0821●	5.55
TEALEAF-USB-SS	Pre-Programmed 20-Pin SSOP	SMD 167-0822●	4.37

USB-FileSys

Driver-Free USB Embedded File System

USB-FileSys is a low cost data USB FAT file system. It is a memory area which is easily accessed by a host controller using SPI commands, and, when plugged intoa USB port, appears on a PC like a file on a removable disk. USB-FileSys uses the Mass Storage Device (MSD) USB profile. It will work without drivers on PCs running Windows (ME or later), Mac (OS 9 or later) or Linux (4.0or later). USB-FileSys is firmware for the PIC18LF2455 and PIC18F14K50 microcontrollers. Available as pre-programmed 28-pin DIL package and a 20 pin SSOP package.

Features:
- SPI interface to host controller
- True MSD plug and play - No drivers required
- USB 2.0 compatible

Applications:
- Flash drives
- File transfer
- Device configuration & diagnostics
- Error logging

525839

Mftrs List No.	Description	Order Code	Price Each
USB-FILESYS-DIL	Pre-Programmed 28-Pin DIL	167-0836●	8.10
USB-FILESYS-SS	Pre-Programmed 20-Pin SSOP	SMD 167-0837●	5.82

BASIC Stamp 2p40 Module



The BS2p40 module can be interfaced with the Professional Development Board which has a 40-pin socket. The board includes a large breadboard area and special socket connections for the BS2p series. It has 32 I/O pins, and is rated for the Commercial Temperature range. This module is 3 times faster than a BS2-IC and 20% faster than the BS2SX-IC.

491894

Mftrs. List No.	Order Code	Price Each
BASIC STAMP 2P-40	126-3889●	65.00

MPLAB® PM3 Universal Device Programmer



The MPLAB® PM3 Universal Device Programmer is easy to use and operates with a PC or as a stand-alone unit, and programs Microchip's entire line of PICmicro® devices as well as the latest dsPIC30F DSC devices.

The Key Features include:
- RS-232 or USB interface
- Integrated In Circuit Serial Programming™ (ICSP™) interface
- Fast programming time
- Three operating modes: PC Host mode for full control, Safe mode for secure data and Standalone mode for programming without a PC.
- Complete line of interchangeable socket modules to support all Microchip devices and package options (sold separately)
- SQTP™ serialization for programming unique serial numbers while in PC Host mode.
- Alternate DOS command line interface for batch control
- Supports PROMATE II socket modules via adapter (sold separately)
- Large easy-to-read display
- Field upgradeable firmware allows quick new device support
- Secure Digital (SD) and Multimedia Card (MMC)
- Buzzer notification for noisy environments

346954

Mftrs. List No.	Description	Order Code	Price Each
DV007004	Production Programmer/Development Kit	698-4150	640.10
AC164301	40L DIP Socket Module for MPLAB	698-3960	135.88
AC002021	MPLAB PM3 ICSP Cable	111-2730●	15.02
ACICE0401	Power supply for use with MPLAB ICE4000, and MPLAB PM3 Programmer	111-2770●	35.76

PM3 ICSP to RJ-11 Adapter



This AC164111 PM3 ICSP to RJ-11 adapter can be used with the AC162049 Universal Programming Module (UPM) for in-circuit programming with the MPLAB PM3.

518575

Mftrs. List No.	Description	Order Code	Price Each
AC164111	PM3 ICSP to RJ-11 Adapter	162-1782●	12.87

PIC Socket Modules

210521

	Order Code	Price Each
ICSP socket module	113-608	250.31
PIC12C50x, 50xA, 51x, 67x, CE67x, 16C505 socket module	306-9230	92.97
PIC16C62 28-pin Socket Module(SOIC/SSOP)	500-7859	78.04
PIC16C62, 63, 66, 642, 72, 73, 76, 773, 873, 876 socket module (14 Pin)	315-4919	95.06
PIC16C64/74 socket module	445-666	114.43
PIC17C75x, 18C658 PLCC 68-pin socket module	315-4981	78.04
AC164034 - Adapter 44L QFN to 40L DIP	111-2767	91.95
8-pin DFN-S (MLF) adapter for PICStart+ and PROMATE II with AC164012 (445-666) socket module	424-1990	114.43
Universal Programming Module for ICD2, PICStart+ and PROMATE II	424-2002	28.60
Power supply	110-711	22.99
UK mains lead	112-4400●	7.93
Lead, European 2.5M, Black	112-4379●	5.75

RL Re-reeling available

A Beginners Guide to the PIC – Revised Edition



Written by Nigel Gardner of Bluebird Electronics. The aim of this book/disk set is to give those who have never worked with the PIC a good understanding of its use. For those who have not programmed before guidance is given on how to get started and how to debug. Topics covered include an introduction to the PIC, software, hardware, problems/bugs etc and projects. The book is supplied with a 3½" disk providing assembler, simulator and source code examples.

210529

	Order Code	Price Each 1+	Price Each 5+
PIC Beginners Guide Edition Three	**489-359**	20.56	19.10

PIC Cookbook – Volume 1



Following on from 'A Beginners Guide to The PIC' Nigel Gardner and Pete Birnie have compiled PIC Cookbook – Volume 1.

A collection of 40 working applications including:-

- Boat/caravan intruder alarms
- Magnetic swipe card reader
- PIR security centre
- Traffic light sequencer
- Radio control system
- Mains frequency indicator
- Car left/right/hazard timer
- Radar speed sensor interface

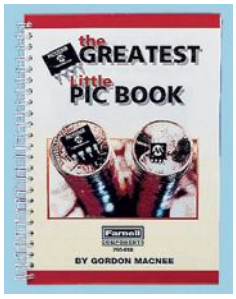
and many more...

Includes a diskette with source code for all the applications.

210600

	Order Code	Price Each 1+	Price Each 5+
PIC Cookbook - Volume 1	**654-991**	18.50	17.19

The Greatest Little PIC Book

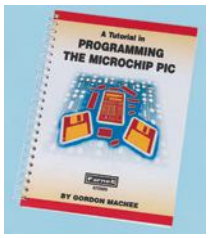


The Greatest Little PIC Book, by Gordon MacNee, covers the new 8 pin PIC12C50x family from Microchip. This device is ideal for those applications requiring a few I/O lines. The book has been written to guide the potential user through the architecture, software modes and benefits derived from using the PIC12C50x. The book also covers development tools and is supplied with MPLAB (editor, assembler and simulator) to enable development under Windows. The book is rounded off with a number of worked examples including timers, sound generators, water descaler, data logger and light/motor control.

210685

	Order Code	Price Each 1+	Price Each 5+
The Greatest Little PIC Book	**790-618**	19.14	17.43

A Tutorial in Programming the Microchip PIC



This is an ideal book for those who have basic knowledge of microcontrollers, by the author of "The Greatest Little PIC Book" - Gordon MacNee and Paul Benford. The book leads the reader through a number of code segments that can be used as standalone blocks of code or integrated into other projects. It also covers programming principals and techniques for the PIC and configuration of the most popular peripherals. All code examples are on the accompanying 3.5 inch disk.

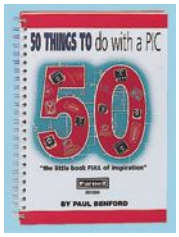
Code segments covered:

- USART set-up for RS232 communications in hardware
- How to communicate to a PC using software USART
- How to handle timers and interrupts
- ADC set up and use
- LCD interface
- An introduction to the MPLAB development environment

210773

	Order Code	Price Each 1+	Price Each 5+
A tutorial in programming the Microchip PIC	**670-509**	20.85	19.25

50 Things To Do with a PIC



In this his second lab book the author, Paul Benford, has sought to collect fifty design briefs and ideas using the latest PIC devices, to inspire the design engineer to look at many of the features available on the second and third generation PIC micros.

This work offers a total of 50 design ideas with full block diagrams, code examples and design tips. The author also explains the selection of the device and advantages in using the device.

The book is ideal for the design engineer wth some PIC experience and also for undergraduate project work. A Microchip CD-ROM is included.

Projects and designs include:

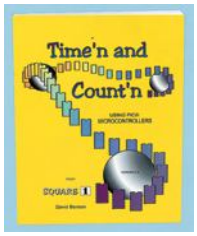
- Lighting controller
- Real Time Clock
- Personal Alarm
- Keyless entry
- Digital thermometer
- Auto baud detection
- Stepper motor control

... and many more.

210865

	Order Code	Price Each
50 Things To Do With a PIC	**691-094**	21.34

Time'n and Count'n



This book is a PIC microcontroller application guide written by David Benson, as a second intermediate level book. It updates the last edition entitled 'PIC'n Techniques'.It includes references to the more recent device revisions, the PIC16F870 and the In-Circuit Debugger (ICD).The author provides program examples with the aim to encourage the readers to write their own.

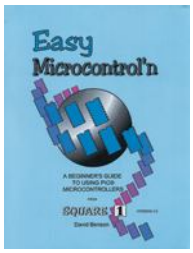
The book covers:

- Using timers
- Capture/Compare/PWM modules
- Timing and Counting experiments
- Designing and building test equipment such as keypad/LCD user interface, digital frequency generator and time interval measurement instruments
- References to programming listings/code, schematics and using ICD

246657

	Order Code	Price Each
Time'n and Count'n	**301-2840**	35.48

Easy Microcontrol'n



The book covers:

- PIC16F84 overview and specifics
- Choosing a device programmer
- Using an Assembler
- Getting started with MPLAB
- Writing programs
- Interrupts
- Timing and Counting with experiments
- Program memory paging
- Configuration bits
- I/O conversion
- Multiplexed 7 - segment LED display

A beginners guide to using PIC Microcontollers written by David Benson for Students, hobbyists, technicians and engineers alike.

272150

	Order Code	Price Each
Easy Microcontrol'n	**439-4320**	34.29

Microcontrol'n Apps



The book covers:

- Using Op-Amps & Comparators
- Serial Communications
- Shift Registers
- Serial Eeproms
- PIC-to-PIC communications
- LCD interface
- Scanning Keypads
- ADC & DAC (PWM)
- Math routines
- Using PIC16F628, PIC12F675
- In-Circuit Debugging

This is an applications guide, a follow up to E'asy Microcontrol'n' , also written by David Benson.

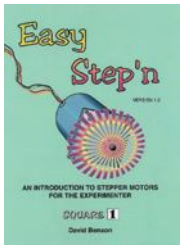
272177

	Order Code	Price Each
Microcontrol'n Apps	**439-4331**	38.58

RL Re-reeling available

Farnell

Easy Step'n



The book covers:

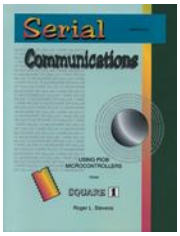
- Bipolar and Unipolar stepper motors
- Software code examples
- Driving techniques - full and half stepping
- Hardware details

An Introduction to Stepper Motors for the Experimenter. All you ever wanted to know about stepper motors and drivers but were afraid to ask. This book (200 pages) explains how to determine surplus motor electrical and mechanical specs by using easy-to-build electrical and mechanical test equipment, design and build microcontroller based control systems design and build driver circuits to switch power applied to stepper motor windings. The book is hands-on and full of experiments. The format of the book uses flow charts and many code examples in a step-by-step approach.

240825

	Order Code	Price Per Pack 1+
Easy step'n	**414-0345**	36.93

Serial Communications



The book covers:

- PIC micro Serial Communications
- Asynchronous/Synchronous Serial Communications
- ASCII character code
- The RS232 standard
- Bit Bang Asynchronous Comms
- I²C serial bus
- SPI serial bus
- Microwire serial interface
- Maxim-Dallas 1-wire interface

This is the fourth title in the series written by Roger Stevens, featuring PIC microcontrollers. The book shows comprehensive methods for implementing serial communications between PICs and external devices.

272181

	Order Code	Price Each
Serial Communications	**439-4343**	41.78

Microcontrollers and Microprocessors - 8/16/32-Bit - MICROCHIP

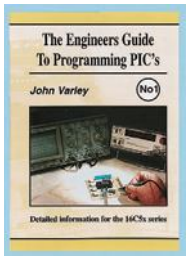


FREE Re-reeling service

Only buy what you need and improve assembly efficiency.

Look for the logo RL
or find out more on **page 1324**
or visit **www.farnell.com**

The Engineers Guide to Programming PICs



- Detailed information on the 16C5x series with many examples of program code and illustrated with comprehensive tables showing the status of all relevent the registers as the code is executed
- A practical guide which is ideal for engineers who wish to learn to write programme code in a professional way
- Suitable for BTEC students as course learning material with many worked examples of each instruction so that the reader can easily follow the programmes
- A selection of real world problems for the reader to solve and so gaining confidence and experience of use
- How to use the PICSTART and MPLAB software

The Book shows how to;

- Initialize the PIC I/O, option and real time clock registers construct loops and delays
- Scan the input ports for keypad information
- Multiplex the outputs for LED displays
- Use logical instructions
- Use mathematical instructions and how to construct basic multiplication and division routines
- Put the PIC to sleep and wake it up again
- Use the watch dog timer
- Convert programs to run on the 12Cxx and 16C84

Also included is a decimal - hex - binary look up table and fold out reference sections

223567

	Order Code	Price Each
The Engineers Guide to Programming PICs	**183-143**	18.10

Programming and Customizing the 8051 Microcontroller



- A complete understanding of the 8051 chip compatibles
- Clear explanation of how the devices are electronically programmed, along with a design for Atmel 2010 microcontroller programmer that you build
- Tools for developing 8051 applications
- Two sample 8051 real time operating systems
- Help in programming both assembly language and high level applications
- Tips to make code development and bebugging easier

223545

Order Code	Price Each 1+
311-7236	30.84

Microcontrollers and Microprocessors - 8/16/32-Bit - MICROCHIP

PIC® Microcontrollers - Numeric Selection Chart

Abbreviations

AC97 = Audio Codec Interface
ADC = Analog-to-Digital- Converter
BLR = boot Loader RAM
BVref = Bandgap Vref
CAN = Controller Area Network
CAP = Capture
CCP = Capture/Compare/PWM
DAC = Digital-to-Analog Converter
DMA = Direct Memory Access Controller
E² = EEPROM (Reprogrammable)
LIN XCVR = Local Interconnection Network Transciever
MI²C/SPI = Master I²C/SPI
PLVD = Programmable Low-Voltage Detection
PSP = Parallel Slave Port
PrVref = Precision Vref
PVref = Programmable Vref
PWM = Pulse Width Modulator
QEI = Quadrature Encoder Interface
SLAC = Slope A/D Converter, up to 16 bits
SMB = System Management Bus
ECAN = Enhanced CAN
ECCP = Enhanced Capture /Compare/4PWM
EMA = External Memory Address
ICD = I-Circuit Debugger Compatible
I²C = Inter-integrated Circuit Bus
InOs = Internal Oscillator
iTrace = Instruction Trace
LCD = LCD drive capability (no of segments)

EPROM fuse selectable oscillator options:

HS = High Speed Crystal/Resonator
LP = Power saving, Low frequency crystal
StdFl = Standard Flash: up to 10,000 erase/write cycles
TS = Temperature Sensor
RxBuff = Receive Buffer
WDT = Serial Peripheral Interface
USART = Universal Synchronous/Asynchronous Receiver/Transmitter
USB = Universal Serial Bus
WDT = Watchdog Timer
RC = Low Cost RC Oscillator
XT = Standard Crystal/Resonator

241373

Device	Flash Prog Memory (KBytes)	RAM (Bytes)	EEPROM (Bytes)	I/O Pins	Device Package	Max CPU Speed	Comparators	ADC	Timers	Connectivity	Std PWM	Other Features	Op Voltage
dsPic30F 16 Bit Flash Digital Signal Controllers - 30Mips - Vdd 2.5v - 5.5v													
dsPIC30F1010	6	256	--	21	28	120MHz	2	6x10bit	2x16	UART/SPI/I2C	1	4-MtrCtrl. PWM	(3V-5.5V)
dsPIC30F2010	12	512	1024	20	28	120MHz		6x10bit	3x16,1x32	UART/SPI/I2C	2	6-MtrCtrl. PWM, QEI	(2.5V-5.5V)
dsPIC30F2011	12	1024	--	12	18	120MHz		6x12bit	3x16,1x32	UART/SPI/I2C	2		(2.5V-5.5V)
dsPIC30F2012	12	1024	--	20	28	120MHz		10x12bit	3x16,1x32	UART/SPI/I2C	2		(2.5V-5.5V)
dsPIC30F2020	12	512	--	21	28	120MHz	4	8x10bit	3x16,1x32	UART/SPI/I2C	2	8-MtrCtrl. PWM	(3V-5.5V)
dsPIC30F2023	12	512	--	35	44	120MHz	4	12x10bit	3x16,1x32	UART/SPI/I2C	2	8-MtrCtrl. PWM	(3V-5.5V)
dsPIC30F3010	24	1024	1024	20	28	120MHz		6x10bit	5x16,2x32	UART/SPI/I2C	2	6-MtrCtrl. PWM	(2.5V-5.5V)

Device	Flash Prog Memory (KBytes)	RAM (Bytes)	EEPROM (Bytes)	I/O Pins	Device Package	Max CPU Speed	Comparators	ADC	Timers	Connectivity	Std PWM	Other Features	Op Voltage
dsPic30F 16 Bit Flash Digital Signal Controllers - 30Mips - Vdd 2.5v - 5.5v													
dsPIC30F3011	24	1024	1024	30	40	120MHz		9x10bit	5x16,2x32	2xUART/SPI/I2C	4	6-MtrCtrl. PWM, QEI	(2.5V-5.5V)
dsPIC30F3012	24	2048	1024	12	18	120MHz		8x12bit	3x16,1x32	UART/SPI/I2C	2		(2.5V-5.5V)
dsPIC30F3013	24	2048	1024	20	28	120MHz		10x12bit	3x16,1x32	2xUART/SPI/I2C	2		(2.5V-5.5V)
dsPIC30F3014	24	2048	1024	30	40	120MHz		13x12bit	3x16,1x32	2xUART/SPI/I2C	2		(2.5V-5.5V)
dsPIC30F4011	48	2048	1024	30	40	120MHz		9x10bit	5x16,2x32	2xUART/SPI/I2C/CAN	4	6-MtrCtrl. PWM	(2.5V-5.5V)
dsPIC30F4012	48	2048	1024	20	28	120MHz		6x10bit	5x16,2x32	UART/SPI/I2C/CAN	2	6-MtrCtrl. PWM, QEI	(2.5V-5.5V)
dsPIC30F4013	48	2048	1024	30	40	120MHz		13x12bit	5x16,2x32	2xUART/SPI/I2C/AC97/CAN	4		(2.5V-5.5V)
dsPIC30F5011	66	4096	1024	52	64	120MHz		16x12bit	5x16,2x32	2xUART/SPI/I2C/AC97/2xCAN	8		(2.5V-5.5V)
dsPIC30F5013	66	4096	1024	68	80	120MHz		16x12bit	5x16,2x32	2xUART/SPI/I2C/AC97/2xCAN	8		(2.5V-5.5V)
dsPIC30F5015	66	2048	1024	52	64	120MHz		16x10bit	5x16,2x32	UART/SPI/I2C/CAN	4	8-MtrCtrl. PWM, QEI	(2.5V-5.5V)
dsPIC30F6010A	144	8192	4096	68	80	120MHz		16x10bit	5x16,2x32	2xUART/SPI/I2C/2xCAN	8	8-MtrCtrl. PWM, QEI	(2.5V-5.5V)
dsPIC30F6011A	132	6144	2048	52	64	120MHz		16x12bit	5x16,2x32	2xUART/SPI/I2C/2xCAN	8		(2.5V-5.5V)
dsPIC30F6012A	144	8192	4096	52	64	120MHz		16x12bit	5x16,2x32	2xUART/2xSPI/I2C/AC97/2xCAN	8		(2.5V-5.5V)
dsPIC30F6013A	132	6144	2048	68	80	120MHz		16x12bit	5x16,2x32	2xUART/SPI/I2C/2xCAN	8		(2.5V-5.5V)
dsPIC30F6014A	144	8192	4096	68	80	120MHz		16x12bit	5x16,2x32	2xUART/2xSPI/I2C/AC97/2xCAN	8		(2.5V-5.5V)
dsPIC30F6015	144	8192	4096	52	64	120MHz		16x10bit	5x16,2x32	2xUART/SPI/I2C/CAN	8	8-MtrCtrl. PWM, QEI	(2.5V-5.5V)
dsPic33F 16Bit Flash Digital Signal Controllers - 40 Mips - Vdd 3.0v - 3.6v													
dsPIC33FJ128GP202	128	8192	--	21	28	80MHz		10x10/12bit	5x16, 2x32	2xUART/2xPSI/I2C	4		(3V-3.6V)
dsPIC33FJ128GP204	128	8192	--	35	44	80MHz		13x10/12bit	5x16, 2x32	2xUART/2xPSI/I2C	4		(3V-3.6V)
dsPIC33FJ128MC202	128	8192	--	21	28	80MHz		10x10/12bit	5x16, 2x32	2xUART/2xPSI/I2C	4	8-MtrCtrl. PWM, QEI	(3V-3.6V)
dsPIC33FJ128MC204	128	8192	--	35	44	80MHz		13x10/12bit	5x16, 2x32	2xUART/2xPSI/I2C	4	8-MtrCtrl. PWM, QEI	(3V-3.6V)
dsPIC33FJ128GP206	128	8192	--	53	64	80MHz		18x10/12bit	9x16,4x32	2xUART/2xSPI/I2C	8		(3V-3.6V)
dsPIC33FJ128GP306	128	16384	--	53	64	80MHz		18x10/12bit	9x16,4x32	2xUART/2xSPI/I2C	8		(3V-3.6V)
dsPIC33FJ128GP310	128	16384	--	85	100	80MHz		32x10/12bit	9x16,4x32	2xUART/2xSPI/I2C	8		(3V-3.6V)
dsPIC33FJ128GP706	128	16384	--	53	64	80MHz		2x18x10/ 12bit	9x16,4x32	2xUART/2xSPI/I2C/2xECAN	8		(3V-3.6V)
dsPIC33FJ128GP708	128	16384	--	69	80	80MHz		2x24x10/ 12bit	9x16,4x32	2xUART/2xSPI/I2C/2xECAN	8		(3V-3.6V)
dsPIC33FJ128GP710	128	16384	--	85	100	80MHz		2x32x10/ 12bit	9x16,4x32	2xUART/2xSPI/I2C/2xECAN	8		(3V-3.6V)
dsPIC33FJ128MC506	128	8192	--	53	64	80MHz		16x10/12bit	9x16,4x32	2xUART/2xSPI/I2C/ECAN	8	8-MtrCtrl. PWM, QEI	(3V-3.6V)
dsPIC33FJ128MC510	128	8192	--	85	100	80MHz		24x10/12bit	9x16,4x32	2xUART/2xSPI/I2C/ECAN	8	8-MtrCtrl. PWM, QEI	(3V-3.6V)
dsPIC33FJ128MC706	128	16384	--	53	64	80MHz		2x16x10/ 12bit	9x16,4x32	2xUART/2xSPI/I2C/ECAN	8	8-MtrCtrl. PWM, QEI	(3V-3.6V)
dsPIC33FJ128MC708	128	16384	--	69	80	80MHz		2x18x10/ 12bit	9x16,4x32	2xUART/2xSPI/I2C/2xECAN	8	8-MtrCtrl. PWM, QEI	(3V-3.6V)
dsPIC33FJ128MC710	128	16384	--	85	100	80MHz		2x24x10/ 12bit	9x16,4x32	2xUART/2xSPI/I2C/2xECAN	8	8-MtrCtrl. PWM, QEI	(3V-3.6V)
dsPIC33FJ12GP201	12	1024	--	13	18	80MHz		8x10/12bit	3x16,1x32	UART/SPI/I2C	2		(3V-3.6V)
dsPIC33FJ12GP202	12	1024	--	21	28	80MHz		10x10/12bit	3x16,1x32	UART/SPI/I2C	2		(3V-3.6V)
dsPIC33FJ12MC201	12	1024	--	15	20	80MHz		4x10/12bit	3x16,1x32	UART/SPI/I2C	2	8-MtrCtrl. PWM, QEI	(3V-3.6V)
dsPIC33FJ12MC202	12	1024	--	21	28	80MHz		6x10/12bit	3x16,1x32	UART/SPI/I2C	2	8-MtrCtrl. PWM, QEI	(3V-3.6V)
dsPIC33FJ256GP506	256	16384	--	53	64	80MHz		18x10/12bit	9x16,4x32	2xUART/2xSPI/2xI2C/ECAN	8		(3V-3.6V)
dsPIC33FJ256GP510	256	16384	--	85	100	80MHz		32x10/12bit	9x16,4x32	2xUART/2xSPI/2xI2C/ECAN	8		(3V-3.6V)
dsPIC33FJ256GP710	256	32768	--	85	100	80MHz		2x32x10/ 12bit	9x16,4x32	2xUART/2xSPI/2xI2C/2xECAN	8		(3V-3.6V)
dsPIC33FJ256MC510	256	16384	--	85	100	80MHz		16x10/12bit	9x16,4x32	2xUART/2xSPI/2xI2C/ECAN	8	8-MtrCtrl. PWM, QEI	(3V-3.6V)
dsPIC33FJ256MC710	256	32768	--	85	100	80MHz		2x24x10/ 12bit	9x16,4x32	2xUART/2xSPI/2xI2C/2xECAN	8	8-MtrCtrl. PWM, QEI	(3V-3.6V)
dsPIC33FJ64GP206	64	8192	--	53	64	80MHz		18x10/12bit	9x16,4x32	2xUART/2xSPI/I2C	8		(3V-3.6V)
dsPIC33FJ64GP306	64	16384	--	53	64	80MHz		18x10/12bit	9x16,4x32	2xUART/2xSPI/2xI2C	8		(3V-3.6V)
dsPIC33FJ64GP310	64	16384	--	85	100	80MHz		2x24x10/ 12bit	9x16,4x32	2xUART/2xSPI/2xI2C	8		(3V-3.6V)
dsPIC33FJ64GP706	64	16384	--	53	64	80MHz		2x18x10/ 12bit	9x16,4x32	2xUART/2xSPI/2xI2C/2xECAN	8		(3V-3.6V)
dsPIC33FJ64GP708	64	16384	--	69	80	80MHz		2x24x10/ 12bit	9x16,4x32	2xUART/2xSPI/2xI2C/2xECAN	8		(3V-3.6V)
dsPIC33FJ64GP710	64	16384	--	85	100	80MHz		2x32x10/ 12bit	9x16,4x32	2xUART/2xSPI/2xI2C/2xECAN	8		(3V-3.6V)
dsPIC33FJ64MC506	64	8192	--	53	64	80MHz		16x10/12bit	9x16,4x32	2xUART/2xSPI/2xI2C/ECAN	8	8-MtrCtrl. PWM, QEI	(3V-3.6V)
dsPIC33FJ64MC508	64	8192	--	69	80	80MHz		18x10/12bit	9x16,4x32	2xUART/2xSPI/2xI2C/ECAN	8	8-MtrCtrl. PWM, QEI	(3V-3.6V)
dsPIC33FJ64MC510	64	8192	--	85	100	80MHz		24x10/12bit	9x16,4x32	2xUART/2xSPI/2xI2C/ECAN	8	8-MtrCtrl. PWM, QEI	(3V-3.6V)
dsPIC33FJ64MC706	64	16384	--	53	64	80MHz		2x16x10/ 12bit	9x16,4x32	2xUART/2xSPI/2xI2C/ECAN	8	8-MtrCtrl. PWM, QEI	(3V-3.6V)
dsPIC33FJ64MC710	64	16384	--	85	100	80MHz		2x24x10/ 12bit	9x16,4x32	2xUART/2xSPI/2xI2C/2xECAN	8	8-MtrCtrl. PWM, QEI	(3V-3.6V)
Baseline and Mid Range 8 Bit Flash Microcontrollers													
PIC10F200	0.375	16	--	4	6	4MHz			1x8-bit				(2V-5.5V)
PIC10F202	0.75	24	--	4	6	4MHz			1x8-bit				(2V-5.5V)
PIC10F204	0.375	16	--	4	6	4MHz	1		1x8-bit				(2V-5.5V)
PIC10F206	0.75	24	--	4	6	4MHz	1		1x8-bit				(2V-5.5V)
PIC10F220	0.375	16	--	4	6	8MHz		2x8bit	1x8-bit				(2V-5.5V)
PIC10F222	0.75	23	--	4	6	8MHz		2x8bit	1x8-bit				(2V-5.5V)
PIC12F508	0.75	25	--	6	8	4MHz			1x8-bit				(2V-5.5V)
PIC12F509	1.5	41	--	6	8	4MHz			1x8-bit				(2V-5.5V)
PIC12F510	1.5	38	--	6	8	8MHz	1	3x8bit	1x8-bit				(2V-5.5V)
PIC12F609	1.75	64	--	6	8	20MHz	1		1x8,1x16				(2V-5.5V)

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Microcontrollers and Microprocessors - 8/16/32-Bit - MICROCHIP - continued

PIC® Microcontrollers - Numeric Selection Chart - continued

Device	Flash Prog Memory (KBytes)	RAM (Bytes)	EEPROM (Bytes)	I/O Pins	Device Package	Max CPU Speed	Comparators	ADC	Timers	Connectivity	Std PWM	Other Features	Op Voltage
Baseline and Mid Range 8 Bit Flash Microcontrollers													
PIC12F615	1.75	64	--	6	8	20MHz	1	4x10bit	2x8,1x16		1		(2V-5.5V)
PIC12F629	1.75	64	128	6	8	20MHz	1		1x8,1x16				(2V-5.5V)
PIC12F635	1.75	64	128	6	8	20MHz	1		1x8,1x16			Keeloq®	(2V-5.5V)
PIC12F675	1.75	64	128	6	8	20MHz	1	4x10bit	1x8,1x16				(2V-5.5V)
PIC12F683	3.5	128	256	6	8	20MHz	1	4x10bit	2x8,1x16		1		(2V-5.5V)
PIC12HV609	1.75	64	--	6	8	20MHz	1		1x8,1x16				(2V-15V)
PIC12HV615	1.75	64	--	6	8	20MHz	1	4x10bit	2x8,1x16		1		(2V-15V)
PIC16F505	1.5	72	--	12	14	20MHz			1x8-bit				(2V-5.5V)
PIC16F506	1.5	67	--	12	14	20MHz	2	3x8bit	1x8-bit				(2V-5.5V)
PIC16F54	0.75	25	--	12	18	20MHz			1x8-bit				(2V-5.5V)
PIC16F57	3	72	--	20	28	20MHz			1x8-bit				(2V-5.5V)
PIC16F59	3	134	--	32	40	20MHz			1x8-bit				(2V-5.5V)
PIC16F610	1.75	72	--	12	14	20MHz	2		2x8,1x16				(2V-5.5V)
PIC16F616	3.5	128	--	12	14	20MHz	2	8x10bit	2x8,1x16		1		(2V-5.5V)
PIC16F627A	1.75	224	128	16	18	20MHz	2		2x8,1x16	UART	1		(2V-5.5V)
PIC16F628A	3.5	224	128	16	18	20MHz	2		2x8,1x16	UART	1		(2V-5.5V)
PIC16F630	1.75	64	128	12	14	20MHz	1		1x8,1x16				(2V-5.5V)
PIC16F631	1.75	64	128	18	20	20MHz	2		1x8,1x16				(2V-5.5V)
PIC16F636	3.5	128	256	12	14	20MHz	2		1x8,1x16			Keeloq®	(2V-5.5V)
PIC16F648A	7	256	256	16	18	20MHz	2		2x8,1x16	UART	1		(2V-5.5V)
PIC16F676	1.75	64	128	12	14	20MHz	1	8x10bit	1x8,1x16				(2V-5.5V)
PIC16F677	3.5	128	256	18	20	20MHz	2	12x10bit	1x8,1x16	SPI/I2C			(2V-5.5V)
PIC16F684	3.5	128	256	12	14	20MHz	2	8x10bit	2x8,1x16		1		(2V-5.5V)
PIC16F685	7	256	256	18	20	20MHz	2	12x10bit	2x8,1x16		1		(2V-5.5V)
PIC16F687	3.5	128	256	18	20	20MHz	2	12x10bit	1x8,1x16	UART/SPI/I2C			(2V-5.5V)
PIC16F688	7	256	256	12	14	20MHz	2	8x10bit	1x8,1x16	UART			(2V-5.5V)
PIC16F689	7	256	256	18	20	20MHz	2	12x10bit	1x8,1x16	UART/SPI/I2C			(2V-5.5V)
PIC16F690	7	256	256	18	20	20MHz	2	12x10bit	2x8,1x16	UART/SPI/I2C	1		(2V-5.5V)
PIC16F716	3.5	128	--	13	18	20MHz		4x8bit	2x8,1x16		1		(2V-5.5V)
PIC16F72	3.5	128	--	22	28	20MHz		5x8bit	2x8,1x16	SPI/I2C	1		(2V-5.5V)
PIC16F73	7	192	--	22	28	20MHz		5x8bit	2x8,1x16	UART/SPI/I2C	2		(2V-5.5V)
PIC16F737	7	368	--	25	28	20MHz	2	11x10bit	2x8,1x16	UART/SPI/I2C	3		(2V-5.5V)
PIC16F74	7	192	--	33	40	20MHz		8x8bit	2x8,1x16	UART/SPI/I2C	2	PSP	(2V-5.5V)
PIC16F747	7	368	--	36	40	20MHz	2	14x10bit	2x8,1x16	UART/SPI/I2C	3	PSP	(2V-5.5V)
PIC16F76	14	368	--	22	28	20MHz		5x8bit	2x8,1x16	UART/SPI/I2C	2		(2V-5.5V)
PIC16F767	14	368	--	25	28	20MHz	2	11x10bit	2x8,1x16	UART/SPI/I2C	3		(2V-5.5V)
PIC16F77	14	368	--	33	40	20MHz		8x8bit	2x8,1x16	UART/SPI/I2C	2	PSP	(2V-5.5V)
PIC16F777	14	368	--	36	40	20MHz	2	14x10bit	2x8,1x16	UART/SPI/I2C	3	PSP	(2V-5.5V)
PIC16F785	3.5	128	256	18	20	20MHz	2 + 1 Opamp	12x10bit	2x8,1x16		1		(2V-5.5V)
PIC16F818	1.75	128	128	16	18	20MHz		5x8bit	2x8,1x16	SPI/I2C	1		(2V-5.5V)
PIC16F819	3.5	256	256	16	18	20MHz		5x8bit	2x8,1x16	SPI/I2C	1		(2V-5.5V)
PIC16F84A	1.75	68	64	13	18	20MHz			1x8-bit				(2V-6V)
PIC16F87	7	368	256	16	18	20MHz	2		2x8,1x16	UART/SPI/I2C	1		(2V-5.5V)
PIC16F870	3.5	128	64	22	28	20MHz		5x8bit	2x8,1x16	UART	1		(2V-5.5V)
PIC16F871	3.5	128	64	33	40	20MHz		8x10bit	2x8,1x16	UART	1	PSP	(2V-5.5V)
PIC16F872	3.5	128	64	22	28	20MHz		5x10bit	2x8,1x16	SPI/I2C	1		(2V-5.5V)
PIC16F873A	7	192	128	22	28	20MHz	2	5x10bit	2x8,1x16	UART/SPI/I2C	2		(2V-5.5V)
PIC16F874A	7	192	128	33	40	20MHz	2	8x10bit	2x8,1x16	UART/SPI/I2C	2	PSP	(2V-5.5V)
PIC16F876A	14	368	256	22	28	20MHz	2	5x10bit	2x8,1x16	UART/SPI/I2C	2		(2V-5.5V)
PIC16F877A	14	368	256	33	40	20MHz	2	8x10bit	2x8,1x16	UART/SPI/I2C	2	PSP	(2V-5.5V)
PIC16F88	7	368	256	16	18	20MHz	2	7x10bit	2x8,1x16	UART/SPI/I2C	1		(2V-5.5V)
PIC16F882	3.5	128	128	25	28	20MHz	2	11x10bit	2x8,1x16	UART/SPI/I2C	2		(2V-5.5V)
PIC16F883	7	256	256	25	28	20MHz	2	11x10bit	2x8,1x16	UART/SPI/I2C	2		(2V-5.5V)
PIC16F884	7	256	256	36	40	20MHz	2	14x10bit	2x8,1x16	UART/SPI/I2C	2		(2V-5.5V)
PIC16F886	14	368	256	25	28	20MHz	2	11x10bit	2x8,1x16	UART/SPI/I2C	2		(2V-5.5V)
PIC16F887	14	368	256	36	40	20MHz	2	14x10bit	2x8,1x16	UART/SPI/I2C	2		(2V-5.5V)
PIC16F913	7	256	256	25	28	20MHz	2	5x10bit	2x8,1x16	UART/SPI/I2C	1	60-LCD	(2V-5.5V)
PIC16F914	7	256	256	36	40	20MHz	2	8x10bit	2x8,1x16	UART/SPI/I2C	2	96-LCD	(2V-5.5V)
PIC16F916	14	352	256	25	28	20MHz	2	5x10bit	2x8,1x16	UART/SPI/I2C	1	60-LCD	(2V-5.5V)
PIC16F917	14	352	256	36	40	20MHz	2	8x10bit	2x8,1x16	UART/SPI/I2C	2	96-LCD	(2V-5.5V)
PIC16F946	14	336	256	53	64	20MHz	2	8x10bit	2x8,1x16	UART/SPI/I2C	2	168-LCD	(2V-5.5V)
PIC16HV610	1.75	72	--	12	14	20MHz	2		2x8,1x16				(2V-15V)
PIC16HV616	3.5	128	--	12	14	20MHz	2	8x10bit	2x8,1x16		1		(2V-15V)
PIC16HV785	3	128	256	18	20	20MHz	2	12x10bit	2x8,1x16		1		(2V-15V)
Pic18F High Performance 8 Bit Flash Microcontrollers - 10Mips													
PIC18F1220	4	256	256	16	18	40MHz		7x10bit	1x8,3x16	UART	1		(2V-5.5V)
PIC18F1230	4	256	128	16	18	40MHz	3	4x10bit	2x16-bit	UART		6-MtrCtrl. PWM	(2V-5.5V)
PIC18F1320	8	256	256	16	18	40MHz		7x10bit	1x8,3x16	UART	1		(2V-5.5V)
PIC18F1330	8	256	128	16	18	40MHz	3	4x10bit	2x16-bit	UART		6-MtrCtrl. PWM	(2V-5.5V)

RL Re-reeling available

Device	Flash Prog Memory (KBytes)	RAM (Bytes)	EEPROM (Bytes)	I/O Pins	Device Package	Max CPU Speed	Comparators	ADC	Timers	Connectivity	Std PWM	Other Features	Op Voltage
Pic18F High Performance 8 Bit Flash Microcontrollers - 10Mips													
PIC18F2220	4	512	256	25	28	40MHz	2	10x10bit	1x8,3x16	UART/SPI/I2C	2		(2V-5.5V)
PIC18F2221	4	512	256	25	28	40MHz	2	10x10bit	1x8,3x16	UART/SPI/I2C	2		(2V-5.5V)
PIC18F2320	8	512	256	25	28	40MHz	2	10x10bit	1x8,3x16	UART/SPI/I2C	2		(2V-5.5V)
PIC18F2321	8	512	256	25	28	40MHz	2	10x10bit	1x8,3x16	UART/SPI/I2C	2		(2V-5.5V)
PIC18F2331	8	768	256	24	28	40MHz		5x10bit	1x8,3x16	UART/SPI/I2C	2	6-MtrCtrl. PWM, 2xQEI	(2V-5.5V)
PIC18F2410	16	768	--	25	28	40MHz	2	10x10bit	1x8,3x16	UART/SPI/I2C	1		(2V-5.5V)
PIC18F2420	16	768	256	25	28	40MHz	2	10x10bit	1x8,3x16	UART/SPI/I2C	2		(2V-5.5V)
PIC18F2423	16	768	256	25	28	40MHz	2	10x12bit	1x8,3x16	UART/SPI/I2C	2		(2V-5.5V)
PIC18F2431	16	768	256	24	28	40MHz		5x10bit	1x8,3x16	UART/SPI/I2C	2	6-MtrCtrl. PWM, 2xQEI	(2V-5.5V)
PIC18F2450	16	768	--	23	28	48MHz		10x10bit	1x8,2x16	UART / USB	1		(2V-5.5V)
PIC18F2455	24	2048	256	24	28	48MHz	2	11x10bit	1x8,3x16	UART/SPI/I2C/USB	2		(2V-5.5V)
PIC18F2480	16	768	256	25	28	40MHz		8x10bit	1x8,3x16	UART/SPI/I2C/ECAM	1		(2V-5.5V)
PIC18F24J10	16	1024	--	21	28	40MHz	2	10x10bit	1x8,2x16	UART/SPI/I2C	2		(2V-3.6V)
PIC18F24K20	16	768	256	25	28	64MHz	2	10x10bit	1x8,3x16	UART/SPI/I2C	2		(1.8V-3.6V)
PIC18F2520	32	1536	256	25	28	40MHz	2	10x10bit	1x8,3x16	UART/SPI/I2C	2		(2V-5.5V)
PIC18F2523	32	1536	256	25	28	40MHz	2	10x10bit	1x8,3x16	UART/SPI/I2C	2		(2V-5.5V)
PIC18F2525	48	3968	1024	25	28	40MHz	2	10x10bit	1x8,3x16	UART/SPI/I2C	2		(2V-5.5V)
PIC18F2550	32	2048	256	24	28	48MHz	2	11x10bit	1x8,3x16	UART/SPI/I2C/USB	2		(2V-5.5V)
PIC18F2580	32	1536	256	25	28	40MHz		8x10bit	1x8,3x16	UART/SPI/I2C/CAN	1		(2V-5.5V)
PIC18F2585	48	3328	1024	25	28	40MHz		8x10bit	1x8,3x16	UART/SPI/I2C	1		(2V-5.5V)
PIC18F25J10	32	1024	--	21	28	40MHz	2	10x10bit	1x8,2x16	UART/SPI/I2C	2		(2V-3.6V)
PIC18F25K20	32	1536	256	25	28	64MHz	2	11x10bit	1x8,3x16	UART/SPI/I2C	2		(1.8V-3.6V)
PIC18F2610	64	3968	--	25	28	40MHz	2	10x10bit	1x8,3x16	UART/SPI/I2C	2		(2V-5.5V)
PIC18F2620	64	3968	1024	25	28	40MHz	2	10x10bit	1x8,3x16	UART/SPI/I2C	2		(2V-5.5V)
PIC18F2680	64	3328	1024	25	28	40MHz		8x10bit	1x8,3x16	UART/SPI/I2C/ECAN	1		(2V-5.5V)
PIC18F2685	96	3328	1024	25	28	40MHz		8x10bit	1x8,3x16	UART/SPI/I2C/ECAN	1		(2V-5.5V)
PIC18F26K20	64	3968	1024	25	28	64MHz	2	11x10bit	1x8,3x16	UART/SPI/I2C	2		(1.8V-3.6V)
PIC18F4220	4	512	256	36	40	40MHz	2	13x10bit	1x8,3x16	UART/SPI/I2C	2	PSP	(2V-5.5V)
PIC18F4221	4	512	256	36	40	40MHz	2	13x10bit	1x8,3x16	UART/SPI/I2C	2	PSP	(2V-5.5V)
PIC18F4320	8	512	256	36	40	40MHz	2	13x10bit	1x8,3x16	UART/SPI/I2C	2	PSP	(2V-5.5V)
PIC18F4321	8	512	256	36	40	40MHz	2	13x10bit	1x8,3x16	UART/SPI/I2C	2	PSP	(2V-5.5V)
PIC18F4331	8	768	256	36	40	40MHz		9x10bit	1x8,3x16	UART/SPI/I2C	2	8-MtrCtrl. PWM, 2xQEI	(2V-5.5V)
PIC18F43K20	8	768	256	36	40	64MHz	2	13x10bit	1x8,3x16	UART/SPI/I2C	2	PSP	(1.8V-3.6V)
PIC18F4410	16	768	--	36	40	40MHz	2	13x12bit	1x8,3x16	UART/SPI/I2C	2	PSP	(2V-5.5V)
PIC18F4420	16	768	256	36	40	40MHz	2	13x12bit	1x8,3x16	UART/SPI/I2C	2	PSP	(2V-5.5V)
PIC18F4423	16	768	256	36	40	40MHz	2	13x12bit	1x8,3x16	UART/SPI/I2C	2	PSP	(2V-5.5V)
PIC18F4431	16	768	256	36	40	40MHz		9x10bit	1x8,3x16	UART/SPI/I2C	2	8-MtrCtrl. PWM, 2xQEI	(2V-5.5V)
PIC18F4450	16	768	--	34	40	48MHz		13x10bit	1x8,2x16	UART/USB	1		(2V-5.5V)
PIC18F4455	24	2048	256	35	40	48MHz	2	13x10bit	1x8,3x16	UART/SPI/I2C/USB	2		(2V-5.5V)
PIC18F4480	16	768	256	36	40	40MHz	2	11x10bit	1x8,3x16	UART/SPI/I2C/ECAN	2		(2V-5.5V)
PIC18F44J10	16	1024	--	32	40	40MHz	2	13x10bit	1x8,2x16	UART/2xI2C/2xSPI	2	PSP	(2V-3.6V)
PIC18F44K20	16	768	256	36	40	64MHz	2	13x10bit	1x8,3x16	UART/SPI/I2C	2	PSP	(1.8V-3.6V)
PIC18F4520	32	1536	256	36	40	40MHz	2	13x10bit	1x8,3x16	UART/SPI/I2C	2	PSP	(2V-5.5V)
PIC18F4523	32	1536	256	36	40	40MHz	2	13x12bit	1x8,3x16	UART/SPI/I2C	2	PSP	(2V-5.5V)
PIC18F4525	48	3968	1024	36	40	40MHz	2	13x10bit	1x8,3x16	UART/SPI/I2C	2	PSP	(2V-5.5V)
PIC18F4550	32	2048	256	35	40	48MHz	2	13x10bit	1x8,3x16	UART/SPI/I2C/USB	2		(2V-5.5V)
PIC18F4580	32	1536	256	36	40	40MHz	2	11x10bit	1x8,3x16	UART/SPI/I2C/ECAN	2		(2V-5.5V)
PIC18F4585	48	3328	1024	36	40	40MHz	2	11x10bit	1x8,3x16	UART/SPI/I2C/ECAN	2		(2V-5.5V)
PIC18F45J10	32	1024	--	32	40	40MHz	2	13x10bit	1x8,2x16	UART/2xI2C/2xSPI	2	PSP	(2V-3.6V)
PIC18F45K20	32	1536	256	36	40	64MHz	2	14x10bit	1x8,3x16	UART/SPI/I2C	2	PSP	(1.8V-3.6V)
PIC18F4610	64	3968	--	36	40	40MHz	2	13x10bit	1x8,3x16	UART/SPI/I2C	2	PSP	(2V-5.5V)
PIC18F4620	64	3968	1024	36	40	40MHz	2	13x10bit	1x8,3x16	UART/SPI/I2C	2	PSP	(2V-5.5V)
PIC18F4680	64	3328	1024	36	40	40MHz	2	11x10bit	1x8,3x16	UART/SPI/I2C/ECAN	2		(2V-5.5V)
PIC18F4685	96	3328	1024	36	40	40MHz	2	11x10bit	1x8,3x16	UART/SPI/I2C/ECAN	2		(2V-5.5V)
PIC18F46K20	64	3968	1024	36	40	64MHz	2	14x10bit	1x8,3x16	UART/SPI/I2C	2	PSP	(1.8V-3.6V)
PIC18F6310	8	768	--	54	64	40MHz	2	12x10bit	1x8,3x16	UART/SPI/I2C	3		(2V-5.5V)
PIC18F6390	8	768	--	50	64	40MHz	2	12x10bit	1x8,3x16	2xUART/SPI/I2C	2	128-LCD	(2V-5.5V)
PIC18F63J90	8	1024	--	50	64	40MHz	2	12x10bit	1x8,3x16	2xUART/SPI/I2C	2	132-LCD	(2V-3.6V)
PIC18F6410	16	768	--	54	64	40MHz	2	12x10bit	1x8,3x16	2xUART/SPI/I2C	3		(2V-5.5V)
PIC18F6490	16	768	--	50	64	40MHz	2	12x10bit	1x8,3x16	2xUART/SPI/I2C	2	128-LCD	(2V-5.5V)
PIC18F64J90	16	1024	--	50	64	40MHz	2	12x10bit	1x8,3x16	2xUART/SPI/I2C	2	132-LCD	(2V-3.6V)
PIC18F6520	32	2048	1024	52	64	40MHz	2	12x10bit	2x8,3x16	2xUART/SPI/I2C	5	PSP	(2V-5.5V)
PIC18F6527	48	3936	1024	54	64	40MHz	2	12x10bit	2x8,3x16	2xUART/2xSPI/2xI2C	5	PSP	(2V-5.5V)
PIC18F6585	48	3328	1024	53	64	40MHz	2	12x10bit	1x8,3x16	UART/SPI/I2C/ECAN	2		(2V-5.5V)
PIC18F65J10	32	2048	--	50	64	40MHz	2	11x10bit	2x8,3x16	2xUART/2xSPI/2xI2C	5	PSP	(2V-3.6V)
PIC18F65J11	32	2048	--	54	64	40MHz	2	12x10bit	1x8,3x16	2xUART/SPI/I2C	2		(2V-3.6V)
PIC18F65J50	32	3904	--	49	64	48MHz	2	8x10bit	2x8,3x16	2xUART/2xSPI/2xI2C/USB	5	PMP	(2V-3.6V)
PIC18F65J90	32	2048	--	50	64	40MHz	2	12x10bit	1x8,3x16	2xUART/SPI/I2C	2	132-LCD	(2V-3.6V)
PIC18F6627	96	3936	1024	54	64	40MHz	2	12x10bit	2x8,3x16	2xUART/2xSPI/2xI2C	2	PSP	(2V-5.5V)
PIC18F6680	64	3328	1024	53	64	40MHz	2	12x10bit	1x8,3x16	UART/SPI/I2C/ECAN	2		(2V-5.5V)
PIC18F66J10	64	2048	--	50	64	40MHz	2	12x10bit	2x8,3x16	2xUART/2xSPI/2xI2C	5	PSP	(2V-3.6V)
PIC18F66J11	64	3904	--	50	64	48MHz	2	11x10bit	2x8,3x16	2xUART/2xSPI/2xI2C	5	PMP	(2V-3.6V)
PIC18F66J50	64	3904	--	49	64	48MHz	2	8x10bit	2x8,3x16	2xUART/2xSPI/2xI2C/USB	5	PMP	(2V-3.6V)

Microcontrollers and Microprocessors - 8/16/32-Bit - MICROCHIP - continued

PIC® Microcontrollers - Numeric Selection Chart - continued

Device	Flash Prog Memory (KBytes)	RAM (Bytes)	EEPROM (Bytes)	I/O Pins	Device Package	Max CPU Speed	Comparators	ADC	Timers	Connectivity	Std PWM	Other Features	Op Voltage
Pic18F High Performance 8 Bit Flash Microcontrollers - 10Mips													
PIC18F66J55	96	3904	--	49	64	48MHz	2	8x10bit	2x8,3x16	2xUART/2xSPI/2xI2C/USB	5	PMP	(2V-3.6V)
PIC18F66J60	64	3808	--	39	64	42MHz	2	11x10bit	2x8,3x16	UART/SPI/I2C/ETHERNET	5		(2V-3.6V)
PIC18F6722	128	3936	1024	54	64	40MHz	2	12x10bit	2x8,3x16	2xUART/2xSPI/2xI2C	5	PSP	(2V-5.5V)
PIC18F67J10	128	3936	--	50	64	40MHz	2	11x10bit	2x8,3x16	2xUART/2xSPI/2xI2C	5	PSP	(2V-3.6V)
PIC18F67J11	128	3904	--	50	64	48MHz	2	11x10bit	2x8,3x16	2xUART/2xSPI/2xI2C	5	PMP	(2V-3.6V)
PIC18F67J50	128	3904	--	49	64	48MHz	2	8x10bit	2x8,3x16	2xUART/2xSPI/2xI2C/USB	5	PMP	(2V-3.6V)
PIC18F67J60	128	3808	--	39	64	42MHz	2	11x10bit	2x8,3x16	UART/SPI/I2C/ETHERNET	5		(2V-3.6V)
PIC18F8310	8	768	--	70	80	40MHz	2	12x10bit	1x8,3x16	2xUART/SPI/I2C	3		(2V-5.5V)
PIC18F83J11	8	1024	--	70	80	40MHz	2	12x10bit	1x8,3x16	2xUART/SPI/I2C	2	PSP	(2V-3.6V)
PIC18F8490	16	768	--	66	80	40MHz	2	12x10bit	1x8,3x16	2xUART/SPI/I2C	2	192-LCD	(2V-5.5V)
PIC18F84J11	16	1024	--	70	80	40MHz	2	12x10bit	1x8,3x16	2xUART/SPI/I2C	2	PSP	(2V-3.6V)
PIC18F84J90	16	1024	--	66	80	40MHz	2	12x10bit	1x8,3x16	2xUART/SPI/I2C	2	192-LCD	(2V-3.6V)
PIC18F8520	32	2048	1024	68	80	40MHz	2	16x10bit	2x8,3x16	2xUART/SPI/I2C	5	PSP	(2V-5.5V)
PIC18F8585	48	3328	1024	69	80	40MHz	2	16x10bit	1x8,3x16	UART/SPI/I2C/ECAN	2		(2V-5.5V)
PIC18F85J11	32	2048	--	70	80	40MHz	2	12x10bit	1x8,3x16	2xUART/SPI/I2C	2	PSP	(2V-3.6V)
PIC18F85J50	32	3904	--	65	80	48MHz	2	12x10bit	2x8,3x16	2xUART/2xSPI/2xI2C/USB	5	PMP	(2V-3.6V)
PIC18F85J90	32	2048	--	66	80	40MHz	2	12x10bit	1x8,3x16	2xUART/SPI/I2C	2	192-LCD	(2V-3.6V)
PIC18F8622	64	3936	1024	70	80	40MHz	2	16x10bit	2x8,3x16	2xUART/2xSPI/2xI2C	5	PSP	(2V-5.5V)
PIC18F8627	96	3936	1024	70	80	40MHz	2	16x10bit	2x8,3x16	2xUART/2xSPI/2xI2C	5	PSP	(2V-5.5V)
PIC18F8680	64	3328	1024	69	80	40MHz	2	16x10bit	1x8,3x16	UART/SPI/I2C/ECAN	2		(2V-5.5V)
PIC18F86J10	64	2048	--	66	80	40MHz	2	15x10bit	2x8,3x16	2xUART/2xSPI/2xI2C	5	PSP	(2V-3.6V)
PIC18F86J11	64	3904	--	66	80	48MHz	2	15x10bit	2x8,3x16	2xUART/2xSPI/2xI2C	5	PMP	(2V-3.6V)
PIC18F86J50	64	3904	--	65	80	48MHz	2	12x10bit	2x8,3x16	2xUART/2xSPI/2xI2C/USB	5	PMP	(2V-3.6V)
PIC18F86J60	64	3808	--	55	80	42MHz	2	12x10bit	2x8,3x16	2xUART/SPI/I2C/ETHERNET	5		(2V-3.6V)
PIC18F8722	128	3936	1024	70	80	40MHz	2	16x10bit	2x8,3x16	2xUART/2xSPI/2xI2C	5	PSP	(2V-5.5V)
PIC18F87J10	128	3936	--	66	80	40MHz	2	15x10bit	2x8,3x16	2xUART/2xSPI/2xI2C	5	PSP	(2V-3.6V)
PIC18F87J11	128	3904	--	66	80	48MHz	2	15x10bit	2x8,3x16	2xUART/2xSPI/2xI2C	5	PMP	(2V-3.6V)
PIC18F87J50	128	3904	--	65	80	48MHz	2	12x10bit	2x8,3x16	2xUART/2xSPI/2xI2C/USB	5	PMP	(2V-3.6V)
PIC18F87J60	128	3808	--	55	80	42MHz	2	15x10bit	2x8,3x16	2xUART/SPI/I2C/ETHERNET	5		(2V-3.6V)
PIC18F96J60	64	3808	--	70	100	42MHz	2	16x10bit	2x8,3x16	2xUART/2xSPI/2xI2C/ETHERNET	5	PSP	(2V-3.6V)
PIC18F97J60	128	3808	--	70	100	42MHz	2	16x10bit	2x8,3x16	2xUART/2xSPI/2xI2C/ETHERNET	5	PSP	(2V-3.6V)
Pic24F 16 Bit Flash Microcontrollers - 16 Mips - Vdd 2.0v - 3.6v													
PIC24FJ128GA006	128	8192	--	53	64	32MHz	2	16x10bit	5x16-bit	2xUART/2xSPI/2xI2C	5	PMP	(2V-3.6V)
PIC24FJ128GA008	128	8192	--	69	80	32MHz	2	16x10bit	5x16-bit	2xUART/2xSPI/2xI2C	5	PMP	(2V-3.6V)
PIC24FJ128GA010	128	8192	--	85	100	32MHz	2	16x10bit	5x16-bit	2xUART/2xSPI/2xI2C	5	PMP	(2V-3.6V)
PIC24FJ32GA002	32	8192	--	21	28	32MHz	2	10x10bit	5x16-bit	2xUART/2xSPI/2xI2C	5	PMP	(2V-3.6V)
PIC24FJ32GA004	32	8192	--	35	44	32MHz	2	13x10bit	5x16-bit	2xUART/2xSPI/2xI2C	5	PMP	(2V-3.6V)
PIC24FJ64GA002	64	8192	--	21	28	32MHz	2	10x10bit	5x16-bit	2xUART/2xSPI/2xI2C	5	PMP	(2V-3.6V)
PIC24FJ64GA004	64	8192	--	35	44	32MHz	2	13x10bit	5x16-bit	2xUART/2xSPI/2xI2C	5	PMP	(2V-3.6V)
PIC24FJ64GA006	64	8192	--	53	64	32MHz	2	16x10bit	5x16-bit	2xUART/2xSPI/2xI2C	5	PMP	(2V-3.6V)
PIC24FJ64GA008	64	8192	--	69	80	32MHz	2	16x10bit	5x16-bit	2xUART/2xSPI/2xI2C	5	PMP	(2V-3.6V)
PIC24FJ64GA010	64	8192	--	85	100	32MHz	2	16x10bit	5x16-bit	2xUART/2xSPI/2xI2C	5	PMP	(2V-3.6V)
PIC24FJ96GA006	96	8192	--	53	64	32MHz	2	16x10bit	5x16-bit	2xUART/2xSPI/2xI2C	5	PMP	(2V-3.6V)
PIC24FJ96GA008	96	8192	--	69	80	32MHz	2	16x10bit	5x16-bit	2xUART/2xSPI/2xI2C	5	PMP	(2V-3.6V)
PIC24FJ96GA010	96	8192	--	85	100	32MHz	2	16x10bit	5x16-bit	2xUART/2xSPI/2xI2C	5	PMP	(2V-3.6V)
Pic24HJ 16 Bit Flash Microcontrollers - 40 Mips - Vdd 3.0 - 3.6v													
PIC24HJ128GP202	128	8192	--	21	28	80MHz		10x10/12bit	5x16, 2x32	2xUART/2xPSI/I2C	4		(3V-3.6V)
PIC24HJ128GP204	128	8192	--	35	44	80MHz		13x10/12bit	5x16, 2x32	2xUART/2xPSI/I2C	4		(3V-3.6V)
PIC24HJ128GP206	128	8192	--	53	64	80MHz		18x10/12bit	9x16,4x32	2xUART/2xSPI/2xI2C	8		(3V-3.6V)
PIC24HJ128GP210	128	8192	--	85	100	80MHz		32x10/12bit	9x16,4x32	2xUART/2xSPI/2xI2C	8		(3V-3.6V)
PIC24HJ128GP306	128	16384	--	53	64	80MHz		18x10/12bit	9x16,4x32	2xUART/2xSPI/2xI2C	8		(3V-3.6V)
PIC24HJ128GP310	128	16384	--	85	100	80MHz		32x10/12bit	9x16,4x32	2xUART/2xSPI/2xI2C	8		(3V-3.6V)
PIC24HJ128GP506	128	8192	--	53	64	80MHz		18x10/12bit	9x16,4x32	2xUART/2xSPI/2xI2C/ECAN	8		(3V-3.6V)
PIC24HJ128GP510	128	8192	--	85	100	80MHz		32x10/12bit	9x16,4x32	2xUART/2xSPI/2xI2C/ECAN	8		(3V-3.6V)
PIC24HJ12GP201	12	1024	--	13	18	80MHz		6x10/12bit	3x16,1x32	UART/SPI/I2C	2		(3V-3.6V)
PIC24HJ12GP202	12	1024	--	21	28	80MHz		10x10/12bit	3x16,1x32	UART/SPI/I2C	2		(3V-3.6V)
PIC24HJ256GP206	256	16384	--	53	64	80MHz		18x10/12bit	9x16,4x32	2xUART/2xSPI/2xI2C	8		(3V-3.6V)
PIC24HJ256GP210	256	16384	--	85	100	80MHz		32x10/12bit	9x16,4x32	2xUART/2xSPI/2xI2C	8		(3V-3.6V)
PIC24HJ256GP610	256	16384	--	85	100	80MHz		2x32x10/ 12bit	9x16,4x32	2xUART/2xSPI/2xI2C/2xECAN	8		(3V-3.6V)
PIC24HJ64GP206	64	8192	--	53	64	80MHz		18x10/12bit	9x16,4x32	2xUART/2xSPI/2xI2C	8		(3V-3.6V)
PIC24HJ64GP210	64	8192	--	85	100	80MHz		32x10/12bit	9x16,4x32	2xUART/2xSPI/2xI2C	8		(3V-3.6V)
PIC24HJ64GP506	64	8192	--	53	64	80MHz		18x10/12bit	9x16,4x32	2xUART/2xSPI/2xI2C/ECAN	8		(3V-3.6V)
PIC24HJ64GP510	64	8192	--	85	100	80MHz		32x10/12bit	9x16,4x32	2xUART/2xSPI/2xI2C/ECAN	8		(3V-3.6V)
Pic32 - 32 Bit Flash Microcontrollers - upto 1.5 DMIPS / MHz - Vdd 2.5v - 3.6v													

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Device	Flash Prog Memory (KBytes)	RAM (Bytes)	EEPROM (Bytes)	I/O Pins	Device Package	Max CPU Speed	Comparators	ADC	Timers	Connectivity	Std PWM	Other Features	Op Voltage
Pic32 - 32 Bit Flash Microcontrollers - upto 1.5 DMIPS / MHz - Vdd 2.5v - 3.6v													
PIC32MX300F032H	32	8192		53	64	20MHz		16 x 10 bit	5x16	2xUART/2xSPI/2xI2C	5		(2.5V-3.6V)
PIC32MX320F064H	64	16384		53	64	72MHz		16 x 10 bit	5x16	2xUART/2xSPI/2xI2C	5		(2.5V-3.6V)
PIC32MX320F128H	128	32768		53	64	72MHz		16 x 10 bit	5x16	2xUART/2xSPI/2xI2C	5		(2.5V-3.6V)
PIC32MX340F256H	256	32768		53	64	72MHz		16 x 10 bit	5x16	2xUART/2xSPI/2xI2C	5	4CH-DMA	(2.5V-3.6V)
PIC32MX320F128L	128	16384		85	100	72MHz		16 x 10 bit	5x16	2xUART/2xSPI/2xI2C	5		(2.5V-3.6V)
PIC32MX360F256L	256	16384		85	100	72MHz		16 x 10 bit	5x16	2xUART/2xSPI/2xI2C	5	4CH-DMA / iTrace	(2.5V-3.6V)
PIC32MX360F512L	512	32768		85	100	72MHz		16 x 10 bit	5x16	2xUART/2xSPI/2xI2C	5	4CH-DMA / iTrace	(2.5V-3.6V)

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- LCD Drivers

Analog Peripherals:
- Up to 12-bit analog-to-digital (A/D) converters
- Comparators and op amps
- Brown-out detectors
- Low-voltage detectors
- Temperature sensors
- Oscillators
- Voltage references
- Digital-to-Analog (D/A) convertors
- Voltage regulators

Please consult out Development TOol Section for a full range of Microchip tools including the MPLAB® In Circuit Debugger, PM3® production programmer abd MPLAB® C Compilers.

For details on Microchip's range of OTP microcontrollers please refer to the mature PICmicro® products listing.

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Baseline Architecture - 8 Bit Flash Microcontrollers 6/8/14/18/20/28 Pins

The Baseline Architecture includes the PIC10F family and portions of the PIC12 and PIC16 families. These devices utilise a 12-bit program word architecture with 6 to 40-pin package options. The concisely defined feature set of the Baseline Architecture enables the most cost-effective product solutions. A range of low operating voltages makes this architecture ideal for battery-operated applications.

The PIC10F2xx series provides another industry first, an inexpensive 8-bit Flash microcontroller in a 6-pin package. With only six pins, they are easy to use and have a short leaning curve for anyone not experienced in designing with microcontrollers. In addition, they can be used for a number of design challenges not traditionally solved by a microcontroller.

The PIC12 family packs Microchip's RISC-based, PIC microcontroller 12-bit program word architecture into 8-pin packages.

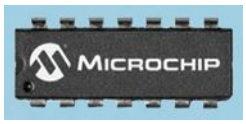
The PIC16F5X are well-established Baseline products, offered in 14, 18, 20, 28 and 40-pin packages.



While the Pic10F family is ideal for any space - constrained application, its combination of small form factor, high performance and extremely low cost is creating new applications not traditionally served by microcontrollers, e.g. Disposable Electronics, 555 Timer Replacement, Mechatronics etc.

	Pins	Package	P.Memory K bytes / K words	RAM (Bytes)	EEPROM (Bytes)	ADC	Comparator	Key Features	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
6 Pin													
10F200	6	SOT-23	0.375 / 0.25	16	0	8bit	—	Int Osc	PIC10F200T-I/OT	SMD 121-6921 RL	0.53	0.43	0.33
10F200	8	DIP	0.375 / 0.25	16	0	8bit	—	Int Osc	PIC10F200-I/P	121-2714	0.57	0.47	0.36
10F204	6	SOT-23	0.375 / 0.25	16	0	8bit	1	Int Osc	PIC10F204T-I/OT	SMD 129-2252 RL	0.57	0.47	0.36
10F204	8	PDIP	0.375 / 0.25	16	0	8bit	1	Int Osc	PIC10F204-I/P	NEW 155-6185	0.62	0.50	0.39
10F220	6	DFN	0.375 / 0.25	16	0	8bit	—	Int Osc	PIC10F220T-I/MC	SMD 133-2174	0.72	0.58	0.45
10F220	6	SOT-23	0.375 / 0.25	16	0	8bit	—	Int Osc	PIC10F220T-I/OT	SMD 133-2175	0.60	0.49	0.38
10F220	8	DIP	0.375 / 0.25	16	0	8bit	—	Int Osc	PIC10F220-I/P	989-2508	0.64	0.53	0.41
10F202	6	SOT-23	0.75 / 0.5	24	0	8bit	—	Int Osc	PIC10F202T-I/OT	SMD 994-2874 RL	0.57	0.47	0.36
10F202	6	DFN	0.75 / 0.5	24	0	8bit	—	Int Osc	PIC10F202T-I/MC	SMD 133-2171	0.69	0.56	0.43
10F202	8	DIP	0.75 / 0.5	24	0	8bit	—	Int Osc	PIC10F202-I/P	740-6034	0.62	0.50	0.39
10F206	6	SOT-23	0.75 / 0.5	24	0	8bit	1	Int Osc	PIC10F206T-I/OT	SMD 740-6083 RL	0.60	0.49	0.38
10F206	8	DIP	0.75 / 0.5	24	0	8bit	1	Int Osc	PIC10F206-I/P	740-6071	0.64	0.53	0.41
10F222	6	SOT-23	0.75 / 0.5	23	0	8bit	—	Int Osc	PIC10F222T-I/OT	SMD 133-2177	0.64	0.52	0.40
10F222	8	DIP	0.75 / 0.5	23	0	8bit	—	Int Osc	PIC10F222-E/P	NEW 146-7796	0.63	0.52	0.40





The 12F510/16F506 add 8-bit A/D converters and comparators to the 8/14 pin footprint. The 8 pin 12F510 is also now available in a 2x3mm DFN package.

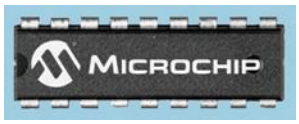
RL Re-reeling available

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Microcontrollers and Microprocessors - 8/16/32-Bit - MICROCHIP - continued

Baseline Architecture - 8 Bit Flash Microcontrollers 6/8/14/18/20/28 Pins - continued

	Pins	Package	P.Memory K bytes / K words	RAM (Bytes)	EEPROM (Bytes)	ADC	Comparator	Key Features	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
8 Pin													
12F508	8	DIP	0.75 / 0.5	25	0	—	—	Int Osc	PIC12F508-I/P	112-3006	0.59	0.48	0.37
12F508	8	SOIC	0.75 / 0.5	25	0	—	—	Int Osc	PIC12F508-I/SN	SMD 121-2715	0.64	0.53	0.41
12F510	8	DFN	1.5 / 1.0	38	0	—	—	Int Osc	PIC12F510-I/MC	SMD 133-2179	0.76	0.64	0.53
12F510	8	DIP	1.5 / 1.0	38	0	—	—	Int Osc	PIC12F510-I/P	133-2180	0.72	0.61	0.50
12F510	8	SOIC	1.5 / 1.0	38	0	—	—	Int Osc	PIC12F510-I/SN	SMD 133-2182	0.69	0.58	0.48
12F509	8	DIP	1.5 / 1.0	41	0	—	—	Int Osc	PIC12F509-I/P	771-1220	0.73	0.59	0.46
12F509	8	SOIC	1.5 / 1.0	41	0	—	—	Int Osc	PIC12F509-I/SN	SMD 121-2716	0.69	0.56	0.43
12F509	8	DFN	1.5 / 1.0	41	0	—	—	Int Osc	PIC12F509-I/MC	SMD 133-2178	0.76	0.62	0.48
12F509	8	MSOP	1.5 / 1.0	41	0	—	—	Int Osc	PIC12F509-I/MS	NEW SMD 161-8002	0.76	0.62	0.48
12F509	8	SOIC	1.5 / 1.0	41	0	—	—	Int Osc	PIC12F509-I/SM	NEW SMD 157-9576	0.69	0.56	0.43
12F519	8	DFN	1.5 / 1.0	41	64	—	—	Int Osc	PIC12F519-I/MC	NEW SMD 154-8427	0.84	0.69	0.53
12F519	8	MSOP	1.5 / 1.0	41	64	—	—	Int Osc	PIC12F519-I/MS	NEW SMD 154-8428	0.86	0.70	0.54
12F519	8	PDIP	1.5 / 1.0	41	64	—	—	Int Osc	PIC12F519-I/P	NEW 154-8437	0.86	0.70	0.54
12F519	8	SOIC	1.5 / 1.0	41	64	—	—	Int Osc	PIC12F519-I/SN	NEW SMD 154-8439	0.77	0.63	0.48
14 Pin													
16F506	14	DIP	1.5 / 1.0	67	0	8bit	2	Int Osc	PIC16F506-I/P	SMD 133-2195	0.83	0.71	0.59
16F506	14	SOIC	1.5 / 1.0	67	0	8bit	2	Int Osc	PIC16F506-I/SL	SMD 133-2196	0.73	0.62	0.52
16F506	14	TSSOP	1.5 / 1.0	67	0	8bit	2	Int Osc	PIC16F506-I/ST	NEW SMD 160-7933	0.86	0.73	0.61
16F526	14	PDIP	1.5 / 1.0	67	64	8bit	2	Int Osc	PIC16F526-I/P	NEW 157-9579	1.02	0.83	0.64
16F526	14	SOIC	1.5 / 1.0	67	64	8bit	2	Int Osc	PIC16F526-I/SL	NEW SMD 157-9580	0.87	0.71	0.55
16F505	14	DIP	1.5 / 1.0	72	0	—	—	Int Osc	PIC16F505-I/P	405-7627	0.87	0.71	0.55
16F505	14	SOIC	1.5 / 1.0	72	0	—	—	Int Osc	PIC16F505-I/SL	SMD 121-2690	0.77	0.63	0.48
16F505	14	TSSOP	1.5 / 1.0	72	0	—	—	Int Osc	PIC16F505-I/ST	NEW SMD 155-6187	0.92	0.74	0.57



The 16F5X family are Flash versions of the original OTP Pic Microcontrollers; note that these parts have In-Circuit Serial Programming Capability.

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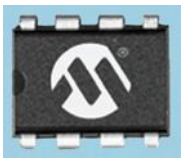
	Pins	Package	P.Memory K bytes / K words	RAM (Bytes)	EEPROM (Bytes)	ADC	Comparator	Key Features	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
18 / 20 Pin													
16F54	18	DIP	0.75 / 0.5	25	0	—	—	—	PIC16F54-I/PG	SMD 994-2858	0.49	0.40	0.32
16F54	18	SOIC	0.75 / 0.5	25	0	—	—	—	PIC16F54-I/SO	SMD 113-7332	0.50	0.42	0.33
16F54	18	DIP	0.75 / 0.5	25	0	—	—	—	PIC16F54-I/P	121-2691	0.57	0.47	0.37
16F54	20	SSOP	0.75 / 0.5	25	0	—	—	—	PIC16F54-I/SS	SMD 108-4319	0.50	0.42	0.33
28 Pin													
16F57	28	DIP	3.0 / 2.0	72	0	—	—	—	PIC16F57-I/P	976-0270	0.76	0.63	0.49
16F57	28	SDIL	3.0 / 2.0	72	0	—	—	—	PIC16F57-I/SP	101-6061	0.89	0.73	0.58
16F57	28	SOIC	3.0 / 2.0	72	0	—	—	—	PIC16F57-I/SO	NEW SMD 155-6188	0.70	0.58	0.47
16F57	28	SSOP	3.0 / 2.0	72	0	—	—	—	PIC16F57-I/SS	NEW SMD 157-9581	0.67	0.56	0.44
40 Pin													
16F59	40	DIP	3.0 / 2.0	134	0	—	—	—	PIC16F59-I/P	994-2866	1.12	0.91	0.70
16F59	40	TQFP	3.0 / 2.0	134	0	—	—	—	PIC16F59-I/PT	NEW SMD 160-7934	1.13	0.92	0.71

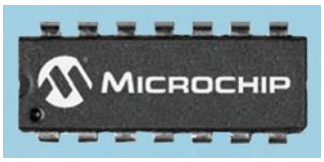
Mid-Range Architecture - 8 Bit Flash Microcontrollers 8/14/18/20/28/40/44/64 Pins

The Mid-Range Architecture includes members of the PIC12 and PIC16 families that feature a 14-bit program word architecture. These families are available with 8 to 64-pin package options.

The PIC microcontrollers featuring Microchip's Mid-Range 14-bit program word architecture include interrupt handling, a deeper hardware stack, multiple A/D channels and EEPROM data memory.

They also feature various serial analog and digital peripherals, such as USB, SPI, I2C, USART, LCD and A/D converters.





New additions to the 8/14 Pin Midrange include the HV devices which incorporate an integrated shunt regulator allowing the ability to run from as low as 2.0V and up to an unspecified user - defined maximum voltage.

	Pins	Package	P.Memory K bytes / K words	RAM (Bytes)	EEPROM (Bytes)	ADC	Comparator	Key Features	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
8 Pin													
12F609	8	DIP	1.75 / 1.0	64	0	—	1	Int Osc	PIC12F609-I/P	133-2183	0.92	0.74	0.57
12F609	8	SOIC	1.75 / 1.0	64	0	—	1	Int Osc	PIC12F609-I/SN	SMD 133-2184	0.83	0.67	0.52
12F609	8	DFN	1.75 / 1.0	64	0	—	1	Int Osc	PIC12F609-I/MF	NEW SMD 166-4858	0.87	0.71	0.55
12HV609	8	SOIC	1.75 / 1.0	64	0	—	1	Int Osc / Shunt Reg	PIC12HV609-I/SN	SMD 133-2191	0.87	0.71	0.55
12F615	8	DIP	1.75 / 1.0	64	0	10bit	1	Int Osc	PIC12F615-I/P	133-2185	0.86	0.73	0.59
12F615	8	SOIC	1.75 / 1.0	64	0	10bit	1	Int Osc	PIC12F615-I/SN	SMD 133-2186	0.82	0.69	0.57
12F615	8	DFN	1.75 / 1.0	64	0	10bit	1	Int Osc	PIC12F615-I/MF	NEW SMD 166-4859	0.83	0.67	0.52
12HV615	8	DIP	1.75 / 1.0	64	0	10bit	1	Int Osc / Shunt Reg	PIC12HV615-I/P	133-2192	0.90	0.77	0.63
12HV615	8	SOIC	1.75 / 1.0	64	0	10bit	1	Int Osc / Shunt Reg	PIC12HV615-I/SN	SMD 133-2194	0.86	0.73	0.61
12F629	8	DIP	1.75 / 1.0	64	128	10bit	1	Int Osc	PIC12F629-I/P	975-8992	0.85	0.70	0.54
12F629	8	SOIC	1.75 / 1.0	64	128	10bit	1	Int Osc	PIC12F629-I/SN	SMD 975-9000	0.78	0.63	0.49
12F629	8	PDIP	1.75 / 1.0	64	128	10bit	1	Int Osc	PIC12F629-E/P	129-2253	1.10	0.89	0.69
12F629	8	QFN	1.75 / 1.0	64	128	10bit	1	Int Osc	PIC12F629-I/MD	SMD 133-2187	1.17	1.05	0.92
12F629	8	DFN	1.75 / 1.0	64	128	10bit	1	Int Osc	PIC12F629-I/MF	NEW SMD 161-8004	1.04	0.85	0.66
12F635	8	DFN	1.75 / 1.0	64	128	—	1	Int Osc / Nanowatt / Keeloq	PIC12F635-I/MF	SMD 113-7330	1.23	1.00	0.77
12F635	8	DIP	1.75 / 1.0	64	128	—	1	Int Osc / Nanowatt / Keeloq	PIC12F635-I/P	121-2687	1.19	0.97	0.74
12F635	8	SOIC	1.75 / 1.0	64	128	—	1	Int Osc / Nanowatt / Keeloq	PIC12F635-I/SN	SMD 121-2689	1.10	0.89	0.69
12F675	6	DIP	1.75 / 1.0	64	128	10bit	1	Int Osc	PIC12F675-I/P	975-9018	0.94	0.76	0.59
12F675	8	SOIC	1.75 / 1.0	64	128	10bit	1	Int Osc	PIC12F675-I/SN	SMD 975-9026	0.85	0.70	0.54
12F675	8	PDIP	1.75 / 1.0	64	128	10bit	1	Int Osc	PIC12F675-E/P	129-2254	1.20	0.98	0.75
12F675	8	QFN	1.75 / 1.0	64	128	10bit	1	Int Osc	PIC12F675-I/MD	SMD 133-2188	1.45	1.29	1.13
12F675	8	SOIC	1.75 / 1.0	64	128	10bit	1	Int Osc	PIC12F675-E/SN.	NEW SMD 165-2402	0.94	0.77	0.59
12F683	8	DIP	3.5 / 2.0	128	256	10bit	1	Int Osc / Nanowatt	PIC12F683-I/P	975-9034	1.09	0.88	0.68
12F683	8	SOIC	3.5 / 2.0	128	256	10bit	1	Int Osc / Nanowatt	PIC12F683-I/SN	SMD 975-9042	1.01	0.82	0.63
12F683	8	DFN-S	3.5 / 2.0	128	256	10bit	1	Int Osc / Nanowatt	PIC12F683-I/MF	SMD 113-7331	1.13	0.92	0.71

	Pins	Package	P.Memory K bytes / K words	RAM (Bytes)	EEPROM (Bytes)	ADC	Comparator	Key Features	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
8 Pin													
12F683	8	QFN	3.5 / 2.0	128	256	10bit	1	Int Osc / Nanowatt	PIC12F683-I/MD	SMD 133-2189●	1.62	1.44	1.27
12F683	8	PDIP	3.5 / 2.0	128	256	10bit	1	Int Osc / Nanowatt	PIC12F683-E/P	NEW 157-9577●	1.40	1.14	0.87
12F683	8	SOIC	3.5 / 2.0	128	256	10bit	1	Int Osc / Nanowatt	PIC12F683-E/SN	NEW SMD 157-9578●	1.30	1.06	0.82
14 Pin													
16F610	14	SOIC	1.75 / 1.0	64	0	10bit	1	Int Osc	PIC16F610-I/SL	SMD 133-2198●	0.93	0.76	0.59
16F616	14	DIP	3.5 / 2.0	64	0	10bit	1	Int Osc	PIC16F616-I/P	SMD 133-2199●	1.02	0.87	0.72
16F616	14	SOIC	3.5 / 2.0	128	0	10bit	1	Int Osc	PIC16F616-I/SL	SMD 133-2201●	0.92	0.78	0.65
16F630	14	DIP	1.75 / 1.0	64	128	10bit	1	Int Osc	PIC16F630-I/P	976-0458●	1.05	0.88	0.71
16F630	14	SOIC	1.75 / 1.0	64	128	10bit	1	Int Osc	PIC16F630-I/SL	SMD 976-0466●	1.19	0.97	0.74
16F630	14	TSSOP	1.75 / 1.0	64	128	10bit	1	Int Osc	PIC16F630-I/ST	SMD 976-0474●	1.37	1.12	0.86
16F636	14	SOIC	3.5 / 2.0	128	256	—	2	Int Osc	PIC16F636-I/SL	SMD 121-2713●	1.20	0.98	0.76
16F636	14	PDIP	3.5 / 2.0	128	256	—	2	Int Osc	PIC16F636-I/P	NEW 155-6175●	1.33	1.09	0.84
16F676	14	TSSOP	1.75 / 1.0	64	128	10bit	1	Int Osc	PIC16F676-I/ST	SMD 976-0539●	1.46	1.19	0.92
16F676	14	DIP	1.75 / 1.0	64	128	10bit	1	Int Osc	PIC16F676-I/P	976-0512●	1.21	0.98	0.76
16F676	14	SOIC	1.75 / 1.0	64	128	10bit	1	Int Osc	PIC16F676-I/SL	SMD 976-0520●	1.09	0.88	0.68
16F684	14	TSSOP	3.5 / 2.0	128	256	10bit	2	Int Osc	PIC16F684-I/ST	SMD 108-4321●	1.46	1.19	0.92
16F684	14	DIP	3.5 / 2.0	128	256	10bit	2	Int Osc	PIC16F684-I/P	976-0547●	1.20	0.98	0.76
16F684	14	SOIC	3.5 / 2.0	128	256	10bit	2	Int Osc	PIC16F684-I/SL	SMD 976-0555●	1.09	0.89	0.69
16F684	16	QFN	3.5 / 2.0	128	256	10bit	2	Int Osc	PIC16F684-I/ML	SMD 133-2209●	1.40	1.15	0.89
16F688	14	SOIC	7.0 / 4.0	256	256	10bit	2	USART / Int Osc / Nanowatt	PIC16F688-I/SL	SMD 976-0571●	1.15	0.94	0.73
16F688	14	TSSOP	7.0 / 4.0	256	256	10bit	2	USART / Int Osc / Nanowatt	PIC16F688-I/ST	SMD 976-0580●	1.31	1.07	0.83
16F688	14	SOIC	7.0 / 4.0	256	256	10bit	2	USART / Int Osc / Nanowatt	PIC16F688-E/SL	SMD 157-9586●	1.49	1.22	0.95
16F688	16	QFN	7.0 / 4.0	256	256	10bit	2	USART / Int Osc / Nanowatt	PIC16F688-I/ML	SMD 157-9588●	1.49	1.22	0.94
16F688	14	DIP	7.0 / 4.0	256	256	10bit	2	USART / Int Osc / Nanowatt	PIC16F688-I/P...	976-0563●	1.27	1.04	0.81
18 Pin													
16F84A	18	DIP	1.75 / 1.0	68	64	—	—	—	PIC16F84A-04/P	976-0865●	2.99	2.54	2.09
16F84A	18	SOIC	1.75 / 1.0	68	64	—	—	—	PIC16F84A-04/SO	SMD 976-0873●	3.05	2.59	2.12
16F84A	18	DIP	1.75 / 1.0	68	64	—	—	—	PIC16F84A-04I/P	976-0881●	3.29	2.79	2.29
16F84A	18	SOIC	1.75 / 1.0	68	64	—	—	—	PIC16F84A-04I/SO	SMD 976-0890●	3.35	2.84	2.33
16F84A	18	DIP	1.75 / 1.0	68	64	—	—	—	PIC16F84A-20/P	976-0911●	3.20	2.71	2.23
16F84A	18	SOIC	1.75 / 1.0	68	64	—	—	—	PIC16F84A-20/SO	SMD 976-0920●	3.81	3.23	2.65
16F84A	18	DIP	1.75 / 1.0	64	64	—	—	—	PIC16F84A-20I/P	976-0938●	3.51	2.98	2.45
16F84A	18	SOIC	1.75 / 1.0	64	64	—	—	—	PIC16F84A-20I/SO	SMD 108-4267●	4.18	3.54	2.91
16F84A	20	SSOP	1.75 / 1.0	64	64	—	—	—	PIC16F84A-20I/SS	SMD 108-4268●	3.77	3.20	2.62
16LF84A	18	DIP	1.75 / 1.0	68	64	—	—	—	PIC16LF84A-04I/P	976-1683●	4.03	3.42	2.80
16LF84A	18	SOIC	1.75 / 1.0	68	64	—	—	—	PIC16LF84A-04I/SO	SMD 108-4295●	4.11	3.48	2.86
16LF84A	18	DIP	1.75 / 1.0	68	64	—	—	—	PIC16LF84A-04/P	NEW 146-7804●	3.15	2.67	2.19
16F84A	20	SSOP	1.75 / 1.0	68	64	—	—	—	PIC16F84A-04I/SS	SMD 976-0903●	4.16	3.53	2.90
16LF84A	20	SSOP	1.75 / 1.0	68	64	—	—	—	PIC16LF84A-04/SS	SMD 120-0020●	3.99	3.39	2.78
16LF84A	28	SSOP	1.75 / 1.0	68	64	—	—	—	PIC16LF84A-04I/SS	SMD 976-1691●	4.33	3.68	3.03
16F627A	28	QFN	1.75 / 1.0	224	128	—	2	USART / Int Osc / Nanowatt	PIC16F627A-I/ML	SMD 976-0326●	2.02	1.62	1.22
16F627A	18	DIP	1.75 / 1.0	224	128	—	2	USART / Int Osc / Nanowatt	PIC16F627A-I/P	976-0334●	1.44	1.15	0.87
16F627A	18	SOIC	1.75 / 1.0	224	128	—	2	USART / Int Osc / Nanowatt	PIC16F627A-I/SO	SMD 976-0342●	1.46	1.17	0.88
16LF627A	18	SOIC	1.75 / 1.0	224	128	—	2	USART / Int Osc / Nanowatt	PIC16LF627A-I/SO	NEW SMD 157-9593●	1.82	1.46	1.09
16F627A	20	SSOP	1.75 / 1.0	224	128	—	2	USART / Int Osc / Nanowatt	PIC16F627A-I/SS	SMD 976-0350●	1.57	1.27	0.96
16F818	18	DIP	1.75 / 1.0	128	128	10bit	—	Int Osc / Nanowatt	PIC16F818-I/P	976-0750●	1.73	1.39	1.04
16F818	18	SOIC	1.75 / 1.0	128	128	10bit	—	Int Osc / Nanowatt	PIC16F818-I/SO	SMD 976-0768●	1.76	1.41	1.06
16F818	20	SSOP	1.75 / 1.0	128	128	10bit	—	Int Osc / Nanowatt	PIC16F818-I/SS	SMD 108-4335●	2.23	1.79	1.35
16LF818	18	SOIC	1.75 / 1.0	128	128	10bit	—	Int Osc / Nanowatt	PIC16LF818-I/SO	SMD 129-2273●	2.17	1.74	1.31
16F716	18	DIP	3.5 / 2.0	128	0	8bit	—	—	PIC16F716-I/P	976-0598●	0.94	0.76	0.59
16F716	18	SOIC	3.5 / 2.0	128	0	8bit	—	—	PIC16F716-I/SO	SMD 976-0601●	1.00	0.82	0.63
16F716	20	SSOP	3.5 / 2.0	128	0	8bit	—	—	PIC16F716-I/SS	SMD 976-0610●	1.60	1.36	1.12
16F628A	18	DIP	3.5 / 2.0	224	128	—	2	USART / Int Osc / Nanowatt	PIC16F628A-I/P	976-0423●	1.63	1.31	0.98
16F628A	18	SOIC	3.5 / 2.0	224	128	—	2	USART / Int Osc / Nanowatt	PIC16F628A-I/SO	SMD 976-0431●	1.66	1.33	1.01
16LF628A	18	SOIC	3.5 / 2.0	224	128	—	2	USART / Int Osc / Nanowatt	PIC16LF628A-I/SO	NEW SMD 155-6189●	2.05	1.64	1.24
16F628A	20	SSOP	3.5 / 2.0	224	128	—	2	USART / Int Osc / Nanowatt	PIC16F628A-I/SS	SMD 976-0440●	2.12	1.70	1.27
16LF628A	20	SSOP	3.5 / 2.0	224	128	—	2	USART / Int Osc / Nanowatt	PIC16LF628A-I/SS	SMD 129-2272●	2.20	1.77	1.33
16F628A	28	QFN	3.5 / 2.0	224	128	—	2	USART / Int Osc / Nanowatt	PIC16F628A-I/ML	SMD 108-4334●	2.22	1.82	1.43
16F819	18	DIP	3.5 / 2.0	256	256	10bit	—	Int Osc / Nanowatt	PIC16F819-I/P	976-0784●	1.96	1.58	1.19
16F819	18	SOIC	3.5 / 2.0	256	256	10bit	—	Int Osc / Nanowatt	PIC16F819-I/SO	SMD 976-0792●	2.01	1.61	1.21
16F819	20	SSOP	3.5 / 2.0	256	256	10bit	—	Int Osc / Nanowatt	PIC16F819-I/SS	SMD 976-0806●	2.52	2.02	1.53
16F819	28	QFN	3.5 / 2.0	256	256	10bit	—	Int Osc / Nanowatt	PIC16F819-I/ML	SMD 976-0776●	2.34	1.88	1.41
16LF819	18	SOIC	3.5 / 2.0	256	256	10bit	—	Int Osc / Nanowatt	PIC16LF819-I/SO	SMD 143-9749●	2.48	1.98	1.49
16F648A	18	DIP	7.0 / 4.0	256	256	—	2	USART / Int Osc / Nanowatt	PIC16F648A-I/P	976-0490●	2.17	1.74	1.31
16F648A	18	SOIC	7.0 / 4.0	256	256	—	2	USART / Int Osc / Nanowatt	PIC16F648A-I/SO	SMD 976-0504●	1.89	1.52	1.14
16F648A	20	SSOP	7.0 / 4.0	256	256	—	2	USART / Int Osc / Nanowatt	PIC16F648A-I/SS	SMD 113-7333●	2.04	1.63	1.23
16F648A	28	QFN	7.0 / 4.0	256	256	—	2	USART / Int Osc / Nanowatt	PIC16F648A-I/ML	SMD 976-0482●	2.12	1.70	1.28
16F87	18	DIP	7.0 / 4.0	368	256	—	2	USART / Int Osc / Nanowatt	PIC16F87-I/P	976-1462●	2.27	1.82	1.38
16F87	18	SOIC	7.0 / 4.0	368	256	—	2	USART / Int Osc / Nanowatt	PIC16F87-I/SO	SMD 976-1470●	2.34	1.88	1.41
16F87	20	SSOP	7.0 / 4.0	368	256	—	2	USART / Int Osc / Nanowatt	PIC16F87-I/SS	SMD 976-1489●	2.93	2.35	1.77
16F87	28	QFN	7.0 / 4.0	368	256	—	2	USART / Int Osc / Nanowatt	PIC16F87-I/ML	SMD 120-0023●	3.00	2.41	1.81
16F88	28	QFN	7.0 / 4.0	368	256	10bit	2	USART / Int Osc / Nanowatt	PIC16F88-I/ML	SMD 976-1497●	3.19	2.70	2.22
16F88	18	DIP	7.0 / 4.0	368	256	10bit	2	USART / Int Osc / Nanowatt	PIC16F88-I/P	976-1500●	2.44	1.95	1.47
16F88	18	SOIC	7.0 / 4.0	368	256	10bit	2	USART / Int Osc / Nanowatt	PIC16F88-I/SO	SMD 976-1519●	2.49	2.00	1.51
16F88	20	SSOP	7.0 / 4.0	368	256	10bit	2	USART / Int Osc / Nanowatt	PIC16F88-I/SS	SMD 108-4336●	3.13	2.51	1.90
16LF88	18	DIP	7.0 / 4.0	368	256	10bit	2	USART / Int Osc / Nanowatt	PIC16LF88-I/P	SMD 133-2228●	3.00	2.41	1.81
16LF88	18	SOIC	7.0 / 4.0	368	256	10bit	2	USART / Int Osc / Nanowatt	PIC16LF88-I/SO	SMD 133-2229●	3.05	2.45	1.85
16LF88	20	SSOP	7.0 / 4.0	368	256	10bit	2	USART / Int Osc / Nanowatt	PIC16LF88-I/SS	NEW SMD 155-6177●	3.29	2.64	1.99



Microchip's 20 pin devices bridge the gap between the 18 and 28 pin variants by offering up to 18 lines of I/O if the onboard oscillator is used. The 16F785 and 16HV785 are notable 20 pin parts due to the inclusion of A/D converters, 2 high speed comparators and 2 Op Amps.

	Pins	Package	P.Memory K bytes / K words	RAM (Bytes)	EEPROM (Bytes)	ADC	Comparator	Key Features	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
20 Pin													
16F631	20	DIP	1.75 / 1.0	64	128	—	2	Int Osc / Nanowatt	PIC16F631-I/P	SMD 133-2202●	1.14	1.03	0.92
16F631	20	SOIC	1.75 / 1.0	64	128	—	2	Int Osc / Nanowatt	PIC16F631-I/SO	SMD 133-2203●	1.24	1.07	0.89
16F631	20	SSOP	1.75 / 1.0	64	128	—	2	Int Osc / Nanowatt	PIC16F631-I/SS	SMD 133-2204●	1.14	0.94	0.74
16F677	20	QFN	3.5 / 2.0	128	256	10bit	2	Int Osc / Nanowatt	PIC16F677-I/ML	SMD 133-2205●	1.26	1.11	0.96
16F677	20	DIP	3.5 / 2.0	128	256	10bit	2	Int Osc / Nanowatt	PIC16F677-I/P	SMD 133-2206●	1.14	1.07	0.99
16F677	20	SOIC	3.5 / 2.0	128	256	10bit	2	Int Osc / Nanowatt	PIC16F677-I/SO	SMD 133-2207●	1.23	1.09	0.96
16F677	20	SSOP	3.5 / 2.0	128	256	10bit	2	Int Osc / Nanowatt	PIC16F677-I/SS	SMD 133-2208●	1.14	0.98	0.82
16F687	20	DIP	3.5 / 2.0	128	256	10bit	2	USART / Int Osc / Nanowatt	PIC16F687-I/P	110-3401●	1.47	1.26	1.05

RL Re-reeling available

Microcontrollers and Microprocessors - 8/16/32-Bit - MICROCHIP - continued

Mid-Range Architecture - 8 Bit Flash Microcontrollers 8/14/18/20/28/40/44/64 Pins - continued

	Pins	Package	P.Memory K bytes / K words	RAM (Bytes)	EEPROM (Bytes)	ADC	Comparator	Key Features	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
20 Pin													
16F687	20	SSOP	3.5 / 2.0	128	256	10bit	2	USART / Int Osc / Nanowatt	PIC16F687-I/SS	SMD 110-3402	1.39	1.13	0.88
16F687	20	SOIC	3.5 / 2.0	128	256	10bit	2	USART / Int Osc / Nanowatt	PIC16F687-I/SO	SMD 133-2212	1.62	1.32	1.02
16F785	20	DIP	3.5 / 2.0	128	256	10bit	2	PWM / Opamps / Nanowatt	PIC16F785-I/P	932-1160	1.73	1.41	1.09
16F785	20	SOIC	3.5 / 2.0	128	256	10bit	2	PWM / Opamps / Nanowatt	PIC16F785-I/SO	SMD 932-1179	1.69	1.37	1.06
16F785	20	SSOP	3.5 / 2.0	128	256	10bit	2	PWM / Opamps / Nanowatt	PIC16F785-I/SS	SMD 932-1187	1.46	1.19	0.92
16HV785	20	DIP	3.5 / 2.0	128	256	10bit	2	PWM / Opamps / Nanowatt / Shunt Reg	PIC16HV785-I/P	SMD 133-2225	1.60	1.36	1.12
16HV785	20	SOIC	3.5 / 2.0	128	256	10bit	2	PWM / Opamps / Nanowatt / Shunt Reg	PIC16HV785-I/SO	SMD 133-2226	1.75	1.42	1.09
16HV785	20	SSOP	3.5 / 2.0	128	256	10bit	2	PWM / Opamps / Nanowatt / Shunt Reg	PIC16HV785-I/SS	SMD 133-2227	1.52	1.23	0.95
16F639	20	SSOP	3.5 / 2.0	128	256	—	2	Int Osc / Nanowatt	PIC16F639-I/SS	NEW SMD 155-6176	2.55	2.15	1.76
16F685	20	DIP	7.0 / 4.0	256	256	10bit	2	Int Osc / Nanowatt	PIC16F685-I/P	110-3399	1.65	1.37	1.10
16F685	20	SSOP	7.0 / 4.0	256	256	10bit	2	Int Osc / Nanowatt	PIC16F685-I/SS	SMD 110-3400	1.47	1.20	0.93
16F685	20	SOIC	7.0 / 4.0	256	256	10bit	2	Int Osc / Nanowatt	PIC16F685-I/SO	SMD 133-2210	1.70	1.39	1.07
16F689	20	DIP	7.0 / 4.0	256	256	10bit	2	USART / Int Osc / Nanowatt	PIC16F689-I/P	110-3403	1.65	1.37	1.10
16F689	20	SSOP	7.0 / 4.0	256	256	10bit	2	USART / Int Osc / Nanowatt	PIC16F689-I/SS	SMD 110-3405	1.47	1.20	0.93
16F689	20	SOIC	7.0 / 4.0	256	256	10bit	2	USART / Int Osc / Nanowatt	PIC16F689-I/SO	SMD 133-2213	1.70	1.39	1.07
16F690	20	DIP	7.0 / 4.0	256	256	10bit	2	USART / Int Osc / Nanowatt	PIC16F690-I/P	110-3406	1.49	1.24	0.99
16F690	20	SSOP	7.0 / 4.0	256	256	10bit	2	USART / Int Osc / Nanowatt	PIC16F690-I/SS	SMD 110-3407	1.33	1.09	0.84
16F690	20	QFN	7.0 / 4.0	256	256	10bit	2	USART / Int Osc / Nanowatt	PIC16F690-I/ML	SMD 129-2260	1.79	1.46	1.13
16F690	20	SOIC	7.0 / 4.0	256	256	10bit	2	USART / Int Osc / Nanowatt	PIC16F690-I/SO	SMD 129-2261	1.79	1.46	1.13
16F690	20	PDIP	7.0 / 4.0	256	256	10bit	2	USART / Int Osc / Nanowatt	PIC16F690-E/P	NEW 157-9589	1.92	1.59	1.26



Microchip's 28 and 40 Pin Midrange variants continue to improve in functionality and performance whilst retaining their original footprints. Features such as the new dual comparators with S/R Latch mode can be used to replace 555 timers, simple op-amps, delta-sigma ADCs and other analog functions normally available in external ICs.

485540

	Pins	Package	P.Memory K bytes / K words	RAM (Bytes)	EEPROM (Bytes)	ADC	Comparator	Key Features	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
28 Pin													
16F72	28	SOIC	3.5 / 2.0	128	0	8bit	—	—	PIC16F72-I/SO	SMD 976-0628	2.15	1.82	1.50
16F72	28	SDIL	3.5 / 2.0	128	0	8bit	—	—	PIC16F72-I/SP	976-0636	1.83	1.56	1.28
16F72	28	SSOP	3.5 / 2.0	128	0	8bit	—	—	PIC16F72-I/SS	SMD 976-0644	1.91	1.63	1.34
16F722	28	QFN	3.5 / 2.0	128	0	8bit	—	USART / Int Osc / Nanowatt	PIC16F722-I/ML	NEW SMD 163-0144	1.46	1.21	0.95
16F722	28	SOIC	3.5 / 2.0	128	0	8bit	—	USART / Int Osc / Nanowatt	PIC16F722-I/SO	NEW SMD 163-0145	1.23	1.02	0.80
16F722	28	SPDIP	3.5 / 2.0	128	0	8bit	—	USART / Int Osc / Nanowatt	PIC16F722-I/SP	NEW 163-0146	1.40	1.16	0.92
16F722	28	SSOP	3.5 / 2.0	128	0	8bit	—	USART / Int Osc / Nanowatt	PIC16F722-I/SS	NEW SMD 163-0147	1.19	0.98	0.78
16LF722	28	PDIP	3.5 / 2.0	128	0	8bit	—	USART / Int Osc / Nanowatt	PIC16LF722-I/SP	NEW 167-0439	1.40	1.16	0.92
16LF722	28	SSOP	3.5 / 2.0	128	0	8bit	—	USART / Int Osc / Nanowatt	PIC16LF722-I/SS	NEW SMD 167-0441	1.19	0.98	0.78
16F870	28	SOIC	3.5 / 2.0	128	64	10bit	—	USART	PIC16F870-I/SO	SMD 976-0946	2.46	2.09	1.71
16F870	28	SDIL	3.5 / 2.0	128	64	10bit	—	USART	PIC16F870-I/SP	976-0954	2.46	2.09	1.71
16F870	28	SSOP	3.5 / 2.0	128	64	10bit	—	USART	PIC16F870-I/SS	SMD 976-0962	2.98	2.53	2.07
16F870	28	SPDIP	3.5 / 2.0	128	64	10bit	—	USART / 1 x PWM / Nanowatt	PIC16LF870-I/SP	NEW 157-9594	3.05	2.58	2.12
16F872	28	SOIC	3.5 / 2.0	128	64	10bit	—	USART	PIC16F872-I/SO	SMD 976-1004	2.46	2.09	1.71
16F872	28	SDIL	3.5 / 2.0	128	64	10bit	—	USART	PIC16F872-I/SP	976-1012	2.46	2.09	1.71
16F872	28	SSOP	3.5 / 2.0	128	64	10bit	—	USART	PIC16F872-I/SS	SMD 108-4299	2.98	2.53	2.07
16LF872	28	SOIC	3.5 / 2.0	128	64	10bit	—	USART	PIC16LF872-I/SO	SMD 976-1721	3.05	2.58	2.12
16LF872	28	SDIL	3.5 / 2.0	128	64	10bit	—	USART	PIC16LF872-I/SP	976-1730	3.05	2.58	2.12
16LF872	28	SSOP	3.5 / 2.0	128	64	10bit	—	USART	PIC16LF872-I/SS	SMD 976-1748	2.66	2.26	1.85
16F882	28	SOIC	3.5 / 2.0	128	128	10bit	2	USART / Int Osc / Nanowatt	PIC16F882-I/SO	SMD 143-9529	1.60	1.31	1.02
16F882	28	SPDIP	3.5 / 2.0	128	128	10bit	2	USART / Int Osc / Nanowatt	PIC16F882-I/SP	143-9530	1.77	1.45	1.13
16F882	28	SSOP	3.5 / 2.0	128	128	10bit	2	USART / Int Osc / Nanowatt	PIC16F882-I/SS	SMD 143-9531	1.50	1.23	0.96
16F873A	28	SOIC	7.0 / 4.0	192	128	10bit	2	USART	PIC16F873A-I/SO	SMD 976-1080	3.49	2.96	2.43
16F873A	28	SDIL	7.0 / 4.0	192	128	10bit	2	USART	PIC16F873A-I/SP	976-1098	3.49	2.96	2.43
16F873A	28	SSOP	7.0 / 4.0	192	128	10bit	2	USART	PIC16F873A-I/SS	SMD 976-1101	3.56	3.02	2.48
16LF873A	28	SOIC	7.0 / 4.0	192	128	10bit	2	USART	PIC16LF873A-I/SO	SMD 976-1756	3.67	3.11	2.55
16LF873A	28	SDIL	7.0 / 4.0	192	128	10bit	2	USART	PIC16LF873A-I/SP	976-1764	4.31	3.65	2.99
16LF873A	28	SSOP	7.0 / 4.0	192	128	10bit	2	USART	PIC16LF873A-I/SS	SMD 976-1772	4.52	3.83	3.14
16F73	28	SOIC	7.0 / 4.0	192	0	8bit	—	USART	PIC16F73-I/SO	SMD 976-0660	2.85	2.42	1.99
16F73	28	SDIL	7.0 / 4.0	192	0	8bit	—	USART	PIC16F73-I/SP	976-0679	2.85	2.42	1.99
16F73	28	SSOP	7.0 / 4.0	192	0	8bit	—	USART	PIC16F73-I/SS	SMD 976-0687	2.95	2.50	2.05
16F73	28	QFN	7.0 / 4.0	192	0	8bit	—	USART	PIC16F73-I/ML	SMD 108-4327	3.35	2.84	2.34
16LF73	28	SOIC	7.0 / 4.0	192	0	8bit	—	USART	PIC16LF73-I/SO	SMD 976-1632	3.52	2.99	2.46
16LF73	28	SDIL	7.0 / 4.0	192	0	8bit	—	USART	PIC16LF73-I/SP	113-7325	3.52	2.99	2.46
16F723	28	QFN	7.0 / 4.0	192	0	8bit	—	USART / Int Osc / Nanowatt	PIC16F723-I/ML	NEW SMD 163-0148	1.63	1.35	1.07
16F723	28	SOIC	7.0 / 4.0	192	0	8bit	—	USART / Int Osc / Nanowatt	PIC16F723-I/SO	NEW SMD 163-0149	1.40	1.16	0.92
16F723	28	SPDIP	7.0 / 4.0	192	0	8bit	—	USART / Int Osc / Nanowatt	PIC16F723-I/SP	NEW 163-0150	1.57	1.30	1.03
16F723	28	SSOP	7.0 / 4.0	192	0	8bit	—	USART / Int Osc / Nanowatt	PIC16F723-I/SS	NEW SMD 163-0151	1.36	1.13	0.89
16LF723	28	PDIP	7.0 / 4.0	192	0	8bit	—	USART / Int Osc / Nanowatt	PIC16LF723-I/SP	NEW 167-0442	1.57	1.30	1.03
16LF723	28	SSOP	7.0 / 4.0	192	0	8bit	—	USART / Int Osc / Nanowatt	PIC16LF723-I/SS	NEW SMD 167-0443	1.37	1.13	0.89
16F873A	28	QFN	7.0 / 4.0	192	128	10bit	2	USART	PIC16F873A-I/ML	NEW SMD 146-7799	4.35	3.69	3.03
16F913	28	SOIC	7.0 / 4.0	256	256	10bit	2	USART / LCD / Nanowatt	PIC16F913-I/SO	SMD 129-2263	2.29	1.86	1.43
16F913	28	SDIP	7.0 / 4.0	256	256	10bit	2	USART / LCD / Nanowatt	PIC16F913-I/SP	129-2264	2.48	2.01	1.55
16F913	28	SSOP	7.0 / 4.0	256	256	10bit	2	USART / LCD / Nanowatt	PIC16F913-I/SS	SMD 129-2265	2.25	1.83	1.41
16F883	28	SOIC	7.0 / 4.0	256	256	10bit	2	USART / Int Osc / Nanowatt	PIC16F883-I/SO	SMD 143-9532	1.56	1.37	1.17
16F883	28	SPDIP	7.0 / 4.0	256	256	10bit	2	USART / Int Osc / Nanowatt	PIC16F883-I/SP	143-9533	1.73	1.51	1.29
16F883	28	SSOP	7.0 / 4.0	256	256	10bit	2	USART / Int Osc / Nanowatt	PIC16F883-I/SS	SMD 143-9535	1.52	1.33	1.15
16F737	28	SDIL	7.0 / 4.0	368	0	10bit	2	USART / 3 x PWM / Int Osc	PIC16F737-I/SP	976-0652	3.17	2.61	2.04
16F373	28	SOIC	7.0 / 4.0	368	0	10bit	2	USART / 3 x PWM / Int Osc	PIC16F737-I/SO	SMD 133-2214	3.79	3.12	2.45
16F916	28	SOIC	14.0 / 8.0	352	256	10bit	2	USART / LCD / Nanowatt	PIC16F916-I/SO	SMD 129-2268	2.56	2.08	1.60
16F916	28	SDIP	14.0 / 8.0	352	256	10bit	2	USART / LCD / Nanowatt	PIC16F916-I/SP	129-2269	2.75	2.23	1.72
16F916	28	SSOP	14.0 / 8.0	352	256	10bit	2	USART / LCD / Nanowatt	PIC16F916-I/SS	SMD 133-2218	2.53	2.06	1.58
16F916	28	QFN	14.0 / 8.0	352	256	10bit	2	USART / LCD / Nanowatt	PIC16F916-I/ML	NEW SMD 152-6633	2.79	2.27	1.75
16F76	28	SOIC	14.0 / 8.0	368	0	8bit	—	USART	PIC16F76-I/SO	SMD 976-0709	3.60	3.05	2.50
16F76	28	SDIL	14.0 / 8.0	368	0	8bit	—	USART	PIC16F76-I/SP	976-0717	3.60	3.05	2.50
16F76	28	SSOP	14.0 / 8.0	368	0	8bit	—	USART	PIC16F76-I/SS	SMD 108-4328	4.32	3.66	3.00
16F726	28	QFN	14.0 / 8.0	368	0	8bit	—	USART / Int Osc / Nanowatt	PIC16F726-I/ML	NEW SMD 163-0156	1.80	1.49	1.18
16F726	28	SOIC	14.0 / 8.0	368	0	8bit	—	USART / Int Osc / Nanowatt	PIC16F726-I/SO	NEW SMD 163-0157	1.57	1.30	1.03
16F726	28	SPDIP	14.0 / 8.0	368	0	8bit	—	USART / Int Osc / Nanowatt	PIC16F726-I/SP	NEW 163-0158	1.75	1.45	1.14
16F726	28	SSOP	14.0 / 8.0	368	0	8bit	—	USART / Int Osc / Nanowatt	PIC16F726-I/SS	NEW SMD 163-0159	1.55	1.28	1.01

RL Re-reeling available

	Pins	Package	P.Memory K bytes / K words	RAM (Bytes)	EEPROM (Bytes)	ADC	Comparator	Key Features	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
28 Pin													
16LF726	28	SPDIP	14.0 / 8.0	368	0	8bit	—	USART / Int Osc / Nanowatt	PIC16LF726-I/SP	NEW 165-9766	1.76	1.45	1.14
16LF726	28	SSOP	14.0 / 8.0	368	0	8bit	—	USART / Int Osc / Nanowatt	PIC16LF726-I/SS	NEW SMD 165-9767	1.55	1.28	1.01
16LF76	28	SDIL	14.0 / 8.0	368	0	10bit	—	USART	PIC16LF76-I/SP	976-1640	3.77	3.20	2.62
16LF76	28	SOIC	14.0 / 8.0	368	0	10bit	—	USART	PIC16LF76-I/SO	SMD 121-2683	4.42	3.75	3.08
16F767	28	DIP	14.0 / 8.0	368	0	10bit	2	USART / 3 x PWM / Int Osc	PIC16F767-I/SP	SMD 133-2216	4.32	3.55	2.78
16F767	28	SOIC	14.0 / 8.0	368	0	10bit	2	USART / 3 x PWM / Int Osc	PIC16F767-I/SO	SMD 143-9751	4.41	3.62	2.84
16LF876A	28	SOIC	14.0 / 8.0	368	256	10bit	2	USART	PIC16LF876A-I/SO	SMD 976-1802	3.94	3.34	2.74
16LF876A	28	SDIL	14.0 / 8.0	368	256	10bit	2	USART	PIC16LF876A-I/SP	976-1810	4.62	3.92	3.22
16LF876A	28	SSOP	14.0 / 8.0	368	256	10bit	2	USART	PIC16LF876A-I/SS	SMD 976-1829	4.01	3.41	2.80
16F876A	28	SOIC	14.0 / 8.0	368	256	10bit	2	USART	PIC16F876A-I/SO	SMD 976-1306	3.76	3.19	2.62
16F876A	28	SDIL	14.0 / 8.0	368	256	10bit	2	USART	PIC16F876A-I/SP	976-1314	3.76	3.19	2.62
16F876A	28	SSOP	14.0 / 8.0	368	256	10bit	2	USART	PIC16F876A-I/SS	SMD 976-1322	3.83	3.25	2.67
16F876A	28	QFN	14.0 / 8.0	368	256	10bit	2	USART	PIC16F876A-I/ML	NEW SMD 146-7800	3.76	3.19	2.62
16F886	28	SOIC	14.0 / 8.0	368	256	10bit	2	USART / Int Osc / Nanowatt	PIC16F886-I/SO	SMD 143-9538	1.70	1.49	1.27
16F886	28	SPDIP	14.0 / 8.0	368	256	10bit	2	USART / Int Osc / Nanowatt	PIC16F886-I/SP	143-9539	1.86	1.62	1.39
16F886	28	SSOP	14.0 / 8.0	368	256	10bit	2	USART / Int Osc / Nanowatt	PIC16F886-I/SS	SMD 143-9540	1.66	1.46	1.25
16F886	28	SPDIP	14.0 / 8.0	368	256	10bit	2	USART / Int Osc / Nanowatt	PIC16F886-E/SP	NEW 157-9590	2.07	1.81	1.54
16F886	28	QFN	14.0 / 8.0	368	256	10bit	2	USART / Int Osc / Nanowatt	PIC16F886-I/ML	NEW SMD 157-9591	1.99	1.73	1.48
40 Pin													
16F871	40	DIP	3.5 / 2.0	128	64	10bit	—	USART	PIC16F871-I/P	976-0989	2.91	2.40	1.88
16F871	44	PLCC	3.5 / 2.0	128	64	10bit	—	USART	PIC16F871-I/L	SMD 976-0970	3.27	2.89	2.51
16F871	44	TQFP	3.5 / 2.0	128	64	10bit	—	USART	PIC16F871-I/PT	SMD 976-0997	3.94	3.24	2.54
16LF871	40	DIP	3.5 / 2.0	128	64	10bit	—	USART	PIC16LF871-I/P	108-4329	3.59	2.95	2.31
16LF871	44	PLCC	3.5 / 2.0	128	64	10bit	—	USART	PIC16LF871-I/L	SMD 976-1705	4.03	3.57	3.10
16LF871	44	TQFP	3.5 / 2.0	128	64	10bit	—	USART	PIC16LF871-I/PT	SMD 976-1713	4.12	3.39	2.66
16F724	40	PDIP	7.0 / 4.0	192	0	8bit	—	USART / Int Osc / Nanowatt	PIC16F724-I/P	NEW 163-0153	1.85	1.52	1.20
16F724	44	QFN	7.0 / 4.0	192	0	8bit	—	USART / Int Osc / Nanowatt	PIC16F724-I/ML	NEW SMD 163-0152	1.97	1.63	1.30
16F724	44	TQFP	7.0 / 4.0	192	0	8bit	—	USART / Int Osc / Nanowatt	PIC16F724-I/PT	NEW SMD 163-0154	1.75	1.45	1.14
16LF724	40	PDIP	7.0 / 4.0	192	0	8bit	—	USART / Int Osc / Nanowatt	PIC16LF724-I/P	NEW 167-0444	1.92	1.56	1.20
16LF724	40	TQFP	7.0 / 4.0	192	0	8bit	—	USART / Int Osc / Nanowatt	PIC16LF724-I/PT	NEW SMD 167-0445	1.83	1.49	1.14
16F74	40	DIP	7.0 / 4.0	192	0	8bit	—	USART	PIC16F74-I/P	976-0695	3.48	2.95	2.42
16F74	44	PLCC	7.0 / 4.0	192	0	8bit	—	USART	PIC16F74-I/L	SMD 108-4302	4.56	3.95	3.33
16F74	44	TQFP	7.0 / 4.0	192	0	8bit	—	USART	PIC16F74-I/PT	SMD 108-4303	4.17	3.54	2.90
16LF74	40	DIP	7.0 / 4.0	192	0	8bit	—	USART	PIC16LF74-I/P	113-7326	3.65	3.09	2.54
16F874A	40	DIP	7.0 / 4.0	192	128	10bit	2	USART	PIC16F874A-I/P	976-1209	3.81	3.23	2.65
16F874A	44	PLCC	7.0 / 4.0	192	128	10bit	2	USART	PIC16F874A-I/L	SMD 976-1195	4.27	3.70	3.12
16F874A	44	TQFP	7.0 / 4.0	192	128	10bit	2	USART	PIC16F874A-I/PT	SMD 976-1217	4.39	3.72	3.05
16LF874A	40	DIP	7.0 / 4.0	192	128	10bit	2	USART	PIC16LF874A-I/P	121-2711	4.69	3.98	3.28
16LF874A	44	PLCC	7.0 / 4.0	192	128	10bit	2	USART	PIC16LF874A-I/L	SMD 976-1780	5.26	4.56	3.85
16LF874A	44	TQFP	7.0 / 4.0	192	128	10bit	2	USART	PIC16LF874A-I/PT	SMD 976-1799	5.41	4.58	3.76
16F914	40	PDIP	7.0 / 4.0	256	256	10bit	2	USART / LCD / Nanowatt	PIC16F914-I/P	129-2266	2.73	2.22	1.72
16F914	44	TQFP	7.0 / 4.0	256	256	10bit	2	USART / LCD / Nanowatt	PIC16F914-I/PT	SMD 129-2267	2.27	1.84	1.42
16F884	40	PDIP	7.0 / 4.0	256	256	10bit	2	USART / Int Osc / Nanowatt	PIC16F884-I/P	143-9536	1.83	1.60	1.37
16F884	44	TQFP	7.0 / 4.0	256	256	10bit	2	USART / Int Osc / Nanowatt	PIC16F884-I/PT	SMD 143-9537	1.57	1.37	1.17
16F747	40	DIP	7.0 / 4.0	368	0	10bit	2	USART / 3x PWM / Int Osc	PIC16F747-I/P	SMD 133-2215	4.28	3.52	2.75
16F917	40	PDIP	14.0 / 8.0	352	256	10bit	2	USART / LCD / Nanowatt	PIC16F917-I/P	129-2270	2.93	2.38	1.83
16F917	44	TQFP	14.0 / 8.0	352	256	10bit	2	USART / LCD / Nanowatt	PIC16F917-I/PT	SMD 129-2271	2.41	1.96	1.51
16F917	44	QFN	14.0 / 8.0	352	256	10bit	2	USART / Int Osc / Nanowatt	PIC16F917-I/ML	NEW SMD 161-7660	3.06	2.49	1.92
16F77	40	DIP	14.0 / 8.0	368	0	8bit	—	USART	PIC16F77-I/P	976-0733	4.66	3.95	3.24
16F77	44	PLCC	14.0 / 8.0	368	0	8bit	—	USART	PIC16F77-I/L	SMD 976-0725	5.22	4.52	3.81
16F77	44	TQFP	14.0 / 8.0	368	0	8bit	—	USART	PIC16F77-I/PT	SMD 976-0741	4.77	4.04	3.32
16LF77	40	DIP	14.0 / 8.0	368	0	8bit	—	USART	PIC16LF77-I/P	976-1659	4.17	3.54	2.90
16F727	40	PDIP	14.0 / 8.0	368	0	8bit	—	USART / Int Osc / Nanowatt	PIC16F727-I/P	NEW 163-0163	2.02	1.67	1.32
16F727	44	QFN	14.0 / 8.0	368	0	8bit	—	USART / Int Osc / Nanowatt	PIC16F727-I/ML	NEW SMD 163-0160	2.16	1.78	1.41
16F727	44	TQFP	14.0 / 8.0	368	0	8bit	—	USART / Int Osc / Nanowatt	PIC16F727-I/PT	NEW SMD 163-0164	1.93	1.60	1.26
16LF727	40	PDIP	14.0 / 8.0	368	0	8bit	—	USART / Int Osc / Nanowatt	PIC16LF727-I/P	NEW 165-9768	2.02	1.67	1.32
16LF727	44	TQFP	14.0 / 8.0	368	0	8bit	—	USART / Int Osc / Nanowatt	PIC16LF727-I/PT	NEW SMD 165-9769	1.93	1.60	1.26
16F777	44	TQFP	14.0 / 8.0	368	0	10bit	2	USART / 3x PWM / Int Osc	PIC16F777-I/PT	SMD 133-2217	4.84	3.98	3.12
16F877A	40	DIP	14.0 / 8.0	368	256	10bit	2	USART	PIC16F877A-I/P	976-1446	4.10	3.48	2.85
16F877A	44	PLCC	14.0 / 8.0	368	256	10bit	2	USART	PIC16F877A-I/L	SMD 976-1438	4.59	3.97	3.36
16F877A	44	TQFP	14.0 / 8.0	368	256	10bit	2	USART	PIC16F877A-I/PT	SMD 976-1454	4.72	4.01	3.29
16LF877A	40	DIP	14.0 / 8.0	368	256	10bit	2	USART	PIC16LF877A-I/P	976-1845	5.06	4.29	3.52
16LF877A	44	PLCC	14.0 / 8.0	368	256	10bit	2	USART	PIC16LF877A-I/L	SMD 976-1837	5.66	4.91	4.15
16LF877A	44	TQFP	14.0 / 8.0	368	256	10bit	2	USART	PIC16LF877A-I/PT	SMD 976-1853	4.95	4.20	3.45
16F887	40	PDIP	14.0 / 8.0	368	256	10bit	2	USART / Int Osc / Nanowatt	PIC16F887-I/P	143-9541	2.00	1.75	1.49
16F887	44	TQFP	14.0 / 8.0	368	256	10bit	2	USART / Int Osc / Nanowatt	PIC16F887-I/PT	SMD 143-9542	1.73	1.50	1.27
16F887	44	TQFP	14.0 / 8.0	368	256	10bit	2	USART / Int Osc / Nanowatt	PIC16F887-E/PT	NEW SMD 157-9592	2.26	1.96	1.67
16F887	44	QFN	14.0 / 8.0	368	256	10bit	2	USART / Int Osc / Nanowatt	PIC16F887-I/ML	NEW SMD 161-8005	2.17	1.89	1.61
64 Pin													
16F946	64	TQFP	14 / 8.0	336	256		2	USART / LCD / Nanowatt	PIC16F946-I/PT	SMD 133-2219	3.02	2.45	1.89

High Performance Architecture

Microchip's High Performance Architecture encompasses the PIC18 family of devices. These microcontrollers utilise a 16-bit program word architecture in 18 to 100-pin package options.

The PIC18 devices are high-performance microcontrollers with integrated A/D converters. All PIC18 microcontrollers incorporate an advanced RISC architecture that supports Flash devices. The PIC18 has enhanced core features, 32-level deep stack and multiple internal and external interrupts. The separate instruction and data buses of the Harvard architecture allow a 16-bit instruction word with separate 8-bit data. The two-stage instruction pipeline enables all instructions to execute in a single cycle, except for program branches, which require two cycles. A total of 79 instructions are available. The PIC18 family has special features such as intergrated CAN or Ethernet control, to reduce external components, thus minimising cost, enhancing system reliability and reducing power consumption. The PIC18 family builds on the foundation established by other 8-bit PIC microcontrollers and provides engineers with a smooth, easy migration path to these higher levels of performance and feature sets.

High Performance Product Features

- Expansive package offering - 18 to 100 pin
- Flexible Flash program memory, many devices with self-write capability
- Low pwoer capability on devices with nanoWatt techonology
- Linear program memory space up to 2 Mbytes
- 10-16 MIPS operating performance
- Hardware 8 x 8 multiplier
- Advanced communication peripherals and protocols (CAN, LIN, USB, Zigbee, and TCP/IP)
- J-Series for competitive cost sensitive applications with high memory densities
- K-Series for new level of performance in 8-bit MCUs

490523

RL Re-reeling available

Farnell

Microcontrollers and Microprocessors - 8/16/32-Bit - MICROCHIP - continued

General Purpose PIC18F High Performance 8 Bit Flash Microcontrollers - 10 Mips



The 18F1220 and 18F1320 provide a powerful upgrade path from the existing PIC 16, 18 pin footprint, further enhanced variants can be seen in the Motor Control section - below.

485563

	Pins	Package	P.Memory K bytes / K words	RAM (Bytes)	EEPROM (Bytes)	ADC	Comparator	Key Features	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
18 Pin													
18F1220	18	DIP	4.0 / 2.0	256	256	10bit	—	USART / Int Osc / Nanowatt	PIC18F1220-I/P	976-1977	2.66	2.16	1.66
18F1220	18	SOIC	4.0 / 2.0	256	256	10bit	—	USART / Int Osc / Nanowatt	PIC18F1220-I/SO	SMD 976-1985	2.56	2.08	1.60
18F1220	20	SSOP	4.0 / 2.0	256	256	10bit	—	USART / Int Osc / Nanowatt	PIC18F1220-I/SS	SMD 976-1993	2.56	2.08	1.60
18F1220	18	PDIP	4.0 / 2.0	256	256	10bit	—	USART / Int Osc / Nanowatt	PIC18F1220-E/P	NEW 157-9595	2.92	2.37	1.82
18F1220	18	DIP	4.0 / 2.0	256	256	10bit	—	USART / Int Osc / Nanowatt	PIC18F1220-I/P	976-1977	2.66	2.16	1.66
18F1220	18	SOIC	4.0 / 2.0	256	256	10bit	—	USART / Int Osc / Nanowatt	PIC18F1220-I/SO	SMD 976-1985	2.56	2.08	1.60
18F1220	20	SSOP	4.0 / 2.0	256	256	10bit	—	USART / Int Osc / Nanowatt	PIC18F1220-I/SS	SMD 976-1993	2.56	2.08	1.60
18LF1220	18	SOIC	4.0 / 2.0	256	256	10bit	—	USART / Int Osc / Nanowatt	PIC18LF1220-I/SO	SMD 143-9750	2.69	2.19	1.68
18LF1220	18	SOIC	4.0 / 2.0	256	256	10bit	—	USART / Int Osc / Nanowatt	PIC18LF1220-I/SO	SMD 143-9750	2.69	2.19	1.68
18F1320	18	DIP	4.0 / 2.0	256	256	10bit	—	USART / Int Osc / Nanowatt	PIC18F1320-I/P	976-2019	2.50	2.03	1.56
18F1320	18	SOIC	4.0 / 2.0	256	256	10bit	—	USART / Int Osc / Nanowatt	PIC18F1320-I/SO	SMD 976-2027	2.41	1.96	1.51
18F1320	18	DIP	4.0 / 2.0	256	256	10bit	—	USART / Int Osc / Nanowatt	PIC18F1320-I/P	976-2019	2.50	2.03	1.56
18F1320	18	SOIC	4.0 / 2.0	256	256	10bit	—	USART / Int Osc / Nanowatt	PIC18F1320-I/SO	SMD 976-2027	2.41	1.96	1.51
18F1320	20	SSOP	4.0 / 2.0	256	256	10bit	—	USART / Int Osc / Nanowatt	PIC18F1320-I/SS	SMD 108-4333	2.83	2.30	1.77
18F1320	20	SSOP	4.0 / 2.0	256	256	10bit	—	USART / Int Osc / Nanowatt	PIC18F1320-I/SS	SMD 108-4333	2.83	2.30	1.77
18F1320	28	QFN	4.0 / 2.0	256	256	10bit	—	USART / Int Osc / Nanowatt	PIC18F1320-I/ML	SMD 976-2000	2.70	2.19	1.68
18F1320	28	QFN	4.0 / 2.0	256	256	10bit	—	USART / Int Osc / Nanowatt	PIC18F1320-I/ML	SMD 976-2000	2.70	2.19	1.68
18LF1320	18	DIP	4.0 / 2.0	256	256	10bit	—	USART / Int Osc / Nanowatt	PIC18LF1320-I/P	146-7808	2.62	2.13	1.63
18LF1320	18	SOIC	4.0 / 2.0	256	256	10bit	—	USART / Int Osc / Nanowatt	PIC18LF1320-I/SO	NEW SMD 157-9616	2.98	2.42	1.86
18LF1320	20	SSOP	4.0 / 2.0	256	256	10bit	—	USART / Int Osc / Nanowatt	PIC18LF1320-I/SS	NEW SMD 157-9618	2.98	2.42	1.86
18LF1320	28	QFN	4.0 / 2.0	256	256	10bit	—	USART / Int Osc / Nanowatt	PIC18LF1320-I/ML	NEW SMD 157-9615	3.30	2.68	2.06



The 28 and 40 pin 18F family now includes the 'J' series for cost sensitive applications with high memory densities , in addition the 'K' series provides new levels of performance (16 MIPS) whilst being very cost sensitive at lower memory densities.

	Pins	Package	P.Memory K bytes / K words	RAM (Bytes)	EEPROM (Bytes)	ADC	Comparator	Key Features	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
28 Pin													
18F2220	28	SOIC	4.0 / 2.0	512	256	10bit	2	USART / Int Osc / Nanowatt	PIC18F2220-I/SO	SMD 976-2035	3.90	3.31	2.71
18F2220	28	SDIL	4.0 / 2.0	512	256	10bit	2	USART / Int Osc / Nanowatt	PIC18F2220-I/SP	976-2043	4.58	3.88	3.18
18F2221	28	SOIC	4.0 / 2.0	512	256	10bit	2	USART / Int Osc / Nanowatt	PIC18F2221-I/SO	SMD 133-2233	2.56	2.08	1.60
18F2221	28	DIP	4.0 / 2.0	512	256	10bit	2	USART / Int Osc / Nanowatt	PIC18F2221-I/SP	SMD 133-2234	2.75	2.23	1.72
18F2221	28	SSOP	4.0 / 2.0	512	256	10bit	2	USART / Int Osc / Nanowatt	PIC18F2221-I/SS	NEW SMD 155-6178	2.53	2.06	1.58
18LF2221	28	SOIC	4.0 / 2.0	512	256	10bit	2	USART / Int Osc / Nanowatt	PIC18LF2221-I/SO	SMD 146-7809	2.29	1.86	1.43
18F2320	28	SOIC	8.0 / 4.0	512	256	10bit	2	USART / Int Osc / Nanowatt	PIC18F2320-I/SO	SMD 976-2051	4.95	4.20	3.45
18F2320	28	SDIL	8.0 / 4.0	512	256	10bit	2	USART / Int Osc / Nanowatt	PIC18F2320-I/SP	976-2060	4.95	4.20	3.45
18LF2320	28	SOIC	8.0 / 4.0	512	256	10bit	2	USART / Int Osc / Nanowatt	PIC18LF2320-I/SO	NEW SMD 155-6191	5.19	4.41	3.62
18F2321	28	DIP	8.0 / 4.0	512	256	10bit	2	USART / Int Osc / Nanowatt	PIC18F2321-I/SP	SMD 133-2236	2.92	2.37	1.82
18F2321	28	SOIC	8.0 / 4.0	512	256	10bit	2	USART / Int Osc / Nanowatt	PIC18F2321-I/SO	SMD 143-9543	2.73	2.22	1.70
18F2321	28	SSOP	8.0 / 4.0	512	256	10bit	2	USART / Int Osc / Nanowatt	PIC18F2321-I/SS	NEW SMD 157-9596	2.69	2.19	1.68
18F2321	28	SOIC	8.0 / 4.0	512	256	10bit	2	USART / Int Osc / Nanowatt	PIC18LF2321-I/SO	SMD 146-7810	2.44	1.98	1.52
18F2410	28	DIP	16 / 8.0	768	0	—	2	USART / Int Osc / Nanowatt	PIC18F2410-I/SP	SMD 133-2238	3.48	2.83	2.17
18F2420	28	SDIL	16 / 8.0	768	256	10bit	2	USART / Int Osc / Nanowatt	PIC18F2420-I/SP	932-1195	3.20	2.60	2.00
18F2420	28	SOIC	16 / 8.0	768	256	10bit	2	USART / Int Osc / Nanowatt	PIC18F2420-I/SO	SMD 932-1209	3.58	2.90	2.23
18F2420	28	QFN	16 / 8.0	768	256	—	2	USART / Int Osc / Nanowatt	PIC18F2420-I/ML	NEW SMD 157-9597	3.81	3.09	2.37
18LF2420	28	QFN	16 / 8.0	768	256	—	2	USART / Int Osc / Nanowatt	PIC18LF2420-I/ML	NEW SMD 157-9619	3.98	3.23	2.49
18F2423	28	SOIC	16 / 8.0	768	256	—	2	USART / Int Osc / Nanowatt	PIC18F2423-I/SO	SMD 133-2239	3.95	3.21	2.48
18F2423	28	DIP	16 / 8.0	768	256	—	2	USART / Int Osc / Nanowatt	PIC18F2423-I/SP	SMD 133-2240	4.13	3.36	2.59
18F2423	28	SOIC	16 / 8.0	768	256	—	2	USART / Int Osc / Nanowatt	PIC18F2423-E/SO	SMD 146-7807	3.71	3.01	2.32
18F24K20	28	SOIC	16 / 8.0	768	256	10bit	2	USART / Int Osc / Nanowatt	PIC18F24K20-I/SO	SMD 143-9574	1.93	1.60	1.26
18F24K20	28	SPDIP	16 / 8.0	768	256	10bit	2	USART / Int Osc / Nanowatt	PIC18F24K20-I/SP	143-9575	2.10	1.74	1.37
18F24K20	28	SSOP	16 / 8.0	768	256	10bit	2	USART / Int Osc / Nanowatt	PIC18F24K20-I/SS	SMD 143-9576	1.89	1.56	1.24
18F24J10	28	SOIC	16 / 8.0	1024	0	—	2	USART / Int Osc	PIC18F24J10-I/SO	SMD 133-2242	1.83	1.52	1.20
18F24J10	28	DIP	16 / 8.0	1024	0	—	2	USART / Int Osc	PIC18F24J10-I/SP	SMD 133-2243	1.97	1.65	1.32
18F24J10	28	SSOP	16 / 8.0	1024	0	—	2	USART / Int Osc	PIC18F24J10-I/SS	SMD 143-9544	1.83	1.51	1.18
18F25J10	28	SOIC	32 / 16	1024	0	—	2	USART / Int Osc	PIC18F25J10-I/SO	SMD 133-2248	2.00	1.66	1.32
18F25J10	28	DIP	32 / 16	1024	0	—	2	USART / Int Osc	PIC18F25J10-I/SP	SMD 133-2249	2.16	1.80	1.43
18F25J10	28	SSOP	32 / 16	1024	0	—	2	USART / Int Osc	PIC18F25J10-I/SS	SMD 143-9545	2.00	1.65	1.30
18F2520	28	SDIL	32 / 16	1536	256	10bit	2	USART / Int Osc / Nanowatt	PIC18F2520-I/SP	932-1233	3.70	3.00	2.31
18F2520	28	SOIC	32 / 16	1536	256	10bit	2	USART / Int Osc / Nanowatt	PIC18F2520-I/SO	SMD 932-1241	3.55	2.88	2.21
18F2520	28	QFN	32 / 16	1536	256	10bit	2	USART / Int Osc / Nanowatt	PIC18F2520-I/ML	NEW SMD 157-9601	4.39	3.57	2.74
18LF2520	28	SOIC	32 / 16	1536	256	10bit	2	USART / Int Osc / Nanowatt	PIC18LF2520-I/SO	NEW SMD 155-6192	4.36	3.54	2.73
18LF2520	28	PDIP	32 / 16	1536	256	10bit	2	USART / Int Osc / Nanowatt	PIC18LF2520-I/SP	NEW 157-9624	4.55	3.69	2.84
18LF2520	28	QFN	32 / 16	1536	256	10bit	2	USART / Int Osc / Nanowatt	PIC18LF2520-I/ML	SMD 129-2277	3.91	3.18	2.45
18F2523	28	SOIC	32 / 16	1536	256	—	2	USART / Int Osc / Nanowatt	PIC18F2523-I/SO	SMD 133-2244	4.52	3.67	2.83
18F2523	28	DIP	32 / 16	1536	256	—	2	USART / Int Osc / Nanowatt	PIC18F2523-I/SP	SMD 133-2245	4.71	3.82	2.94
18LF2523	28	SOIC	32 / 16	1536	256	—	2	USART / Int Osc / Nanowatt	PIC18LF2523-I/SO	NEW SMD 160-7938	4.75	3.86	2.97
18LF2523	28	SPDIP	32 / 16	1536	256	—	2	USART / Int Osc / Nanowatt	PIC18LF2523-I/SP	NEW 161-8006	4.94	4.01	3.08
18F25K20	28	SOIC	32 / 16	1536	256	10bit	2	USART / Int Osc / Nanowatt	PIC18F25K20-I/SO	SMD 143-9577	2.10	1.74	1.37
18F25K20	28	SPDIP	32 / 16	1536	256	10bit	2	USART / Int Osc / Nanowatt	PIC18F25K20-I/SP	143-9578	2.27	1.88	1.49
18F25K20	28	SSOP	32 / 16	1536	256	10bit	2	USART / Int Osc / Nanowatt	PIC18F25K20-I/SS	SMD 143-9579	2.06	1.71	1.35
18F2525	28	SOIC	48 / 24	3968	1024	10bit	2	USART / Int Osc / Nanowatt	PIC18F2525-I/SO	SMD 121-2694	4.72	3.84	2.95
18F2525	28	SDIL	48 / 24	3968	1024	10bit	2	USART / Int Osc / Nanowatt	PIC18F2525-I/SP	121-2695	4.18	3.40	2.62
18LF2525	28	SOIC	48 / 24	3968	1024	10bit	2	USART / Int Osc / Nanowatt	PIC18LF2525-I/SO	NEW SMD 157-9625	4.96	4.03	3.10
18LF2525	28	PDIP	48 / 24	3968	1024	10bit	2	USART / Int Osc / Nanowatt	PIC18LF2525-I/SP	NEW 161-7318	5.15	4.18	3.21
18F2585	28	SOIC	48 / 24	3328	1024	10bit	—	USART / Int Osc / Nanowatt	PIC18F2585-I/SO	SMD 121-2696	5.32	4.32	3.33
18F2585	28	SPDIP	48 / 24	3328	1024	10bit	—	USART / Int Osc / Nanowatt	PIC18F2585-I/SP	NEW 160-7937	6.42	5.22	4.02
18F2610	28	SOIC	65 / 32	3968	0	—	2	USART / Int Osc / Nanowatt	PIC18F2610-I/SO	SMD 133-2250	5.04	4.09	3.15
18F2620	28	SOIC	65 / 32	3968	1024	10bit	2	USART / Int Osc / Nanowatt	PIC18F2620-I/SO	SMD 121-2697	4.52	3.68	2.83
18F2620	28	SDIL	65 / 32	3968	1024	10bit	2	USART / Int Osc / Nanowatt	PIC18F2620-I/SP	121-2698	4.68	3.81	2.93
18LF2620	28	SOIC	65 / 32	3968	1024	10bit	2	USART / Int Osc / Nanowatt	PIC18LF2620-I/SO	SMD 146-7811	4.76	3.86	2.97
18LF2620	28	SPDIP	65 / 32	3968	1024	10bit	2	USART / Int Osc / Nanowatt	PIC18LF2620-I/SP	146-7812	4.91	3.99	3.07
18F26K20	28	SOIC	65 / 32	3936	1024	10bit	2	USART / Int Osc / Nanowatt	PIC18F26K20-I/SO	SMD 143-9580	2.45	2.02	1.60
18F26K20	28	SPDIP	65 / 32	3936	1024	10bit	2	USART / Int Osc / Nanowatt	PIC18F26K20-I/SP	143-9581	2.63	2.17	1.72
18F26K20	28	SSOP	65 / 32	3936	1024	10bit	2	USART / Int Osc / Nanowatt	PIC18F26K20-I/SS	SMD 143-9582	2.42	2.00	1.58

RL Re-reeling available

	Pins	Package	P.Memory K bytes / K words	RAM (Bytes)	EEPROM (Bytes)	ADC	Comparator	Key Features	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
28 Pin													
18F26K20	28	QFN	65 / 32	3936	1024	10bit	2	USART / Int Osc / Nanowatt	PIC18F26K20-I/ML	NEW SMD 162-9786	2.68	2.21	1.75
18F26K20	28	SSOP	65 / 32	3936	1024	10bit	2	USART / Int Osc / Nanowatt	PIC18F26K20-E/SS	NEW SMD 166-4860	2.70	2.23	1.76
18F26K20	28	SPDIP	65 / 32	3936	1024	10bit	2	USART / Int Osc / Nanowatt	PIC18F26K20-E/SP	NEW SMD 166-4861	2.90	2.40	1.90
18F26K20	28	SOIC	65 / 32	3936	1024	10bit	2	USART / Int Osc / Nanowatt	PIC18F26K20-E/SO	NEW SMD 167-2128	2.73	2.26	1.79
18F2680	28	SOIC	65 / 32	3328	1024	10bit	—	USART / Int Osc / ECAN	PIC18F2680-I/SO	SMD 121-2699	6.61	5.37	4.13
18F2680	28	SDIL	65 / 32	3328	1024	10bit	—	USART / Int Osc / ECAN	PIC18F2680-I/SP	121-2700	6.79	5.52	4.25
18F2685	28	SOIC	96 / 48	3328	1024	10bit	—	USART / Int Osc / ECAN	PIC18F2685-I/SO	SMD 133-2252	7.67	6.23	4.79
18F2685	28	DIP	96 / 48	3328	1024	10bit	—	USART / Int Osc / ECAN	PIC18F2685-I/SP	SMD 133-2253	7.85	6.38	4.91
40 Pin													
18F4220	40	DIP	4.0 / 2.0	512	256	10bit	2	USART / Int Osc / Nanowatt	PIC18F4220-I/P	119-6810	5.05	4.28	3.51
18F4220	44	TQFP	4.0 / 2.0	512	256	10bit	2	USART / Int Osc / Nanowatt	PIC18F4220-I/PT	SMD 113-7343	4.96	4.21	3.46
18F4221	40	DIP	4.0 / 2.0	512	256	10bit	2	USART / Int Osc / Nanowatt	PIC18F4221-I/P	SMD 133-2254	2.93	2.38	1.83
18F4221	44	TQFP	4.0 / 2.0	512	256	10bit	2	USART / Int Osc / Nanowatt	PIC18F4221-I/PT	SMD 133-2255	2.83	2.30	1.77
18F4320	40	DIP	8.0 / 4.0	512	256	10bit	2	USART / Int Osc / Nanowatt	PIC18F4320-I/P	976-2140	5.44	4.61	3.78
18F4320	44	TQFP	8.0 / 4.0	512	256	10bit	2	USART / Int Osc / Nanowatt	PIC18F4320-I/PT	SMD 976-2159	5.28	4.48	3.68
18F4321	40	DIP	8.0 / 4.0	512	256	10bit	2	USART / Int Osc / Nanowatt	PIC18F4321-I/P	SMD 133-2256	3.09	2.51	1.93
18F4321	44	TQFP	8.0 / 4.0	512	256	10bit	2	USART / Int Osc / Nanowatt	PIC18F4321-I/PT	SMD 133-2257	3.00	2.44	1.87
18F43K20	40	PDIP	8.0 / 4.0	512	256	10bit	2	USART / Int Osc / Nanowatt	PIC18F43K20-I/P	143-9584	2.19	1.81	1.43
18F43K20	44	TQFP	8.0 / 4.0	512	256	10bit	2	USART / Int Osc / Nanowatt	PIC18F43K20-I/PT	SMD 143-9585	2.10	1.74	1.37
18F4410	44	TQFP	16 / 8.0	768	0	10bit	2	USART / Int Osc / Nanowatt	PIC18F4410-I/PT	SMD 133-2261	3.58	2.90	2.23
18F4420	40	DIP	16 / 8.0	768	256	10bit	2	USART / Int Osc / Nanowatt	PIC18F4420-I/P	932-1292	3.93	3.20	2.46
18F4420	44	TQFP	16 / 8.0	768	256	10bit	2	USART / Int Osc / Nanowatt	PIC18F4420-I/PT	SMD 932-1306	3.28	2.66	2.05
18F4423	40	DIP	16 / 8.0	768	256	12bit	2	USART / Int Osc / Nanowatt	PIC18F4423-I/P	SMD 133-2262	4.32	3.51	2.70
18F4423	44	TQFP	16 / 8.0	768	256	12bit	2	USART / Int Osc / Nanowatt	PIC18F4423-I/PT	SMD 133-2263	4.23	3.44	2.65
18F44K20	40	PDIP	16 / 8.0	768	256	10bit	2	USART / Int Osc / Nanowatt	PIC18F44K20-I/P	143-9586	2.36	1.95	1.55
18F44K20	44	TQFP	16 / 8.0	768	256	10bit	2	USART / Int Osc / Nanowatt	PIC18F44K20-I/PT	SMD 143-9587	2.27	1.88	1.49
18F44J10	40	DIP	16 / 8.0	1024	0	10bit	2	USART / Int Osc	PIC18F44J10-I/P	SMD 133-2266	2.12	1.78	1.45
18F44J10	44	TQFP	16 / 8.0	1024	0	10bit	2	USART / Int Osc	PIC18F44J10-I/PT	SMD 133-2267	2.13	1.75	1.36
18F45J10	40	DIP	32 / 16	1024	0	10bit	2	USART / Int Osc	PIC18F45J10-I/P	SMD 133-2270	2.29	1.92	1.56
18F45J10	40	DIP	32 / 16	1024	0	10bit	2	USART / Int Osc	PIC18F45J10-I/P	SMD 133-2270	2.29	1.92	1.56
18F45J10	44	TQFP	32 / 16	1024	0	10bit	2	USART / Int Osc	PIC18F45J10-I/PT	SMD 133-2271	2.32	1.90	1.47
18F45J10	44	TQFP	32 / 16	1024	0	10bit	2	USART / Int Osc	PIC18F45J10-I/PT	SMD 133-2271	2.32	1.90	1.47
18F4520	40	DIP	32 / 16	1536	256	10bit	2	USART / Int Osc / Nanowatt	PIC18F4520-I/P	121-2702	3.85	3.13	2.41
18F4520	40	DIP	32 / 16	1536	256	10bit	2	USART / Int Osc / Nanowatt	PIC18LF4520-I/P	146-7813	4.05	3.29	2.53
18F4520	44	TQFP	32 / 16	1536	256	10bit	2	USART / Int Osc / Nanowatt	PIC18F4520-I/PT	SMD 121-2703	3.78	3.07	2.36
18F4520	44	QFN	32 / 16	1536	256	10bit	2	USART / Int Osc / Nanowatt	PIC18F4520-I/ML	SMD 121-2701	3.98	3.23	2.48
18LF4520	44	TQFP	32 / 16	1536	256	10bit	2	USART / Int Osc / Nanowatt	PIC18LF4520-I/PT	SMD 129-2278	3.96	3.22	2.48
18F4523	40	DIP	32 / 16	1536	256	12bit	2	USART / Int Osc / Nanowatt	PIC18F4523-I/P	SMD 133-2268	4.89	3.97	3.05
18F4523	44	TQFP	32 / 16	1536	256	12bit	2	USART / Int Osc / Nanowatt	PIC18F4523-I/PT	SMD 133-2269	4.79	3.89	3.00
18LF4523	40	PDIP	32 / 16	1536	256	12bit	2	USART / Int Osc / Nanowatt	PIC18LF4523-I/P	NEW 161-7323	5.14	4.17	3.20
18LF4523	44	TQFP	32 / 16	1536	256	12bit	2	USART / Int Osc / Nanowatt	PIC18LF4523-I/PT	NEW SMD 160-7939	5.04	4.09	3.15
18F45K20	40	PDIP	32 / 16	1536	256	10bit	2	USART / Int Osc / Nanowatt	PIC18F45K20-I/P	143-9588	2.53	2.10	1.66
18F45K20	44	TQFP	32 / 16	1536	256	10bit	2	USART / Int Osc / Nanowatt	PIC18F45K20-I/PT	SMD 143-9589	2.45	2.02	1.60
18F4580	40	DIP	32 / 16	1536	256	10bit	2	USART/Int Osc/ECAN	PIC18F4580-I/P	932-1373	5.82	4.73	3.64
18F4580	44	TQFP	32 / 16	1536	256	10bit	2	USART/Int Osc/ECAN	PIC18F4580-I/PT	SMD 932-1381	4.89	3.97	3.06
18F45K20	40	PDIP	32 / 16	1536	256	10bit	2	USART / Int Osc / Nanowatt	PIC18F45K20-I/P	143-9588	2.53	2.10	1.66
18F45K20	44	TQFP	32 / 16	1536	256	10bit	2	USART / Int Osc / Nanowatt	PIC18F45K20-I/PT	SMD 143-9589	2.45	2.02	1.60
18F4550	44	TQFP	32 / 16	2048	256	10bit	2	USART/SPI/I2C/USB	PIC18F4550-I/PT	SMD 932-1365	4.07	3.31	2.55
18F4550	44	QFN	32 / 16	2048	256	10bit	2	USART/SPI/I2C/USB	PIC18F4550-I/ML	SMD 129-2276	5.01	4.07	3.13
18F4585	40	PDIP	48 / 24	3328	1024	10bit	2	USART/Int Osc/ECAN	PIC18F4585-I/P	143-9547	6.61	5.37	4.13
18F4585	44	TQFP	48 / 24	3328	1024	10bit	2	USART/Int Osc/ECAN	PIC18F4585-I/PT	SMD 143-9548	6.52	5.30	4.08
18F4525	40	DIP	48 / 24	3986	1024	10bit	2	USART / Int Osc / Nanowatt	PIC18F4525-I/P	121-2717	5.09	4.14	3.18
18F4525	44	TQFP	48 / 24	3986	1024	10bit	2	USART / Int Osc / Nanowatt	PIC18F4525-I/PT	SMD 121-2718	4.26	3.46	2.66
18LF4525	40	DIP	48 / 24	3968	1024	10bit	2	USART / Int Osc / Nanowatt	PIC18LF4525-I/P	146-7814	4.55	3.70	2.85
18LF4525	44	TQFP	48 / 24	3986	1024	10bit	2	USART / Int Osc / Nanowatt	PIC18LF4525-I/PT	NEW SMD 155-6182	5.25	4.27	3.28
18F4610	40	DIP	64 / 32	3968	0	10bit	2	USART / Int Osc / Nanowatt	PIC18F4610-I/P	SMD 133-2273	5.41	4.39	3.38
18F4610	40	DIP	64 / 32	3968	0	10bit	2	USART / Int Osc / Nanowatt	PIC18F4610-I/P	SMD 133-2273	5.41	4.39	3.38
18F4620	40	DIP	64 / 32	3968	1024	10bit	2	USART / Int Osc / Nanowatt	PIC18F4620-I/P	121-2704	4.84	3.93	3.02
18F4620	40	DIP	64 / 32	3968	1024	10bit	2	USART / Int Osc / Nanowatt	PIC18F4620-I/P	121-2704	4.84	3.93	3.02
18F4620	44	TQFP	64 / 32	3968	1024	10bit	2	USART / Int Osc / Nanowatt	PIC18F4620-I/PT	SMD 121-2705	4.76	3.87	2.98
18F4620	44	QFN	64 / 32	3968	1024	10bit	2	USART / Int Osc / Nanowatt	PIC18F4620-I/ML	NEW SMD 155-6190	5.81	4.72	3.63
18F4620	44	TQFP	64 / 32	3968	1024	10bit	2	USART / Int Osc / Nanowatt	PIC18F4620-I/PT	SMD 121-2705	4.76	3.87	2.98
18LF4620	40	PDIP	64 / 32	3968	1024	10bit	2	USART / Int Osc / Nanowatt	PIC18LF4620-I/P	129-2280	5.95	4.84	3.72
18LF4620	44	TQFP	64 / 32	3968	1024	10bit	2	USART / Int Osc / Nanowatt	PIC18LF4620-I/PT	SMD 143-9748	5.87	4.76	3.66
18LF4620	44	QFN	64 / 32	3968	1024	10bit	2	USART / Int Osc / Nanowatt	PIC18LF4620-I/ML	NEW SMD 155-6183	6.09	4.95	3.81
18F4680	40	DIP	64 / 32	3368	1024	10bit	2	USART/Int Osc/ECAN	PIC18F4680-I/P	121-2706	5.95	4.84	3.72
18F4680	44	TQFP	64 / 32	3368	1024	10bit	2	USART/Int Osc/ECAN	PIC18F4680-I/PT	SMD 121-2707	5.87	4.77	3.67
18F46K20	40	PDIP	64 / 32	3936	1024	10bit	2	USART / Int Osc / Nanowatt	PIC18F46K20-I/P	143-9590	2.89	2.39	1.89
18F46K20	40	PDIP	64 / 32	3936	1024	10bit	2	USART / Int Osc / Nanowatt	PIC18F46K20-I/P	143-9590	2.89	2.39	1.89
18F46K20	44	TQFP	64 / 32	3936	1024	10bit	2	USART / Int Osc / Nanowatt	PIC18F46K20-I/PT	SMD 143-9591	2.80	2.32	1.83
18F46K20	44	TQFP	64 / 32	3936	1024	10bit	2	USART / Int Osc / Nanowatt	PIC18F46K20-I/PT	SMD 143-9591	2.80	2.32	1.83
18F46K20	44	TQFP	64 / 32	3936	1024	10bit	2	USART / Int Osc / Nanowatt	PIC18F46K20-E/PT	NEW NEW SMD 166-4862	3.12	2.58	2.04
18F46K20	44	QFN	64 / 32	3936	1024	10bit	2	USART / Int Osc / Nanowatt	PIC18F46K20-I/ML	NEW SMD 162-9787	3.03	2.51	1.98
18F46K20	44	QFN	64 / 32	3936	1024	10bit	2	USART / Int Osc / Nanowatt	PIC18F46K20-E/ML	NEW NEW SMD 166-4863	3.35	2.77	2.19
18F4685	40	DIP	96 / 48	3328	1024	10bit	2	USART/Int Osc/ECAN	PIC18F4685-I/P	133-2274	8.04	6.53	5.02
18F4685	44	TQFP	96 / 48	3328	1024	10bit	2	USART/Int Osc/ECAN	PIC18F4685-I/PT	SMD 133-2275	7.95	6.46	4.96



Microchip's High Pin Count 18F devices become even more competitive with the addition of the 'J' series .In addition, many parts now include Nanowatt technology which provides flexible power management features that give users the ability to design systems within extremely constrained power budgets.

	Pins	Package	P.Memory K bytes / K words	RAM (Bytes)	EEPROM (Bytes)	ADC	Comparator	Key Features	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
64 Pin													
18F6310	64	TQFP	8.0 / 4.0	768	0	10bit	2	2xUSART / Int Osc / Nanowatt	PIC18F6310-I/PT	SMD 133-2276	3.29	2.68	2.06
18LF6310	64	TQFP	8.0 / 4.0	768	0	10bit	2	2xUSART / Int Osc / Nanowatt	PIC18LF6310-I/PT	NEW SMD 151-8964	3.46	2.81	2.16
18F6410	64	TQFP	16 / 8.0	768	0	10bit	2	2xUSART / Int Osc / Nanowatt	PIC18F6410-I/PT	SMD 121-2719	3.20	2.60	2.00
18F64J11	64	TQFP	16 / 8.0	1024	0	10bit	2	2xUSART / Int Osc / Nanowatt	PIC18F64J11-I/PT	NEW SMD 157-9610	2.96	2.41	1.85
18F6520	64	TQFP	32 / 16	2048	1024	10bit	2	2xUSART	PIC18F6520-I/PT	SMD 976-2280	5.72	4.85	3.98
18LF6520	64	TQFP	32 / 16	2048	1024	10bit	2	2xUSART / Int Osc / Nanowatt	PIC18LF6520-I/PT	NEW SMD 157-9639	7.02	5.96	4.89
18F65J10	64	TQFP	32 / 16	2048	0	10bit	2	2xUSART/IntOsc	PIC18F65J10-I/PT	SMD 133-2280	2.93	2.39	1.85
18F65J11	64	TQFP	32 / 16	2048	0	10bit	2	2xUSART / Int Osc / Nanowatt	PIC18F65J11T-I/PT	SMD 143-9551	3.15	2.55	1.96
18F65J15	64	TQFP	48 / 24	2048	0	10bit	2	2xUSART / Int Osc / Nanowatt	PIC18F65J15-I/PT	NEW SMD 157-9611	3.09	2.51	1.93
18F6527	64	TQFP	48 / 24	3936	1024	10bit	2	2xUSART / Int Osc / Nanowatt	PIC18F6527-I/PT	SMD 133-2279	6.04	4.91	3.78
18LF6527	64	TQFP	48 / 24	3936	1024	10bit	2	2xUSART / Int Osc / Nanowatt	PIC18LF6527-I/PT	NEW SMD 157-9640	6.35	5.16	3.96
18F66J10	64	TQFP	64 / 32	2048	0	10bit	2	2xUSART/IntOsc	PIC18F66J10-I/PT	SMD 133-2281	3.26	2.65	2.04
18F66J11	64	TQFP	64 / 32	3930	0	10bit	2	2xUSART / Int Osc / Nanowatt	PIC18F66J11T-I/PT	SMD 143-9554	3.49	2.84	2.18
18F66J15	64	TQFP	96 / 48	3936	0	10bit	2	2xUSART / Int Osc / Nanowatt	PIC18F66J15-I/PT	NEW SMD 155-6181	3.40	2.77	2.13
18F6622	64	TQFP	64 / 32	3936	1024	10bit	2	2xUSART / Int Osc / Nanowatt	PIC18F6622-I/PT	NEW SMD 153-3995	6.68	5.43	4.18

RL Re-reeling available

Farnell

Microcontrollers and Microprocessors - 8/16/32-Bit - MICROCHIP - continued

Motor Control Pic18F High Performance 8 Bit Flash Microcontrollers - 10Mips - continued

	Pins	Package	P.Memory K bytes / K words	RAM (Bytes)	EEPROM (Bytes)	ADC	Comparator	Key Features	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
64 Pin													
18LF6622	64	TQFP	64 / 32	3936	1024	10bit	2	2xUSART / Int Osc / Nanowatt	PIC18LF6622-I/PT	NEW SMD 155-6184	7.02	5.70	4.38
18F6627	64	TQFP	96 / 48	3936	1024	10bit	2	2xUSART / Int Osc / Nanowatt	PIC18F6627-I/PT	SMD 875-2974	6.71	5.45	4.20
18F6628	64	TQFP	96 / 48	3936	1024	12bit	2	2xUSART / Int Osc / Nanowatt	PIC18F6628-I/PT	NEW SMD 154-8429	9.28	7.54	5.80
18LF6628	64	TQFP	96 / 48	3936	1024	12bit	2	2xUSART / Int Osc / Nanowatt	PIC18LF6628-I/PT	NEW SMD 154-8430	9.74	7.92	6.09
18F67J11	64	TQFP	128 / 64	3930	0	10bit	2	2xUSART / Int Osc / Nanowatt	PIC18F67J11T-I/PT	SMD 143-9557	3.88	3.15	2.42
18F67J10	64	TQFP	128 / 64	3936	0	10bit	2	2xUSART/IntOsc	PIC18F67J10-I/PT	SMD 133-2283	3.62	2.94	2.27
18F6722	64	TQFP	128 / 64	3936	1024	10bit	2	2xUSART / Int Osc / Nanowatt	PIC18F6722-I/PT	SMD 875-2966	7.65	6.21	4.78
18LF6722	64	TQFP	128 / 64	3936	1024	10bit	2	2xUSART / Int Osc / Nanowatt	PIC18LF6722-I/PT	SMD 143-9747	9.43	7.66	5.89
18F6723	64	TQFP	128 / 64	3936	1024	12bit	2	2xUSART / Int Osc / Nanowatt	PIC18F6723-I/PT	NEW SMD 154-8431	10.46	8.50	6.54
18LF6723	64	TQFP	128 / 64	3936	1024	12bit	2	2xUSART / Int Osc / Nanowatt	PIC18LF6723-I/PT	NEW SMD 154-8432	10.97	8.92	6.86
80 Pin													
18F8310	80	TQFP	8.0 / 4.0	768	0	10bit	2	2xUSART/IntOsc/Nanowatt	PIC18F8310-I/PT	SMD 133-2286	3.93	3.20	2.46
18F83J11	80	TQFP	8.0 / 4.0	1024	0	10bit	2	2xUSART/IntOsc/Nanowatt	PIC18F83J11-I/PT	SMD 143-9561	3.22	2.62	2.02
18F84J11	80	TQFP	16 / 8.0	1024	0	10bit	2	2xUSART/IntOsc/Nanowatt	PIC18F84J11-I/PT	SMD 143-9562	3.29	2.68	2.06
18F8520	80	TQFP	32 / 16	2048	1024	10bit	2	2xUSART	PIC18F8520-I/PT	SMD 976-2353	7.04	5.97	4.90
18F85J11	80	TQFP	32 / 16	2048	0	10bit	2	2xUSART/IntOsc/Nanowatt	PIC18F85J11-I/PT	SMD 143-9564	3.45	2.80	2.15
18F8527	80	TQFP	48 / 24	3936	1024	10bit	2	2xUSART/IntOsc/Nanowatt	PIC18F8527-I/PT	NEW SMD 161-7316	5.62	4.57	3.51
18F86J10	80	TQFP	64 / 32	2048	0	10bit	2	2xUSART/IntOsc	PIC18F86J10-I/PT	SMD 133-2288	3.59	2.92	2.25
18F86J11	80	TQFP	64 / 32	3930	0	10bit	2	2xUSART/IntOsc/Nanowatt	PIC18F86J11T-I/PT	SMD 143-9568	3.83	3.12	2.40
18F8622	80	TQFP	64 / 32	3936	1024	10bit	2	2xUSART/IntOsc/Nanowatt	PIC18F8622-I/PT	SMD 133-2287	7.24	5.88	4.52
18F8628	80	TQFP	96 / 48	1024	1024	12bit	2	2xUSART/IntOsc/Nanowatt	PIC18F8628-I/PT	NEW SMD 154-8433	9.87	8.02	6.17
18LF8628	80	TQFP	96 / 48	1024	1024	12bit	2	2xUSART/IntOsc/Nanowatt	PIC18LF8628-I/PT	NEW SMD 154-8434	10.36	8.42	6.48
18F8627	80	TQFP	96 / 48	3936	1024	10bit	2	2xUSART/IntOsc/Nanowatt	PIC18F8627-I/PT	SMD 875-2958	8.43	6.84	5.26
18F8723	80	TQFP	128 / 64	1024	1024	12bit	2	2xUSART/IntOsc/Nanowatt	PIC18F8723-I/PT	NEW SMD 154-8435	11.04	8.97	6.90
18LF8723	80	TQFP	128 / 64	1024	1024	12bit	2	2xUSART/IntOsc/Nanowatt	PIC18LF8723-I/PT	NEW SMD 154-8436	11.59	9.42	7.25
18F8722	80	TQFP	128 / 64	3936	1024	10bit	2	2xUSART/IntOsc/Nanowatt	PIC18F8722-I/PT	SMD 875-2940	8.12	6.60	5.07
18F8722	80	TQFP	128 / 64	3936	1024	10bit	2	2xUSART/IntOsc/Nanowatt	PIC18F8722-E/PT	NEW SMD 157-9613	10.47	8.51	6.54
18LF8722	80	TQFP	128 / 64	3936	1024	10bit	2	2xUSART/IntOsc/Nanowatt	PIC18LF8722-I/PT	NEW SMD 155-6195	10.00	8.13	6.25
18F87J10	80	TQFP	128 / 64	3936	0	10bit	2	2xUSART/IntOsc	PIC18F87J10-I/PT	SMD 133-2290	3.95	3.21	2.48
18F87J11	80	TQFP	128 / 64	3930	0	10bit	2	2xUSART/IntOsc/Nanowatt	PIC18F87J11T-I/PT	SMD 143-9570	4.22	3.43	2.64

Motor Control Pic18F High Performance 8 Bit Flash Microcontrollers - 10Mips



Specialised peripherals including Motor Control PWM, Enhanced Capture / Compare Modules and QEI provide this 18F family with the capability to control a wide range of motor types including Stepper, BLDC, AC Induction, Brushed DC and Switched Reluctance.

	Pins	Package	P.Memory K bytes / K words	RAM (Bytes)	EEPROM (Bytes)	ADC	Comparator	Key Features	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
18F1230	18	DIP	4.0 / 2.0	256	128	10bit	3	USART/ 6-MtrCtrl. PWM	PIC18F1230-I/P	SMD 133-2230	2.75	2.23	1.72
18F1230	18	SOIC	4.0 / 2.0	256	128	10bit	3	USART/ 6-MtrCtrl. PWM	PIC18F1230-I/SO	SMD 133-2231	2.66	2.16	1.66
18F1330	18	DIP	8.0 / 4.0	256	128	10bit	3	USART/ 6-MtrCtrl. PWM	PIC18F1330-I/P	132-4377	3.02	2.45	1.89
18F1330	18	SOIC	8.0 / 4.0	256	128	10bit	3	USART/ 6-MtrCtrl. PWM	PIC18F1330-I/SO	SMD 133-2232	2.93	2.38	1.83
18LF1330	18	SOIC	8.0 / 4.0	256	128	10bit	3	USART/ 6-MtrCtrl. PWM	PIC18LF1330-I/SO	NEW SMD 161-7317	3.08	2.50	1.92
18F1330	20	SSOP	8.0 / 4.0	256	128	10bit	3	USART/ 6-MtrCtrl. PWM	PIC18F1330-I/SS	SMD 132-4379	2.93	2.38	1.83
18F2331	28	SDIL	8.0 / 4.0	768	256	10bit	—	USART/6-MtrCtrl. PWM, 2xQEI	PIC18F2331-I/SP	121-2693	4.21	3.42	2.63
18F4331	40	DIP	8.0 / 4.0	768	256	10bit	—	USART/6-MtrCtrl. PWM, 2xQEI	PIC18F4331-I/P	113-7337	3.89	3.16	2.43
18F4331	44	TQFP	8.0 / 4.0	768	256	10bit	—	USART/6-MtrCtrl. PWM, 2xQEI	PIC18F4331-I/PT	SMD 976-2167	3.85	3.13	2.41
18F2431	28	SDIL	16 / 8.0	768	256	10bit	—	USART/6-MtrCtrl. PWM, 2xQEI	PIC18F2431-I/SP	108-4322	4.39	3.57	2.75
18F2431	28	SOIC	16 / 8.0	768	256	10bit	—	USART/6-MtrCtrl. PWM, 2xQEI	PIC18F2431-I/SO	SMD 113-7334	3.59	2.91	2.24
18LF2431	28	SOIC	16 / 8.0	768	256	10bit	—	USART/6-MtrCtrl. PWM, 2xQEI	PIC18LF2431-I/SO	NEW SMD 157-9620	4.42	3.59	2.76
18F4431	40	DIP	16 / 8.0	768	256	10bit	—	USART/6-MtrCtrl. PWM, 2xQEI	PIC18F4431-I/P	976-2191	4.76	3.87	2.98
18F4431	44	TQFP	16 / 8.0	768	256	10bit	—	USART/6-MtrCtrl. PWM, 2xQEI	PIC18F4431-E/PT	SMD 108-4344	4.43	3.60	2.77
18F4431	44	TQFP	16 / 8.0	768	256	10bit	—	USART/6-MtrCtrl. PWM, 2xQEI	PIC18F4431-I/PT	SMD 113-7346	4.02	3.27	2.52
18LF4431	40	PDIP	16 / 8.0	768	256	10bit	—	USART/6-MtrCtrl. PWM, 2xQEI	PIC18LF4431-I/P	NEW 157-9631	5.01	4.07	3.13
18LF4431	44	TQFP	16 / 8.0	768	256	10bit	—	USART/6-MtrCtrl. PWM, 2xQEI	PIC18LF4431-I/PT	NEW SMD 161-7322	4.96	4.03	3.10

USB Connectivity Pic18F High Performance 8 Bit Flash Microcontrollers - 10 Mips



A fully featured USB communications module supports both low speed and full speed (up to 12Mbits/sec) communication for all supported data transfer types. To ease development Microchip provide a selection of USB drivers via their website.

	Pins	Package	P.Memory K bytes / K words	RAM (Bytes)	EEPROM (Bytes)	ADC	Comparator	Key Features	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
18F14K50	20	PDIP	16 / 8.0	768	256	10bit	2	USART/SPI/I2C/USB	PIC18F14K50-I/P	NEW 164-8501	2.17	1.80	1.42
18F14K50	20	SOIC	16 / 8.0	768	256	10bit	2	USART/SPI/I2C/USB	PIC18F14K50-I/SO	NEW SMD 164-8502	2.13	1.76	1.40
18F14K50	20	SSOP	16 / 8.0	768	256	10bit	2	USART/SPI/I2C/USB	PIC18F14K50-I/SS	NEW SMD 164-8504	1.90	1.57	1.24
18F2450	28	SDIP	16 / 8.0	768	0	10bit	—	USART/USB	PIC18F2450-I/SP	129-2275	3.09	2.51	1.93
18F2450	28	SOIC	16 / 8.0	768	0	10bit	—	USART/USB	PIC18F2450-I/SO	SMD 133-2241	2.92	2.37	1.82
18LF2450	28	QFN	16 / 8.0	768	0	10bit	—	USART/USB	PIC18LF2450-I/ML	NEW SMD 157-9621	3.29	2.67	2.05
18F2455	28	SOIC	24 / 12	2048	256	10bit	2	USART/SPI/I2C/USB	PIC18F2455-I/SO	NEW SMD 157-9598	4.32	3.51	2.70
18F2455	28	SPDIP	24 / 12	2048	256	10bit	2	USART/SPI/I2C/USB	PIC18F2455-I/SP	NEW 157-9600	4.51	3.66	2.82
18LF2455	28	SOIC	24 / 12	2048	256	10bit	2	USART/SPI/I2C/USB	PIC18LF2455-I/SO	NEW SMD 157-9622	4.53	3.68	2.83
18LF2455	28	SPDIP	24 / 12	2048	256	10bit	2	USART/SPI/I2C/USB	PIC18LF2455-I/SP	NEW 157-9623	4.72	3.83	2.95
18F2458	28	SPDIP	24 / 12	2048	256	12bit	2	USART/SPI/I2C/USB	PIC18F2458-I/SP	NEW 161-7313	4.86	3.96	3.05
18F2553	28	SOIC	32 / 16	2048	256	12bit	2	USART/SPI/I2C/USB	PIC18F2553-I/SO	NEW SMD 157-9602	5.38	4.37	3.36
18F2553	28	SPDIP	32 / 16	2048	256	12bit	2	USART/SPI/I2C/USB	PIC18F2553-I/SP	NEW 157-9603	5.56	4.52	3.48
18LF2553	28	SOIC	32 / 16	2048	256	12bit	2	USART/SPI/I2C/USB	PIC18LF2553-I/SO	NEW SMD 161-7319	5.65	4.59	3.53
18LF2553	28	SPDIP	32 / 16	2048	256	12bit	2	USART/SPI/I2C/USB	PIC18LF2553-I/SP	NEW 157-9627	5.84	4.74	3.65
18F2550	28	SDIL	32 / 16	2048	256	10bit	2	USART/SPI/I2C/USB	PIC18F2550-I/SP	932-1250	4.00	3.25	2.50
18F2550	28	SOIC	32 / 16	2048	256	10bit	2	USART/SPI/I2C/USB	PIC18F2550-I/SO	SMD 932-1268	3.84	3.12	2.40
18F2550	28	SOIC	32 / 16	2048	256	10bit	2	USART/SPI/I2C/USB	PIC18LF2550-I/SO	NEW SMD 155-6193	4.74	3.84	2.95
18LF2550	28	SPDIP	32 / 16	2048	256	10bit	2	USART/SPI/I2C/USB	PIC18LF2550-I/SP	NEW 157-9626	4.91	3.99	3.07
18F4450	40	DIP	16 / 8.0	768	0	10bit	—	USART/USB	PIC18F4450-I/P	SMD 133-2264	3.22	2.62	2.02
18LF4450	40	PDIP	16 / 8.0	768	0	10bit	—	USART/USB	PIC18LF4450-I/P	NEW 157-9632	3.38	2.74	2.11
18F4450	44	TQFP	16 / 8.0	768	0	10bit	—	USART/USB	PIC18F4450-I/PT	SMD 133-2265	3.13	2.55	1.96
18F4458	40	PDIP	24 / 12	2048	256	12bit	2	USART/SPI/I2C/USB	PIC18F4458-I/P	NEW 157-9607	5.05	4.11	3.16
18F4455	40	DIP	24 / 12	2048	256	10bit	2	USART/SPI/I2C/USB	PIC18F4455-I/P	932-1314	4.69	3.81	2.93
18LF4455	40	PDIP	24 / 12	2048	256	10bit	2	USART/SPI/I2C/USB	PIC18LF4455-I/P	NEW 157-9633	4.92	4.00	3.08

	Pins	Package	P.Memory K bytes / K words	RAM (Bytes)	EEPROM (Bytes)	ADC	Comparator	Key Features	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
18F4455	44	TQFP	24 / 12	2048	256	10bit	2	USART/SPI/I2C/USB	PIC18F4455-I/PT	SMD 932-1322	3.91	3.18	2.45
18F4550	40	DIP	32 / 16	2048	256	10bit	2	USART/SPI/I2C/USB	PIC18F4550-I/P	932-1357	4.15	3.37	2.60
18F4550	44	TQFP	32 / 16	2048	256	10bit	2	USART/SPI/I2C/USB	PIC18F4550-I/PT	SMD 932-1365	4.07	3.31	2.55
18F4550	44	QFN	32 / 16	2048	256	10bit	2	USART/SPI/I2C/USB	PIC18F4550-I/ML	SMD 129-2276	5.01	4.07	3.13
18LF4550	44	TQFP	32 / 16	2048	256	10bit	2	USART/SPI/I2C/USB	PIC18LF4550-I/PT	SMD 129-2279	4.28	3.48	2.67
18LF4550	40	PDIP	32 / 16	2048	256	10bit	2	USART/SPI/I2C/USB	PIC18LF4550-I/P	NEW 155-6194	5.11	4.15	3.19
18F4553	40	PDIP	32 / 16	2048	256	12bit	2	USART/SPI/I2C/USB	PIC18F4553-I/P	NEW 157-9608	5.75	4.67	3.59
18F4553	44	TQFP	32 / 16	2048	256	12bit	2	USART/SPI/I2C/USB	PIC18F4553-I/PT	NEW SMD 161-7315	5.66	4.60	3.53
18LF4553	40	PDIP	32 / 16	2048	256	12bit	2	USART/SPI/I2C/USB	PIC18LF4553-I/P	NEW 157-9634	6.04	4.90	3.77
18LF4553	44	TQFP	32 / 16	2048	256	12bit	2	USART/SPI/I2C/USB	PIC18LF4553-I/PT	NEW SMD 157-9635	5.94	4.82	3.71
18F65J50	64	TQFP	32 / 16	3904	0	10bit	2	2xUSART/2xSPI/2xI2C/USB	PIC18F65J50-I/PT	SMD 143-9552	3.45	2.80	2.15
18F66J50	64	TQFP	64 / 32	3904	0	10bit	2	2xUSART/2xSPI/2xI2C/USB	PIC18F66J50-I/PT	SMD 143-9555	3.79	3.08	2.37
18F66J55	64	TQFP	96 / 48	3904	0	10bit	2	2xUSART/2xSPI/2xI2C/USB	PIC18F66J55-I/PT	SMD 143-9556	3.93	3.20	2.46
18F67J50	64	TQFP	128 / 64	3904	0	10bit	2	2xUSART/2xSPI/2xI2C/USB	PIC18F67J50-I/PT	SMD 143-9559	4.18	3.39	2.61
18F85J50	80	TQFP	32 / 16	3904	0	10bit	2	2xUSART/2xSPI/2xI2C/USB	PIC18F85J50-I/PT	SMD 143-9565	3.79	3.08	2.37
18F86J50	80	TQFP	64 / 32	3904	0	10bit	2	2xUSART/2xSPI/2xI2C/USB	PIC18F86J50-I/PT	SMD 143-9569	4.12	3.35	2.58
18F87J50	80	TQFP	128 / 64	3904	0	10bit	2	2xUSART/2xSPI/2xI2C/USB	PIC18F87J50-I/PT	SMD 143-9572	4.51	3.66	2.82

Ethernet Connectivity Pic18F High Performance 8 Bit Flash Microcontrollers - 10Mips



The 97J60 family is targeted at the embedded control market. The already feature rich 'J' device incorporate an Integrated Ethernet MAC and PHY, combined with Microchip's free TCP/IP software stack, a complete Ethernet solution is provided for adding remote monitoring and control to embedded applications.

	Pins	Package	P.Memory K bytes / K words	RAM (Bytes)	EEPROM (Bytes)	ADC	Comparator	Key Features	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
18F66J60	64	TQFP	64 / 32	3808	0	10bit	2	USART/SPI/I2C/ETHERNET	PIC18F66J60-I/PT	SMD 133-2282	4.39	3.57	2.75
18F66J65	64	TQFP	96 / 48	3808	0	10bit	2	USART/SPI/I2C/ETHERNET	PIC18F66J65-I/PT	NEW SMD 157-9612	4.56	3.71	2.85
18F67J60	64	TQFP	128 / 64	3936	0	10bit	2	USART/SPI/I2C/ETHERNET	PIC18F67J60-I/PT	SMD 133-2285	4.78	3.88	2.99
18F86J65	80	TQFP	96 / 48	3808	0	10bit	2	2xUSART/ETHERNET	PIC18F86J65-I/PT	NEW SMD 156-4571	4.89	3.97	3.05
18F87J60	80	TQFP	128 / 64	3808	0	10bit	2	2xUSART/ETHERNET	PIC18F87J60-I/PT	SMD 133-2291	5.12	4.16	3.20
18F96J65	100	TQFP	96 / 48	3808	0	10bit	2	2xUSART/ETHERNET	PIC18F96J65-I/PT	NEW SMD 156-4573	5.16	4.20	3.23
18F97J60	100	TQFP	128 / 64	3808	0	10bit	2	2xUSART/ETHERNET	PIC18F97J60T-I/PT	SMD 143-9573	5.45	4.43	3.40
18F97J60	100	TQFP	128 / 64	3808	0	10bit	2	2xUSART/ETHERNET	PIC18F97J60-I/PF	NEW SMD 157-9614	6.32	5.14	3.95

LCD Drive Pic18F High Performance 8 Bit Flash Microcontrollers - 10 Mips



On chip LCD driver control for between 128 and 192 LCD segments is added to these 18F parts, These parts can drive an LCD display even when asleep due to sophisticated power managed modes. Pins can also be used for general I/O purposes and analog peripherals.

	Pins	Package	P.Memory K bytes / K words	RAM (Bytes)	EEPROM (Bytes)	ADC	Comparator	Key Features	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
18F6390	64	TQFP	8.0 / 4.0	768	0	10bit	2	2xUSART/128-LCD/Nanowatt	PIC18F6390-I/PT	SMD 133-2277	3.48	2.83	2.17
18F63J90	64	TQFP	8.0 / 4.0	1024	0	10bit	2	2xUSART/132-LCD/Nanowatt	PIC18F63J90-I/PT	SMD 143-9549	3.08	2.50	1.92
18F6490	64	TQFP	16 / 8.0	768	0	10bit	2	2xUSART/128-LCD/Nanowatt	PIC18F6490-I/PT	SMD 133-2278	3.93	3.20	2.46
18F64J90	64	TQFP	16 / 8.0	1024	0	10bit	2	2xUSART/132-LCD/Nanowatt	PIC18F64J90-I/PT	SMD 143-9550	3.15	2.56	1.97
18F65J90	64	TQFP	32 / 16	2048	0	10bit	2	2xUSART/132-LCD/Nanowatt	PIC18F65J90-I/PT	SMD 143-9553	3.29	2.68	2.06
18F6393	64	TQFP	8.0 / 4.0	768	0	12bit	2	2xUSART/128-LCD/Nanowatt	PIC18F6393-I/PT	NEW SMD 154-8418	3.85	3.13	2.40
18F6493	64	TQFP	16 / 8.0	768	0	12bit	2	2xUSART/128-LCD/Nanowatt	PIC18F6493-I/PT	NEW SMD 154-8420	4.31	3.50	2.69
18LF6490	64	TQFP	16 / 8.0	768	0	10bit	2	2xUSART/128-LCD/Nanowatt	PIC18LF6490-I/PT	NEW SMD 157-9638	4.13	3.36	2.58
18F8490	80	TQFP	16 / 8.0	768	0	10bit	2	2xUSART/192-LCD/Nanowatt	PIC18F8490-I/PT	SMD 976-2345	4.58	3.72	2.86
18F84J90	80	TQFP	16 / 8.0	1024	0	10bit	2	2xUSART/192-LCD/Nanowatt	PIC18F84J90-I/PT	SMD 143-9563	3.49	2.84	2.19
18F85J90	80	TQFP	32 / 16	2048	0	10bit	2	2xUSART/192-LCD/Nanowatt	PIC18F85J90-I/PT	SMD 143-9566	3.62	2.94	2.27
18F8393	80	TQFP	8.0 / 4.0	768	0	12bit	2	2xUSART/192-LCD/Nanowatt	PIC18F8393-I/PT	NEW SMD 154-8422	4.49	3.65	2.80
18F8493	80	TQFP	16 / 8.0	768	0	12bit	2	2xUSART/192-LCD/Nanowatt	PIC18F8493-I/PT	NEW SMD 154-8424	4.95	4.02	3.09

Integrated CAN Pic18F High Performance 8 Bit Flash Microcontrollers - 10 Mips



The addition of the ECAN (Enhanced CAN) bus module and a LIN (Local Interface Network) compatible UART to these 18F devices provides a strong reason to consider these parts for Automotive applications or other areas where CAN or LIN is used.

	Pins	Package	P.Memory K bytes / K words	RAM (Bytes)	EEPROM (Bytes)	ADC	Comparator	Key Features	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
18F2480	28	SDIL	16 / 8.0	768	256	10bit	—	USART/Int Osc/ECAN	PIC18F2480-I/SP	932-1217	5.05	4.11	3.16
18F2480	28	SOIC	16 / 8.0	768	256	10bit	—	USART/Int Osc/ECAN	PIC18F2480-I/SO	SMD 932-1225	4.86	3.96	3.05
18F2480	28	QFN	16 / 8.0	768	256	10bit	—	USART/Int Osc/ECAN	PIC18F2480-I/ML	NEW SMD 155-6179	5.09	4.14	3.19
18F2580	28	SDIL	32 / 16	1536	256	10bit	—	USART/Int Osc/ECAN	PIC18F2580-I/SP	932-1276	5.64	4.58	3.53
18F2580	28	SOIC	32 / 16	1536	256	10bit	—	USART/Int Osc/ECAN	PIC18F2580-I/SO	SMD 932-1284	4.65	3.78	2.91
18F2580	28	QFN	32 / 16	1536	256	10bit	—	USART/Int Osc/ECAN	PIC18F2580-I/ML	NEW SMD 155-6180	5.68	4.62	3.56
18LF2580	28	SOIC	32 / 16	1536	256	10bit	—	USART/Int Osc/ECAN	PIC18LF2580-I/SO	NEW SMD 161-7320	5.74	4.66	3.58
18F2680	28	SOIC	64 / 32	3328	1024	10bit	—	USART/Int Osc/ECAN	PIC18F2680-I/SO	SMD 121-2699	6.61	5.37	4.13
18F2680	28	SDIL	64 / 32	3328	1024	10bit	—	USART/Int Osc/ECAN	PIC18F2680-I/SP	121-2700	6.79	5.52	4.25
18F2682	28	SOIC	80 / 40	3328	1024	10bit	—	USART/Int Osc/ECAN	PIC18F2682-I/SO	NEW SMD 157-9604	7.20	5.85	4.50
18F2685	28	SOIC	96 / 48	3328	1024	10bit	—	USART/Int Osc/ECAN	PIC18F2685-I/SO	SMD 133-2252	7.67	6.23	4.79
18F2685	28	DIP	96 / 48	3328	1024	10bit	—	USART/Int Osc/ECAN	PIC18F2685-I/SP	SMD 133-2253	7.85	6.38	4.91
18LF2685	28	SPDIP	96 / 48	3328	1024	10bit	—	USART/Int Osc/ECAN	PIC18LF2685-I/SP	NEW 157-9628	8.24	6.69	5.15
18F2685	28	SOIC	96 / 48	3328	1024	10bit	—	USART/Int Osc/ECAN	PIC18F2685-E/SO	NEW SMD 161-7314	8.44	6.86	5.27
18F2685	28	SPDIP	96 / 48	3328	1024	10bit	—	USART/Int Osc/ECAN	PIC18F2685-E/SP	NEW 157-9606	8.63	7.01	5.39
18F4480	40	DIP	16 / 8.0	768	256	10bit	2	USART/Int Osc/ECAN	PIC18F4480-I/P	932-1330	5.24	4.26	3.28
18F4480	44	TQFP	16 / 8.0	768	256	10bit	2	USART/Int Osc/ECAN	PIC18F4480-I/PT	SMD 932-1349	4.39	3.57	2.74
18F4580	40	DIP	32 / 16	1536	256	10bit	2	USART/Int Osc/ECAN	PIC18F4580-I/P	932-1373	5.82	4.73	3.64
18F4580	44	TQFP	32 / 16	1536	256	10bit	2	USART/Int Osc/ECAN	PIC18F4580-I/PT	SMD 932-1381	4.89	3.97	3.06
18F4585	40	PDIP	48 / 24	3328	1024	10bit	2	USART/Int Osc/ECAN	PIC18F4585-I/P	143-9547	6.61	5.37	4.13
18F4585	44	TQFP	48 / 24	3328	1024	10bit	2	USART/Int Osc/ECAN	PIC18F4585-I/PT	SMD 143-9548	6.52	5.30	4.08
18F4680	40	DIP	64 / 32	3368	1024	10bit	2	USART/Int Osc/ECAN	PIC18F4680-I/P	121-2706	5.95	4.84	3.72
18F4680	44	TQFP	64 / 32	3368	1024	10bit	2	USART/Int Osc/ECAN	PIC18F4680-I/PT	SMD 121-2707	5.87	4.77	3.67
18LF4680	40	PDIP	64 / 32	3368	1024	10bit	2	USART/Int Osc/ECAN	PIC18LF4680-I/P	NEW 157-9636	7.32	5.95	4.58
18F4682	40	PDIP	80 / 40	3328	1024	10bit	2	USART/Int Osc/ECAN	PIC18F4682-I/P	NEW 157-9609	7.57	6.15	4.73
18F4685	40	DIP	96 / 48	3328	1024	10bit	2	USART/Int Osc/ECAN	PIC18F4685-I/P	133-2274	8.04	6.53	5.02

RL Re-reeling available

Microcontrollers and Microprocessors - 8/16/32-Bit - MICROCHIP - continued

Motor Control Pic18F High Performance 8 Bit Flash Microcontrollers - 10Mips - continued

	Pins	Package	P.Memory K bytes / K words	RAM (Bytes)	EEPROM (Bytes)	ADC	Comparator	Key Features	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
18F4685	44	TQFP	96 / 48	3328	1024	10bit	2	USART/Int Osc/ECAN	PIC18F4685-I/PT	SMD 133-2275	7.95	6.46	4.96
18LF4685	40	PDIP	96 / 48	3328	1024	10bit	2	USART/Int Osc/ECAN	PIC18LF4685-I/P	NEW 157-9637	8.44	6.86	5.27
18F6585	64	TQFP	48 / 24	3840	1024	10bit	2	USART/Int Osc/ECAN	PIC18F6585-I/PT	SMD 108-4323	6.89	5.84	4.80
18F6680	64	TQFP	64 / 32	3328	1024	10bit	2	USART/Int Osc/ECAN	PIC18F6680-I/PT	SMD 976-2329	7.39	6.27	5.15
18F8585	80	TQFP	48 / 24	3072	1024	10bit	2	USART/Int Osc/ECAN	PIC18F8585-I/PT	SMD 121-2708	8.48	7.19	5.90
18F8680	80	TQFP	64 / 32	3328	256	10bit	2	USART/Int Osc/ECAN	PIC18F8680-I/PT	SMD 113-7339	9.04	7.67	6.29

16 Bit Flash Microcontrollers



Microchip offers two 16-bit Microcontroller (MCU) families plus two 16-bit Digital Signal Controller (DSC) families that give you compatible options across a wide spectrum of price, performance and feature sets. Common attributes among all 16-bit MCU and DSC families are pinouts, software, peripherals and development tools. Whether your design requires the lowest-priced 16-bit solution, the most powerful 16-bit MCU in the industry, or DSP capability, Microchip offers a broad range of products while preserving the compatibility that help save you time and money on subsequent designs.

- On-Chip Oscillator
- Reliable Watchdog Timer
- On Chip System Clock Monitor
- Extended Temperature Variants
- High Current I/O
- Power Save Modes
- Low Jitter PLL
- On Chip Power - on Reset and Brown Out Reset

486031

dsPic30F 16 Bit Flash Digital Signal Controllers - 30 Mips - Vdd 2.5v - 5.5v

General Purpose Family



The dsPIC 30F General Purpose family is ideal for a wide variety of 16 bit embedded applications. Variants with codec interfaces are well suited to speech and audio applications.

	Pins	Package	P.Memory K bytes	RAM (Bytes)	EEPROM (Bytes)	ADC	Key Features	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
30F3014	40	DIP	24	2048	1024	12bit	2xUART/SPI/I2C	DSPIC30F3014-30I/P	133-2029	5.06	4.12	3.17
30F3014	40	PDIP	24	2048	1024	12bit	2xUART/SPI/I2C	DSPIC30F3014-20I/P	NEW 162-1779	5.06	4.12	3.17
30F3014	44	TQFP	24	2048	1024	12bit	2xUART/SPI/I2C	DSPIC30F3014-30I/PT	NEW SMD 162-1780	4.98	4.04	3.11
30F4013	40	DIP	48	2048	1024	12bit	2xUART/SPI/I2C/AC97/CAN	DSPIC30F4013-30I/P	143-9599	5.48	4.45	3.43
30F4013	40	DIP	48	2048	1024	12bit	2xUART/SPI/I2C/AC97/CAN	DSPIC30F4013-20I/P	143-9755	5.48	4.45	3.43
30F4013	44	TQFP	48	2048	1024	12bit	2xUART/SPI/I2C	DSPIC30F4013-20E/PT	NEW SMD 162-1781	5.92	4.81	3.71
30F5011	64	TQFP	66	4096	1024	12bit	2xUART/SPI/I2C/AC97/2xCAN	DSPIC30F5011-20I/PTG	SMD 771-1484	5.83	4.73	3.64
30F5011	64	TQFP	66	4096	1024	12bit	2xUART/SPI/I2C/AC97/2xCAN	DSPIC30F5011-30I/PTG	SMD 771-1492	6.12	4.97	3.82
30F5013	80	TQFP	66	4096	1024	12bit	2xUART/SPI/I2C/AC97/2xCAN	DSPIC30F5013-30I/PT	SMD 143-9600	7.88	6.41	4.93
30F6011A	64	TQFP	132	6144	2048	12bit	2xUART/SPI/I2C/2xCAN	DSPIC30F6011A-30I/PT	SMD 133-2033	9.50	7.72	5.94
30F6013A	80	TQFP	132	6144	2048	12bit	2xUART/SPI/I2C/2xCAN	DSPIC30F6013A-30I/PT	SMD 133-2035	9.84	8.00	6.15
30F6012A	64	TQFP	144	8192	4096	12bit	2xUART/2xSPI/I2C/AC97/2xCAN	DSPIC30F6012A-30I/PT	SMD 133-2034	9.58	7.79	5.99
30F6014A	80	TQFP	144	8192	4096	12bit	2xUART/2xSPI/I2C/AC97/2xCAN	DSPIC30F6014A-30I/PF	SMD 129-2231	10.83	8.80	6.77
30F6014A	80	TQFP	144	8192	4096	12bit	2xUART/2xSPI/I2C/AC97/2xCAN	DSPIC30F6014A-30I/PT	SMD 133-2036	9.97	8.10	6.24

Sensor Family



The dsPic30F Sensor family have features designed to support high-performance , cost sensitive and space constrained applications with packages as small as 6x6mm and with pin counts as low as 18.

	Pins	Package	P.Memory K bytes	RAM (Bytes)	EEPROM (Bytes)	ADC	Key Features	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
30F2011	18	QFN	12	1024	—	12bit	UART/SPI/I2C	DSPIC30F2011-20I/ML	SMD 938-5851	3.73	3.03	2.33
30F2011	18	DIP	12	1024	—	12bit	UART/SPI/I2C	DSPIC30F2011-30I/P	133-2022	3.52	2.86	2.20
30F2011	18	SOIC	12	1024	—	12bit	UART/SPI/I2C	DSPIC30F2011-30I/SO	SMD 133-2023	3.43	2.79	2.15
30F2011	18	DIP	12	1024	—	12bit	UART/SPI/I2C	DSPIC30F2011-20I/P	938-5860	3.00	2.44	1.88
30F2011	18	SOIC	12	1024	—	12bit	UART/SPI/I2C	DSPIC30F2011-20I/SO	SMD 938-5878	2.93	2.38	1.83
30F2012	28	QFN	12	1024	—	12bit	UART/SPI/I2C	DSPIC30F2012-20I/ML	SMD 938-5886	3.71	3.01	2.32
30F2012	28	SDIL	12	1024	—	12bit	UART/SPI/I2C	DSPIC30F2012-20I/SP	938-5894	3.75	3.04	2.34
30F2012	28	SOIC	12	1024	—	12bit	UART/SPI/I2C	DSPIC30F2012-20I/SO	SMD 938-5908	3.58	2.90	2.23
30F2012	28	SOIC	12	1024	—	12bit	UART/SPI/I2C	DSPIC30F2012-30I/SO	SMD 133-2024	3.58	2.90	2.23
30F2012	28	DIP	12	1024	—	12bit	UART/SPI/I2C	DSPIC30F2012-30I/SP	133-2025	3.75	3.04	2.34
30F3012	18	DIP	24	2048	1024	12bit	UART/SPI/I2C	DSPIC30F3012-30I/P	143-9596	4.21	3.42	2.63
30F3012	18	SOIC	24	2048	1024	12bit	UART/SPI/I2C	DSPIC30F3012-30I/SO	SMD 143-9597	4.12	3.35	2.58
30F3013	28	SPDIP	24	2048	1024	12bit	2xUART/SPI/I2C	DSPIC30F3013-30I/SP	143-9754	4.43	3.60	2.77

Power Supply and Digital Power Conversion Family



The dsPIC 30F Digital Power Conversion Family supports applications such as SMPS, induction cooking, UPS, Inverter, PFC correction and digital control loops. These devices contain 1ns resolution PWMs and very high speed onboard ADCs.

	Pins	Package	P.Memory K bytes	RAM (Bytes)	EEPROM (Bytes)	ADC	Key Features	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
30F1010	28	DIP	6	256	—	10bit	UART/SPI/I2C/4-MtrCtrl. PWM	DSPIC30F1010-30I/SP	129-7280	4.32	3.51	2.70
30F1010	28	SOIC	6	256	—	10bit	UART/SPI/I2C/4-MtrCtrl. PWM	DSPIC30F1010-30I/SO	SMD 133-2021	4.09	3.33	2.57
30F2020	28	DIP	12	512	—	10bit	UART/SPI/I2C/8-MtrCtrl. PWM	DSPIC30F2020-30I/SP	129-7281	5.48	4.46	3.43
30F2020	28	SOIC	12	512	—	10bit	UART/SPI/I2C/8-MtrCtrl. PWM	DSPIC30F2020-30I/SO	SMD 133-2026	5.25	4.27	3.30
30F2023	44	QFN	12	512	—	10bit	UART/SPI/I2C/8-MtrCtrl. PWM	DSPIC30F2023-30I/ML	SMD 129-7282	5.99	4.87	3.75
30F2023	44	TQFP	12	512	—	10bit	UART/SPI/I2C/8-MtrCtrl. PWM	DSPIC30F2023-30I/PT	SMD 133-2027	5.82	4.74	3.65

RL Re-reeling available

Farnell

Motor Control and Power Conversion Family



In addition to motor control applications this family is also well suited to UPS, Inverter and PFC applications.

486030

	Pins	Package	P.Memory K bytes	RAM (Bytes)	EEPROM (Bytes)	ADC	Key Features	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
30F2010	28	DIP	12	512	1024	10bit	UART/SPI/I2C/6-MtrCtrl. PWM, QEI	DSPIC30F2010-30I/SPG	731-4957	3.49	2.83	2.18
30F2010	28	SOIC	12	512	1024	10bit	UART/SPI/I2C/6-MtrCtrl. PWM, QEI	DSPIC30F2010-30I/SOG	SMD 731-4973	3.34	2.71	2.09
30F2010	28	SPDIP	12	512	1024	10bit	UART/SPI/I2C/6-MtrCtrl. PWM, QEI	DSPIC30F2010-20I/SP	146-6066	3.92	3.18	2.45
30F3010	28	SOIC	24	1024	1024	10bit	UART/SPI/I2C/6-MtrCtrl. PWM QEI	DSPIC30F3010-30I/SO	SMD 143-9593	4.63	3.77	2.90
30F3010	28	SPDIP	24	1024	1024	10bit	UART/SPI/I2C/6-MtrCtrl. PWM QEI	DSPIC30F3010-30I/SP	143-9594	4.81	3.91	3.00
30F4012	28	SOIC	48	2048	1024	10bit	UART/SPI/I2C/CAN/6-MtrCtrl. PWM QEI	DSPIC30F4012-20I/SO	SMD 129-4852	5.12	4.16	3.20
30F4012	28	DIL	48	2048	1024	10bit	UART/SPI/I2C/CAN/6-MtrCtrl. PWM QEI	DSPIC30F4012-20I/SP	129-4853	5.29	4.30	3.30
30F4012	28	SOIC	48	2048	1024	10bit	UART/SPI/I2C/CAN/6-MtrCtrl. PWM QEI	DSPIC30F4012-30I/SO	SMD 129-4855	5.12	4.16	3.20
30F4012	28	DIP	48	2048	1024	10bit	UART/SPI/I2C/CAN/6-MtrCtrl. PWM QEI	DSPIC30F4012-30I/SP	129-4856	5.29	4.30	3.30
30F4011	40	DIP	48	2048	1024	10bit	2xUART/SPI/I2C/CAN/6-MtrCtrl. PWM QEI	DSPIC30F4011-30I/P	143-9598	5.61	4.56	3.51
30F4011	44	QFN	48	2048	1024	10bit	2xUART/SPI/I2C/CAN/6-MtrCtrl. PWM QEI	DSPIC30F4011-20I/ML	SMD 143-9752	5.68	4.62	3.56
30F5015	64	TQFP	66	2048	1024	10bit	UART/SPI/I2C/CAN/8-MtrCtrl. PWM QEI	DSPIC30F5015-30I/PT	SMD 133-2031	6.98	5.68	4.37
30F6015	64	TQFP	144	8192	4096	10bit	2xUART/SPI/I2C/CAN/8-MtrCtrl. PWM QEI	DSPIC30F6015-30I/PT	SMD 129-4835	8.43	6.85	5.27
30F6010A	80	TQFP	144	8192	4096	10bit	2xUART/SPI/I2C/2xCAN/8-MtrCtrl. PWM, QEI	DSPIC30F6010A-30I/PT	SMD 133-2032	10.14	8.24	6.34

See the **Dataman PIKPro** PC based 40-pin PICmicro series programmer on page 124

dsPic33F 16 Bit Flash Digital Signal Controllers - 40 Mips Vdd 3.0v - 3.6v

General Purpose Family



The 40 MIPS dsPic33F family is developed for high performance embedded control applications, compared to the dsPIC30F family, the dsPIC33F family offers larger RAM and Flash memory options and adds DMA.

	Pins	Package	P.Memory K bytes	RAM (Bytes)	EEPROM (Bytes)	ADC	Key Features	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
33FJ12GP201	18	PDIP	12	1024	—	10/12bit	UART/SPI/I2C	DSPIC33FJ12GP201-I/P	143-9602	2.70	2.23	1.76
33FJ12GP201	18	SOIC	12	1024	—	10/12bit	UART/SPI/I2C	DSPIC33FJ12GP201-I/SO	SMD 143-9604	2.60	2.15	1.70
33FJ12GP202	28	SOIC	12	1024	—	10/12bit	UART/SPI/I2C	DSPIC33FJ12GP202-I/SO	SMD 143-9605	3.02	2.49	1.97
33FJ12GP202	28	SPDIP	12	1024	—	10/12bit	UART/SPI/I2C	DSPIC33FJ12GP202-I/SP	143-9606	3.19	2.64	2.08
33FJ16GP304	44	QFN	16	2048	—	10/12bit	1xUART/1xSPI/1xI2C	DSPIC33FJ16GP304-I/ML	NEW SMD 157-6907	3.55	2.94	2.32
33FJ16GP304	44	TQFP	16	2048	—	10/12bit	1xUART/1xSPI/1xI2C	DSPIC33FJ16GP304-I/PT	NEW SMD 157-6908	3.39	2.80	2.22
33FJ32GP202	28	QFN-S	32	2048	—	10/12bit	1xUART/1xSPI/1xI2C	DSPIC33FJ32GP202-I/MM	NEW SMD 157-6911	3.43	2.84	2.25
33FJ32GP202	28	SOIC	32	2048	—	10/12bit	1xUART/1xSPI/1xI2C	DSPIC33FJ32GP202-I/SO	NEW SMD 157-6912	3.29	2.72	2.15
33FJ32GP202	28	PDIP	32	2048	—	10/12bit	1xUART/1xSPI/1xI2C	DSPIC33FJ32GP202-I/SP	NEW 157-6913	3.46	2.86	2.27
33FJ32GP204	44	QFN	32	2048	—	10/12bit	1xUART/1xSPI/1xI2C	DSPIC33FJ32GP204-I/ML	NEW SMD 157-6915	3.65	3.02	2.38
33FJ32GP204	44	TQFP	32	2048	—	10/12bit	1xUART/1xSPI/1xI2C	DSPIC33FJ32GP204-I/PT	NEW SMD 157-6916	3.49	2.88	2.27
33FJ32GP302	28	QFN	32	4096	—	10/12bit	2xUART/2xSPI/1xI2C	DSPIC33FJ32GP302-I/MM	NEW SMD 157-6812	3.85	3.18	2.52
33FJ32GP302	28	SOIC	32	4096	—	10/12bit	2xUART/2xSPI/1xI2C	DSPIC33FJ32GP302-I/SO	NEW SMD 157-6813	3.71	3.07	2.43
33FJ32GP302	28	PDIP	32	4096	—	10/12bit	2xUART/2xSPI/1xI2C	DSPIC33FJ32GP302-I/SP	NEW 157-6814	3.89	3.22	2.54
33FJ32GP304	44	QFN	32	4096	—	10/12bit	2xUART/2xSPI/1xI2C	DSPIC33FJ32GP304-I/ML	NEW SMD 157-6815	4.19	3.46	2.73
33FJ32GP304	44	TQFP	32	4096	—	10/12bit	2xUART/2xSPI/1xI2C	DSPIC33FJ32GP304-I/PT	NEW SMD 157-6816	4.03	3.33	2.63
33FJ64GP202	28	QFN	64	8192	—	10/12bit	2xUART/2xSPI/1xI2C	DSPIC33FJ64GP202-I/MM	NEW SMD 157-6822	4.31	3.56	2.82
33FJ64GP202	28	SOIC	64	8192	—	10/12bit	2xUART/2xSPI/1xI2C	DSPIC33FJ64GP202-I/SO	NEW SMD 157-6824	4.16	3.44	2.73
33FJ64GP202	28	PDIP	64	8192	—	10/12bit	2xUART/2xSPI/1xI2C	DSPIC33FJ64GP202-I/SP	NEW 157-6825	4.35	3.59	2.84
33FJ64GP204	44	QFN	64	8192	—	10/12bit	2xUART/2xSPI/1xI2C	DSPIC33FJ64GP204-I/ML	NEW SMD 157-6826	4.63	3.83	3.03
33FJ64GP204	44	TQFP	64	8192	—	10/12bit	2xUART/2xSPI/1xI2C	DSPIC33FJ64GP204-I/PT	NEW SMD 157-6827	4.48	3.71	2.93
33FJ64GP802	28	QFN	64	16384	—	10/12bit	2xUART/2xSPI/1xI2C/1xECAN	DSPIC33FJ64GP802-I/MM	NEW SMD 157-6828	4.95	4.10	3.24
33FJ64GP802	28	SOIC	64	16384	—	10/12bit	2xUART/2xSPI/1xI2C/1xECAN	DSPIC33FJ64GP802-I/SO	NEW SMD 157-6829	4.82	3.98	3.15
33FJ64GP802	28	PDIP	64	16384	—	10/12bit	2xUART/2xSPI/1xI2C/1xECAN	DSPIC33FJ64GP802-I/SP	NEW 157-6830	4.99	4.13	3.26
33FJ64GP804	44	QFN	64	16384	—	10/12bit	2xUART/2xSPI/1xI2C/1xECAN	DSPIC33FJ64GP804-I/ML	NEW SMD 157-6831	5.29	4.37	3.45
33FJ64GP804	44	TQFP	64	16384	—	10/12bit	2xUART/2xSPI/1xI2C/1xECAN	DSPIC33FJ64GP804-I/PT	NEW SMD 157-6832	5.14	4.25	3.35
33FJ128GP202	28	SOIC	128	8192	—	10/12bit	2xUART/2xSPI/I2C	DSPIC33FJ128GP202-I/SO	SMD 151-0862	4.52	3.74	2.95
33FJ128GP202	28	SPDIP	128	8192	—	10/12bit	2xUART/2xSPI/I2C	DSPIC33FJ128GP202-I/SP	151-0863	4.69	3.88	3.07
33FJ128GP204	44	TQFP	128	8192	—	10/12bit	2xUART/2xSPI/I2C	DSPIC33FJ128GP204-I/PT	SMD 151-0864	4.84	4.00	3.16
33FJ64GP206	64	TQFP	64	8192	—	10/12bit	2xUART/2xSPI/I2C	DSPIC33FJ64GP206-I/PT	SMD 129-4843	4.55	3.76	2.98
33FJ64GP306	64	TQFP	64	16384	—	10/12bit	2xUART/2xSPI/2xI2C	DSPIC33FJ64GP306-I/PT	SMD 129-4844	4.76	3.94	3.11
33FJ64GP310	100	TQFP	64	16384	—	10/12bit	2xUART/2xSPI/2xI2C	DSPIC33FJ64GP310-I/PT	SMD 133-2047	5.64	4.66	3.68
33FJ64GP706	64	TQFP	64	16384	—	10/12bit	2xUART/2xSPI/2xI2C/2xECAN	DSPIC33FJ64GP706-I/PT	SMD 129-4845	5.52	4.56	3.61
33FJ64GP708	80	TQFP	64	16384	—	10/12bit	2xUART/2xSPI/2xI2C/2xECAN	DSPIC33FJ64GP708-I/PT	SMD 129-4846	5.89	4.87	3.86
33FJ64GP710	100	TQFP	64	16384	—	10/12bit	2xUART/2xSPI/2xI2C/2xECAN	DSPIC33FJ64GP710-I/PT	SMD 133-2048	6.39	5.29	4.18
33FJ128GP206	64	TQFP	128	8192	—	10/12bit	2xUART/2xSPI/I2C	DSPIC33FJ128GP206-I/PT	SMD 129-4836	4.85	4.01	3.17
33FJ128GP202	28	QFN-S	128	8192	—	10/12bit	2xUART/2xSPI/1xI2C	DSPIC33FJ128GP202-I/MM	NEW SMD 157-6796	4.66	3.86	3.05
33FJ128GP204	44	QFN	128	8192	—	10/12bit	2xUART/2xSPI/1xI2C	DSPIC33FJ128GP204-I/ML	NEW SMD 157-6797	4.99	4.13	3.26
33FJ128GP306	64	TQFP	128	16384	—	10/12bit	2xUART/2xSPI/I2C	DSPIC33FJ128GP306-I/PT	SMD 129-4837	5.06	4.18	3.30
33FJ128GP706	64	TQFP	128	16384	—	10/12bit	2xUART/2xSPI/I2C/2xECAN	DSPIC33FJ128GP706-I/PT	SMD 116-2016	4.95	4.09	3.24
33FJ128GP708	80	TQFP	128	16384	—	10/12bit	2xUART/2xSPI/I2C/2xECAN	DSPIC33FJ128GP708-I/PT	SMD 129-4838	6.19	5.12	4.05
33FJ128GP310	100	TQFP	128	16384	—	10/12bit	2xUART/2xSPI/1xI2C	DSPIC33FJ128GP310-I/PT	SMD 133-2037	5.92	4.90	3.87
33FJ128GP710	100	TQFP	128	16384	—	10/12bit	2xUART/2xSPI/I2C/2xECAN	DSPIC33FJ128GP710-I/PT	SMD 133-2038	6.69	5.53	4.37
33FJ256GP506	64	TQFP	256	16384	—	10/12bit	2xUART/2xSPI/2xI2C/ECAN	DSPIC33FJ256GP506-I/PT	SMD 129-4841	4.74	3.92	3.10
33FJ256GP510	100	TQFP	256	16384	—	10/12bit	2xUART/2xSPI/2xI2C/ECAN	DSPIC33FJ256GP510-I/PT	SMD 133-2042	6.44	5.33	4.21
33FJ128GP802	28	QFN-S	128	16384	—	10/12bit	2xUART/2xSPI/1xI2C	DSPIC33FJ128GP802-I/MM	NEW SMD 157-6798	5.31	4.39	3.47
33FJ128GP802	28	SOIC	128	16384	—	10/12bit	2xUART/2xSPI/1xI2C	DSPIC33FJ128GP802-I/SO	NEW SMD 157-6799	5.16	4.27	3.38
33FJ128GP802	28	PDIP	128	16384	—	10/12bit	2xUART/2xSPI/1xI2C	DSPIC33FJ128GP802-I/SP	NEW 157-6801	5.34	4.41	3.49
33FJ128GP804	44	QFN	128	16384	—	10/12bit	2xUART/2xSPI/1xI2C	DSPIC33FJ128GP804-I/ML	NEW SMD 157-6802	5.62	4.65	3.68
33FJ128GP804	44	TQFP	128	16384	—	10/12bit	2xUART/2xSPI/1xI2C	DSPIC33FJ128GP804-I/PT	NEW SMD 157-6803	5.46	4.52	3.57
33FJ256GP710	100	TQFP	256	32768	—	10/12bit	2xUART/2xSPI/2xI2C/2xECAN	DSPIC33FJ256GP710-I/PT	SMD 133-2043	7.28	6.02	4.76
33FJ128GP802	28	DIP	128	16384	—	10/12bit	UART, SPI, I2C, CAN	DSPIC33FJ128GP802-E/SP	167-6257	5.87	4.85	3.83
33FJ256GP710	100	TQFP	256	32768	—	10/12bit	2xUART/2xSPI/2xI2C/2xECAN	DSPIC33FJ256GP710-I/PF	SMD 143-9611 NEW	8.15	6.74	5.34

Motor Control and Power Conversion Family

RL Re-reeling available

Microcontrollers and Microprocessors - 8/16/32-Bit - MICROCHIP - continued

dsPic33F 16 Bit Flash Digital Signal Controllers - 40 Mips Vdd 3.0v - 3.6v - continued

Motor Control and Power Conversion Family - continued



In addition to motor control applications this family is also well suited to UPS, Inverter and PFC applications.

	Pins	Package	P.Memory K bytes	RAM (Bytes)	EEPROM (Bytes)	ADC	Key Features
33FJ12MC201	20	PDIP	12	1024	—	10/12bit	UART/SPI/I2C/8-MtrCtrl. PWM, QEI
33FJ12MC201	20	SOIC	12	1024	—	10/12bit	UART/SPI/I2C/8-MtrCtrl. PWM, QEI
33FJ12MC202	28	SOIC	12	1024	—	10/12bit	UART/SPI/I2C/8-MtrCtrl. PWM, QEI
33FJ12MC202	28	SPDIP	12	1024	—	10/12bit	UART/SPI/I2C/8-MtrCtrl. PWM, QEI
33FJ12MC202	28	SSOP	12	1024	—	10/12bit	1xUART/1xSPI/1xI2C
33FJ16MC304	44	QFN	16	2048	—	10/12bit	1xUART/1xSPI/1xI2C
33FJ16MC304	44	TQFP	16	2048	—	10/12bit	1xUART/1xSPI/1xI2C
33FJ32MC202	28	QFN-S	32	2048	—	10/12bit	1xUART/1xSPI/1xI2C
33FJ32MC202	28	SOIC	32	2048	—	10/12bit	1xUART/1xSPI/1xI2C
33FJ32MC202	28	PDIP	32	2048	—	10/12bit	1xUART/1xSPI/1xI2C
33FJ32MC204	44	QFN	32	2048	—	10/12bit	1xUART/1xSPI/1xI2C
33FJ32MC204	44	TQFP	32	2048	—	10/12bit	1xUART/1xSPI/1xI2C
33FJ32MC302	28	QFN	32	4096	—	10/12bit	2xUART/2xSPI/1xI2C
33FJ32MC302	28	SOIC	32	4096	—	10/12bit	2xUART/2xSPI/1xI2C
33FJ32MC302	28	PDIP	32	4096	—	10/12bit	2xUART/2xSPI/1xI2C
33FJ32MC304	44	QFN	32	4096	—	10/12bit	2xUART/2xSPI/1xI2C
33FJ128MC202	28	SOIC	128	8192	—	10/12bit	2xUART/2xSPI/I2C/8-MtrCtrl.PWM , QEI
33FJ128MC202	28	SPDIP	128	8192	—	10/12bit	2xUART/2xSPI/I2C/8-MtrCtrl.PWM , QEI
33FJ128MC204	44	TQFP	128	8192	—	10/12bit	2xUART/2xSPI/I2C/8-MtrCtrl.PWM , QEI
33FJ64MC506	64	TQFP	64	8192	—	10/12bit	2xUART/2xSPI/2xI2C/ECAN/8-MtrCtrl. PWM, QEI
33FJ64MC706	64	TQFP	64	16384	—	10/12bit	2xUART/2xSPI/2xI2C/ECAN/8-MtrCtrl. PWM, QEI
33FJ64MC510	100	TQFP	64	8192	—	10/12bit	2xUART/2xSPI/2xI2C/ECAN/8-MtrCtrl. PWM, QEI
33FJ64MC710	100	TQFP	64	16384	—	10/12bit	2xUART/2xSPI/2xI2C/2xECAN/8-MtrCtrl. PWM, QEI
33FJ64MC202	28	QFN	64	8192	—	10/12bit	2xUART/2xSPI/1xI2C
33FJ64MC202	28	QFN	64	8192	—	10/12bit	2xUART/2xSPI/1xI2C
33FJ64MC202	28	PDIP	64	8192	—	10/12bit	2xUART/2xSPI/1xI2C
33FJ64MC204	44	QFN	64	8192	—	10/12bit	2xUART/2xSPI/1xI2C
33FJ64MC204	44	TQFP	64	8192	—	10/12bit	2xUART/2xSPI/1xI2C
33FJ64MC802	28	QFN	64	16384	—	10/12bit	2xUART/2xSPI/1xI2C/1xECAN
33FJ64MC802	28	SOIC	64	16384	—	10/12bit	2xUART/2xSPI/1xI2C/1xECAN
33FJ64MC802	28	PDIP	64	16384	—	10/12bit	2xUART/2xSPI/1xI2C/1xECAN
33FJ64MC804	44	QFN	64	16384	—	10/12bit	2xUART/2xSPI/1xI2C/1xECAN
33FJ64MC804	44	TQFP	64	16384	—	10/12bit	2xUART/2xSPI/1xI2C/1xECAN
33FJ128MC506	64	TQFP	128	8192	—	10/12bit	2xUART/2xSPI/2xI2C/ECAN/8-MtrCtrl. PWM, QEI
33FJ128MC510	100	TQFP	128	8192	—	10/12bit	2xUART/2xSPI/2xI2C/ECAN/8-MtrCtrl. PWM, QEI
33FJ128MC202	28	QFN-S	128	8192	—	10/12bit	2xUART/2xSPI/1xI2C
33FJ128MC204	44	QFN	128	8192	—	10/12bit	2xUART/2xSPI/1xI2C
33FJ128MC706	64	TQFP	128	16384	—	10/12bit	2xUART/2xSPI/2xI2C/ECAN/8-MtrCtrl. PWM, QEI
33FJ128MC708	80	TQFP	128	16384	—	10/12bit	2xUART/2xSPI/2xI2C/ECAN/8-MtrCtrl. PWM, QEI
33FJ128MC710	100	TQFP	128	16384	—	10/12bit	2xUART/2xSPI/2xI2C/2xECAN/8-MtrCtrl. PWM, QEI
33FJ128MC802	28	QFN-S	128	16384	—	10/12bit	2xUART/2xSPI/1xI2C/1xECAN
33FJ128MC802	28	SOIC	128	16384	—	10/12bit	2xUART/2xSPI/1xI2C/1xECAN
33FJ128MC802	28	PDIP	128	16384	—	10/12bit	2xUART/2xSPI/1xI2C/1xECAN
33FJ128MC804	44	QFN	128	16384	—	10/12bit	2xUART/2xSPI/1xI2C/1xECAN
33FJ128MC804	44	TQFP	128	16384	—	10/12bit	2xUART/2xSPI/1xI2C/1xECAN
33FJ128MC802	28	DIP	128	16384	—	10/12bit	UART, SPI, I2C, CAN
33FJ256MC510	100	TQFP	256	16384	—	10/12bit	2xUART/2xSPI/2xI2C/ECAN/8-MtrCtrl. PWM, QEI
33FJ256MC710	100	TQFP	256	32768	—	10/12bit	2xUART/2xSPI/2xI2C/2xECAN/8-MtrCtrl. PWM, QEI
33FJ256MC710	100	TQFP	256	32768	—	10/12bit	2xUART/2xSPI/2xI2C/2xECAN/8-MtrCtrl. PWM, QEI

486032

Mftrs. List No.	Order Code	Price Each 1+	10+	100+
DSPIC33FJ12MC201-I/P	143-9607	3.05	2.52	1.99
DSPIC33FJ12MC201-I/SO	SMD 143-9608	2.88	2.37	1.87
DSPIC33FJ12MC202-I/SO	SMD 143-9609	3.13	2.59	2.05
DSPIC33FJ12MC202-I/SP	143-9610	3.36	2.78	2.20
DSPIC33FJ12MC202-I/SS	NEW SMD 157-6906	3.10	2.56	2.02
DSPIC33FJ16MC304-I/ML	NEW SMD 157-6909	3.66	3.03	2.39
DSPIC33FJ16MC304-I/PT	NEW SMD 157-6910	3.50	2.90	2.29
DSPIC33FJ32MC202-I/MM	NEW SMD 157-6917	3.38	2.79	2.21
DSPIC33FJ32MC202-I/SO	NEW SMD 157-6918	3.23	2.68	2.12
DSPIC33FJ32MC202-I/SP	NEW 157-6919	3.42	2.83	2.23
DSPIC33FJ32MC204-I/ML	NEW SMD 157-6920	3.75	3.10	2.45
DSPIC33FJ32MC204-I/PT	NEW SMD 157-6921	3.59	2.97	2.35
DSPIC33FJ32MC302-I/MM	NEW SMD 157-6817	3.88	3.20	2.53
DSPIC33FJ32MC302-I/SO	NEW SMD 157-6818	3.73	3.09	2.44
DSPIC33FJ32MC302-I/SP	NEW 157-6819	3.91	3.23	2.55
DSPIC33FJ32MC304-I/ML	NEW SMD 157-6820	4.21	3.48	2.75
DSPIC33FJ128MC202-I/SO	SMD 151-0865	4.53	3.75	2.96
DSPIC33FJ128MC202-I/SP	151-0866	4.71	3.89	3.08
DSPIC33FJ128MC204-I/PT	SMD 151-0867	4.85	4.01	3.17
DSPIC33FJ64MC506-I/PT	SMD 129-4848	4.92	4.07	3.22
DSPIC33FJ64MC706-I/PT	SMD 129-4850	5.38	4.45	3.51
DSPIC33FJ64MC510-I/PT	SMD 133-2049	5.79	4.79	3.79
DSPIC33FJ64MC710-I/PT	SMD 133-2050	6.48	5.36	4.23
DSPIC33FJ64MC202-I/MM	NEW SMD 157-6833	4.32	3.57	2.83
DSPIC33FJ64MC202-I/SO	NEW SMD 157-6834	4.19	3.46	2.73
DSPIC33FJ64MC202-I/SP	NEW 157-6836	4.36	3.61	2.85
DSPIC33FJ64MC204-I/ML	NEW SMD 157-6837	4.66	3.86	3.05
DSPIC33FJ64MC204-I/PT	NEW SMD 157-6838	4.51	3.72	2.94
DSPIC33FJ64MC802-I/MM	NEW SMD 157-6839	4.78	3.95	3.13
DSPIC33FJ64MC802-I/SO	NEW SMD 157-6840	4.63	3.83	3.03
DSPIC33FJ64MC802-I/SP	NEW 157-6842	4.82	3.98	3.15
DSPIC33FJ64MC804-I/ML	NEW SMD 157-6843	5.11	4.22	3.34
DSPIC33FJ64MC804-I/PT	NEW SMD 157-6844	4.95	4.10	3.24
DSPIC33FJ128MC506-I/PT	SMD 129-4839	5.22	4.32	3.41
DSPIC33FJ128MC510-I/PT	SMD 133-2039	6.09	5.04	3.98
DSPIC33FJ128MC202-I/MM	NEW SMD 157-6804	4.68	3.87	3.05
DSPIC33FJ128MC204-I/ML	NEW SMD 157-6805	5.01	4.14	3.28
DSPIC33FJ128MC706-I/PT	SMD 116-2017	4.84	4.00	3.16
DSPIC33FJ128MC708-I/PT	SMD 129-4840	6.28	5.19	4.11
DSPIC33FJ128MC710-I/PT	SMD 133-2040	6.78	5.60	4.43
DSPIC33FJ128MC802-I/MM	NEW SMD 157-6806	5.14	4.25	3.35
DSPIC33FJ128MC802-I/SO	NEW SMD 157-6807	4.99	4.13	3.26
DSPIC33FJ128MC802-I/SP	NEW 157-6808	5.16	4.27	3.38
DSPIC33FJ128MC804-I/ML	NEW SMD 157-6809	5.64	4.66	3.68
DSPIC33FJ128MC804-I/PT	NEW SMD 157-6810	5.48	4.53	3.58
DSPIC33FJ128MC802-E/SP	167-6256 NEW	5.68	4.69	3.71
DSPIC33FJ256MC510-I/PT	SMD 133-2044	6.54	5.40	4.27
DSPIC33FJ256MC710-I/PF	SMD 133-2045	8.27	6.83	5.40
DSPIC33FJ256MC710-I/PT	NEW SMD 133-2046	7.40	6.11	4.83

Pic24F 16 Bit Flash Microcontrollers - 16 Mips - Vdd 2.0v - 3.6v



With 16 MIPS performance and an extensive peripheral set, the PIC24F MCUs are a highly cost effective solution for all but the most demanding 16 bit applications. The Pic24F also offers an easy migration path for design engineers whose applications have outgrown the performance offered by 8-bit MCUs.

	Pins	Package	P.Memory K bytes	RAM (Bytes)	EEPROM (Bytes)	ADC	Key Features
24FJ32GA002	28	SOIC	32	8192	—	10bit	2xUART/2xSPI/2xI2C/PMP
24FJ32GA002	28	DIP	32	8192	—	10bit	2xUART/2xSPI/2xI2C/PMP
24FJ32GA004	44	TQFP	32	8192	—	10bit	2xUART/2xSPI/2xI2C/PMP
24FJ64GA002	28	SOIC	64	8192	—	10bit	2xUART/2xSPI/2xI2C/PMP
24FJ64GA002	28	DIP	64	8192	—	10bit	2xUART/2xSPI/2xI2C/PMP
24FJ64GA004	44	TQFP	64	8192	—	10bit	2xUART/2xSPI/2xI2C/PMP
24FJ64GA006	64	TQFP	64	8192	—	10bit	2xUART/2xSPI/2xI2C/PMP
24FJ64GA008	80	TQFP	64	8192	—	10bit	2xUART/2xSPI/2xI2C/PMP
24FJ64GA010	100	TQFP	64	8192	—	10bit	2xUART/2xSPI/2xI2C/PMP
24FJ64GB106	64	TQFP	64	16384	—	10bit	4xUART/3xSPI/3xI2C
24FJ64GB108	80	TQFP	64	16384	—	10bit	4xUART/3xSPI/3xI2C
24FJ64GB110	100	TQFP	64	16384	—	10bit	4xUART/3xSPI/3xI2C
24FJ64GB110	100	TQFP	64	16384	—	10bit	4xUART/3xSPI/3xI2C
24FJ96GA006	64	TQFP	96	8192	—	10bit	2xUART/2xSPI/2xI2C/PMP
24FJ96GA008	80	TQFP	96	8192	—	10bit	2xUART/2xSPI/2xI2C/PMP
24FJ96GA010	100	TQFP	96	8192	—	10bit	2xUART/2xSPI/2xI2C/PMP
24FJ128GA006	64	TQFP	128	8192	—	10bit	2xUART/2xSPI/2xI2C/PMP
24FJ128GA008	80	TQFP	128	8192	—	10bit	2xUART/2xSPI/2xI2C/PMP
24FJ128GA010	100	TQFP	128	8192	—	10bit	2xUART/2xSPI/2xI2C/PMP
24FJ128GA010	100	TQFP	128	8192	—	10bit	2xUART/2xSPI/2xI2C/PMP
24FJ128GA106	64	TQFP	128	16384	—	10bit	4xUART/3xSPI/3xI2C
24FJ128GA108	80	TQFP	128	16384	—	10bit	4xUART/3xSPI/3xI2C
24FJ128GA110	100	TQFP	128	16384	—	10bit	4xUART/3xSPI/3xI2C
24FJ128GA110	100	TQFP	128	16384	—	10bit	4xUART/3xSPI/3xI2C
24FJ128GB106	64	TQFP	128	16384	—	10bit	4xUART/3xSPI/3xI2C
24FJ128GB108	80	TQFP	128	16384	—	10bit	4xUART/3xSPI/3xI2C

486033

Mftrs. List No.	Order Code	Price Each 1+	10+	100+
PIC24FJ32GA002-I/SO	SMD 133-2293	2.60	2.15	1.70
PIC24FJ32GA002-I/SP	133-2294	2.79	2.30	1.82
PIC24FJ32GA004-I/PT	SMD 133-2295	2.88	2.37	1.87
PIC24FJ64GA002-I/SO	SMD 133-2297	3.13	2.59	2.05
PIC24FJ64GA002-I/SP	133-2298	3.30	2.73	2.16
PIC24FJ64GA004-I/PT	SMD 133-2299	3.39	2.80	2.22
PIC24FJ64GA006-I/PT	SMD 114-6524	3.26	2.69	2.13
PIC24FJ64GA008-I/PT	SMD 114-6525	4.13	3.42	2.70
PIC24FJ64GA010-I/PF	SMD 114-6526	5.26	4.36	3.45
PIC24FJ64GB106-I/PT	NEW SMD 157-6873	4.55	3.76	2.98
PIC24FJ64GB108-I/PT	NEW SMD 157-6874	4.89	4.04	3.19
PIC24FJ64GB110-I/PF	NEW SMD 157-6875	6.02	4.98	3.93
PIC24FJ64GB110-I/PT	NEW SMD 157-6876	5.15	4.26	3.36
PIC24FJ96GA006-I/PT	SMD 114-6528	3.96	3.28	2.59
PIC24FJ96GA008-I/PT	SMD 114-6529	4.29	3.55	2.80
PIC24FJ96GA010-I/PF	SMD 114-6530	5.42	4.48	3.55
PIC24FJ128GA006-I/PT	SMD 114-6519	3.57	2.95	2.33
PIC24FJ128GA008-I/PT	SMD 114-6521	4.51	3.72	2.94
PIC24FJ128GA010-I/PF	SMD 114-6522	5.64	4.66	3.68
PIC24FJ128GA010-I/PT	SMD 114-6523	4.76	3.94	3.11
PIC24FJ128GA106-I/PT	NEW SMD 157-6845	4.45	3.68	2.90
PIC24FJ128GA108-I/PT	NEW SMD 157-6846	4.78	3.95	3.13
PIC24FJ128GA110-I/PF	NEW SMD 157-6848	5.92	4.90	3.87
PIC24FJ128GA110-I/PT	NEW SMD 157-6849	5.05	4.17	3.30
PIC24FJ128GB106-I/PT	NEW SMD 157-6850	4.92	4.07	3.22
PIC24FJ128GB108-I/PT	NEW SMD 157-6851	5.25	4.34	3.43

RL Re-reeling available

	Pins	Package	P.Memory K bytes	RAM (Bytes)	EEPROM (Bytes)	ADC	Key Features	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
24FJ128GB110	100	TQFP	128	16384	—	10bit	4xUART/3xSPI/3xI2C	PIC24FJ128GB110-I/PF	NEW SMD 157-6852	6.39	5.29	4.18
24FJ128GB110	100	TQFP	128	16384	—	10bit	4xUART/3xSPI/3xI2C	PIC24FJ128GB110-I/PT	NEW SMD 157-6853	5.52	4.56	3.61
24FJ192GA106	64	TQFP	192	16384	—	10bit	4xUART/3xSPI/3xI2C	PIC24FJ192GA106-I/PT	NEW SMD 157-6854	4.71	3.89	3.08
24FJ192GA108	80	TQFP	192	16384	—	10bit	4xUART/3xSPI/3xI2C	PIC24FJ192GA108-I/PT	NEW SMD 157-6855	5.05	4.17	3.30
24FJ192GA110	100	TQFP	192	16384	—	10bit	4xUART/3xSPI/3xI2C	PIC24FJ192GA110-I/PF	NEW SMD 157-6856	6.18	5.11	4.04
24FJ192GA110	100	TQFP	192	16384	—	10bit	4xUART/3xSPI/3xI2C	PIC24FJ192GA110-I/PT	NEW SMD 157-6857	5.31	4.39	3.47
24FJ192GB106	64	TQFP	192	16384	—	10bit	4xUART/3xSPI/3xI2C	PIC24FJ192GB106-I/PT	NEW SMD 157-6858	5.18	4.28	3.39
24FJ192GB108	80	TQFP	192	16384	—	10bit	4xUART/3xSPI/3xI2C	PIC24FJ192GB108-I/PT	NEW SMD 157-6861	5.52	4.56	3.61
24FJ192GB110	100	TQFP	192	16384	—	10bit	4xUART/3xSPI/3xI2C	PIC24FJ192GB110-I/PF	NEW SMD 157-6862	6.65	5.50	4.35
24FJ192GB110	100	TQFP	192	16384	—	10bit	4xUART/3xSPI/3xI2C	PIC24FJ192GB110-I/PT	NEW SMD 157-6863	5.78	4.78	3.78
24FJ256GA106	64	TQFP	256	16384	—	10bit	4xUART/3xSPI/3xI2C	PIC24FJ256GA106-I/PT	NEW SMD 157-6864	4.98	4.11	3.25
24FJ256GA108	80	TQFP	256	16384	—	10bit	4xUART/3xSPI/3xI2C	PIC24FJ256GA108-I/PT	NEW SMD 157-6865	5.31	4.39	3.47
24FJ256GA110	100	TQFP	256	16384	—	10bit	4xUART/3xSPI/3xI2C	PIC24FJ256GA110-I/PF	NEW SMD 157-6866	6.44	5.33	4.21
24FJ256GA110	100	TQFP	256	16384	—	10bit	4xUART/3xSPI/3xI2C	PIC24FJ256GA110-I/PT	NEW SMD 157-6867	5.56	4.60	3.64
24FJ256GB106	64	TQFP	256	16384	—	10bit	4xUART/3xSPI/3xI2C	PIC24FJ256GB106-I/PT	NEW SMD 157-6868	5.45	4.51	3.56
24FJ256GB108	80	TQFP	256	16384	—	10bit	4xUART/3xSPI/3xI2C	PIC24FJ256GB108-I/PT	NEW SMD 157-6869	5.78	4.78	3.78
24FJ256GB110	100	TQFP	256	16384	—	10bit	4xUART/3xSPI/3xI2C	PIC24FJ256GB110-I/PF	NEW SMD 157-6870	6.91	5.71	4.52
24FJ256GB110	100	TQFP	256	16384	—	10bit	4xUART/3xSPI/3xI2C	PIC24FJ256GB110-I/PT	NEW SMD 157-6871	6.04	4.99	3.95

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Pic24HJ 16 Bit Flash Microcontrollers - 40 Mips - Vdd 3.0 - 3.6v



The PIC24H offers 40 MIPs performance, more memory and additional peripherals. The PIC24H family adds up to 2 CAN communication modules and a user - selectable 10/12 bit ADC. Integrated DMA (Direct Access Memory) between peripherals and dual-port RAM provides zero overhead data transfers.

486034

	Pins	Package	P.Memory K bytes	RAM (Bytes)	EEPROM (Bytes)	ADC	Key Features	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
24HJ12GP201	18	PDIP	12	1024	—	10/12bit	UART/SPI/I2C	PIC24HJ12GP201-I/P	143-9612	2.70	2.23	1.76
24HJ12GP201	18	SOIC	12	1024	—	10/12bit	UART/SPI/I2C	PIC24HJ12GP201-I/SO	SMD 143-9614	2.60	2.15	1.70
24HJ12GP202	28	SOIC	12	1024	—	10/12bit	UART/SPI/I2C	PIC24HJ12GP202-I/SO	SMD 143-9615	2.83	2.34	1.85
24HJ12GP202	28	SPDIP	12	1024	—	10/12bit	UART/SPI/I2C	PIC24HJ12GP202-I/SP	143-9616	3.02	2.49	1.97
24HJ12GP202	28	SSOP	12	1024	—	10/12bit	UART/SPI/I2C	PIC24HJ12GP202-I/SS	NEW SMD 157-6885	2.80	2.32	1.83
24HJ16GP304	44	QFN	16	2048	—	10/12bit	UART/SPI/I2C	PIC24HJ16GP304-I/ML	NEW SMD 157-6924	3.18	2.63	2.07
24HJ16GP304	44	TQFP	16	2048	—	10/12bit	UART/SPI/I2C	PIC24HJ16GP304-I/PT	NEW SMD 157-6925	3.02	2.50	1.97
24HJ32GP202	28	QFN	32	2048	—	10/12bit	UART/SPI/I2C	PIC24HJ32GP202-I/MM	NEW SMD 157-6927	3.13	2.59	2.05
24HJ32GP202	28	SOIC	32	2048	—	10/12bit	UART/SPI/I2C	PIC24HJ32GP202-I/SO	NEW SMD 157-6928	3.00	2.49	1.97
24HJ32GP202	28	SPDIP	32	2048	—	10/12bit	UART/SPI/I2C	PIC24HJ32GP202-I/SP	NEW 157-6929	3.18	2.63	2.07
24HJ32GP204	44	QFN	32	2048	—	10/12bit	UART/SPI/I2C	PIC24HJ32GP204-I/ML	NEW SMD 157-6930	3.35	2.77	2.19
24HJ32GP204	44	TQFP	32	2048	—	10/12bit	UART/SPI/I2C	PIC24HJ32GP204-I/PT	NEW SMD 157-6931	3.20	2.65	2.10
24HJ32GP302	28	QFN	32	4096	—	10/12bit	2xUART/2xSPI/I2C	PIC24HJ32GP302-I/MM	NEW SMD 157-6886	3.59	2.97	2.35
24HJ32GP302	28	SOIC	32	4096	—	10/12bit	2xUART/2xSPI/I2C	PIC24HJ32GP302-I/SO	NEW SMD 157-6887	3.45	2.85	2.25
24HJ32GP302	28	SPDIP	32	4096	—	10/12bit	2xUART/2xSPI/I2C	PIC24HJ32GP302-I/SP	NEW 157-6888	3.62	2.99	2.37
24HJ32GP304	44	QFN	32	4096	—	10/12bit	2xUART/2xSPI/I2C	PIC24HJ32GP304-I/ML	NEW SMD 157-6889	3.68	3.04	2.40
24HJ32GP304	44	TQFP	32	4096	—	10/12bit	2xUART/2xSPI/I2C	PIC24HJ32GP304-I/PT	NEW SMD 157-6890	3.53	2.92	2.31
24HJ64GP202	28	QFN	64	4096	—	10/12bit	2xUART/2xSPI/I2C	PIC24HJ64GP202-I/MM	NEW SMD 157-6891	4.05	3.35	2.65
24HJ64GP202	28	SOIC	64	4096	—	10/12bit	2xUART/2xSPI/I2C	PIC24HJ64GP202-I/SO	NEW SMD 157-6892	3.91	3.23	2.55
24HJ64GP202	28	SPDIP	64	4096	—	10/12bit	2xUART/2xSPI/I2C	PIC24HJ64GP202-I/SP	NEW 157-6893	4.08	3.37	2.67
24HJ64GP204	44	QFN	64	4096	—	10/12bit	2xUART/2xSPI/I2C	PIC24HJ64GP204-I/ML	NEW SMD 157-6894	4.36	3.61	2.85
24HJ64GP204	44	TQFP	64	4096	—	10/12bit	2xUART/2xSPI/I2C	PIC24HJ64GP204-I/PT	NEW SMD 157-6895	4.21	3.48	2.75
24HJ64GP206	64	TQFP	64	8192	—	10/12bit	2xUART/2xSPI/2xI2C	PIC24HJ64GP206-I/PT	SMD 114-6548	3.68	3.05	2.41
24HJ64GP210	100	TQFP	64	8192	—	10/12bit	2xUART/2xSPI/2xI2C	PIC24HJ64GP210-I/PF	SMD 114-6549	6.11	5.05	3.99
24HJ64GP502	28	QFN	64	4096	—	10/12bit	2xUART/2xSPI/1xI2C/1xECAN	PIC24HJ64GP502-I/MM	NEW SMD 157-6897	4.31	3.56	2.82
24HJ64GP502	28	SOIC	64	4096	—	10/12bit	2xUART/2xSPI/1xI2C/1xECAN	PIC24HJ64GP502-I/SO	NEW SMD 157-6898	4.16	3.44	2.73
24HJ64GP502	28	SPDIP	64	4096	—	10/12bit	2xUART/2xSPI/1xI2C/1xECAN	PIC24HJ64GP502-I/SP	NEW 157-6899	4.35	3.59	2.84
24HJ64GP504	44	QFN	64	4096	—	10/12bit	2xUART/2xSPI/1xI2C/1xECAN	PIC24HJ64GP504-I/ML	NEW SMD 157-6900	4.63	3.83	3.03
24HJ64GP504	44	TQFP	64	4096	—	10/12bit	2xUART/2xSPI/1xI2C/1xECAN	PIC24HJ64GP504-I/PT	NEW SMD 157-6901	4.48	3.71	2.93
24HJ64GP506	64	TQFP	64	8192	—	10/12bit	2xUART/2xSPI/2xI2C/ECAN	PIC24HJ64GP506-I/PT	SMD 114-6551	4.61	3.81	3.01
24HJ64GP510	100	TQFP	64	8192	—	10/12bit	2xUART/2xSPI/2xI2C/ECAN	PIC24HJ64GP510-I/PT	SMD 114-6553	5.46	4.52	3.57
24HJ128GP202	28	SOIC	128	8192	—	10/12bit	2xUART/2xSPI/I2C	PIC24HJ128GP202-I/SO	SMD 151-0868	4.31	3.56	2.82
24HJ128GP202	28	SPDIP	128	8192	—	10/12bit	2xUART/2xSPI/I2C	PIC24HJ128GP202-I/SP	151-0869	4.48	3.71	2.93
24HJ128GP202	28	QFN-S	128	8192	—	10/12bit	2xUART/2xSPI/I2C	PIC24HJ128GP202-I/MM	NEW SMD 157-6877	4.45	3.68	2.90
24HJ128GP204	44	QFN	128	8192	—	10/12bit	2xUART/2xSPI/I2C	PIC24HJ128GP204-I/ML	NEW SMD 157-6878	4.76	3.94	3.11
24HJ128GP204	44	TQFP	128	8192	—	10/12bit	2xUART/2xSPI/I2C	PIC24HJ128GP204-I/PT	SMD 151-0870	4.61	3.81	3.01
24HJ128GP206	64	TQFP	128	8192	—	10/12bit	2xUART/2xSPI/2xI2C	PIC24HJ128GP206-I/PT	SMD 114-6533	3.98	3.29	2.60
24HJ128GP210	100	TQFP	128	8192	—	10/12bit	2xUART/2xSPI/2xI2C	PIC24HJ128GP210-I/PF	SMD 114-6534	6.34	5.24	4.14
24HJ128GP210	100	TQFP	128	8192	—	10/12bit	2xUART/2xSPI/2xI2C	PIC24HJ128GP210-I/PT	SMD 114-6535	5.46	4.52	3.57
24HJ128GP306	64	TQFP	128	16384	—	10/12bit	2xUART/2xSPI/2xI2C	PIC24HJ128GP306-I/PT	SMD 114-6536	4.79	3.96	3.13
24HJ128GP310	100	TQFP	128	16384	—	10/12bit	2xUART/2xSPI/2xI2C	PIC24HJ128GP310-I/PF	SMD 114-6537	6.49	5.37	4.25
24HJ128GP310	100	TQFP	128	16384	—	10/12bit	2xUART/2xSPI/2xI2C	PIC24HJ128GP310-I/PT	SMD 114-6538	5.62	4.65	3.68
24HJ128GP502	28	QFN-S	128	8192	—	10/12bit	2xUART/2xSPI/1xI2C/1xECAN	PIC24HJ128GP502-I/MM	NEW SMD 157-6879	4.71	3.89	3.08
24HJ128GP502	28	SOIC	128	8192	—	10/12bit	2xUART/2xSPI/1xI2C/1xECAN	PIC24HJ128GP502-I/SO	NEW SMD 157-6880	4.56	3.78	2.99
24HJ128GP502	28	SPDIP	128	8192	—	10/12bit	2xUART/2xSPI/1xI2C/1xECAN	PIC24HJ128GP502-I/SP	NEW 157-6881	4.75	3.93	3.10
24HJ128GP504	44	QFN	128	8192	—	10/12bit	2xUART/2xSPI/1xI2C/1xECAN	PIC24HJ128GP504-I/ML	NEW SMD 157-6882	5.01	4.14	3.28
24HJ128GP504	44	TQFP	128	8192	—	10/12bit	2xUART/2xSPI/1xI2C/1xECAN	PIC24HJ128GP504-I/PT	NEW SMD 157-6883	4.85	4.01	3.17
24HJ128GP506	64	TQFP	128	8192	—	10/12bit	2xUART/2xSPI/2xI2C/ECAN	PIC24HJ128GP506-I/PT	SMD 114-6539	4.91	4.06	3.20
24HJ128GP510	100	TQFP	128	8192	—	10/12bit	2xUART/2xSPI/2xI2C/ECAN	PIC24HJ128GP510-I/PF	SMD 114-6540	6.64	5.49	4.33
24HJ256GP206	64	TQFP	256	16384	—	10/12bit	2xUART/2xSPI/2xI2C	PIC24HJ256GP206-I/PT	SMD 114-6542	4.41	3.65	2.89
24HJ256GP210	100	TQFP	256	16384	—	10/12bit	2xUART/2xSPI/2xI2C	PIC24HJ256GP210-I/PF	SMD 114-6544	6.85	5.66	4.48
24HJ256GP210	100	TQFP	256	16384	—	10/12bit	2xUART/2xSPI/2xI2C	PIC24HJ256GP210-I/PT	SMD 114-6545	5.97	4.94	3.91
24HJ256GP610	100	TQFP	256	16384	—	10/12bit	2xUART/2xSPI/2xI2C/2xECAN	PIC24HJ256GP610-I/PF	SMD 114-6546	7.57	6.25	4.94
24HJ256GP610	100	TQFP	256	16384	—	10/12bit	2xUART/2xSPI/2xI2C/2xECAN	PIC24HJ256GP610-I/PT	SMD 114-6547	6.69	5.53	4.37

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Microcontrollers and Microprocessors - 8/16/32-Bit - MICROCHIP - continued

PIC32 High Performance Flash 32 bit Microcontrollers - upto 1.5 DMIPS/MHz - MIPS M4K Core



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- Upto 512 Kbytes Flash with pre-fetch cache
- Upto 32 Kbytes RAM
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- Extensive analog and digital peripherals
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- 16 bit parallel masterport
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- Pin & Peripheral compatible with 16 bit PIC® microcontrollers
- Peripheral libraries compatible 16 bit PIC® microcontrollers
- Free TCP/IP , Graphics File system source code
- 16 channels of 10 bit ADC
- Each part features 2 UARTs / 2 SPI / 2 I2C™ ports

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	Pins	Package	P.Memory K bytes	RAM (Bytes)	Freq (MHz)	Timers / Cap / Comp	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
PIC32MX3	64	TQFP	32KB	8KB	40MHz	5	PIC32MX320F032H-40I/PT	SMD 152-3318●	3.88	3.20	2.53
PIC32MX3	64	TQFP	64KB	16KB	80MHz	5	PIC32MX320F064H-80I/PT	SMD 152-3319●	4.72	3.91	3.09
PIC32MX3	64	TQFP	128KB	16KB	80MHz	5	PIC32MX320F128H-80I/PT	SMD 152-3320●	5.18	4.28	3.39
PIC32MX3	64	TQFP	128KB	32KB	80MHz	5	PIC32MX340F128H-80I/PT	NEW SMD 167-7914●	5.31	4.39	3.47
PIC32MX3	64	TQFP	256KB	32KB	80MHz	5	PIC32MX340F256H-80I/PT	SMD 152-3322●	5.71	4.72	3.73
PIC32MX3	64	TQFP	512KB	32KB	80MHz	5	PIC32MX340F512H-80I/PT	NEW SMD 167-7915●	6.49	5.37	4.25
PIC32MX3	100	TQFP	128KB	16KB	80MHz	5	PIC32MX320F128L-80I/PT	SMD 152-3321●	5.56	4.60	3.64
PIC32MX3	100	TQFP	128KB	32KB	80MHz	5	PIC32MX340F128L-80I/PT	NEW SMD 167-7916●	5.71	4.72	3.73
PIC32MX3	100	TQFP	256KB	32KB	80MHz	5	PIC32MX360F256L-80I/PT	SMD 152-3323●	6.24	5.16	4.08
PIC32MX3	100	TQFP	512KB	32KB	80MHz	5	PIC32MX360F512L-80I/PT	SMD 152-3324●	6.95	5.75	4.54
PIC32MX4	64	TQFP	32KB	8KB	40MHz	5	PIC32MX420F032H-40I/PT	NEW SMD 164-0230●	4.25	3.52	2.78
PIC32MX4	64	TQFP	512KB	32KB	80MHz	5	PIC32MX440F512H-80I/PT	NEW SMD 164-0232●	6.81	5.63	4.45
PIC32MX4	100	TQFP	128KB	32KB	80MHz	5	PIC32MX440F128L-80I/PT	NEW SMD 164-0231●	6.09	5.04	3.98
PIC32MX4	100	TQFP	512KB	32KB	80MHz	5	PIC32MX460F512L-80I/PT	NEW SMD 164-0233●	7.27	6.01	4.75

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	Pins	Pkg.	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
PIC12C50x								
12C508	8	DIP	8-Bit CMOS EPROM MCU, 512b OTP PROM, 25 bytes RAM, 6 I/O lines - 4MHz (IND TEMP)	PIC12C508-04I/P	119-6841●	1.40	1.27	1.13
12C508	8	SOIC	8-Bit CMOS EPROM MCU, 512b OTP PROM, 25 bytes RAM, 6 I/O lines - 4MHz (IND TEMP)	PIC12C508-04I/SM	SMD 119-6846●	1.47	1.33	1.19
12C508	8	DIP	8-Bit CMOS EPROM MCU, 512b OTP PROM, 25 bytes RAM, 6 I/O lines - 4MHz	PIC12C508-04/P	975-8763●	1.29	1.16	1.03
12C508A	8	DIP	8-Bit CMOS EPROM MCU, 512b EPROM, 25 bytes RAM, 6 I/O lines - 4MHz	PIC12C508A/JW	140-211●	4.58	4.49	4.40
12C508A	8	DIP	8-Bit CMOS EPROM MCU, 512b OTP PROM, 25 bytes RAM, 6 I/O lines - 4MHz	PIC12C508A-04/P	975-8771●	0.99	0.84	0.69
12C508A	8	SOIC	8-Bit CMOS EPROM MCU, 512b OTP PROM, 25 bytes RAM, 6 I/O lines - 4MHz	PIC12C508A-04/SM	SMD 975-8780●	0.99	0.84	0.69
12C508A	8	SOIC	8-Bit CMOS EPROM MCU, 512b OTP PROM, 25 bytes RAM, 6 I/O lines - 4MHz	PIC12C508A-04/SN	SMD 975-8798●	1.02	0.86	0.71
12C508A	8	SOIC	8-Bit CMOS EPROM MCU, 512b OTP PROM, 25 bytes RAM, 6 I/O lines - 4MHz (IND TEMP)	PIC12C508A-04I/SN	SMD 975-8801●	1.12	0.95	0.78
12C508A	8	SOIC	8-Pin, 8-Bit CMOS Microcontrollers	PIC12C508A-04I/SM	SMD 113-7301●	1.09	0.92	0.75
12C508A	8	DIP	8-Bit CMOS EPROM MCU, 512b OTP PROM, 25 bytes RAM, 6 I/O lines - 4MHz (IND TEMP)	PIC12C508A-04I/P	119-6774●	1.09	0.92	0.75
12LC508A	8	SOIC	8-Bit CMOS EPROM MCU, 512b OTP PROM, 25 bytes RAM, 6 I/O lines - 4MHz (IND TEMP, Low Power)	PIC12LC508A-04I/SM	SMD 975-9050●	1.16	0.98	0.80
12C509	8	DIP	8-Bit CMOS EPROM MCU	PIC12C509-04/P	975-8810●	1.42	1.28	1.14
12C509	8	SOIC	8-Bit CMOS EPROM MCU, 1Kb OTP PROM, 41 bytes RAM, 6 I/O lines - 4MHz	PIC12C509-04/SM	SMD 119-6842●	1.13	1.02	0.92
12C509A	8	DIP	8-Bit CMOS EPROM MCU, 1Kb EPROM, 41 bytes RAM, 6 I/O lines	PIC12C509A/JW	140-284●	4.86	4.76	4.67
12C509A	8	DIP	8-Bit CMOS EPROM MCU, 1Kb OTP PROM, 41 bytes RAM, 6 I/O lines - 4MHz	PIC12C509A-04/P	975-8828●	1.02	0.86	0.71
12C509A	8	SOIC	8-Bit CMOS EPROM MCU, 1Kb OTP PROM, 41 bytes RAM, 6 I/O lines - 4MHz	PIC12C509A-04/SM	SMD 975-8836●	0.87	0.74	0.60
12C509A	8	SOIC	8-Bit CMOS EPROM MCU, 1Kb OTP PROM, 41 bytes RAM, 6 I/O lines - 4MHz (IND TEMP)	PIC12C509A-04I/SM	SMD 975-8852●	0.95	0.81	0.67
12C509A	8	DIP	8-Bit CMOS EPROM MCU, 1Kb OTP PROM, 41 bytes RAM, 6 I/O lines - 4MHz (IND TEMP)	PIC12C509A-04I/P	108-4235●	1.12	0.95	0.78
12C509A	8	SOIC	8-Bit CMOS EPROM MCU, 1Kb OTP PROM, 41 bytes RAM, 6 I/O lines - 4MHz (IND TEMP)	PIC12C509A-04I/SN	SMD 108-4259●	1.16	0.98	0.80
12C509A	8	SOIC	8-Bit CMOS EPROM MCU, 1Kb OTP PROM, 41 bytes RAM, 6 I/O lines - 4MHz	PIC12C509A-04/SN	SMD 975-8844●	0.92	0.77	0.63
PIC12CE51x								
12CE518	8	DIP	8-Bit CMOS MCU, 512b OTP PROM, 16 bytes E², 25 bytes RAM, 6 I/O lines - 4MHz	PIC12CE518-04/P	975-8917●	1.20	1.02	0.84
12CE518	8	DIP	8-Bit CMOS MCU, 512b OTP PROM, 16 bytes E², 25 bytes RAM, 6 I/O lines - 4MHz (IND TEMP)	PIC12CE518-04I/P	108-4236●	1.32	1.12	0.92
12CE518	8	SOIC	8-Bit CMOS MCU, 512b OTP PROM, 16 bytes E², 25 bytes RAM, 6 I/O lines - 4MHz (IND TEMP)	PIC12CE518-04I/SM	SMD 108-4237●	1.18	1.00	0.82
12CE519	8	DIP	8-Bit CMOS MCU, 1Kb EPROM, 16 bytes E², 41 bytes RAM, 6 I/O lines - 4MHz	PIC12CE519-04/P	975-8925●	1.32	1.12	0.92
12CE519	8	SOIC	8-Bit CMOS MCU, 1Kb EPROM, 16 bytes E², 41 bytes RAM, 6 I/O lines - 4MHz	PIC12CE519-04/SM	SMD 975-8933●	1.17	0.99	0.82
12CE519	8	SOIC	8-Bit CMOS MCU, 1Kb EPROM, 16 bytes E², 41 bytes RAM, 6 I/O lines - 4MHz (IND TEMP)	PIC12CE519-04I/SN	SMD 975-8950●	1.55	1.31	1.07
12CE519	8	DIP	8-Bit CMOS MCU, 1Kb EPROM, 16 bytes E², 41 bytes RAM, 6 I/O lines - 4MHz (IND TEMP)	PIC12CE519-04I/P	975-8941●	1.23	1.04	0.85
12CE519	8	SOIC	8-Bit CMOS MCU, 1Kb EPROM, 16 bytes E², 41 bytes RAM, 6 I/O lines - 4MHz (IND TEMP)	PIC12CE519-04I/SM	SMD 119-6775●	1.27	1.08	0.89
12LCE519	8	SOIC	8-Bit CMOS MCU, 1Kb OTP PROM, 41 bytes RAM, 6 I/O lines - 4MHz (IND TEMP, Low Power)	PIC12LCE519-04I/SM	SMD 108-4325●	1.37	1.16	0.96
PIC12C67x								
12C671	8	DIP	8-Bit CMOS MCU With ADC, 1Kb OTP PROM, 128 bytes RAM, 6 I/O lines - 4MHz	PIC12C671-04/P	975-8860●	1.80	1.53	1.25
12C671	8	DIP	8-Bit CMOS MCU With ADC, 1Kb OTP PROM, 128 bytes RAM, 6 I/O lines - 4MHz (IND TEMP)	PIC12C671-04I/P	975-8879●	1.67	1.42	1.17
12C671	8	SOIC	8-Bit CMOS MCU With ADC, 1Kb OTP PROM, 128 bytes RAM, 6 I/O lines - 4MHz (IND TEMP)	PIC12C671-04I/SM	SMD 108-4222●	2.06	1.75	1.44
12C671	8	SOIC	8-Pin, 8-Bit CMOS Microcontroller With A/D Converter	PIC12C671-04/SM	SMD 113-7292●	1.60	1.35	1.11
12C671	8	SOIC	8-Bit CMOS EPROM MCU, 1Kb OTP PROM, 128 bytes RAM, 6 I/O lines - 10MHz (IND TEMP)	PIC12C671-10I/SM	SMD 119-6776●	2.22	1.88	1.55
12C671	8	DIP	8-Bit CMOS EPROM MCU, 1Kb OTP PROM, 128 bytes RAM, 6 I/O lines - 10MHz (IND TEMP)	PIC12C671-10I/P	108-4238●	1.81	1.53	1.25
12C671	8	DIP	8-Bit CMOS EPROM MCU, 1Kb OTP PROM, 128 bytes RAM, 6 I/O lines - 10MHz	PIC12C671-10/P	121-2665●	1.63	1.39	1.14
12C672	8	DIP	8-Bit CMOS MCU With ADC, 2Kb OTP PROM, 128 bytes RAM, 6 I/O lines - 4MHz	PIC12C672-04/P	975-8887●	1.80	1.53	1.25
12C672	8	SOIC	8-Bit CMOS MCU With ADC, 2Kb OTP PROM, 128 bytes RAM, 6 I/O lines - 4MHz (IND TEMP)	PIC12C672-04I/SM	SMD 975-8895●	1.76	1.49	1.23
12C672	8	DIP	8-Bit CMOS EPROM MCU, 2Kb OTP PROM, 128 bytes RAM, 6 I/O lines - 10MHz	PIC12C672-10/P	975-8909●	1.92	1.63	1.34
12C672	8	DIP	8-Bit CMOS EPROM MCU, 2Kb OTP PROM, 128 bytes RAM, 6 I/O lines - 10MHz (IND TEMP)	PIC12C672-10I/P	108-4241●	2.12	1.79	1.47
12C672	8	SOIC	8-Pin, 8-Bit CMOS Microcontroller With A/D Converter	PIC12C672-04/SM	SMD 113-7297●	1.87	1.59	1.30
12C672	8	DIP	8-Pin, 8-Bit CMOS Microcontroller With A/D Converter	PIC12C672-04I/P	113-7298●	1.96	1.67	1.37
12C672	8	SOIC	8-Bit CMOS EPROM MCU, 2Kb OTP PROM, 128 bytes RAM, 6 I/O lines - 10MHz	PIC12C672-10/SM	SMD 119-6778●	2.02	1.71	1.40
12LC672	8	SOIC	8-Bit CMOS Microcontroller With A/D Converter and EEPROM Data Memory	PIC12LC672-04I/SM	SMD 113-7341●	1.89	1.60	1.32
PIC12CE6xx								
12CE673	8	DIP	8-Bit CMOS EPROM MCU, 1Kb EEPROM, 128 bytes RAM, 6 I/O lines - 4MHz	PIC12CE673-04/P	975-8968●	1.81	1.53	1.25
12CE673	8	DIP	8-Bit CMOS EPROM MCU, 1Kb EEPROM, 128 bytes RAM, 6 I/O lines - 4MHz (IND TEMP)	PIC12CE673-04I/P	108-4242●	2.32	1.97	1.62
12CE674	8	DIP	8-Bit CMOS EPROM MCU, 2Kb EEPROM, 128 bytes RAM, 6 I/O lines - 4MHz	PIC12CE674-04/P	975-8976●	1.81	1.53	1.25
12CE674	8	DIP	8-Bit CMOS EPROM MCU, 2Kb EEPROM, 128 bytes RAM, 6 I/O lines - 4MHz (IND TEMP)	PIC12CE674-04I/P	975-8984●	2.32	1.97	1.62
PIC14000								
14000	28	SDIL	8-Bit CMOS EPROM MCU, 4K OTP PROM, 192 bytes RAM, 20 I/O lines - 4MHz	PIC14000-04/SP	975-9069●	5.45	4.92	4.40

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PIC16C54								
16C54	18	DIP	8-Bit CMOS MCU, 512b OTP PROM, 25b RAM, 12 I/O lines - 20MHz	PIC16C54-HS/P	975-9158	2.11	1.86	1.62
16C54	18	DIP	8-Bit CMOS MCU, 512b OTP PROM, 25b RAM, 12 I/O lines (Low Power)	PIC16C54-LP/P	121-2666	2.42	2.14	1.86
16C54	18	SOIC	8-Bit CMOS MCU, 512b OTP PROM, 25b RAM, 12 I/O lines (Low Power)	PIC16C54-LP/SO	SMD 120-0436	2.12	1.88	1.63
16C54	18	DIP	8-Bit CMOS MCU, 512b OTP PROM, 25b RAM, 12 I/O lines - 4MHz (RC OSC.)	PIC16C54-RC/P	975-9166	1.96	1.74	1.51
16C54	18	DIP	8-Bit CMOS MCU, 512b OTP PROM, 25b RAM, 12 I/O lines - 4MHz (IND TEMP)	PIC16C54-XTI/P	975-9190	2.55	2.25	1.96
16C54	18	DIP	8-Bit CMOS MCU, 512b OTP PROM, 25b RAM, 12 I/O lines - 4MHz	PIC16C54-XT/P	975-9174	1.96	1.74	1.51
16C54	18	SOIC	8-Bit CMOS MCU, 512b OTP PROM, 25b RAM, 12 I/O lines - 4MHz	PIC16C54-XT/SO	SMD 975-9182	2.36	2.09	1.81
16C54A	18	DIP	8-Bit CMOS MCU, 512b OTP PROM, 25b RAM, 12 I/O lines - 4MHz (IND TEMP)	PIC16C54A-04I/P	119-6847	2.55	2.25	1.96
16C54A	18	DIP	8-Bit CMOS MCU, 512b OTP PROM, 25b RAM, 12 I/O lines - 4MHz	PIC16C54A-04/P	975-9115	1.96	1.74	1.51
16C54A	18	SOIC	8-Bit CMOS MCU, 512b OTP PROM, 25b RAM, 12 I/O lines - 4MHz	PIC16C54A-04/SO	SMD 108-4342	2.36	2.09	1.81
16C54A	18	DIP	8-Bit CMOS MCU, 512b OTP PROM, 25b RAM, 12 I/O lines - 20MHz	PIC16C54A-20/P	975-9123	2.65	2.34	2.03
16C54C	18	DIP	8-Bit CMOS MCU, 512b OTP PROM, 25b RAM, 12 I/O lines - 4MHz	PIC16C54C-04/P	975-9131	1.23	1.04	0.85
16C54	18	DIP	8-Bit CMOS MCU, 512b OTP PROM, 25b RAM, 12 I/O lines - 20MHz	PIC16C54C-20/P	975-9140	1.32	1.12	0.92
16C54C	18	SOIC	8-Bit CMOS MCU, 512b OTP PROM, 25b RAM, 12 I/O lines - 4MHz	PIC16C54C-04/SO	SMD 108-4258	1.46	1.24	1.02
16C54C	20	SSOP	8-Bit CMOS MCU, 512b OTP PROM, 25b RAM, 12 I/O lines - 20MHz (IND TEMP, SSOP).	PIC16C54C-20I/SS	SMD 108-4261	1.69	1.44	1.19
16C54C	18	DIP	8-Bit CMOS MCU, 512b OTP PROM, 25b RAM, 12 I/O lines - 4MHz (IND TEMP)	PIC16C54C-04I/P	108-4285	1.45	1.22	1.00
16C54C	18	SOIC	8-Bit CMOS MCU, 512b OTP PROM, 25b RAM, 12 I/O lines - 4MHz (IND TEMP)	PIC16C54C-04I/SO	SMD 108-4286	1.46	1.24	1.02
16C54C	18	SOIC	PROM-Based 8-Bit CMOS Microcontroller	PIC16C54C-20I/SO	SMD 113-7309	1.57	1.34	1.10
16C54C	18	DIP	8-Bit CMOS MCU, 512b OTP PROM, 25b RAM, 12 I/O lines - 20MHz (IND TEMP)	PIC16C54C-20I/P	121-2681	1.55	1.31	1.07
16LC54	18	DIP	8-Bit CMOS MCU, 512b OTP PROM, 25b RAM, 12 I/O lines - 4MHz (Low Power)	PIC16LC54C-04/P	108-4284	1.52	1.28	1.05
PIC16C55								
16C55	28	DIP	8-Bit CMOS MCU, 512b OTP PROM, 24b RAM, 20 I/O lines - 20MHz	PIC16C55-HS/P	975-9255	2.96	2.62	2.27
16C55	28	DIP	8-Bit CMOS MCU, 512b OTP PROM, 24b RAM, 20 I/O lines - 4MHz (RC OSC.)	PIC16C55-RC/P	119-6780	2.85	2.51	2.18
16C55	28	DIP	8-Bit CMOS MCU, 512b OTP PROM, 24b RAM, 20 I/O lines - 4MHz (IND TEMP)	PIC16C55-XTI/P	975-9298	3.35	2.96	2.57
16C55	28	DIP	8-Bit CMOS MCU, 512b OTP PROM, 24b RAM, 20 I/O lines - 4MHz	PIC16C55-XT/P	975-9271	2.59	2.29	1.99
16C55	28	SOIC	8-Bit CMOS MCU, 512b OTP PROM, 24b RAM, 20 I/O lines - 4MHz	PIC16C55-XT/SO	SMD 975-9280	3.15	2.79	2.43
16C55A	28	SOIC	8-Bit CMOS MCU, 512b OTP PROM, 24b RAM, 20 I/O lines - 4MHz	PIC16C55A-04/SO	SMD 975-9239	1.56	1.32	1.09
16C55A	28	DIP	8-Bit CMOS MCU, 512b OTP PROM, 24b RAM, 20 I/O lines - 20MHz (IND TEMP)	PIC16C55A-20I/P	975-9247	2.17	1.84	1.51
16C55A	28	SDIL	8-Bit CMOS MCU, 512b OTP PROM, 24b RAM, 20 I/O lines - 20MHz	PIC16C55A-20/SP	108-4272	1.96	1.67	1.37
16C55A	28	DIP	8-Bit CMOS MCU, 512b OTP PROM, 24b RAM, 20 I/O lines - 4MHz	PIC16C55A-04/P	108-4287	1.50	1.27	1.05
PIC16C56								
16C56	18	DIP	8-Bit CMOS MCU, 1Kb OTP PROM, 25b RAM, 12 I/O lines - 20 MHz	PIC16C56-HS/P	975-9310	3.09	2.73	2.37
16C56	18	DIP	8-Bit CMOS MCU, 1Kb OTP PROM, 25b RAM, 12 I/O lines - 4MHz (RC OSC.)	PIC16C56-RC/P	119-6781	2.96	2.61	2.27
16C56	18	DIP	8-Bit CMOS MCU, 1Kb OTP PROM, 25b RAM, 12 I/O lines - 4MHz	PIC16C56-XT/P	108-4307	3.16	2.80	2.44
16C56A	18	DIP	8-Bit CMOS MCU, 1Kb OTP PROM, 25b RAM, 12 I/O lines - 4MHz (IND. TEMP)	PIC16C56A-04I/P	975-9301	1.51	1.28	1.06
16C56A	18	DIP	8-Bit CMOS MCU, 1Kb OTP PROM, 25b RAM, 12 I/O lines - 4MHz	PIC16C56A-04/P	108-4224	1.63	1.38	1.13
16C56A	18	PDIP	PROM-Based 8-Bit CMOS Microcontroller	PIC16C56A-20/P	113-7299	1.73	1.47	1.21
PIC16C57								
16C57	28	DIP	8-Bit CMOS MCU, 2Kb OTP PROM, 72b RAM, 20 I/O lines - 20MHz	PIC16C57-HS/P	108-4345	4.42	3.91	3.40
16C57	28	DIP	8-Bit CMOS MCU, 2Kb OTP PROM, 72b RAM, 20 I/O lines - (RC OSC.)	PIC16C57-RC/P	975-9360	3.61	3.19	2.78
16C57	28	SOIC	8-Bit CMOS MCU, 2Kb OTP PROM, 72b RAM, 20 I/O lines - (RC OSC.)	PIC16C57-RC/SO	SMD 975-9379	3.75	3.32	2.88
16C57	28	DIP	8-Bit CMOS MCU, 2Kb OTP PROM, 72b RAM, 20 I/O lines	PIC16C57-XT/P	975-9387	3.29	2.91	2.53
16C57	28	SOIC	8-Bit CMOS MCU, 2Kb OTP PROM, 72b RAM, 20 I/O lines	PIC16C57-XT/SO	SMD 975-9395	4.02	3.55	3.08
16C57	28	SDIL	8-Bit CMOS MCU, 2Kb OTP PROM, 72b RAM, 20 I/O lines	PIC16C57-XT/SP	975-9409	3.86	3.42	2.97
16C57C	28	DIP	8-Bit CMOS MCU, 2Kb EPROM, 72b RAM, 20 I/O lines	PIC16C57C/JW	314-4150	7.64	6.11	5.05
16C57C	28	SOIC	8-Bit CMOS MCU, 2Kb OTP PROM, 72b RAM, 20 I/O lines - 4MHz	PIC16C57C-04/SO	SMD 975-9328	1.83	1.55	1.27
16C57C	28	DIP	8-Bit CMOS MCU, 2Kb OTP PROM, 72b RAM, 20 I/O lines - 20MHz	PIC16C57C-20/P	975-9336	2.29	1.94	1.60
16C57C	28	SOIC	8-Bit CMOS MCU, 2Kb OTP PROM, 72b RAM, 20 I/O lines - 20MHz	PIC16C57C-20/SO	SMD 975-9344	2.39	2.03	1.67
16C57C	28	SDIL	8-Bit CMOS MCU, 2Kb OTP PROM, 72b RAM, 20 I/O lines - 20MHz	PIC16C57C-20/SP	975-9352	2.29	1.94	1.60
16C57C	28	DIP	8-Bit CMOS MCU, 2Kb OTP PROM, 72b RAM, 20 I/O lines - 20MHz (IND TEMP)	PIC16C57C-20I/P	108-4260	2.52	2.14	1.76
16C57C	28	DIP	8-Bit CMOS MCU, 2Kb OTP PROM, 72b RAM, 20 I/O lines - 4MHz	PIC16C57C-04/P	108-4273	2.05	1.73	1.42
16C57C	28	SDIL	8-Bit CMOS MCU, 2Kb OTP PROM, 72b RAM, 20 I/O lines - 4MHz	PIC16C57C-04/SP	108-4274	2.05	1.73	1.42
16C57C	28	DIP	8-Bit CMOS MCU, 2Kb OTP PROM, 72b RAM, 20 I/O lines - 4MHz (IND TEMP)	PIC16C57C-04I/P	108-4275	2.25	1.91	1.57
PIC16C58								
16C58B	18	DIP	8-Bit CMOS EPROM MCU, 2Kb OTP PROM, 73 bytes RAM - 4MHz	PIC16C58B-04/P	975-9417	1.72	1.46	1.19
16C58B	18	DIP	8-Bit CMOS EPROM MCU, 2Kb OTP PROM, 73 bytes RAM - 20MHz (IND TEMP)	PIC16C58B-20I/P	975-9433	2.03	1.72	1.42
16LC58B	18	DIP	8-Bit CMOS EPROM MCU, 2Kb OTP PROM, 73b RAM, 12 I/O lines - 4MHz (IND TEMP, Low Power).	PIC16LC58B-04I/P	976-1543	1.62	1.37	1.12
16LC58B	18	SOIC	8-Bit CMOS EPROM MCU, 2Kb OTP PROM, 73b RAM, 12 I/O lines - 4MHz (IND TEMP, Low Power).	PIC16LC58B-04I/SO	SMD 108-4326	1.92	1.63	1.34
PIC16C50X								
16C505	14	DIP	8-Bit CMOS EPROM MCU, 1K OTP PROM - 4MHz	PIC16C505-04/P	975-9077	1.29	1.09	0.89
16C505	14	SOIC	8-Bit CMOS EPROM MCU, 1K OTP PROM - 4MHz	PIC16C505-04/SL	SMD 975-9085	1.29	1.09	0.89
16C505	14	SOIC	8-Bit CMOS EPROM MCU, 1K OTP PROM - 4MHz (IND TEMP)	PIC16C505-04I/SL	SMD 119-6809	1.29	1.09	0.89
16C505	14	DIP	8-Bit CMOS EPROM MCU, 1K OTP PROM - 20MHz (IND TEMP)	PIC16C505-20I/P	975-9093	1.12	0.95	0.79
16C505	14	SOIC	8-Bit CMOS EPROM MCU, 1K OTP PROM - 20MHz (IND TEMP)	PIC16C505-20I/SL	SMD 975-9107	1.32	1.12	0.92
16LC505	14	SOIC	8-Bit CMOS EPROM MCU, 1K OTP PROM - 4MHz (Low Power)	PIC16LC505-04/SL	SMD 115-125	1.16	0.98	0.81
PIC16HV5xx								
16HV540	18	DIP	8-Bit CMOS MCU, 512b OTP PROM, 25 bytes RAM, 12 I/O lines - 4MHz	PIC16HV540-04/P	976-1527	1.45	1.22	1.00
16HV540	18	SOIC	8-Bit CMOS MCU, 512b OTP PROM, 25 bytes RAM, 12 I/O lines - 4MHz (IND TEMP)	PIC16HV540-04I/SO	SMD 976-1535	1.46	1.24	1.02
PIC16C55X								
16C554	18	DIP	8-Bit CMOS EPROM MCU, 512b OTP PROM, 80 bytes RAM - 4MHz (IND TEMP).	PIC16C554-04I/P	108-4231	2.56	2.26	1.97
16C554	18	DIP	8-Bit CMOS EPROM MCU, 512b OTP PROM, 80 bytes RAM - 4MHz	PIC16C554-04/P	975-9204	1.98	1.75	1.52
16C554	18	SOIC	8-Bit CMOS EPROM MCU, 512b OTP PROM, 80 bytes RAM - 4MHz	PIC16C554-04/SO	SMD 108-4352	2.37	2.10	1.82
16C554	18	DIP	8-Bit CMOS EPROM MCU, 512b OTP PROM, 80 bytes RAM - 20MHz	PIC16C554-20/P	975-9212	2.49	2.20	1.91
16C558	18	DIP	8-Bit CMOS EPROM MCU, 2K OTP PROM, 128 bytes RAM - 4MHz	PIC16C558-04/P	108-4353	3.05	2.69	2.34
16C558	18	DIP	8-Bit CMOS EPROM MCU, 2K OTP PROM, 128 bytes RAM - 20MHz	PIC16C558-20/P	975-9220	2.78	2.46	2.14
16C558	18	SOIC	8-Bit CMOS EPROM MCU, 2K OTP PROM, 128 bytes RAM - 20MHz	PIC16C558-20/SO	SMD 119-6771	3.33	2.94	2.55
PIC16C62								
16C62A	28	SDIL	8-Bit CMOS EPROM MCU, 2K OTP PROM, 128 bytes RAM - 4MHz (IND TEMP)	PIC16C62A-04I/SP	975-9557	4.88	4.13	3.39
16C62B	28	SDIL	8-Bit CMOS EPROM MCU, 2K OTP PROM, 128 bytes RAM - 4MHz	PIC16C62B-04/SP	975-9565	2.34	1.99	1.63
16C62B	28	SOIC	8-Bit CMOS EPROM MCU, 2K OTP PROM, 128 bytes RAM - 20MHz (IND TEMP)	PIC16C62B-20I/SO	SMD 975-9573	3.23	2.74	2.25
16C62B	28	SPDIL	8-Bit CMOS Microcontrollers	PIC16C62B-20I/SP	113-7310	3.23	2.74	2.25
PIC16C63								
16C63	28	SOIC	8-Bit CMOS EPROM MCU, 4K OTP PROM, 192 bytes RAM - 4MHz (IND TEMP)	PIC16C63-04I/SO	SMD 119-6849	5.84	4.95	4.06
16C63	28	SDIL	8-Bit CMOS EPROM MCU, 4K OTP PROM, 192 bytes RAM - 20MHz (IND TEMP)	PIC16C63-20I/SP	975-9611	6.27	5.32	4.37
16C63	28	SOIC	8-Bit CMOS EPROM MCU, 4K OTP PROM, 192 bytes RAM - 4MHz	PIC16C63-04/SO	SMD 975-9581	4.52	3.84	3.15
16C63	28	SDIL	8-Bit CMOS EPROM MCU, 4K OTP PROM, 192 bytes RAM - 4MHz	PIC16C63-04/SP	975-9590	5.31	4.50	3.70
16C63	28	SDIL	8-Bit CMOS EPROM MCU, 4K OTP PROM, 192 bytes RAM - 20MHz	PIC16C63-20/SP	975-9603	5.68	4.82	3.96
16C63	28	SDIL	8-Bit CMOS EPROM MCU, 4K OTP PROM, 192 bytes RAM - 10MHz	PIC16C63-10/SP	119-6827	5.68	4.82	3.96
16C63A	28	SOIC	8-Bit CMOS MCU, 4K OTP PROM, 192 bytes RAM - 4MHz	PIC16C63A-04/SO	SMD 975-9620	3.35	2.84	2.34
16C63A	28	SDIL	8-Bit CMOS MCU, 4K OTP PROM, 192 bytes RAM - 4MHz	PIC16C63A-04/SP	108-4289	3.35	2.84	2.34
16C63A	28	SDIP	8 Bit MCU,7K OTP,192 RAM	PIC16C63A-20/SP	129-2256	3.61	3.06	2.51
16C63A	28	SOIC	8-Bit CMOS Microcontrollers	PIC16C63A-20I/SO	SMD 113-7312	3.96	3.36	2.76
16C63A	28	SDIL	8-Bit CMOS EPROM MCU, 4K OTP PROM, 192 bytes RAM - 20MHz (IND TEMP)	PIC16C63A-20I/SP	975-9638	3.38	2.87	2.35
PIC16C64								
17C44	40	DIP	8-Bit CMOS RISC MCU (High Performance), 8K OTP PROM - 25MHz	PIC17C44-25/P	119-6845	8.27	7.01	5.76
16C64A	40	DIP	8-Bit CMOS EPROM MCU, 2K OTP PROM, 128 bytes RAM - 4MHz (IND TEMP)	PIC16C64A-04I/P	119-6769	5.45	4.62	3.79
16C64A	44	PLCC	8-Bit CMOS EPROM MCU, 2K OTP PROM, 128 bytes RAM - 4MHz	PIC16C64A-04/L	SMD 975-9646	4.57	4.04	3.51
16C64A	40	DIP	8-Bit CMOS EPROM MCU, 2K OTP PROM, 128 bytes RAM - 4MHz	PIC16C64A-04/P	975-9654	4.22	3.58	2.94
16C64A	40	DIP	8-Bit CMOS EPROM MCU, 2K OTP PROM, 128 bytes RAM - 10MHz	PIC16C64A-10/P	108-4225	5.31	4.50	3.70
16C64A	40	DIP	8-Bit CMOS EPROM MCU, 2K OTP PROM, 128 bytes RAM - 20MHz	PIC16C64A-20/P	108-4226	5.31	4.50	3.70

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PIC16C65								
16C65A	44	PLCC	8-Bit CMOS EPROM MCU, 4K OTP PROM, 192 bytes RAM - 4MHz	PIC16C65A-04/L	SMD 975-9662	7.68	6.94	6.19
16C65A	40	DIP	8-Bit CMOS EPROM MCU, 4K OTP PROM, 192 bytes RAM - 4MHz	PIC16C65A-04/P	975-9670	6.62	5.61	4.61
16C65B	40	DIP	8-Bit CMOS EPROM MCU, 4K OTP PROM, 192 bytes RAM - 4MHz	PIC16C65B-04/P	975-9697	3.21	2.72	2.23
16C65B	40	DIP	8-Bit CMOS EPROM MCU, 4K OTP PROM, 192 bytes RAM - 20MHz (IND TEMP)	PIC16C65B-20I/P	975-9719	4.43	3.76	3.09
16C65B	44	PLCC	8-Bit CMOS EPROM MCU, 4K OTP PROM, 192 bytes RAM - 20MHz (IND TEMP)	PIC16C65B-20I/L	SMD 975-9700	5.05	4.56	4.06
16C65B	44	PLCC	8-Bit CMOS EPROM MCU, 4K OTP PROM, 192 bytes RAM - 4MHz	PIC16C65B-04/L	SMD 975-9689	3.72	3.36	3.01
PIC16C66								
16C66	28	SDIL	8-Bit CMOS EPROM MCU, 8K OTP PROM, 368 bytes RAM - 4MHz	PIC16C66-04/SP	119-6833	4.89	4.15	3.40
16C66	28	SOIC	8-Bit CMOS EPROM MCU, 8K OTP PROM, 368 bytes RAM - 4MHz	PIC16C66-04/SO	SMD 119-6834	4.89	4.15	3.40
16C66	28	SDIL	8-Bit CMOS EPROM MCU, 8K OTP PROM, 368 bytes RAM - 10MHz	PIC16C66-10/SP	119-6852	5.24	4.44	3.64
16C66	28	SDIL	8-Bit CMOS EPROM MCU, 8K OTP PROM, 368 bytes RAM - 10MHz (IND TEMP)	PIC16C66-10I/SP	119-6853	5.77	4.89	4.01
16C66	28	SOIC	8-Bit CMOS EPROM MCU, 8K OTP PROM, 368 bytes RAM - 10MHz	PIC16C66-10/SO	SMD 975-9727	5.24	4.44	3.64
16C66	28	SDIL	8-Bit CMOS EPROM MCU, 8K OTP PROM, 368 bytes RAM - 20MHz	PIC16C66-20/SP	975-9735	5.24	4.44	3.64
16C66	28	SDIL	8-Bit CMOS Microcontroller	PIC16C66-20I/SP	113-7350	5.77	4.89	4.01
PIC16C67								
16C67	44	PLCC	8-Bit CMOS EPROM MCU, 8K OTP PROM, 368 bytes RAM - 4MHz	PIC16C67-04/L	SMD 975-9743	5.65	5.00	4.35
16C67	40	DIP	8-Bit CMOS EPROM MCU, 8K OTP PROM, 368 bytes RAM - 4MHz	PIC16C67-04/P	975-9751	4.55	3.86	3.17
16C67	44	PLCC	8-Bit CMOS EPROM MCU, 8K OTP PROM, 368 bytes RAM - 20MHz (PLCC Package)	PIC16C67-20/L	SMD 975-9760	5.16	4.56	3.96
16C67	40	DIP	8-Bit CMOS EPROM MCU, 8K EPROM, 368 bytes RAM	PIC16C67/JW	686-025	6.60	6.47	6.34
PIC16C62X								
16C620	18	DIP	8-Bit CMOS EPROM MCU, 512b OTP PROM, 80 bytes RAM - 4MHz	PIC16C620-04/P	119-6828	2.73	2.46	2.19
16C620A	18	DIP	8-Bit CMOS EPROM MCU, 512b OTP PROM, 96 bytes RAM, 13 I/O lines - 4MHz	PIC16C620A-04/P	108-4233	1.40	1.19	0.98
16C620A	18	SOIC	8-Bit CMOS EPROM MCU, 512b OTP PROM, 96 bytes RAM, 13 I/O lines - 4MHz	PIC16C620A-04/SO	SMD 975-9441	1.45	1.22	1.00
16C620A	18	DIP	8-Bit CMOS EPROM MCU, 512b OTP PROM, 96 bytes RAM, 13 I/O lines - 4MHz (IND TEMP)	PIC16C620A-04I/P	975-9450	1.40	1.19	0.98
16C620A	18	SOIC	8-Bit CMOS EPROM MCU, 512b OTP PROM, 96 bytes RAM, 13 I/O lines - 4MHz (IND TEMP)	PIC16C620A-04I/SO	SMD 975-9468	1.45	1.22	1.00
16C620A	18	DIP	8-Bit CMOS EPROM MCU, 512b OTP PROM, 96 bytes RAM, 13 I/O lines - 20MHz	PIC16C620A-20/P	108-4234	1.49	1.27	1.04
16C621	18	DIP	8-Bit CMOS EPROM MCU, 1K OTP PROM, 80 bytes RAM - 4MHz	PIC16C621-04/P	119-6829	3.05	2.76	2.47
16C621A	18	DIP	8-Bit CMOS EPROM MCU, 1K OTP PROM, 96 bytes RAM, 13 I/O lines - 4MHz	PIC16C621A-04/P	975-9476	1.57	1.34	1.10
16C621A	18	DIP	8-Bit CMOS EPROM MCU, 1K OTP PROM, 96 bytes RAM, 13 I/O lines - 4MHz (IND TEMP)	PIC16C621A-04I/P	975-9484	1.73	1.47	1.21
16C621A	18	SOIC	8-Bit CMOS EPROM MCU, 1K OTP PROM, 96 bytes RAM, 13 I/O lines - 4MHz (IND TEMP)	PIC16C621A-04I/SO	SMD 975-9492	1.77	1.51	1.24
16C621A	18	DIP	8-Bit CMOS EPROM MCU, 1K OTP PROM, 96 bytes RAM, 13 I/O lines - 20MHz	PIC16C621A-20/P	975-9506	1.69	1.43	1.17
16C622A	18	DIP	8-Bit CMOS EPROM MCU, 2K OTP PROM, 128 bytes RAM, 13 I/O lines - 4MHz	PIC16C622A-04/P	975-9514	1.77	1.51	1.24
16C622A	18	SOIC	8-Bit CMOS EPROM MCU, 2K OTP PROM, 128 bytes RAM, 13 I/O lines - 4MHz	PIC16C622A-04/SO	SMD 975-9522	1.82	1.54	1.26
16C622A	18	DIP	8-Bit CMOS EPROM MCU, 2K OTP PROM, 128 bytes RAM, 13 I/O lines - 4MHz (IND TEMP)	PIC16C622A-04I/P	975-9530	1.95	1.65	1.36
16C622A	18	DIP	8-Bit CMOS EPROM MCU, 2K OTP PROM, 128 bytes RAM, 13 I/O lines - 20MHz	PIC16C622A-20/P	975-9549	1.92	1.62	1.32
PIC16F62X								
16LF628	18	DIP	8-Bit CMOS EPROM MCU, 2K Flash, 224 bytes RAM - 4MHz (IND TEMP, Low Power)	PIC16LF628-04I/P	976-1594	2.22	1.88	1.55
16LF628	18	SOIC	8-Bit CMOS EPROM MCU, 2K Flash, 224 bytes RAM - 4MHz (IND TEMP, Low Power)	PIC16LF628-04I/SO	SMD 976-1608	2.66	2.26	1.86
16LF628	20	SSOP	8-Bit CMOS EPROM MCU, 2K Flash, 224 bytes RAM - 4MHz (IND TEMP, Low Power)	PIC16LF628-04I/SS	SMD 976-1624	2.88	2.44	2.00
PIC16CE62X								
16CE624	18	DIP	8-Bit CMOS MCU, 1K OTP PROM/96 bytes RAM, EEPROM - 4MHz	PIC16CE624-04/P	976-0253	1.91	1.63	1.34
16CE625	18	DIP	8-Bit CMOS MCU, 2K OTP PROM/128 EEPROM - 4MHz	PIC16CE625-04/P	976-0261	2.18	1.85	1.52
16F627	18	SOIC	8-Bit CMOS EPROM MCU, 1K Flash, 224 bytes RAM - 4MHz	PIC16F627-04/SO	SMD 108-4297	2.03	1.72	1.42
16F627	18	DIP	8-Bit CMOS EPROM MCU, 1K Flash, 224 bytes RAM - 4MHz (IND TEMP)	PIC16F627-04I/P	108-4298	2.19	1.86	1.52
16F627	18	DIP	8-Bit CMOS EPROM MCU, 1K Flash, 224 bytes RAM - 4MHz	PIC16F627-04/P	976-0288	2.00	1.70	1.40
16F627	18	SOIC	8-Bit CMOS EPROM MCU, 1K Flash, 224 bytes RAM - 4MHz (IND TEMP)	PIC16F627-04I/SO	SMD 976-0296	2.23	1.89	1.55
16F627	20	SSOP	8-Bit CMOS EPROM MCU, 1K Flash, 224 bytes RAM - 4MHz (IND TEMP)	PIC16F627-04I/SS	SMD 976-0300	2.40	2.04	1.67
16F627	18	DIP	8-Bit CMOS EPROM MCU, 1K Flash, 224 bytes RAM - 20MHz (IND TEMP)	PIC16F627-20I/P	976-0318	2.01	1.70	1.39
16F627	18	SOIC	8-Bit CMOS EPROM MCU, 1K Flash, 224 bytes RAM - 20MHz (IND TEMP)	PIC16F627-20I/SO	SMD 108-4265	2.39	2.03	1.67
16F628	18	DIP	8-Bit CMOS EPROM MCU, 2K Flash, 224 bytes RAM - 4MHz	PIC16F628-04/P	976-0369	1.94	1.64	1.34
16F628	18	SOIC	8-Bit CMOS EPROM MCU, 2K Flash, 224 bytes RAM - 4MHz	PIC16F628-04/SO	SMD 976-0377	2.30	1.96	1.61
16F628	18	DIP	8-Bit CMOS EPROM MCU, 2K Flash, 224 bytes RAM - 4MHz (IND TEMP)	PIC16F628-04I/P	976-0385	2.12	1.80	1.48
16F628	16	DIP	8-Bit CMOS EPROM MCU, 2K Flash, 224 bytes RAM - 20MHz	PIC16F628-20/P	976-0393	2.06	1.75	1.44
16F628	18	DIP	8-Bit CMOS EPROM MCU, 2K Flash, 224 bytes RAM - 20MHz (IND TEMP)	PIC16F628-20I/P	976-0407	2.66	2.26	1.86
16F628	18	SOIC	8-Bit CMOS EPROM MCU, 2K Flash, 224 bytes RAM - 20MHz (IND TEMP)	PIC16F628-20I/SO	SMD 976-0415	2.73	2.31	1.89
16F628	20	SSOP	8-Bit CMOS EEPROM MCU, 2K Flash, 224 bytes RAM - 20MHz (IND TEMP)	PIC16F628-20I/SS	SMD 108-4266	2.93	2.49	2.05
PIC16C71								
16C71	18	DIP	8-Bit CMOS EPROM MCU With ADC, 1K OTP PROM - 4MHz (IND TEMP)	PIC16C71-04I/P	975-9786	4.21	3.57	2.93
16C71	18	DIP	8-Bit CMOS EPROM MCU With ADC, 1K OTP PROM - 4MHz	PIC16C71-04/P	975-9778	3.24	2.75	2.26
16C71	18	DIP	8-Bit CMOS EPROM MCU With ADC, 1K OTP PROM - 20MHz	PIC16C71-20/P	119-6825	4.08	3.46	2.84
16C71	18	DIP	8-Bit CMOS EPROM MCU With ADC, 1K OTP PROM - 20MHz (IND TEMP)	PIC16C71-20I/P	108-4346	4.48	3.80	3.12
16C71	18	SOIC	8-Bit CMOS EPROM MCU With ADC, 1K OTP PROM - 20MHz	PIC16C71-20/SO	SMD 975-9840	3.55	3.01	2.46
16LC71	18	DIP	8-Bit CMOS EPROM MCU With ADC, 1K OTP PROM - 4MHz (Low Power)	PIC16LC71-04/P	976-1551	3.40	2.89	2.37
PIC16C72								
16C72	28	SDIL	8-Bit CMOS EPROM MCU, 2K OTP PROM, 128 bytes RAM - 4MHz	PIC16C72-04/SP	119-6858	4.71	3.99	3.28
16C72A	28	SOIC	8-Bit CMOS EPROM MCU, 2K OTP PROM, 128 bytes RAM - 4MHz (IND TEMP)	PIC16C72A-04I/SO	SMD 975-9891	3.07	2.61	2.14
16C72A	28	SDIL	8-Bit CMOS MCU, 2K OTP PROM, 128 bytes RAM, 22 I/O lines - 20MHz	PIC16C72A-20/SP	975-9913	2.98	2.52	2.07
16C72A	28	SDIL	8-Bit CMOS EPROM MCU, 2K OTP PROM, 128 bytes RAM - 20MHz (IND TEMP)	PIC16C72A-20I/SP	975-9921	3.85	3.26	2.68
16C72A	28	SDIL	8-Bit CMOS Microcontroller	PIC16C72A-04/SP	113-7317	3.26	2.77	2.27
PIC16C73								
16C73A	28	SDIL	8-Bit CMOS EPROM MCU With ADC, 4K OTP PROM, 192 bytes RAM - 4MHz (IND TEMP)	PIC16C73A-04I/SP	119-6850	6.38	5.41	4.45
16C73A	28	SOIC	8-Bit CMOS EPROM MCU With ADC, 4K OTP PROM, 192 bytes RAM - 4MHz	PIC16C73A-04/SO	SMD 975-9930	5.81	4.92	4.04
16C73A	28	SDIL	8-Bit CMOS EPROM MCU With ADC, 4K OTP PROM, 192 bytes RAM - 4MHz	PIC16C73A-04/SP	975-9948	5.81	4.92	4.04
16C73A	28	SDIL	8-Bit CMOS EPROM MCU With ADC, 4K OTP PROM, 192 bytes RAM - 10MHz	PIC16C73A-10/SP	975-9956	6.22	5.28	4.33
16C73A	28	SOIC	8-Bit CMOS EPROM MCU With ADC, 4K OTP PROM, 192 bytes RAM - 20MHz	PIC16C73A-20/SO	SMD 975-9964	6.22	5.28	4.33
16C73A	28	SDIL	8-Bit CMOS EPROM MCU With ADC, 4K OTP PROM, 192 bytes RAM - 20MHz	PIC16C73A-20/SP	975-9972	6.22	5.28	4.33
16C73B	28	SOIC	8-Bit CMOS MCU, 4K OTP PROM, 192 bytes RAM, 22 I/O lines - 4MHz (IND TEMP)	PIC16C73B-04I/SO	SMD 108-4279	4.63	3.93	3.23
16C73B	28	SDIL	8-Bit CMOS MCU, 4K OTP PROM, 192 bytes RAM, 22 I/O lines - 4MHz (IND TEMP)	PIC16C73B-04I/SP	975-9980	3.95	3.35	2.75
16C73B	28	SOIC	8-Bit CMOS MCU, 4K OTP PROM, 192 bytes RAM, 22 I/O lines - 20MHz	PIC16C73B-20/SO	SMD 975-9999	3.85	3.27	2.68
16C73B	28	SDIL	8-Bit CMOS MCU, 4K OTP PROM, 192 bytes RAM, 22 I/O lines - 20MHz	PIC16C73B-20/SP	108-4278	4.52	3.83	3.14
16C73B	28	SDIL	8-Bit CMOS EPROM MCU With ADC, 4K OTP PROM, 192 bytes RAM - 20MHz (IND TEMP)	PIC16C73B-20I/SP	976-0008	4.23	3.59	2.95
16C73B	28	SOIC	8-Bit CMOS EPROM MCU With ADC, 4K OTP PROM, 192 bytes RAM - 20MHz (IND TEMP)	PIC16C73B-20I/SO	SMD 108-4262	4.96	4.21	3.45
16C73B	28	SDIL	8-Bit CMOS MCU, 4K OTP PROM, 192 bytes RAM, 22 I/O lines - 4MHz	PIC16C73B-04/SP	108-4277	4.22	3.58	2.93
16C73B	28	SSOP	8-Bit CMOS Microcontrollers With A/D Converter	PIC16C73B-20I/SS	SMD 113-7313	4.38	3.71	3.04
16C73B	28	SOIC	8-Bit CMOS Microcontroller With A/D Converter	PIC16C73B-04/SO	SMD 113-7318	3.60	3.05	2.50
PIC16C74								
16C74A	44	PLCC	8-Bit CMOS EPROM MCU, 4K OTP PROM, 192 bytes RAM - 4MHz (IND TEMP)	PIC16C74A-04I/L	SMD 119-6773	8.14	7.20	6.25
16C74A	40	DIP	8-Bit CMOS EPROM MCU, 4K OTP PROM, 192 bytes RAM - 4MHz (IND TEMP)	PIC16C74A-04I/P	976-0040	7.72	6.55	5.38
16C74A	44	PLCC	8-Bit CMOS EPROM MCU, 4K OTP PROM, 192 bytes RAM - 4MHz	PIC16C74A-04/L	SMD 119-6838	7.45	6.59	5.73
16C74A	40	DIP	8-Bit CMOS EPROM MCU, 4K OTP PROM, 192 bytes RAM - 4MHz	PIC16C74A-04/P	108-4347	7.02	5.96	4.89
16C74A	44	PLCC	8-Bit CMOS EPROM MCU, 4K OTP PROM, 192 bytes RAM - 10MHz	PIC16C74A-10/L	SMD 121-2477	7.94	7.02	6.11
16C74A	40	DIP	8-Bit CMOS EPROM MCU, 4K OTP PROM, 192 bytes RAM - 10MHz	PIC16C74A-10/P	976-0059	6.43	5.45	4.47
16C74A	40	DIP	8-Bit CMOS EPROM MCU, 4K OTP PROM, 192 bytes RAM - 20MHz (IND TEMP)	PIC16C74A-20I/P	119-6839	8.27	7.01	5.75
16C74A	44	PLCC	8-Bit CMOS EPROM MCU, 4K OTP PROM, 192 bytes RAM - 20MHz	PIC16C74A-20/L	SMD 976-0067	7.94	7.02	6.11
16C74A	40	DIP	8-Bit CMOS EPROM MCU, 4K OTP PROM, 192 bytes RAM - 20MHz	PIC16C74A-20/P	976-0075	7.54	6.39	5.24
16C74B	40	DIP	8-Bit CMOS MCU, 4K OTP PROM, 192 bytes RAM, 33 I/O lines - 4MHz (IND TEMP)	PIC16C74B-04I/P	108-4281	5.64	4.78	3.93
16C74B	40	DIP	8-Bit CMOS MCU, 4K OTP PROM, 192 bytes RAM, 33 I/O lines - 4MHz	PIC16C74B-04/P	976-0091	4.38	3.71	3.04
16C74B	44	PLCC	8-Bit CMOS MCU, 4K OTP PROM, 192 bytes RAM, 33 I/O lines - 4MHz (PLCC)	PIC16C74B-04/L	SMD 976-0083	4.89	4.41	3.94
16C74B	44	PLCC	8-Bit CMOS MCU, 4K OTP PROM, 192 bytes RAM, 33 I/O lines - 20MHz	PIC16C74B-20/L	SMD 976-0113	6.09	5.50	4.91
16C74B	40	DIP	8-Bit CMOS MCU, 4K OTP PROM, 192 bytes RAM, 33 I/O lines - 20MHz	PIC16C74B-20/P	976-0121	5.49	4.66	3.82

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	Pins	Pkg.	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
PIC16C74								
16C74B	44	PLCC	8-Bit CMOS EPROM MCU, 4K OTP PROM, 192 bytes RAM - 20MHz (IND TEMP, PLCC)	PIC16C74B-20I/L	SMD 976-0130●	6.62	5.98	5.34
16C74B	40	DIP	8-Bit CMOS EPROM MCU, 4K OTP PROM, 192 bytes RAM - 20MHz (IND TEMP)	PIC16C74B-20I/P	108-4263●	6.01	5.10	4.18
16C74B	40	DIP	8-Bit CMOS EPROM MCU, 4K EPROM, 192 bytes RAM	PIC16C74B/JW	315-4646●	6.15	6.03	5.91
16C74B	40	DIP	8-Bit CMOS EPROM MCU, 4K EPROM, 192 bytes RAM	PIC16C74B/JW	315-4646●	6.15	6.03	5.91
PIC16C76								
16C76	28	SDIL	8-Bit CMOS EPROM MCU, 8K OTP PROM, 368 bytes RAM - 4MHz	PIC16C76-04/SP	976-0148●	5.34	4.53	3.72
16C76	28	SDIL	8-Bit CMOS EPROM MCU, 8K OTP PROM, 368 bytes RAM - 20MHz (IND TEMP)	PIC16C76-20I/SP	119-6859●	6.27	5.32	4.37
16C76	28	SDIL	8-Bit CMOS EPROM MCU, 8K OTP PROM, 368 bytes RAM - 20MHz	PIC16C76-20/SP	119-6836●	4.88	4.13	3.39
PIC16C77								
16C77	40	DIP	8-Bit CMOS EPROM MCU, 8K OTP PROM, 368 bytes RAM - 4MHz (IND TEMP)	PIC16C77-04I/P	119-6767●	6.32	5.36	4.39
16C77	44	PLCC	8-Bit CMOS EPROM MCU, 8K OTP PROM, 368 bytes RAM - 4MHz	PIC16C77-04/L	SMD 976-0164●	4.63	4.09	3.56
16C77	40	DIP	8-Bit CMOS EPROM MCU, 8K OTP PROM, 368 bytes RAM - 4MHz	PIC16C77-04/P	976-0172●	5.74	4.86	3.99
16C77	40	DIP	8-Bit CMOS EPROM MCU, 8K OTP PROM, 368 bytes RAM - 20MHz (IND TEMP)	PIC16C77-20I/P	976-0199●	6.74	5.72	4.70
16C77	44	PLCC	8-Bit CMOS EPROM MCU, 8K OTP PROM, 368 bytes RAM - 20MHz	PIC16C77-20/L	SMD 119-6837●	6.45	5.70	4.96
16C77	40	DIP	8-Bit CMOS EPROM MCU, 8K OTP PROM, 368 bytes RAM - 20MHz	PIC16C77-20/P	976-0180●	6.14	5.20	4.27
PIC16C71X								
16C710	18	DIP	8-Bit CMOS EPROM MCU With ADC, 512b OTP PROM, 36 bytes RAM - 4MHz	PIC16C710-04/P	108-4357●	2.40	1.93	1.45
16C710	18	DIP	8-Bit CMOS EPROM MCU With ADC, 512b OTP PROM, 36 bytes RAM - 20MHz (IND TEMP)	PIC16C710-20I/P	119-6857●	2.83	2.27	1.71
16C710	18	DIP	8-Bit CMOS EPROM MCU With ADC, 512b OTP PROM, 36 bytes RAM - 20MHz	PIC16C710-20/P	120-0438●	2.58	2.07	1.56
16C711	18	DIP	8-Bit CMOS EPROM MCU With ADC, 1K OTP PROM, 68 bytes RAM - 4MHz	PIC16C711-04/P	975-9794●	2.23	1.79	1.35
16C711	18	SOIC	8-Bit CMOS EPROM MCU With ADC, 1K OTP PROM, 68 bytes RAM - 4MHz	PIC16C711-04/SO	SMD 975-9808●	2.66	2.14	1.62
16C711	18	DIP	8-Bit CMOS EPROM MCU With ADC, 1K OTP PROM, 68 bytes RAM - 4MHz (IND TEMP)	PIC16C711-04I/P	975-9816●	2.46	1.98	1.49
16C711	18	SOIC	8 Bit MCU,1.75K OTP,68 RAM	PIC16C711-04I/SO	SMD 129-2257●	2.93	2.35	1.77
16C711	18	DIP	8-Bit CMOS EPROM MCU With ADC, 1K OTP PROM, 68 bytes RAM - 20MHz	PIC16C711-20/P	975-9824●	2.80	2.25	1.70
16C711	18	DIP	8-Bit CMOS EPROM MCU With ADC, 1K OTP PROM, 68 bytes RAM - 20MHz (IND TEMP)	PIC16C711-20I/P	108-4359●	2.65	2.12	1.59
16C711	18	SOIC	8-Bit CMOS Microcontroller	PIC16C711-20/SO	SMD 113-7351●	2.86	2.29	1.72
16C711	18	DIP	8-Bit CMOS EPROM MCU With ADC, 1K EPROM, 68 bytes RAM	PIC16C711/JW	962-510●	8.41	6.97	5.40
16LC711	18	DIP	8-Bit CMOS EPROM MCU With ADC, 1K OTP PROM, 68 bytes RAM - 4MHz (Low Power)	PIC16LC711-04/P	976-1560●	2.75	2.20	1.66
16LC711	18	DIP	8-Bit CMOS EPROM MCU With ADC, 1K OTP PROM, 68 bytes RAM - 4MHz (IND TEMP,Low Power)	PIC16LC711-04I/P	976-1578●	3.03	2.43	1.83
16LC711	18	SOIC	Low Power 8-Bit CMOS Microcontroller	PIC16LC711-04I/SO	SMD 113-7352●	3.10	2.49	1.87
16LC711	18	SOIC	8-Bit CMOS EPROM MCU With ADC, 1K OTP PROM, 68 bytes RAM - 4MHz (Low Power)	PIC16LC711-04/SO	SMD 108-4358●	2.39	1.92	1.45
16C712	18	DIP	8-Bit CMOS EPROM MCU With ADC, 1K OTP PROM, 128 bytes RAM - 4MHz	PIC16C712-04/P	975-9859●	1.82	1.45	1.09
16C715	18	DIP	8-Bit CMOS EPROM MCU With ADC, 2K OTP PROM, 128 bytes RAM - 4MHz	PIC16C715-04/P	108-4360●	2.96	2.37	1.78
16C715	18	DIP	8-Bit CMOS EPROM MCU With ADC, 2K OTP PROM, 128 bytes RAM - 20MHz (IND TEMP)	PIC16C715-20I/P	975-9867●	3.56	2.85	2.14
16C715	18	DIP	8-Bit CMOS EPROM MCU With ADC, 2K OTP PROM, 128 bytes RAM - 20MHz	PIC16C715-20/P	108-4361●	3.15	2.53	1.90
16C715	18	SOIC	8-Bit CMOS EPROM MCU With ADC, 2K OTP PROM, 128 bytes RAM - 20MHz (IND TEMP)	PIC16C715-20I/SO	SMD 108-4362●	3.61	2.89	2.18
16C716	18	DIP	8-Bit CMOS EPROM MCU With ADC, 2K EPROM, 128 bytes RAM	PIC16C716/JW	332-0844●	4.90	4.81	4.71
16C716	18	DIP	8-Bit CMOS Microcontroller	PIC16C716-04/P	113-7319●	2.02	1.62	1.22
16LC716	18	DIP	8-Bit CMOS EPROM MCU With ADC, 2K OTP PROM, 128 bytes RAM - 4MHz (IND TEMP, Low Power)	PIC16LC716-04I/P	976-1586●	2.75	2.20	1.65
16C717	18	DIP	8-Bit CMOS EPROM MCU With ADC, 2K OTP PROM, 256 bytes RAM - 20MHz	PIC16C717/P	108-4291●	2.43	1.95	1.47
16C717	18	DIP	8-Bit CMOS Microcontroller	PIC16C717-I/P	113-7321●	2.75	2.20	1.65
16C717	18	SOIC	8-Bit CMOS EPROM MCU With ADC, 2K OTP PROM, 256 bytes RAM - 20MHz (IND TEMP)	PIC16C717-I/SO	SMD 975-9883●	2.37	1.90	1.43
16C717	18	DIP	8-Bit CMOS EPROM MCU With ADC, 2K OTP PROM, 256 bytes RAM - 20MHz	PIC16C717/P	108-4291●	2.43	1.95	1.47
16C717	18	SOIC	8-Bit CMOS Microcontroller	PIC16C717/SO	SMD 113-7320●	2.49	2.00	1.50
PIC16C74x								
16C745	28	SOIC	8-Bit CMOS EPROM MCU, 8K OTP PROM, 256 Bytes RAM (IND TEMP)	PIC16C745-I/SO	SMD 976-0024●	2.89	2.32	1.74
16C745	28	SDIL	8-Bit CMOS EPROM MCU, 8K OTP PROM, 256 Bytes RAM (IND TEMP)	PIC16C745-I/SP	976-0032●	2.89	2.32	1.74
PIC16C76x								
16C765	40	DIP	8-Bit CMOS EPROM MCU, 8K EPROM, 265 Bytes RAM	PIC16C765/JW	343-5143●	5.98	5.87	5.75
16C765	33	DIP	8-Bit CMOS EPROM MCU, 8K OTP PROM, 256 Bytes RAM (IND TEMP)	PIC16C765-I/P	976-0156●	4.05	3.25	2.45
PIC16C77x								
16C770	20	DIP	8-Bit CMOS EPROM MCU With ADC, 2K OTP PROM, 256 bytes RAM - 20MHz	PIC16C770/P	108-4292●	2.40	1.93	1.45
16C770	20	DIP	8-Bit CMOS Microcontroller	PIC16C770-I/P	113-7322●	2.69	2.16	1.63
16C770	20	DIP	8-Bit CMOS EPROM MCU With ADC, 2K OTP PROM, 256 bytes RAM - 20MHz	PIC16C770/P	108-4292●	2.40	1.93	1.45
16C771	20	DIP	8-Bit CMOS EPROM MCU With ADC, 4K OTP PROM, 256 bytes RAM - 20MHz	PIC16C771/P	108-4293●	2.62	2.10	1.59
16C771	20	DIP	8-Bit CMOS EPROM MCU With ADC, 4K OTP PROM, 256 bytes RAM - 20MHz (IND TEMP)	PIC16C771-I/P	119-6801●	2.93	2.35	1.77
16C771	20	SOIC	8-Bit CMOS EPROM MCU With ADC, 4K OTP PROM, 256 bytes RAM - 20MHz (IND TEMP)	PIC16C771-I/SO	SMD 119-6802●	2.98	2.39	1.80
16C771	20	DIP	8-Bit CMOS EPROM MCU With ADC, 4K OTP PROM, 256 bytes RAM - 20MHz	PIC16C771/P	108-4293●	2.62	2.10	1.59
16LC771	20	SSOP	8-Bit CMOS EPROM MCU With ADC, 4K OTP PROM, 256 bytes RAM - 20MHz (IND TEMP, Low Power)	PIC16LC771-I/SS	SMD 108-4294●	3.43	2.75	2.07
16C773	28	SOIC	8-Bit CMOS EPROM MCU With ADC, 4K EPROM, 256 bytes RAM, 22 I/O lines - (IND TEMP)	PIC16C773-I/SO	SMD 976-0202●	3.95	3.35	2.75
16C773	28	SDIL	8-Bit CMOS EPROM MCU With ADC, 4K EPROM, 256 bytes RAM, 22 I/O lines - (IND TEMP)	PIC16C773-I/SP	976-0210●	3.95	3.35	2.75
16C773	28	SDIP	8 Bit MCU,7K OTP,256 RAM	PIC16C773/SP	129-2258●	4.22	3.58	2.93
16C774	40	DIP	8-Bit CMOS EPROM MCU With ADC, 4K EPROM, 256 bytes RAM, 33 I/O lines - (IND TEMP)	PIC16C774-I/P	976-0229●	4.80	4.08	3.35
PIC16C78x								
782	20	DIP	8-Bit CMOS Microcontroller	PIC16C782-I/P	113-7342●	3.17	2.55	1.92
PIC16F62x								
16LF628	16	SOIC	8-Bit CMOS Microcontroller	PIC16LF628-04/SO	NEW! SMD 146-7802●	2.06	1.75	1.44
PIC16F8X								
16F83	18	DIP	8-Bit CMOS EEPROM MCU, 512b Flash, 36 bytes RAM - 4MHz	PIC16F83-04/P	108-4354●	3.71	3.20	2.70
16F84	18	DIP	8-Bit CMOS EEPROM MCU, 1K Flash, 68 bytes RAM - 4MHz	PIC16F84-04/P	976-0814●	3.67	3.17	2.68
16F84	18	SOIC	8-Bit CMOS EEPROM MCU, 1K Flash, 68 bytes RAM - 4MHz	PIC16F84-04/SO	SMD 976-0822●	3.72	3.22	2.73
16F84	18	DIP	8-Bit CMOS EEPROM MCU, 1K Flash, 68 bytes - 10MHz (IND TEMP)	PIC16F84-10I/P	976-0857●	4.32	3.74	3.16
16F84	18	DIP	8-Bit CMOS EEPROM MCU	PIC16F84-10/P	976-0830●	3.93	3.40	2.87
16F84	18	SOIC	8-Bit CMOS EEPROM MCU, 1K Flash, 68 bytes RAM - 10MHz	PIC16F84-10/SO	SMD 976-0849●	4.00	3.46	2.92
16LF84	18	DIP	8-Bit CMOS EEPROM MCU, 1K Flash, 68 bytes RAM - 4MHz (Low Power, IND TEMP)	PIC16LF84-04I/P	108-4228●	4.95	4.28	3.62
16LF84	18	SOIC	8-Bit CMOS EEPROM MCU, 1K Flash, 68 bytes RAM - 4MHz (Low Power, IND TEMP)	PIC16LF84-04I/SO	SMD 976-1675●	5.04	4.36	3.68
16LF84	18	DIP	8-Bit CMOS EEPROM MCU, 1K Flash, 68 bytes RAM - 4MHz (Low Power)	PIC16LF84-04/P	976-1667●	4.49	3.89	3.29
PIC16F873								
16F873	28	SOIC	8-Bit CMOS MCU, 4K Flash, 192 bytes RAM - 4MHz (IND TEMP)	PIC16F873-04I/SO	SMD 108-4283●	4.89	4.32	3.76
16F873	28	SDIL	8-Bit CMOS MCU, 4K Flash, 192 bytes RAM - 4MHz (IND TEMP)	PIC16F873-04I/SP	108-4282●	4.89	4.23	3.58
16F873	28	SOIC	8-Bit CMOS MCU, 4K Flash, 192 bytes RAM - 4MHz	PIC16F873-04/SO	SMD 976-1020●	3.79	3.22	2.64
16F873	28	SDIL	8-Bit CMOS MCU, 4K Flash, 192 bytes RAM - 4MHz	PIC16F873-04/SP	976-1039●	3.79	3.22	2.64
16F873	28	SOIC	8-Bit CMOS MCU, 4K Flash, 192 bytes RAM - 20MHz (IND TEMP)	PIC16F873-20I/SO	SMD 976-1063●	4.46	3.95	3.43
16F873	28	SDIL	8-Bit CMOS MCU, 4K Flash, 192 bytes RAM - 20MHz (IND TEMP)	PIC16F873-20I/SP	976-1071●	5.24	4.53	3.83
16F873	28	SOIC	8-Bit CMOS MCU, 4K Flash, 192 bytes RAM - 20MHz	PIC16F873-20/SO	SMD 976-1047●	4.06	3.59	3.12
16F873	28	SDIL	8-Bit CMOS MCU, 4K Flash, 192 bytes RAM - 20MHz	PIC16F873-20/SP	976-1055●	4.06	3.52	2.97
PIC16F874								
16F874	40	DIP	8-Bit CMOS MCU, 4K Flash, 192 bytes RAM - 4MHz (IND TEMP)	PIC16F874-04I/P	119-6797●	5.34	4.62	3.91
16F874	44	PLCC	8-Bit CMOS MCU, 4K Flash, 192 bytes RAM - 4MHz	PIC16F874-04/L	SMD 976-1110●	4.63	4.18	3.73
16F874	40	DIP	8-Bit CMOS MCU, 4K Flash, 192 bytes RAM - 4MHz	PIC16F874-04/P	976-1128●	4.13	3.58	3.03
16F874	44	PQFP	8-Bit CMOS MCU, 4K Flash, 192 bytes RAM - 4MHz	PIC16F874-04/PQ	SMD 108-4251●	6.17	5.34	4.51
16F874	44	TQFP	8-Bit CMOS MCU, 4K Flash, 192 bytes RAM - 4MHz	PIC16F874-04/PT	SMD 976-1136●	5.60	4.84	4.09
16F874	44	PLCC	8-Bit CMOS MCU, 4K Flash, 192 bytes RAM - 20MHz (IND TEMP)	PIC16F874-20I/L	SMD 976-1160●	6.39	5.78	5.16
16F874	40	DIP	8-Bit CMOS MCU, 4K Flash, 192 bytes RAM - 20MHz (IND TEMP)	PIC16F874-20I/P	976-1179●	4.88	4.22	3.56
16F874	44	PQFP	8-Bit CMOS MCU, 4K Flash, 192 bytes RAM - 20MHz (IND TEMP)	PIC16F874-20I/PQ	SMD 976-1187●	7.25	6.28	5.31
16F874	44	TQFP	8-Bit CMOS MCU, 4K Flash, 192 bytes RAM - 20MHz (IND TEMP)	PIC16F874-20I/PT	SMD 119-6788●	6.57	5.69	4.81
16F874	44	PLCC	8-Bit CMOS MCU, 4K Flash, 192 bytes RAM - 20MHz	PIC16F874-20/L	SMD 976-1144●	5.81	5.25	4.69
16F874	40	DIP	8-Bit CMOS MCU, 4K Flash, 192 bytes RAM - 20MHz	PIC16F874-20/P	976-1152●	5.19	4.50	3.81
PIC16F876								

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Microcontrollers and Microprocessors - 8/16/32-Bit - MICROCHIP - continued

	Pins	Pkg.	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
PIC16F876								
16F876	28	SOIC	8-Bit CMOS MCU, 8K Flash, 368 bytes RAM - 4MHz (IND TEMP)	PIC16F876-04I/SO	SMC 976-1241●	5.28	4.57	3.86
16F876	28	SDIL	8-Bit CMOS MCU, 8K Flash, 368 bytes RAM - 4MHz (IND TEMP)	PIC16F876-04I/SP	976-1250●	5.28	4.57	3.86
16F876	28	SOIC	8-Bit CMOS MCU, 8K Flash, 368 bytes RAM - 4MHz	PIC16F876-04/SO	SMC 976-1225●	4.09	3.54	2.99
16F876	28	SDIL	8-Bit CMOS MCU, 8K Flash, 368 bytes RAM - 4MHz	PIC16F876-04/SP	976-1233●	4.09	3.54	2.99
16F876	28	SOIC	8-Bit CMOS MCU, 8K Flash, 368 bytes RAM - 20MHz (IND TEMP)	PIC16F876-20I/SO	SMC 976-1284●	4.82	4.17	3.52
16F876	28	SDIL	8-Bit CMOS MCU, 8K Flash, 368 bytes RAM - 20MHz (IND TEMP)	PIC16F876-20I/SP	976-1292●	4.82	4.17	3.52
16F876	28	SOIC	8-Bit CMOS MCU, 8K Flash, 368 bytes RAM - 20MHz	PIC16F876-20/SO	SMC 976-1268●	4.39	3.80	3.20
16F876	22	DIP	8-Bit CMOS MCU, 8K Flash, 368 bytes RAM - 20MHz	PIC16F876-20/SP	976-1276●	4.39	3.80	3.20
PIC16F877								
16F877	44	PLCC	8-Bit CMOS MCU, 8K Flash, 368 bytes RAM - 4MHz	PIC16F877-04/L	SMC 976-1330●	5.01	4.52	4.04
16F877	40	DIP	8-Bit CMOS MCU, 8K Flash, 368 bytes RAM - 4MHz	PIC16F877-04/P	976-1349●	4.48	3.80	3.12
16F877	44	PQFP	8-Bit CMOS MCU, 8K Flash, 368 bytes RAM - 4MHz	PIC16F877-04/PQ	SMC 976-1357●	5.67	4.81	3.95
16F877	44	TQFP	8-Bit CMOS MCU, 8K Flash, 368 bytes RAM - 4MHz	PIC16F877-04/PT	SMC 119-6791●	6.04	5.12	4.20
16F877	44	PLCC	8-Bit CMOS MCU, 8K Flash, 368 bytes RAM - 20MHz (IND TEMP)	PIC16F877-20I/L	SMC 976-1390●	6.90	6.23	5.56
16F877	40	DIP	8-Bit CMOS MCU, 8K Flash, 368 bytes RAM - 20MHz (IND TEMP)	PIC16F877-20I/P	976-1403●	5.26	4.46	3.66
16F877	44	TQFP	8-Bit CMOS MCU, 8K Flash, 368 bytes RAM - 20MHz (IND TEMP)	PIC16F877-20I/PT	SMC 976-1420●	7.09	6.01	4.94
16F877	44	PLCC	8-Bit CMOS MCU, 8K Flash, 368 bytes RAM - 20MHz	PIC16F877-20/L	SMC 976-1365●	5.34	4.83	4.31
16F877	40	DIP	8-Bit CMOS MCU, 8K Flash, 368 bytes RAM - 20MHz	PIC16F877-20/P	976-1373●	4.78	4.06	3.33
16F877	44	PQFP	8-Bit CMOS MCU, 8K Flash, 368 bytes RAM - 20MHz (IND TEMP)	PIC16F877-20I/PQ	SMC 976-1411●	6.68	5.67	4.65
16F877	44	TQFP	8-Bit CMOS MCU, 8K Flash, 368 bytes RAM - 20MHz	PIC16F877-20/PT	SMC 976-1381●	6.45	5.47	4.49
16LF877	40	DIP	8-bit MCU, 14K Flash, 368 bytes RAM - 4MHz	PIC16F877-04I/P	NEW 146-7801●	4.91	4.17	3.42
16LF877	40	DIP	8-bit MCU, 14K Flash, 368 bytes RAM - 4MHz	PIC16LF877-04/P	NEW 146-7805●	5.51	4.67	3.83
16LF877	44	TQFP	8-bit MCU, 14K Flash, 368 bytes RAM - 4MHz	PIC16LF877-04I/PT	NEW SMC 146-7806●	8.17	6.93	5.69
PIC16C92x								
16C923	68	PLCC	8-Bit OTP PROM CMOS MCU With LCD Module - 4MHz	PIC16C923-04/L	SMC 119-6843●	3.95	3.49	3.03
16C925	68	PLCC	8-Bit OTP PROM CMOS MCU With LCD Module and 5 channel 10-Bit ADC - 8MHz (IND TEMP)	PIC16C925-I/L	SMC 976-0237●	3.51	3.11	2.70
16C926	68	PLCC	8-Bit OTP PROM CMOS MCU With LCD Module and 5 channel 10-Bit ADC - 8MHz (IND TEMP)	PIC16C926-I/L	SMC 976-0245●	4.42	3.91	3.40
PIC17C42								
17C42A	40	DIP	8-Bit CMOS RISC MCU (High Performance), 2K OTP PROM - 16MHz	PIC17C42A-16/P	108-4219●	6.48	5.50	4.51
17C42	40	DIP	8-Bit CMOS RISC MCU (High Performance), 2K OTP PROM - 33MHz	PIC17C42A-33/P	119-6768●	5.23	4.46	3.70
17C42A	40	DIP	8-Bit CMOS RISC MCU (High Performance), 2K EPROM - 33MHz	PIC17C42A/JW	100-780●	12.51	8.45	7.82
PIC17C43								
17C43	40	DIP	8-Bit CMOS RISC MCU (High Performance), 4K EPROM	PIC17C43/JW	791-477●	7.13	6.99	6.85
17C43	44	PLCC	8-Bit CMOS RISC MCU (High Performance), 4K OTP PROM - 16MHz	PIC17C43-16/L	SMC 976-1861●	7.67	6.78	5.89
17C43	40	DIP	8-Bit CMOS RISC MCU (High Performance), 4K OTP PROM - 16MHz	PIC17C43-16/P	976-1870●	7.31	6.20	5.09
17C43	40	DIP	8-Bit CMOS RISC MCU (High Performance), 4K OTP PROM - 25MHz	PIC17C43-25/P	108-4356●	7.82	6.63	5.44
17C43	44	PLCC	8-Bit CMOS RISC MCU (High Performance), 4K OTP PROM - 33MHz	PIC17C43-33/L	SMC 976-1888●	8.18	7.23	6.29
PIC17C44								
17C44	40	DIP	8-Bit CMOS RISC MCU (High Performance), 8K OTP PROM - 16MHz	PIC17C44-16/P	976-1896●	9.05	7.68	6.31
17C44	40	DIP	8-Bit CMOS RISC MCU (High Performance), 8K OTP PROM - 16MHz (IND TEMP)	PIC17C44-16I/P	121-2661●	8.49	7.20	5.91
17C44	40	DIP	8-Bit CMOS RISC MCU (High Performance), 8K OTP PROM - 25MHz	PIC17C44-25/P	119-6845●	8.27	7.01	5.76
17C44	40	DIP	8-Bit CMOS RISC MCU (High Performance), 8K OTP PROM - 33MHz	PIC17C44-33/P	976-1900●	9.70	8.23	6.75
17C44	44	PLCC	8-Bit CMOS RISC MCU (High Performance), 8K OTP PROM - 33MHz (IND TEMP)	PIC17C44-33I/L	SMC 976-1918●	11.07	9.58	8.10
17C44	40	DIP	8-Bit CMOS RISC MCU (High Performance), 8K OTP PROM - 33MHz (IND TEMP)	PIC17C44-33I/P	108-4221●	10.67	9.05	7.42
PIC17C75X								
17LC756A	64	TQFP	8-Bit CMOS EPROM MCU, (High Performance), 16K OTP PROM - 8MHz (IND TEMP, Low Power)	PIC17LC756A-08I/PT	SMC 108-4330●	9.71	8.23	6.76
17C756	68	PLCC	8-Bit CMOS EPROM MCU, (High Performance), 16K OTP PROM - 16MHz (IND TEMP)	PIC17C756A-16I/L	SMC 976-1926●	9.86	8.72	7.57
17C756A	68	PLCC	8-Bit CMOS EPROM MCU, (High Performance), 16K OTP PROM - 16MHz	PIC17C756A-16/L	SMC 108-4229●	8.97	7.93	6.89
17C756A	68	PLCC	8-Bit CMOS EPROM MCU, (High Performance), 16K OTP PROM - 33MHz (IND TEMP)	PIC17C756A-33I/L	SMC 976-1934●	10.54	9.32	8.10
17C756	68	PLCC	8-Bit CMOS EPROM MCU, (High Performance), 16K OTP PROM - 33MHz	PIC17C756A-33/L	SMC 160-7936●	9.58	8.48	7.37
17C756	68	PLCC	8-Bit CMOS EPROM MCU, (High Performance), 16K OTP PROM - 33MHz	PIC17C756A-33/L	NEW SMC 160-7936●	9.58	8.48	7.37
PIC17C766								
17C766	84	PLCC	8-Bit CMOS EPROM MCU, (High Performance), 16K OTP PROM - 33MHz	PIC17C766-33/L	SMC 120-0017●	11.52	10.18	8.85
17C766	84	PLCC	8-Bit CMOS EPROM MCU, (High Performance), 16K OTP PROM - 33MHz (IND TEMP)	PIC17C766-33I/L	SMC 120-0018●	12.65	11.18	9.72
PIC18C2xx								
18C252	28	SDIL	8-Bit CMOS EPROM MCU, 32K OTP PROM, 1536 bytes RAM (IND TEMP)	PIC18C252-I/SP	976-1942●	5.45	4.72	3.98
PIC18C4xx								
18C452	40	DIP	8-Bit CMOS EPROM MCU, 32K OTP PROM, 1536 bytes RAM (IND TEMP)	PIC18C452-I/P	108-4301●	6.02	5.11	4.20
18C452	44	PLCC	8-Bit CMOS EPROM MCU, 32K OTP PROM, 1536 bytes RAM (IND TEMP)	PIC18C452-I/L	SMC 976-1969●	6.71	5.69	4.66
18LC452	44	PLCC	8-Bit CMOS EPROM MCU, 32K OTP PROM, 1536 bytes RAM (IND TEMP, Low Power)	PIC18LC452-I/L	SMC 976-2400●	7.00	6.05	5.11
PIC18F2xx								
18F242	28	SOIC	8-Bit CMOS MCU, 16k Flash, 768 bytes RAM - 40MHz (IND TEMP)	PIC18F242-I/SO	SMC 976-2078●	4.85	4.12	3.38
18F242	28	SDIL	8-Bit CMOS MCU, 16k Flash, 768 bytes RAM - 40MHz (IND TEMP)	PIC18F242-I/SP	976-2086●	4.13	3.51	2.88
18F2439	28	SDIL	Enhanced Flash Microcontrollers With Single Phase Induction Motor Control Kernel	PIC18F2439-I/SP	113-7336●	4.13	3.51	2.88
18F248	28	SOIC	8-Bit CMOS MCU, 16k Flash, 768 bytes RAM - 40MHz (IND TEMP)	PIC18F248-I/SO	SMC 976-2094●	4.96	4.21	3.46
18F248	28	SDIL	High-Performance, Enhanced Flash Microcontrollers With CAN Module	PIC18F248-I/SP	113-7340●	5.82	4.94	4.06
18F252	28	SOIC	8-Bit CMOS MCU, 32k Flash, 1536 bytes RAM - 40MHz (IND TEMP)	PIC18F252-I/SO	SMC 976-2108●	4.51	3.83	3.14
18F252	28	SDIL	8-Bit CMOS MCU, 32k Flash, 1536 bytes RAM - 40MHz (IND TEMP)	PIC18F252-I/SP	976-2116●	4.51	3.83	3.14
18F258	28	SOIC	8-Bit CMOS MCU, 32k Flash, 1536 bytes RAM - 40MHz (IND TEMP)	PIC18F258-I/SO	SMC 976-2124●	5.41	4.59	3.76
18F258	28	SDIL	8-Bit CMOS MCU, 32k Flash, 1536 bytes RAM - 40MHz (IND TEMP)	PIC18F258-I/SP	976-2132●	5.41	4.59	3.76
18LF252	23	SOIC	8-Bit CMOS MCU, 32k Flash, 1536 bytes RAM - 40MHz (IND TEMP, Low Power)	PIC18LF252-I/SO	SMC 976-2418●	4.73	4.02	3.30
18LF252	28	SDIL	8-Bit CMOS MCU, 32k Flash, 1536 bytes RAM - 40MHz (IND TEMP, Low Power)	PIC18LF252-I/SP	976-2426●	5.55	4.71	3.87
18LF258	28	SDIL	8-Bit CMOS MCU, 32K Flash, 1536 bytes RAM, wide Voltage, With CAN- 40MHz (IND TEMP)	PIC18LF258-I/SP	976-2434●	6.67	5.65	4.64
PIC18F4xx								
18F442	44	PLCC	8-Bit CMOS MCU, 16k Flash, 768 bytes RAM - 40MHz (IND TEMP)	PIC18F442-I/L	SMC 976-2175●	6.05	5.24	4.42
18F442	40	DIP	8-Bit CMOS MCU, 16k Flash, 768 bytes RAM - 40MHz (IND TEMP)	PIC18F442-I/P	976-2183●	5.41	4.58	3.76
18F442	44	TQFP	8-Bit CMOS MCU, 16k Flash, 768 bytes RAM - 40MHz (IND TEMP)	PIC18F442-I/PT	SMC 108-4324●	5.33	4.52	3.71
18F448	40	DIP	8-Bit CMOS MCU, 16k Flash, 768 bytes RAM - 40MHz (IND TEMP)	PIC18F448-I/P	976-2205●	5.97	5.06	4.16
18F448	44	TQFP	8-Bit CMOS MCU, 16k Flash, 768 bytes RAM - 40MHz (IND TEMP)	PIC18F448-I/PT	SMC 976-2213●	5.73	4.86	3.99
18F448	44	PLCC	8-Bit CMOS MCU, 16k Flash, 768 bytes RAM - 40MHz (IND TEMP)	PIC18F448-I/L	SMC 121-2924●	6.54	5.66	4.79
18F452	44	PLCC	8-Bit CMOS MCU, 32k Flash, 1536 bytes RAM - 40MHz (IND TEMP)	PIC18F452-I/L	SMC 976-2221●	5.52	4.78	4.04
18F452	40	DIP	8-Bit CMOS MCU, 32k Flash, 1536 bytes RAM - 40MHz (IND TEMP)	PIC18F452-I/P	976-2230●	5.00	4.24	3.48
18F452	44	TQFP	8-Bit CMOS MCU, 32k Flash, 1536 bytes RAM - 40MHz (IND TEMP)	PIC18F452-I/PT	SMC 976-2248●	5.71	4.84	3.97
18F4539	40	DIP	Enhanced Flash Microcontrollers With Single Phase Induction Motor Control Kernel	PIC18F4539-I/P	113-7338●	4.51	3.82	3.13
18F458	44	PLCC	8-Bit CMOS MCU, 32k Flash, 1536 bytes RAM - 40MHz (IND TEMP)	PIC18F458-I/L	SMC 976-2256●	5.98	5.17	4.37
18F458	40	DIP	8-Bit CMOS MCU, 32k Flash, 1536 bytes RAM - 40MHz (IND TEMP)	PIC18F458-I/P	976-2264●	5.49	4.65	3.82
18F458	44	TQFP	8-Bit CMOS MCU, 32k Flash, 1536 bytes RAM - 40MHz (IND TEMP)	PIC18F458-I/PT	SMC 976-2272●	6.13	5.20	4.27
18LF452	44	PLCC	8-Bit CMOS MCU, 32k Flash, 1536 bytes RAM - 40MHz (IND TEMP, Low Power)	PIC18LF452-I/L	SMC 976-2442●	6.81	5.89	4.98
18LF452	40	DIP	8-Bit CMOS MCU, 32k Flash, 1536 bytes RAM - 40MHz (IND TEMP, Low Power)	PIC18LF452-I/P	976-2450●	5.23	4.44	3.64
18LF452	44	TQFP	8-Bit CMOS MCU, 32k Flash, 1536 bytes RAM - 40MHz (IND TEMP, Low Power)	PIC18LF452-I/PT	SMC 976-2469●	5.99	5.08	4.17
18LF458	40	DIP	8-Bit CMOS MCU, 32K Flash, 1536 bytes RAM, wide Voltage, With CAN- 40MHz (IND TEMP)	PIC18LF458-I/P	976-2485●	5.76	4.88	4.01
18LF458	44	PLCC	8-Bit CMOS MCU, 32K Flash, 1536 bytes RAM, wide Voltage, With CAN- 40MHz (IND TEMP)	PIC18LF458-I/L	SMC 976-2477●	6.28	5.44	4.60
18LF458	44	TQFP	8-Bit CMOS MCU, 32K Flash, 1536 bytes RAM, wide Voltage, With CAN- 40MHz (IND TEMP)	PIC18LF458-I/PT	SMC 108-4332●	6.45	5.47	4.49
PIC18F6xxx								
18F6525	64	TQFP	8-Bit CMOS EEPROM MCU, 48K Flash, 4Kbytes RAM, With ADC - 40MHz (IND TEMP)	PIC18F6525-I/PT	SMC 976-2299●	6.43	5.45	4.47
18F6620	64	TQFP	8-Bit CMOS MCU, 64K Flash With ADC - 40MHz (IND TEMP)	PIC18F6620-I/PT	SMC 976-2302●	8.46	7.17	5.88
18F6621	64	TQFP	8-Bit CMOS EEPROM MCU, 64K Flash, 4Kbytes RAM, With ADC - 40MHz (IND TEMP)	PIC18F6621-I/PT	SMC 976-2310●	6.89	5.84	4.80
18F6720	64	TQFP	8-Bit CMOS MCU, 128K Flash With ADC - 40MHz (IND TEMP)	PIC18F6720-I/PT	SMC 976-2337●	9.40	7.97	6.54
18LF6620	64	TQFP	8-Bit CMOS MCU, 64K Flash With ADC, Low Power - 40MHz (IND TEMP)	PIC18LF6620-I/PT	SMC 976-2493●	8.87	7.52	6.17
18F6720	64	TQFP	8-Bit CMOS MCU, 128K Flash With ADC, Low Power - 40MHz (IND TEMP)	PIC18LF6720-I/PT	SMC 976-2507●	9.87	8.37	6.87

RL Re-reeling available

	Pins	Pkg.	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
PIC18F8xxx								
18F8620	80	TQFP	8-Bit CMOS MCU, 64K Flash With ADC - 40MHz (IND TEMP)	PIC18F8620-I/PT	SMD-976-2361●	10.06	8.53	7.00
18F8621	80	TQFP	8-Bit CMOS EEPROM MCU, 64K Flash, 4Kbytes RAM, With ADC - 40MHz (IND TEMP)	PIC18F8621-I/PT	SMD-976-2370●	7.23	6.13	5.03
18F8720	80	TQFP	8-Bit CMOS MCU, 128K Flash With ADC - 40MHz (IND TEMP)	PIC18F8720-I/PT	SMD-976-2388●	9.55	8.10	6.65
18F8620	80	TQFP	8-Bit CMOS MCU, 64K Flash With ADC, Low Power - 40MHz (IND TEMP)	PIC18LF8620-I/PT	SMD-120-0022●	10.56	8.95	7.35
18LF8720	80	TQFP	8-Bit CMOS MCU, 128K Flash With ADC, Low Power - 40MHz (IND TEMP)	PIC18LF8720-I/PT	SMD-976-2515●	10.02	8.50	6.98

Microcontrollers and Microprocessors - 16/32-Bit ATMEL

AVR ONE! Debugging & Programming Kit



The AVR® ONE! is a powerful development tool for on-chip debugging and programming of all AVR32 devices. In the future AVR ONE! will also support all AVR devices.Suppported debug interfaces are JTAG (IEEE 1149.1), debugWire, PDI and the Nexus (IEEE-ISTO 5001(TM)-2003) auxiliary interface for high-speed trace. Supported programming interfaces are ISP, JTAG and PDI. Interfaces with AVR32 Studio 2 and newer.

523996

Mftrs. List No.	Description	Order Code	Price Each
ATAVRONEKIT	AVR ONE Debugging & Programming Kit	164-8591●	487.86

ATSTK1000 Development Kit



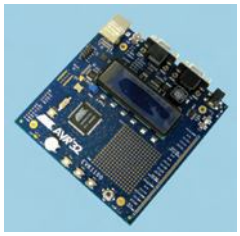
The STK1000 provides a complete development environment for Atmel's AT32A7000 processor.
A pre-installed Linux image ensures that the user can boot Linux and start program development directly after power up.

Board Features:
- 256 MB SD card
- Two ethernet ports
- One QVGA LCD
- One loudspeaker
- AVR JTAG/ICE mkII
- Connectors for USART, PS/2, VGA, and USB

518919

Description	Mftrs. List No.	Order Code	Price Each
ATSTK1000 Development Kit	ATSTK1000	162-9541●	519.92

ATEVK1100 Evaluation Kit



The ATEVK1100 is an evaluation kit and development system for the AVR32 AT32UC3A microcontroller. It is equipped with a rich set of peripherals and memory making it easy to explore the full potential of the AVR32 devices.

Board Features:
- Supports the AT32UC3A
- Ethernet port
- Sensors: Light, Temperature, Potentiometer
- 4x20 Blue LCD (PWM Adjustable backlight)
- Connectors for JTAG, Nexus, USART, USB 2.0, TWI, SPI
- SD and MMC Card Reader

518918

Description	Mftrs. List No.	Order Code	Price Each
ATEVK1100 Evaluation Kit	ATEVK1100	162-9540●	91.64

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EVK1101 Evaluation Kit



The EVK1101 is an evaluation kit and development system for the AVR32 AT32UC3B microcontroller.
It is equipped with a rich set of peripherals, memory, and makes it easy to try the full potential of the AVR32 devices.

Features:
- Supports the AT32UC3B
- Sensors: Light, Temperature
- Connectors for JTAG, Nexus, USART, USB 2.0, TWI, SPI
- SD and MMC Card Reader

518914

Mftrs. List No.	Description	Order Code	Price Each
ATEVK1101	EVK1101 Evaluation Kit	164-8592●	61.08

Microcontrollers and Microprocessors - 16-Bit CYAN

eCOG1X MCU Development Kits



The eCOG1X Development Kit has been designed to together with CyanIDE, to provide the embedded systems designer with a fully integrated development platform that enables them to quickly configure and develop their application.
Featuring a wide range of peripherals supporting and expanding the functions in the eCOG1X product family, the development kit is suitable for a number of embedded application areas including security, industrial monitoring and control, retail, building automation as well as many others.
As standard, the kit is supplied with a daughterboard for the superset variant eCOG1X14Z5.

Features:
- eCOG1X14Z5 MCU on daughterboard
- 8Mb external Flash, 8Mb external SRAM
- 128Mb SDRAM
- 10/100 Mbps Ethernet PHY
- USB2.0 Low/Full/High Speed OTG Interface
- Fourteen 12-bit SAR ADC inputs with 10,8 or 6 bit modes
- Dual 12-bit DAC outputs with max 4 μsec conversion time
- Support for ISO7816 smart card including SIM card holder
- 4 RS232 serial ports
- Audio CODEC
- 4 x 7 segment LCD

515794

Mftrs. List No.	Description	Order Code	Price Each
DEVKIT1X-14Z-UK	eCOG1X Development Kit (UK Mains Lead)	161-7200●	199.14
DEVKIT1X-14Z-EU	eCOG1X Development Kit (Europe Mains Lead)	161-7201●	199.14
DEVKIT1X-14Z-AUS	eCOG1X Development Kit (Australia/China Mains Lead)	161-7202●	199.14

EVALKIT1XE01A6 & EVALKIT1X1A5 Evaluation Kits



Microcontrollers and Microprocessors - 16-Bit CYAN - continued

EVALKIT1XE01A6 & EVALKIT1X1A5 Evaluation Kits - continued

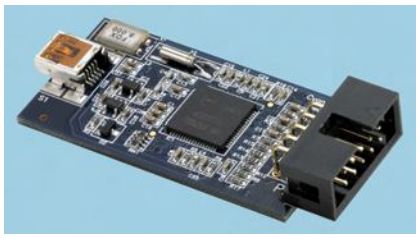
The EVALKIT1XE01A6 and EVALKIT1X1A5 are low cost development kits that enable rapid evaluation of Cyan's eCOG1XE01A6 and eCOG1X1A5 microcontrollers. The development kit also contains the CyanIDE toolset and high speed eICEUSB1X dongle which allow either board to be used as an entry level development system.
CyanIDE includes a full, unlimited, ANSI C compiler, source code editor, simulator, debugger and a unique Configuration Tool which massively reduces development time.

Target Board Features:
- Four serial ports, two with optional EIA/TIA-562 transceiver
- Four 12-bit analogue inputs
- Two user/status LEDs
- Hardware reset push button
- Free pads or pin headers for input and output port connections
- Powered from the eICE adaptor or from an external 5V d.c. power supply
- Small form factor
- High and low frequency crystals or clock inputs

515783

Mftrs. List No.	Description	Order Code	Price Each
EVALKIT1X1A5	eCOG1X1A5 MCU Evaluation Kit	**161-7197●**	46.91
EVALKIT1XE01A6	eCOG1XE01A6 MCU Evaluation Kit	**161-7198●**	46.91

USB eICE Adapter



The USB eICE adaptor provides a simple connection between a host PC system and an eCOG target board. It interfaces between the eICE debug port of the microcontroller and a USB port of the host PC. It is used to communicate between a PC and the user's own hardware during debugging and production programming.

Features:
- Onboard eCOG1X5A5 processor provides high-speed USB interface
- Handles complete eICE transactions locally, providing significantly faster data transfers and lower response times
- Connects to the host PC via a type A USB connector
- Provides full interface between USB and the eICE port of the target eCOG1 microcontroller
- Powered by the USB port of the PC, and can supply power to the target system from the USB 5V
- Fully compatible with CyanIDE®
- Simple 10-way header to allow easy connection to user's target system

518785

Mftrs. List No.	Description	Order Code	Price Each
EICEUSB1X	E-ICE Adapter	**163-0204●**	22.25

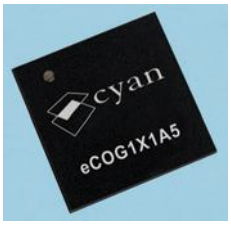


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Find out more on **page 579** or visit **www.farnell.com**

eCOG Microcontroller Family



The **eCOG1X** product family is a range of low-power, feature rich microcontrollers based on a 16-bit Harvard architecture with a 24-bit linear code address space (32Mbyte) and 16-bit linear data address space (128Kbytes).The devices are highly configurable, with options including combinations of USB 2.0 OTG interface, 10/100 Mbps Ethernet MAC and 12-bit analogue I/O. Each variant is available with 512Kbytes of Flash and 24Kbytes of SRAM.
The **eCOG1XE01A6** is an entry level subset of the eCOG1X family. Offering smaller memory size and retaining just the most commonly used peripheral blocks, it targets price sensitive applications that still require a high level of capability in their microcontrollers. A major niche is in supporting slave node applications for RF-Solved based designs.
The **eCOG1kG** is a low-power microcontroller, based on a 16-bit Harvard architecture, with a 24-bit linear code address space (32Mbyte) and 16-bit linear data address space (128Kbytes).

515488

Pins/Pkg	FLASH	SRAM	ADC	DAC	Ethernet	USB	I/Os
68 / QFN	512KB	24KB	4	2	–	–	36
68 / QFN	512KB	24KB	4	2	–	✓	32
100 / QFN	512KB	24KB	11	2	✓	✓	56
208 / BGA	512KB	24KB	14	2	✓	✓	120
68 / QFN	64KB	8KB	4	–	–	–	20
128 / LQFP	64KB	4KB	4	–	–	–	88

Mftrs. List No.	Order Code	Price Each 1+	10+	100+
ECOG1X1A5	SMC **161-7192●**	5.12	3.42	2.60
ECOG1X5A5	SMC **161-7193●**	5.62	3.75	2.85
ECOG1X14B5	SMC **161-7194●**	6.91	4.61	3.50
ECOG1X14Z5	SMC **161-7195●**	7.87	5.25	3.99
ECOG1XE01A6	SMC **161-7196●**	4.71	3.15	2.39
ECOG1KG	SMC **163-0203●**	4.51	3.76	3.23

Microcontrollers and Microprocessors - 16/32-Bit FREESCALE

HCS12 Development Kit



The HCS12 Development Kit is a tool for developing code and evaluating it on HCS12 "D" and "A" family MCUs. This kit combines the BDM Multilink and an evaluation board (EVB). The EVB simplifies user evaluation of prototype hardware and software by providing the essential MCU timing and I/O circuitry as well as a prototype area to allow custom interfacing. The BDM Multilink interfaces to the EVB through the 6-pin BDM connector for real-time In-Circuit Emulation and fast FLASH programming.

HCS12DP256 Evaluation Board:-
- MC9S12DP256 MCU allows evaluation of all HCS12 D & A derivatives
- 256 Kbytes on-chip Flash
- User prototyping area
- Header connectors for access to the microcontroller I/O and bus lines
- RS232 & CAN communication interfaces

BDM Multilink:-
- Universal development tool for all BDM HCS12 derivatives
- Real-time in-circuit emulation and debug
- Fast in-circuit programming
- Auto-detects target MCU frequency
- Small unobtrusive size (approx. 3"x2"x3/4")
- Supports 2V to 5.5V targets

CodeWarrior IDE from Metrowerks:-
- Full debugger, assembler, linker and programming
- Evaluation C compiler

239885

Mftrs. List No.	Product Description	Order Code	Price Each
M68KIT912DP256	HCS12 Evaluation Kit	**413-2889**	403.77

RL Re-reeling available

USB HCS08/HCS12 & MON08 Multilink





The **USB HCS08/HCS12 Multilink** Interface provides access to the Background Debug Mode (BDM) on the HCS08, HC12 and HCS12 microcontrollers. It is the hardware interface between a USB port on a Windows 2000 or XP machine and the standard 6 pin "Berg" debug connector on the target. By using the USB HCS08/HCS12 MULTILINK, the user can take advantage of the background debug mode to halt normal processor execution and use a PC to control the processor. The user can then directly control the target's execution, read/write registers and memory values, debug code on the processor, and program internal or external FLASH memory devices.
The **MON08 Multilink** is a cost-effective development toolfor all HC08 MCUs, and provides in-circuit debugging and programming through the standard MON08 serial debug/breakpoint interface.

429056

		Order Code	Price Each
USBMULTILINKBDME	USB HCS08/HCS12 Multilink	116-5943●	95.01
USBMULTILINK08E	USB MON08 Multilink	157-9898●	70.13

General Purpose 16-Bit HCS12 Microcontroller

The HCS12 family is built around a powerful 25MHz processor, offers advanced on-chip debugging capability through the unique Freescale Semiconductor Background Debug Mode (BDM), and code compatibility with Freescale's 68HC11 and 68HC12 architectures.

The HCS12 family roadmap features pin-compatible devices with on-chip Flash memory ranging from 32K bytes up to 512K bytes. Each HCS12 derivatives offers varying peripherals and feature sets making the microcontrollers suitable for many different applications.

The general purpose 'A' Family comes with either 128k or 256k Flash, while the automotive and industrial application targeted 'D' Family offers options with 2 to 5 CAN modules.

The flagship, HC9S12A256 features 256K bytes Flash memory, 16-channel, 10-bit ADC, 8-channel 16-bit timer and 4-channel 16-bit PWM Module. Package options include a 112-pin low-profile quad flat (LQFP) and an 80-pin quad flat package (QFP).

239917

Mftrs List No.	Flash (bytes)	RAM (kbytes)	TIMER	SERIAL	A / D	Temp	Pins / Packages	Order Code	Price Each 1+	10+	100+
MC9S12DT256CPVE	98304	12	8-CH, 16-bit ECT	2xSCI/UART 3xSPI, I²C 5xCAN J1850	2 x 8-CH 10-bit	C	112 / LQFP	SMD 116-5795●	16.93	13.06	11.39
MCHC908JK1ECPE	1536	128	8-CH, 16-bit ECT	2xSCI/UART 3xSPI, I²C 2xCAN	2 x 8-CH 10-bit	C	20 / DIP	114-8489●	1.27	0.98	0.86
MC908GR8CDWE	7680	384	8-CH, 16-bit ECT	2xSCI/UART 3xSPI, I²C	2 x 8-CH 10-bit	C	28 / SOIC	SMD 114-8423●	3.79	3.16	2.55
MC68HC908GR4CFAE	4096	384	8-CH, 16-bit ECT	2xSCI/UART 3xSPI, I²C	2 x 8-CH 10-bit	C	32 / LQFP	114-8403●	2.97	2.48	1.97
MCHC912B32VFUE8	32768	1	8-CH	SCI, SPI, J1850, SCI, SPI, J1850	8-CH	V	80 / QFP	NEW SMD 157-9875●	15.10	11.63	9.55

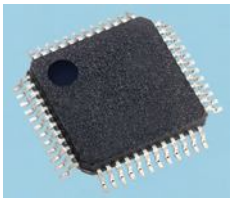
68HC16Z1 - 16 Bit Microcontrollers

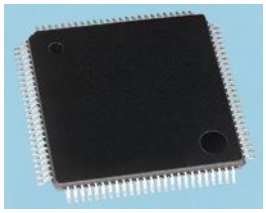
The 68HC16Z1 is a high-speed 16 bit control unit that combines high-performance data manipulation capabilities with powerful peripheral subsystems and is upwardly code compatible with the 68HC11 Family of microcontrollers. This MCU is built up from standard modules that interface through a common intermodule bus (IMB).
The 68HC16Z1 incorporates a true 16 bit central processing unit (CPU), a system integration module (SIM), an 8/10 bit analog-digital converter (ADC), a queued serial module (QSM), a general purpose timer (GPT) and a 1 Kbyte static standby RAM.

527791

Mftrs. List No.	Pins/ Package	RAM (KByte)	I/O Pins	Frequency (MHz)	Serial Interface Type	Operating Temperature	Order Code	Price Each 1+	10+	100+
MC68CK16Z1CAG16	LQFP144/	1	16	16	SCI, QSPI	-40 to 85°C	SMD 157-9802●	13.22	10.17	8.37
MC68HC16Z1VEH16	PQFP132/	1	16	16	SCI, QSPI	-40 to 105°C	SMD 157-9814●	16.44	12.65	10.42
MC68HC16Z1CEH20	PQFP132/	1	16	20	SCI, QSPI	-40 to 85°C	SMD 157-9811●	15.72	12.09	9.95
MC68HC16Z1CAG20	LQFP144/	1	16	20	SCI, QSPI	-40 to 85°C	SMD 157-9821●	12.60	9.70	7.98

MC9S12 Series Microcontrollers





The MC9S12 16-bit Microcontroller Family is built around a powerful CPU that incorporates leading-edge, third-generation 0.25μ FLASH technology. This unique family will provide pin-compatible scalability from 32 Kbytes to 512 Kbytes of integrated FLASH along with a wide variety of integrated peripherals. The highly efficient communication CAN modules featured in some of the MC9S12 family make these ideal for other networked automotive applications.

Features:

- Fully upward compatible with the popular 8-bit 68HC11 for easy migration
- Extremely compact code optimized for C
- High performance with up to 40 nsec minimum instruction cycle time
- Flexible addressing modes including multibyte automatic post-increment or decrement for efficient pointer manipulation and looping control
- On-chip background debug module allows expensive emulators to be replaced by low-cost serial real-time emulation and debug.

383503

	Pins/ Package	Description	I/O Pins	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
12C32	48/QFP	16-Bit MCU w/CAN, 32Kb Flash, 2Kb RAM - 25MHZ	31	MC9S12C32CFAE25	SMD 868-6599●	5.61	4.66	4.00
12C32	80/QFP	16-Bit MCU w/CAN, 32Kb Flash, 2Kb RAM - 25MHZ	60	MC9S12C32CFUE25	SMD 868-6602●	8.01	6.66	5.72
12C32	52/QFP	16-Bit MCU w/CAN, 32Kb Flash, 2Kb RAM - 25MHZ	35	MC9S12C32CPBE25	SMD 868-6610●	6.58	5.07	4.43
12C32	48/QFP	16-Bit MCU w/CAN, 32Kb Flash, 2Kb RAM - 25MHZ	31	MC9S12C32MFAE25	SMD 868-6629●	5.31	4.09	3.58
12C32	48/QFP	16-Bit MCU w/CAN, 32Kb Flash, 2Kb RAM - 25MHZ	31	MC9S12C32VFAE25	SMD 868-6653●	5.02	3.86	3.38
12A64	80/QFP	16-Bit MCU 64Kb Flash, 4Kb RAM - 25MHZ	59	MC9S12A64CFUE	SMD 868-6726●	8.69	6.70	5.85
12A64	112/LQFP	16-Bit MCU 64Kb Flash, 4Kb RAM - 25MHZ	91	MC9S12A64CPVE	SMD 868-6734●	8.80	6.80	5.93
12D64	80/QFP	16-Bit MCU w/CAN, 64Kb Flash, 4Kb RAM - 25MHZ	60	MC9S12D64CFUE	SMD 868-6750●	9.70	7.49	6.54
12D64	112/LQFP	16-Bit MCU w/CAN, 64Kb Flash, 4Kb RAM - 25MHZ	91	MC9S12D64CPVE	SMD 868-6769●	9.06	7.54	6.48
12D64	112/LQFP	16-Bit MCU w/CAN, 64Kb Flash, 4Kb RAM - 25MHZ	91	MC9S12D64VPVE	SMD 868-6807●	12.86	10.70	9.18
12E64	80/QFP	16-Bit MCU 64Kb Flash, 4Kb RAM - 25MHZ	60	MC9S12E64CFUE	SMD 868-7137●	7.41	5.80	4.99
12E64	112/LQFP	16-Bit MCU 64Kb Flash, 4Kb RAM - 25MHZ	91	MC9S12E64CPVE	SMD 868-7145●	7.76	6.25	5.37
12DG128	80/QFP	16-Bit MCU w/CAN, 128Kb Flash, 8Kb RAM - 25MHZ	60	MC9S12DG128CFUE	SMD 868-6815●	12.14	9.48	7.83
12E128	80/QFP	16-Bit MCU 128Kb Flash, 8Kb RAM - 25MHZ	60	MC9S12E128CFUE	SMD 868-7110●	8.63	7.19	6.17
12E128	112/LQFP	16-Bit MCU 128Kb Flash, 8Kb RAM - 25MHZ	91	MC9S12E128CPVE	SMD 868-7129●	9.49	7.47	6.39
12H256	144/LQFP	16-Bit MCU w/CAN, 256Kb Flash, 12Kb RAM - 16MHZ	99	MC9S12H256VFVE	SMD 868-6572●	16.03	13.36	11.45
12H256	112/LQFP	16-Bit MCU w/CAN, 256Kb Flash, 12Kb RAM - 16MHZ	99	MC9S12H256VPVE	SMD 868-6580●	12.81	9.89	8.63

RL Re-reeling available

Microcontrollers and Microprocessors - 16/32-Bit FREESCALE - continued

HCS12 16-Bit Microcontroller Family

The HCS12 Family is a 16-bit Flash-based General purpose/Industrial/Automotive network control MCU family. Members of this Family deliver the power and flexibility of the 16 Bit core (CPU12) family to a whole new range of general purpose Industrial and Automotive network applications.

HCS12 Core features:

- Upward compatible with M68HC11 instruction set
- Interrupt stacking and programmer's model identical to M68HC11
- Instruction queue
- Enhanced indexed addressing
- Memory map and interface (MMC)
- Interrupt control (INT)
- Background debug mode (BDM)
- Enhanced debug12 module, including breakpoints and change-of-flow trace buffer (DBG)

429148

Mftrs. List No.	Pins/ Package	RAM (Byte)	EEPROM (Byte)	Flash (kByte)	Frequency (MHz)	Type	(V)	Order Code	Price Each 1+	10+	100+
MC9S12C32CFAE16	48/LQFP	2048	0	32	16	CAN, SCI, SPI	3.3, 5.5	SMD-114-8463	7.34	6.11	4.90
MC9S12C32CFUE16	80/QFP	2048	0	32	16	CAN, SCI, SPI	3.3, 5.5	SMD-114-8464	6.63	5.11	4.47
MC9S12B64CFUE	80/QFP	2048	1024	64	25	–	5	NEW SMD-157-9835	8.02	6.18	5.07
MC9S12A32CFUE	80/QFP	4096	1024	32	25	IIC, SCI, SPI	5	SMD-116-5786	4.79	3.71	3.23
MC9S12C128CFUE	80/QFP	4096	0	128	25	CAN, SCI, SPI	3.3, 5.5	SMD-116-5787	10.26	7.91	6.91
MC9S12C64CFAE	48/LQFP	4096	0	64	25	CAN, SCI, SPI	3.3, 5.5	SMD-116-5788	5.94	4.59	4.00
MC9S12C64CFUE	80/QFP	4096	0	64	25	CAN, SCI, SPI	3.3, 5.5	SMD-116-5789	8.28	6.39	5.59
MC9S12C96CFAE	48/LQFP	4096	0	96	25	CAN, SCI, SPI	3.3, 5.5	SMD-116-5790	9.21	7.11	6.21
MC9S12C96CFUE	80/QFP	4096	0	96	25	CAN, SCI, SPI	3.3, 5.5	SMD-116-5791	9.60	7.42	6.47
MC9S12B128CPVE	112/LQFP	4096	1024	128	25	CAN, SPI, SCI, I2C	5.5	NEW SMD-157-9833	11.00	8.46	6.96
MC9S12B128MFUE	80/QFP	4096	1024	128	25	CAN, SPI, SCI, I2C	5.5	NEW SMD-157-9834	11.83	9.10	7.48
MC9S12C128CFAE	48/LQFP	4096	–	128	25	SCI, SPI, CAN	5	NEW SMD-157-9837	9.74	7.49	6.18
MC9S12C64MFUE	80/QFP	4096	–	64	25	SCI, SPI, CAN	5.5, 5	NEW SMD-157-9838	9.01	6.92	5.69
MC9S12C64MFAE	48/LQFP	4096	–	64	25	CAN, SCI, SPI	5.5	NEW SMD-165-9670	16.03	13.35	10.69
MC9S12DJ64CPVE	112/LQFP	4096	1024	64	25	SCI, SPI, I2C, CAN, J1850	5	NEW SMD-157-9843	10.36	7.96	6.55
MC9S12D32CFUE	80/QFP	4096	1024	32	25	CAN 2.0 A/B, IIC, SCI, SPI	5	SMD-114-8465	7.01	5.41	4.71
MC9S12DJ64CFUE	80/QFP	4096	1024	64	25	CAN 2.0 A/B, IIC, J1850, SCI, SPI	5	SMD-114-8467	6.85	5.28	4.62
MC9S12A512CPVE	112/LQFP	4096	1024	512	25	SCI, SPI, I2C	5	NEW SMD-157-9899	17.10	13.16	10.83
MC9S12GC128CFUE	80/QFP	4096	0	128	25	SCI, SPI	3.3, 5.5	SMD-116-5796	8.55	6.61	5.76
MC9S12GC64CFUE	80/QFP	4096	0	64	25	SCI, SPI	3.3, 5.5	SMD-116-5797	7.05	5.44	4.73
MC9S12GC96CFAE	48/LQFP	4096	0	96	25	SCI, SPI	3.3, 5.5	SMD-116-5798	4.90	3.78	3.30
MC9S12GC96CFUE	80/QFP	4096	0	96	25	SCI, SPI	3.3, 5.5	SMD-116-5801	5.07	3.92	3.41
MC9S12NE64VTUE	80/TQFP	8000	0	64	25	Ethernet, IIC, SCI, SPI	3.3, 5	SMD-114-8468	8.76	6.85	5.98
MC9S12E128MFUE	80/QFP	8192	–	128	25	SCI, SPI, I2C	5	NEW SMD-157-9845	9.01	6.92	5.69
MC9S12DB128CPVE	112/LQFP	8192	2048	128	25	BYTEFLIGHT, CAN 2.0 A/B, SCI, SPI	5	SMD-114-8466	9.47	7.32	6.38
MC912DT128ACPVE	112/TQFP	8192	2048	128	8	CAN, I2C, SCI, SPI	4.5	NEW SMD-165-9665	29.74	– –	– –
MC9S12DG256CFUE	80/QFP	12288	4096	256	25	CAN 2.0 A/B, IIC, SCI, SPI	5	SMD-116-5792	15.07	11.78	10.28
MC9S12DG256CPVE	112/LQFP	12288	4096	256	25	CAN 2.0 A/B, IIC, SCI, SPI	5	SMD-116-5794	15.46	12.08	10.54
MC9S12DT256CPVE	112/LQFP	12288	4096	256	25	CAN 2.0 A/B, IIC, SCI, SPI	5	SMD-116-5795	16.93	13.06	11.39
MC9S12DG256MFUE	80/QFP	12288	4096	256	25	SCI, SPI, I2C, CAN	5	NEW SMD-157-9839	16.81	12.94	10.65
MC9S12DG256VPVE	112/LQFP	12288	4096	256	25	SCI, SPI, I2C, CAN	5	NEW SMD-157-9840	16.45	12.66	10.42
MC9S12DJ256CFUE	80/QFP	12288	4096	256	25	SCI, SPI, I2C, CAN, J1850	5	NEW SMD-157-9841	16.78	12.91	10.63
MC9S12DJ256CPVE	112/LQFP	12288	4096	256	25	SCI, SPI, I2C, CAN, J1850	5	NEW SMD-157-9842	17.16	13.21	10.86
MC9S12A256CFUE	80/QFP	12288	4096	256	25	IIC, SCI, SPI	5	SMD-116-5784	14.68	11.33	9.88
MC9S12A256CPVE	112/LQFP	12288	4096	256	25	IIC, SCI, SPI	5	SMD-116-5785	15.08	11.64	10.15
MC9S12DP512CPVER	112/LQFP	12288	4096	512	25	I2C, CAN, SCI, SPI	–	NEW SMD-157-9844	18.54	14.26	11.73
MC9S12H256VFVER	144/LQFP	12288	4096	256	25	SCI, SPI, I2C, CAN	5	NEW SMD-157-9846	17.42	13.41	11.04
MC9S12XD256CAA	80/QFP	14336	4096	256	40	CAN, I2C, IIC, SCI, SPI	5.5	SMD-116-5818	12.66	10.54	10.05
MC9S12XD256CAG	144/LQFP	14336	4096	256	40	CAN, I2C, IIC, SCI, SPI	5.5	SMD-116-5819	12.99	10.84	8.67
MC9S12XD256CAL	112/LQFP	14336	4096	256	40	CAN, I2C, IIC, SCI, SPI	5.5	SMD-116-5820	13.43	11.18	8.94
MC9S12XA256CAA	80/QFP	16384	4096	256	40	I2C, IIC, SCI, SPI	5.5	SMD-116-5802	8.56	6.92	5.76
MC9S12XDT256CAG	144/LQFP	16384	4096	256	40	CAN, IIC, SCI, SPI	3.3, 5.5	SMD-116-5813	19.04	15.88	12.71
MC9S12XDT256CAL	112/LQFP	16384	4096	256	40	CAN, IIC, SCI, SPI	3.3, 5.5	SMD-116-5814	13.89	11.57	9.25
MC9S12XDT256VAA	80/QFP	16384	4096	256	40	I2C, CAN, ECT, PIT, SCI, SPI	5	NEW SMD-165-9678	15.28	– –	– –
MC9S12XDT256MAL	112/LQFP	16384	4096	256	40	I2C, CAN, ECT, PIT, SCI, SPI	5	NEW SMD-165-9651	16.20	– –	– –
MC9S12XDT512CAA	80/QFP	20480	4096	512	40	CAN, IIC, SCI, SPI	3.3, 5.5	SMD-116-5815	16.07	13.39	10.71
MC9S12XDT512CAG	144/LQFP	20480	4096	512	40	CAN, IIC, SCI, SPI	3.3, 5.5	SMD-116-5816	15.03	12.53	10.02
MC9S12XDT512CAL	112/LQFP	20480	4096	512	40	CAN, IIC, SCI, SPI	3.3, 5.5	SMD-116-5817	16.18	13.48	10.79
MC9S12XA512CAA	80/QFP	32768	4096	512	25	I2C, SCI, SPI	5.5	SMD-116-5805	18.59	15.49	12.39
MC9S12XDP512CAL	112/LQFP	32768	4096	512	40	CAN, IIC, SCI, SPI	3.3, 5.5	SMD-116-5810	22.47	18.72	14.96
MC9S12XDP512VAL	112/LQFP	32768	4096	512	40	I2C, CAN, ECT, PIT, SCI, SPI	5	NEW SMD-165-9677	18.68	– –	– –
MC9S12XDP512MAL	112/LQFP	32768	4096	512	40	I2C, CAN, ECT, PIT, SCI, SPI	5	NEW SMD-165-9642	19.59	– –	– –
MC9S12XDP512MAG	144/LQFP	32768	4096	512	25	SCI, SPI, I2C, CAN	5.5, 3.15	NEW SMD-157-9847	16.00	12.31	10.12
MC9S12XDP512VAG	144/LQFP	32768	4096	512	40	I2C, CAN, ECT, PIT, SCI, SPI	5	NEW SMD-165-9673	19.02	– –	– –
MC9S12XDP512CAG	144/LQFP	32768	4096	512	40	CAN, IIC, SCI, SPI	3.3, 5.5	SMD-116-5809	22.76	18.96	15.17
MC9S12XEP100CAG	144/LQFP	65536	4096	1024	50	I2C, CAN, ECT, PIT, SCI, SPI	5	NEW SMD-165-9666	18.00	– –	– –

HCS12 DG128 Stand Alone Student Learning Kit & University S12 Evaluation Board Lab IO Kit



New

The S12 DG128 microcontroller stand-alone student learning kit (S12UB) is targeted at teaching the first course in microcontrollers at the university level. The kit contains all of the materials needed to learn MC9S12DG128 operation, embedded assembly and C programming. The S12UB board provides both debug and user circuitry sections.To support the S12UB Hookup labs a LFEBS12UBLAB device Input/Output kit is available.

Board Features:

- Both Debug and Target circuitry on a single board
- Real-time debugging using Background Debug Mode(BDM)
- Removable solderless breadboard to support hookup labs and circuit prototyping
- Signal breakout headers arranged around breadboard
- Hardwire solder prototype area beneath solderless breadboard
- Ground banana jack access in all four corners
- Screw terminal Power IC access
- On-board 5V fully protected power supply with status LED
- +12V power input through barrel or banana jacks

Prewired Input/Output includes:

- Dip switch inputs
- Push button inputs
- LED and 7-segment display outputs
- MC33879 SmartMOS SPI power IC
- Piezo transducer
- RS-232 interface with DB9 connector
- Two CAN 2.0 A/B interfaces with connector
- LIN interface with LIN IN and LIN OUT connectors
- Two Potentiometer inputs, Misc ATD inputs
- Mechanical encoder interface

- **LFEBS12UBLAB Lab I/O kit includes:**
- Mechanical Encoder
- 12V Lamp
- 12V Relay
- LCD Display
- Switch Matrix Keypad
- small DC Motor

508738

Mftrs. List No	Description	Order Code	Price Each
LFEBS12UB	16-bit HCS12 DG128 Stand Alone Student Learning Kit	157-9753	64.51
LFEBS12UBLAB	University S12 Evaluation Board Lab IO Kit	157-9754	29.60

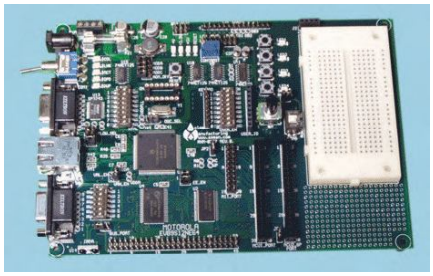
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MC9S12NE64 Evaluation Board



The EVB9S12NE64 is an evaluation or development board for the M9S12NE64microcontroller. Development of applications is quick and easy with the included DB9 serial cable, sample software tools, examples, and debug monitor. The prototyping area provides space to apply the CPU I/O to your needs. The BDM port is provided for development tool application and is compatible with HCS12 BDM interface cables and software.

Features:
- Evaluation board with a 64K flash MC9S12NE64 MCU, Ethernet port, IrDA port, LCD display port, keyboard port, 512 KB SRAM, dual DB9 RS232 serial ports, switches, LEDs, and a breadboard area
- The Connector: MC9S12NE64 Game and the source code
- Three third party TCP/IP stacks with accompanying CDs containing documentation from leading developers offering a range of software price points
- Modify demo code or develop new code for the MC9S12NE64 in assembly or C using free CodeWarrior™ Development Suite for HCS12, Special Edition
- Program and debug code using free CodeWarrior Development Studio for HCS12, special Edition through DB9 serial port, RS232 serial cable included, via the MC9S12NE64 serial monitor or optional BDM Multilink

429059

		Order Code	Price Each
EVB9S12NE64E	Kit, MC9S12NE64 EVAL Board	156-5666●	196.77

MC9S12NE64 16-Bit Microcontrollers

The MC9S12NE is a low-end connectivity applications MCU family, composed of standard on-chip peripherals, including a 16-bit central processing unit (HCS12 CPU). The inclusion of a PLL circuit allows for adjustable power consumption and performance to suit operational requirements. Additionally, an on-chip bandgap-based voltage regulator (VREG_PHY) generates the internal digital supply voltage of 2.5 V (VDD) from a 3.15V to 3.45V external supply range. The MC9S12NE64 has full 16-bit data paths throughout. The 112-pin package version has a total of 70 I/O port pins and 10 input-only pins available.

Features:
- 16-bit HCS12 core
  - Upward compatible with M68HC11 instruction set
  - Interrupt stacking and programmer's model identical to M68HC11
  - Instruction queue
  - Enhanced indexed addressing
  - Memory map and interface (MMC)
  - Interrupt control (INT)
  - Background debug mode (BDM)
  - Enhanced debug12 module, including breakpoints and change-of-flow trace buffer (DBG)
  - Multiplexed expansion bus interface (MEBI) - available only in 112-pin package version
- Ethernet Media access controller (EMAC)
  - IEEE 802.3 compliant
  - Medium-independent interface (MII)
  - Full-duplex and half-duplex modes
  - Flow control using pause frames
  - Address recognition
- 4-channel/16-bit timer module
- Ethertype filter
- Loopback mode
- Two receive and one transmit Ethernet buffer interfaces
- Ethernet 10/100 Mbps transceiver (EPHY)

452089

Mftrs. List No.	Pins/ Package	RAM (KByte)	Flash (KByte)	Interface	Frequency	Channels	Resolution (Bit)	Interrupts	Features	Order Code	Price Each 1+	10+	100+
MC9S12NE64CPVE	112/LQFP	8	64	I2C, SCI, SPI	50	8	10	WDT, KWU (21)	RTI, WDT	SMD 129-6222●	9.25	7.23	6.31

Key: KWU = Key WakeUp, WDT = Watchdog Timer, RTI = Real-Time Interrupt

MC9S12UF32 16-Bit Microcontrollers

The MC9S12UF32 microcontroller unit (MCU) is a 16-bit device composed of standard on-chip peripherals including. In addition to the in-chip full-speed USB 2.0 interface, the MC9S12UF32 has built-in the following interfaces and host controllers: ATA-5 interface, compact Flash, secure digital / multimedia, smartmedia, and memory stick.
Together with the flexible I/O ports, 8-channel, 16-bit timer, this MCU is suited for applications such as multi-card readers, USB thumb drives, and USB to external hard-disk drives.

Features:
High-performance 16-bit HCS12 CPU core● Upward compatible with M68HC11 instruction set
- Interrupt stacking and programmer's model identical to M68HC11
- Instruction pipe
- Enhanced indexed addressing
- Multiplexed external bus
- Integrated Queue controller (IQUE)
- 8-channel, 16-bit enhanced capture timer
- Full/High speed universal serial bus 2.0 (USB 2.0)
- ATA-5 host controller interface
- Flash memory card interfaces
  - Compact Flash host controller
  - Secure digital/multimedia card host controller
  - Smartmedia host controller
  - Memory stick host controller

452095

Mftrs. List No.	Pins/ Package	RAM (KByte)	Flash (KByte)	Interface	Frequency	I/O Pins	Function	Features	Order Code	Price Each 1+	10+	100+
MC9S12UF32PBE	64/LQFP	5	32	SCI, USB	60	77	STOP, WAIT	CAPCOM, WDT, RTI	SMD 129-6223●	5.53	5.13	4.79

Key: CAPCOM = Capture/Compare, RTI = Real-Time Interrupt, WDT = Watchdog Timer

Parallel Port Command Converter for DSP

New

The Freescale Parallel Port Command Converter is an interface device that, with the assistance of the Freescale DSP Software Development Tools Debugger, allows you to send and receive information from your host system to your Freescale DSP-based system. The interface is from the parallel port on your host system, through the Target Interface Module, to the DSP via a JTAG connection.

Features:
- Affordable Debug Connection for DSP Systems
- Supports Desktop, Notebook and Laptop PCs
- Works with Freescale Software Development Environments

527780

Mftrs. List No	Description	Order Code	Price Each
DSPCOMMPARALLELE	Parallel Port Command Converter for DSP	157-9749●	140.99

DSP5685x 16Bit Digitial Signal Controllers

The DSP56857 and DSP56858 are members of the 56800E core-based family of controllers. They combine the processing power of a Digital Signal Processor (DSP) and the functionality of a microcontroller on a single chip. They are well-suited to applications in Internet appliances, portable devices; Internet audio; and point-of-sale systems, such as noise suppression; ID tag readers; sonic/subsonic detectors; security access devices; remote metering; sonic alarms.

DSP5685x Features:
- 120 MIPS at 120MHz
- Six independent channels of DMA
- JTAG/Enhanced On-Chip Emulation (OnCE) for unobtrusive, real-time debugging
- Computer Operating Properly (COP)/Watchdog Timer
- Time-of-Day (TOD)
- nstruction set is highly efficient for C compilers

450840

Mftrs. List No.	Pins/ Package	Program RAM (KByte)	Data RAM (KByte)	Boot ROM (KByte)	GPIO Lines	Number of Timers	Serial Interface	Order Code	Price Each 1+	10+	100+
DSP56858FVE	144/LQFP	40	24	1	47	4	ESSI, SCI, SPI	SMD 129-6192●	11.07	8.66	7.55

Microcontrollers and Microprocessors - 16/32-Bit FREESCALE - continued

DSP56F8xx 16-bit Digital Signal Controller

The DSP56F801 and DSP56F802 are member of the 56800 core-based family of Digital Signal Controllers, which combine the processing power of a DSP and the functionality of a microcontroller with a flexible set of peripherals on a single chip. They are well suited to applications such as motion control, home appliances, encoders, tachometers, limit switches, power supply and control, engine management, and industrial control for power, lighting, automation and HVAC.

DSP56F801 Features:
- Advanced Pulse Width Modulation
- Dual Analog to Digital Converters
- Programmable 16-bit timers
- 8MHz Crystal Oscillator and PLL with integrated pre and post scalars
- On-board power conversion and management
- Serial communications interface module (SCI)
- Serial peripheral interface module (SPI)
- JTAG/OnCE Debug Programming Interface

428992

Mftrs. List No.	Pins/ Package	X Data (kByte)	Internal Program RAM (kByte)	Data Flash (kByte)	Flash (kByte)	Boot Flash (kByte)	Timers	Voltage (V)	Order Code	Price Each 1+	10+	100+
DSP56F801FA80E	48/LQFP	2	2	4	16	4	8	3.3	SMC 114-8361●	4.68	3.89	3.33
DSP56F802TA60E	32/LQFP	2	1	2	8	2	2	3.3	SMC 129-6193●	6.02	3.81	3.31

DEMO56F8013-EE Demonstration Board



New

The 56F8013 Demonstration Board is used to demonstrate the abilities of the 56F8013 digital signal controller and to provide a hardware tool allowing the development of applications. It includes a 56F8013 digital signal controller, RS-232 interface, user LEDs, user pushbutton switches and a daughter card connector. The daughter card connector allows signal monitoring and expandability of user features.

Features:
- 56F8013, a 16-bit +3.3V hybrid controller operating at 32MHz
- JTAG port interface connector
- RS-232 interface, for easy connection to a host processor
- Daughter card connector
- On-board power regulation provided from an external +9V DC-supplied power input
- Light Emitting Diode (LED) power indicator
- Six on-board real-time user debugging LEDs
- Manual RESET push-button
- Manual interrupt #1 & #2 push buttons

524530

Mftrs. List No.	Description	Order Code	Price Each
DEMO56F8013-EE	56F8013 Demonstration Board	165-9636●	93.10

MC56F8037EVM DSC Evaluation Board



New

The MC56F8037EVM evaluation module allows easier and faster development for 56F802x and 56F803x digital signal controllers. The module includes an MC56F8037 digital signal controller, RS-232 interface, user LED's, user push botton switches, and a daughter card connector.

Features:
- Built-in circuitry for RS-232 communication
- User LEDs
- User pushbutton switches
- Daughter card connectors

527771

Mftrs. List No	Description	Order Code	Price Each
MC56F8037EVM	DSC Evaluation Board	157-9771●	133.90

MC56F8367EVME - Evaluation Kit for Digital Signal Controllers



New

The MC56F8367EVME kit is a low-cost kit that contains everything you need to quickly evaluate the features and capabilities of the MC56F8145-67 and MC56F8345-67 controllers silicon and tools. It also provides an efficient, cost-effective vehicle for hardware and software development. It can be used alone, or in conjunction with Freescale's broad range of modular motion control development hardware. The MC56F8367EVME Kit is targeted for use on PC-compatible systems running Windows® 95, Windows 98, Windows 2000, Windows ME, Windows NT 4.0, and Windows XP

Features:
- MC56F836716-bit digital signal controller
- External fast static RAM (FSRAM) memory
- 8.00MHz crystal oscillator for DSP frequency generation
- Optional external oscillator frequency input connector
- Joint Test Action Group (JTAG) port interface connector to interface to an external command converter
- On-board Parallel port command converter, with a connector for a PC printer port cable
- RS-232 interface for easy connection to a host processor
- Pair of Standard Daughter Card connectors enabling connection of application specific and user generated Daughter Cards
- High Speed 1 Mbps CAN interface

527773

Mftrs. List No	Description	Order Code	Price Each
MC56F8367EVME	Evaluation Kit for Digital Signal Controllers	157-9775●	201.13

DSP56800E 16-Bit Digital Signal Controller Family

The DSP56800E core architecture provides low-cost, low-power, mid-performance computing,combining DSC power and parallelism with MCU-like programming simplicity. The DSP56800E core is a general-purpose central processing unit, designed for both efficient digital signal processing and a variety of controller operations. The DSP56800E's efficient instruction set and bus structure, extensive parallelism, on-chip program and data memories, and advanced debugging and test features make the core an excellent solution for real-time,embedded DSC and control tasks.

DSP56800E Features:
- DRAM/SRAM external memory interfaces
- Two Serial Communication Interfaces (SCIs)
- Up to two Serial Peripheral Interface (SPIs)
- JTAG/Enhanced On-Chip Emulation (OnCE™) for unobtrusive, real-time debugging
- DSP and MCU functionality in a unified, C-efficient architecture

429020

Mftrs. List No.	Pins/ Package	RAM (kByte)	RAM (kByte)	Flash (kByte)	Flash (kByte)	BootFLASH (kByte)	Type	Order Code	Price Each 1+	10+	100+
MC56F8013VFAE	32/LQFP	4	0	0	16	0	I2C, LIN, SCI, SPI	SMC 116-5821●	3.62	3.02	2.42
MC56F8014VFAE	32/LQFP	4	0	0	16	0	I2C, LIN, SCI, SPI	SMC 116-5822●	4.15	3.20	2.79
MC56F8023VLC	32/LQFP	2	2	0	32	0	I2C, SCI, SPI	NEW SMC 165-9684●	8.01	6.68	5.34
MC56F8025VLD	44/LQFP	2	2	0	32	0	I2C, SCI, SPI	NEW SMC 165-9681●	8.23	6.86	5.48
MC56F8037VLH	64/LQFP	4	4	0	64	0	CAN, I2C, SCI, SPI	NEW SMC 165-9639●	9.98	8.31	6.65
MC56F8123VFBE	64/LQFP	8	0	0	32	8	SCI, SPI	SMC 116-5825●	5.56	4.06	3.54
MC56F8145VFGE	128/LQFP	8	0	0	128	8	SCI, SPI	SMC 116-5828●	9.09	7.10	6.19
MC56F8322MFAE	48/LQFP	8	4	8	32	8	FlexCAN, SCI, SPI	SMC 114-8378●	9.25	6.52	5.69
MC56F8323VFBE	64/LQFP	8	4	8	32	8	FlexCAN, SCI, SPI	SMC 116-5838●	8.17	5.76	5.03
MC56F8323MFBE	64/LQFP	8	4	8	32	8	FlexCAN, SCI, SPI	SMC 129-6203●	8.83	8.23	7.66
MC56F8335VFGE	128/LQFP	8	4	8	64	8	FlexCAN, SCI, SPI	SMC 116-5839●	12.61	10.51	8.42
MC56F8346VFVE	144/LQFP	8	4	8	128	8	FlexCAN, SCI, SPI	SMC 116-5840●	11.75	9.18	7.57
MC56F8355MFGE	128/LQFP	16	4	8	256	16	FlexCAN, SCI, SPI	SMC 129-6204●	17.28	13.93	12.22
MC56F8356MFVE	144/LQFP	16	4	8	256	16	FlexCAN, SCI, SPI	SMC 129-6205●	18.16	14.19	12.38

Mftrs. List No.	Pins/ Package	RAM (kByte)	RAM (kByte)	Flash (kByte)	Flash (kByte)	BootFLASH (kByte)	Type	Order Code	Price Each 1+	10+	100+
MC56F8357VPYE	160/LQFP	16	4	8	256	16	FlexCAN, SCI, SPI	SMD 116-5842●	16.69	13.04	11.38
MC56F8365VFGE	128/LQFP	32	4	32	512	32	FlexCAN, SCI, SPI	SMD 116-5843●	21.74	16.99	14.83
MC56F8366VFVE	144/LQFP	32	4	32	512	32	FlexCAN, SCI, SPI	SMD 116-5844●	21.87	17.10	14.92
MC56F8366MFVE	144/LQFP	32	4	32	512	32	SCI, SPI	NEW SMD 157-9772●	25.34	19.51	16.05
MC56F8367MPYE	160/LQFP	32	4	32	512	32	FlexCAN, SCI, SPI	SMD 129-6208●	24.26	18.85	17.05

Evaluation module for MCF5235 Coldfire microcontroller



New

The M5235BCCKITE is a low cost evaluation module in Business Card Controller (BCC) format for the Freescale MCF5235 Coldfire microcontroller. Application development is quick and easy with the included components, utilities and software. The BDM port is compatible with standard Coldfire® BDM / JTAG Low voltage development cables. The installed monitor software allows easy application debugging and development.

Features:
- MCF5235 CPU
- 2M Byte Flash (16 bit, external)
- 16M Bytes SDRAM (32 bit, external)
- 25Mhz reference crystal, up to 100Mhz operation
- MCU Port, 50 pin GPIO port w/ 1 x 1Mb CAN I/O
- ETPU Port, 20 pins, 16 channels w/ +V supply
- BUS Port, 34 pins, 64K Address, 8 bit Data Bus, 3 selects
- BDM / JTAG Port, 26 Pins, development port.
- COM Port (UART0) w/ RS232 DB9-S Ribbon Connector
- 10/100TX Ethernet Port w/ RJ45 Connector, 4 status Indicators, Auto MDI-X crossover
- CAN port w/ 1Mbaud transceiver, on MCU Port
- RESET switch and indicator
- ABORT (IRQ7) switch
- Regulated +3.3V and +1.5V power supply w/ indicator

Kit Includes:
- DB9 Serial Cable
- Cat 5E Ethernet cable
- BDM Development Cable
- Utility / Support CD
- Manuals
- Wall Adapter power supply

508743

		Order Code	Price Each
M5235BCCKITE	Business Card Controller	157-9758●	201.73

M523xEVB Evaluation Board



New

The ColdFire M523xEVB evaluation board is intended to provide a mechanism for easy customer evaluation of the the MCF523x family of ColdFire microprocessors and to facilitate hardware and software development. The EVB can be used by software and hardware developers to test programs, tools, or circuits without having to develop a complete microprocessor system themselves.

Features:
- MCF5235 Microprocessor (150 MHz max core frequency)
- 32M byte SDRAM, 2M byte external Page Mode Flash
- BDM Debug Development connector
- 10/100 Ethernet PHY and RJ45 connector
- Two CAN transceivers and DB-9 connectors
- Two serial ports and DB-9 connectors
- All internal module signal connectors available via four, 60-pin expansion connectors
- Breakout connector for serial interfaces (eTPU, I2C, QSPI, GPIO)
- ADC Interface
- Chip configuration capability
- Multiple clocking options
- Debug monitor
- Power Port with Power Supply Access
- Power Requirement: 6 to 14V DC input
- Power output: 5V, 3.3V and 1.5V regulated supplies

524534

Mftrs. List No.	Description	Order Code	Price Each
M523XEVBE	M523xEVB Evaluation Board	165-9669●	767.44

M5253EVBE

MCF5253 Evaluation Board



M5253EVBE is a versatile single-board computer based on the MCF5253 ColdFire® processor. It may be used as a powerful microprocessor-based controller in a variety of applications. It serves as a complete microcomputer system for reference design, development/evaluation, training, and educational use. The user need only connect an RS-232 compatible terminal (or a personal computer with terminal emulation software) and a power supply to have a fully functional system.

Features:
- MCF5253 32-Bit ColdFire® Controller
- Additional Memory
- Serial Interfaces
- Digital and Analog Audio I/O connections

Contents:
- EVB Circuit Board
- USB A-B cable (6')
- GE 6-in-1 Cable
- P&E USB BDM Interface
- Power Adapter with Plugs
- MCF5253 Evaluation Board Quick Start Guide
- Warranty Registration Card
- Technical Information Center Worldwide Contact List
- MCF5253 ColdFire® Reference Manual
- M5253EVB User's Manual
- ColdFire® Programmer's Reference Manual

478306

Mftrs. List No.	Order Code	Price Each 1+
M5253EVBE	134-3938●	374.99

Cyclone Pro Universal Standalone In-Circuit Debugger/Programmer



New

The Cyclone PRO is a powerful stand-alone in-circuit programmer and debug interface for Freescale's HC08, HCS08, HC(S)12(X), RS08, and ColdFire V1 architectures. The Cyclone is able to control a processor using the processor's debug port, which allows the user to quickly debug code and program it onto the microcontroller. Communication with the PC occurs via Ethernet, USB, or Serial Port. Once the Cyclone is configured, programming operations may be completed in one touch with or without a PC.

Features:
- Supports: all HC08, HCS08, HC12, HC(S)12(X), ColdFire V1 and RS08
- Ethernet, USB, and serial interfaces
- Fast in-circuit Flash programming
- Scripting capability automates programming of test routines, test execution, erase and final SW programming
- Auto-detects baud rate and frequency of target MCU
- Provides optional overdrive clock to target MCU
- Automatically cycles power for security checks (up to 500 mA)
- Supports 1.8 V to 5.5 V

527752

Mftrs. List No	Description	Order Code	Price Each
M68CYCLONEPROE	Cyclone Pro Development Kit	157-9766●	311.74

RL Re-reeling available

Farnell

Microcontrollers and Microprocessors - 16/32-Bit FREESCALE - continued

V1 ColdFire® Family of 32-bit Microprocessors

The ColdFire CPU has two primary user modes of operation, run and stop. (The CPU also supports a halt mode that is used strictly for debug operations.) The STOP instruction is used to invoke stop and wait modes for this family of devices.

The ColdFire V1 core is the first 8/32-bit compatible architectures microprocessor. Embedded controllers utilizing the V1 core will share common peripherals and development tools with S08 8-bit architecture, providing pin-for-pin compatibility for easier migration to 32-bit performance.
Designed for 32-bit entry-level applications, the V1 core is a simplified version of the ColdFire V2 core. It features improved handling of byte (8-bit) and word (16-bit) operands, while maintaining the same addressing modes and instruction definitions of the ColdFire architecture. By making multiply accumulate (MAC), enhanced MAC (eMAC) and divide (DIV) functions optional, designers can minimize cost in applications that don't require enhanced processing performance.
The ColdFire V1 core utilizes the S08 single-pin background debug module (BDM) for package pin compatibility. This updated debug interface implements a buffer for BDM-readable trace functionality, while maintaining minimum processor overhead.
The V1 core leverages the 2-stage instruction fetch pipeline and 2-stage operand execution pipeline featured in the ColdFire V2 microarchitecture. With a standardized 8-bit bus to S08 peripherals and tightly-coupled 32-bit local memories (flash and SRAM), the V1 core provides an ideal entry point to 32-bit performance. Upward compatibility to all other ColdFire cores (V2 - V4) ensures designs have a roadmap to higher performance.

495294

Mftrs. List No.	Package/ Pins	RAM (kB)	Frequency (MHz)	Type	Range (°C)	Voltage (V)	Order Code	Price Each 1+	10+	100+
MCF51QE128CLH	LQFP	8	50.33	4 Serial & 2 I2C	-40 to 85	3.6	SMD 149-9746	5.54	4.63	3.98
MCF51QE128CLK	LQFP	8	50.33	4 Serial & 2 I2C	-40 to 85	3.6	SMD 149-9747	5.83	4.85	4.16
MCF51QE32CLH	LQFP	8	50.33	–	-40 to 85	–	SMD 149-9748	3.37	2.81	2.41
MCF51QE32LH	LQFP / 64	8	50.33	–	0 to 70	3.6	NEW SMD 156-1464	2.78	2.30	1.98
MCF51QE64CLH	LQFP / 64	8	50.33	–	-40 to 85	3.6	NEW SMD 156-1465	4.71	3.95	3.38
MCF51QE96CLH	LQFP / 64	8	50.33	–	-40 to 85	3.6	NEW SMD 156-1466	5.07	4.23	3.64
MCF51QE96CLK	LQFP / 80	8	50.33	–	-40 to 85	3.6	NEW SMD 156-1468	5.34	4.45	3.82

Flexis™ AC Family Demo & Expansion Board

New



The **DEMOACKIT** is a flexible and cost effective demonstration kit for the Flexis AC device family. It contains daughter cards for both the MC9S08AC128CLKE (S08) and the MCF51AC256CLKE (ColdFire V1) processor. It features a ZIF socket, a built-in USB BDM, LEDs, a serial port, an acceleration sensor and an I/O header. Application development on the DEMOAC is quick and easy with the integrated USB-BDM, sample software tools, and examples.
The **DEMOACEX** is a peripheral expansion board designed to interface with the DEMOAC board. It applies the Freescale MC33794 E-Field Imaging Sensor connectedto touch-pad in various arrangements. An 80-pin IO header allows it to connect directly to the DEMOAC board.

DEMOACKIT Features:
- ON/OFF Power Switch
- Power Input Select Option Header
- On-board 5V regulator
- Optional Power Sourced to Connector J1
- 4MHz XTAL Oscillator
- 3-axis accelerometer
- LEDs - 4 User, 1 Power, 1 Reset
- Push button switches - 4 user, 1 Reset
- 5K ohm POT
- Jumpers to disconnect User Features
- 80-pin MCU PORT provides access to MCU signals
- 4 20-pos pin-headers support plug-in MCU modules
- IIC Termination Select Header

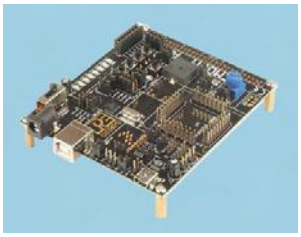
DEMOACEX Features:
- 80-pin MCU PORT connects to DEMOAC board
- 9ch, E-Field Sensor
- E-Field Touch Pad including Rotary Dial and Push-Buttons
- 2 Low-Pass RC Filters
- 5V - 12V Boost Switcher Power Supply for E-Field Sensor
- LEDs - 10 User, 1 E-Field Lamp
- CAN 2.0 A/B PHY w/ 3-pos header
- Jumpers to disconnect all IO signals
- SOIC and TSSOP pads for external IC's
- Large thru-hole prototyping area w/ +adjacent 5V and GND

515865

		Order Code	Price Each
DEMOACKIT	Flexis™ AC Family Demo Board	161-5612	87.44
DEMOACEX	Expansion Board	161-5613	18.25

DEMOJMSKT Demo and Development System

New



This system permits evaluation of the MC9S08JM60 microcontroller. It consists of a DEMOJM Base Board and a DCJMSKT daughter card which has a 64LQFP socket to accommodate JM family devices. P&E's Embedded Multilink circuitry on the DEMOJM board allows the processor connected to the DEMOJM to be debugged and programmed via USB from a PC. The demo board can be powered using the USB bus.

DEMOJM Base Board Features:
- On-board Logic Analyser
- On-board Virtual Serial Port
- ON/OFF Power Switch w/ LED indicator
- Power Input Selection Jumpers for selecting the input voltage source

User Features:
- USB device mode and host mode support with Mini-AB USB connector
- CAN Module w/Enable
- 3-axis Accelerometer w/Enable
- 8 User LED's w/ Enable
- 4 User Push Buttons w/ Enable
- 1 Piezzo Buzzer w/ Enable
- IIC Pullups w/ Enable
- 10K Ohm POT w/ Enable

501462

Mftrs. List No	Description	Order Code	Price Each
DEMOJMSKT	DEMOJM Board with Socket	155-2954	70.48

Flexis™ JM Family Demo Board

New



The DEMOJM is a cost-effective kit enabling quick microcontroller evaluation. The kit includes a DEMOJM base board, a red MCF51JM128 daughter card, and a green MC9S08JM60 daughter card. The included kit can first be used to demonstrate the features of the MC9S08JM60 devices, starting with an on-chip USB device controller and transceiver, the user can then change to the MCF51JM128 with an on-chip USB host and device dual-role controller.

Features:
- Freescale MMA7260QT 3-axis Accelerometer
- Virtual Serial Port
- USB device mode and host mode support with Mini-AB USB connector
- CAN transceiver
- 8 User LED's
- 1 Piezzo Buzzer
- I^2C Pullups
- ADC with 10K Ohm POT
- 5 Push Buttons

516005

		Order Code	Price Each
DEMOJM	Flexis™ JM Family Demo Board	161-5614	70.30
DC9S08JM16	S08JM16 Daughter Card	162-2668	9.49

Evaluation System for MCF51JM128 Flexis™ USB Family

New



The EVB51JM128 is a low-cost development system for the Freescale MCF51JM128 ColdFire® microcontroller. The USB On-The-Go (OTG) feature is supported in hardware through a dedicated USB mini-AB connector and in software through the included complimentary USB-LITE stack by CMX. CodeWarrior Development Tools provide support for quick and easy application development and debug.

Features:
- MCF51JM128 MCU, 80 pins
- 128K Byte Flash, 16K Byte Ram
- USB Phy w/ OTG Support
- Cryptographic Acceleration Unit
- BDM / JTAG Port
- USB On-The-Go Support with Mini AB connector
- USB FS/LS Support with Type-B connector
- ON/OFF Power Switch with LED voltage indicators

User Features:
- 3-Axis MMA7260 Accelerometer
- IR Diode
- 5k ohm POT
- Light Sensor
- Externally Modulated Buzzer
- 8 User LED's
- 4 User Push Switches

516027

		Order Code	Price Each
EVB51JM128	EVB51JM128 Development System	161-5615●	230.77

M5213EVB Evaluation Board



Demonstrating easy to get, easy to use ColdFire development support, the M5213EVB is a low cost development system for the Freescale MCF521x ColdFire microcontroller family. Application development is quick and easy with the included DB9 serial cable and dBUG firmware monitor. The BDM port is compatible with standard ColdFire BDM / JTAG interface cables and hosting software, allowing easy application debugging and development with a variety of hardware and software tools.

Features:
- MCF5213 CPU
- 256K Byte Flash (on-chip), 32K Byte SRAM (on-chip)
- Up to 80MHz operation
- 8MHz reference crystal
- External clock options
- MCU port
- 60 pin I/O port
- BDM / JTAG Port
- 26-pin development port
- UART0 / Terminal Port w/ RS232 DB9-S Connector
- UART1 Port w/ RS232 DB9-S Connector
- UART2 / CAN port w/ RS232 and 1Mbaud CAN transceiver
- RESET switch and indicator
- 4 User Indicators (LEDs)
- 2 User Push Switches
- 2.4GHz Zigbee capable RF Transceiver
- Regulated +3.3V power supply w/ indicator
- +25VDC, 9VDC typical power input
- Current Consumption: 100ma typical @ 9VDC input

527751

Mftrs. List No	Description	Order Code	Price Each
M5213EVBE	Development Board for MCF5213 MCU	157-9756●	201.13

M5275EVB Design Evaluation System

For MCF5274 and MCF5275 ColdFire Microprocessors

The M5275EVB evaluation board provides an excellent vehicle for embarking on a high-performance embedded design of the MCF5274 or MCF5275 ColdFire microprocessors. With 16 MBytes of DDR SDRAM, 2 MByte of Flash (Upgradable to 4MB), Dual 10/100 BaseT ethernet connectivity, three serial ports (two available to the user), and access to the best-in-class ColdFire debug module, this complete package includes all the components for realizing a MCF5274 or MCF5275 design quickly and easily.

527781

Mftrs. List No	Description	Order Code	Price Each
M5275EVBE	Design Evaluation System for MCF5274/MCF5275 ColdFire Microprocessors	157-9761●	405.61

M5282LITEE Development Kit



M5282LITE is a low cost development kit.Application development is quick and easy with the included evaluation /application board, DB9 serial cable, Ethernet cable, 3rd party Demo Software, Motorola DEBUG monitor, BDM Cable, and GNU Software Tool Package that includes C compiler and source level debug utilities. The BDM port is compatible with standard ColdFire® BDM / JTAG development cables and hosting software, allowing easy application debugging and development.

527763

Mftrs. List No	Description	Order Code	Price Each
M5282LITEE	M5282LITE Development Kit	157-9764●	126.87

V2 ColdFire® Family of 32-bit Microprocessors

V2 ColdFire Features
- 32-bit address bus which can directly address up to 4 Gbytes
- 32-bit data bus
- Variable-length RISC
- Optimised instruction set for high-level language constructs
- Sixteen general-purpose 32-bit data- and address- registers Multiply Accumulate (MAC) unit for DSP applications (ColdFire2M only)
- Supervisor/user modes for system protection
- Vector-base register to relocate exception-vector table
- Special core interfacing signals for integrated memories
- Full debug support

429337

Mftrs. List No.	Pins/ Package	RAM (kB)	Frequency (MHz)	Type	Range (°C)	Voltage (V)	Order Code	Price Each 1+	10+	100+
MCF5211CAE66	64/LQFP	16	66	I2C, QSPI, UART	-40 to 85	3.3	SMD 116-5845●	5.05	4.03	3.93
MCF5212CAE66	64/LQFP	32	66	I2C, QSPI, UART	-40 to 85	3.3	SMD 116-5846●	6.78	5.79	5.65
MCF5213CAF66	100/LQFP	32	66	FlexCAN, I2C, QSPI, UART	-40 to 85	3.3	SMD 116-5848●	10.51	8.13	7.07
MCF5213CAF80	100/LQFP	32	80	FlexCAN, I2C, QSPI, UART	-40 to 85	3.3	SMD 116-5849●	11.08	8.56	7.47
MCF5232CAB80	160/QFP	64	80	I2C, 10/100 Ethernet, UART	-40 to 85	1.5	SMD 116-5852●	14.32	11.19	9.76
MCF5253VM140	225/MAP-BGA	128	140	USB, CAN, I2S, UART, I2C, SPI	-20 to 70	1.32	SMD 134-3937●	14.36	12.33	10.83
MCF5270AB100	160/QFP	64	100	I2C, 10/100 Ethernet, UART, QSPI	0 to 70	1.5	SMD 116-5850●	10.49	8.20	7.16
MCF5271CAB100	160/QFP	64	100	I2C, 10/100 Ethernet, UART, QSPI	-40 to 85	1.5	SMD 116-5851●	13.65	10.53	9.20
MCF5207CVM166	144/MAPBGA	16	166	I2C, QSPI, UART	-40°C to +85°C	1.5	NEW SMD 165-9663●	14.04	11.70	9.36
MCF5275CVM166	256/MAPBGA	64	166	UART, I2C, SPI, USB	-40°C to +85°C	1.5	NEW SMD 165-9667●	21.69	– –	– –

See the **Galep-5 universal pocket programmer** on page 123

M5211DEMO Evaluation Board



The M5211DEMO single board computer is a fully assembled, fully functional development board for the Freescale MCF5211 microcontroller. This development kit comes fully equipped with the powerful MCF5211 microcontroller as well as useful output utilities such as a potentiometer and Analog-to-Digital Converter utility for application demonstration.

Features:
- Temperature range: -40C to +85C
- Memory: 128 Byte FLASH, 16K Byte RAM
- MAC Module and HW Divide
- Low-power optimization
- DMA Controller w/ Timers Interrupt Controller
- 8 Channel 12 Bit A/D
- Edge / Interrupt Port
- 8 PWM timers, 4 GPT Timers
- 5k ohm POT w/ enable jumper
- Option Jumpers
- Power Input Select
- DB9 Serial Connector
- Type B USB connector
- Power Input: +5 - +20VDC, 9VDC typical

509562

		Order Code	Price Each
M5211DEMO	Evaluation Board for ColdFire Family	157-9755●	70.13

KIRIN 32-Bit Microcontrollers

The **MCF520X** family of Kirin microcontrollers answer the call for a flexible memory controller, a combination of external SRAM, Flash memory and a choice of SDRAM memory. The MCF5208 embedded controller integrates the standard ColdFire® communication peripherals and a high performance V2 ColdFire® core.
The **MCF521X** family of Kirin microcontrollers is a low power single-chip solution with up to 521KB of embedded Flash memory. The MCF521X embedded controllers integrate various communication peripherals and a high performance V2 ColdFire® core.
The **MCF5222X** family of Kirin microcontrollers builds upon the MCF521X family by integrating a USB host and On-The-Go (OTG) controller, making it ideal for applications requiring device or host connectivity functionality. The MCF5222X family integrate a high performance V2 ColdFire® core, however the MCF52223 embedded controller adds 16 KB of SRAM and an extra 128 KB of Flash to the standard MCF5222X peripheral set.
The **MCF5223X** family of Kirin microcontrollers are single-chip solutions that provide 32-bit control with an Ethernet interface. The MCF5223X combines a 10/100 Fast Ethernet Controller (FEC) and Ethernet Physical Layer (EPHY) with a high performance V2 ColdFire® core.

RL Re-reeling available

Farnell

Microcontrollers and Microprocessors - 16/32-Bit FREESCALE - continued

KIRIN 32-Bit Microcontrollers - continued

519472

Pins/Package	Clock Frequency (MHz)	No. of I/Os	Operating Voltage (V)	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
196/PBGA	166.67	50	3 to 3.6	MCF5208 RISC Microprocessor	MCF5208CVM166	SMD 157-9849●	9.76	7.52	6.20
81/PBGA	66	33	3 to 3.6	MCF5212 ColdFire Microcontroller	MCF5212LCVM66	SMD 157-9851●	8.90	6.85	5.64
81/PBGA	80	33	3 to 3.6	MCF5212 ColdFire Microcontroller	MCF5212LCVM80	SMD 157-9852●	9.53	7.33	6.03
81/PBGA	80	44	3 to 3.6	MCF5213 ColdFire Microcontroller, FlexCAN	MCF5213LCVM66	SMD 157-9853●	9.20	7.07	5.83
100/LQFP	80	55	3 to 3.6	MCF52223 ColdFire Microcontroller with USB	MCF52223CAF80	SMD 157-9854●	10.25	7.88	6.49
112/LQFP	60	73	3 to 3.6	MCF52230 Microcontroller	MCF52230CAL60	SMD 157-9855●	11.57	8.90	7.32
100/LQFP	60	43	3 to 3.6	MCF52233 Microcontroller	MCF52233CAF60	SMD 157-9856●	12.24	9.42	7.75
112/LQFP	60	73	3 to 3.6	MCF52233 Microcontroller	MCF52233CAL60	SMD 157-9857●	12.56	9.67	7.95
112/LQFP	60	73	3 to 3.6	MCF52234 Microcontroller, FlexCAN	MCF52234CAL60	SMD 157-9858●	13.28	10.22	8.42
112/LQFP	60	73	3 to 3.6	MCF52235 Microcontroller, FlexCAN, CAU, RNGA	MCF52235CAL60	SMD 157-9859●	15.97	12.29	10.10

M52223EVB Evaluation Kit

For ColdFire MCF5222X Microprocessors



The M52223EVB evaluation board provides an excellent vehicle for embarking on a high-performance embedded design of the MCF5222x Family of ColdFire microprocessors. With USB 2.0 On-The-Go connectivity, breakout connectors for serial interfaces (including I2C, QSPI, GPIO, and ADC), and support for a Zigbee-ready daughter card, this complete package includes all the components for realizing a MCF5223x design quickly and easily.

527761

Mftrs. List No	Description	Order Code	Price Each
M52223EVB	Coldfire MCF5222x Microcontroller Evaluation Board	157-9760●	201.13

MCF5221X Family Evaluation Board



The M52211EVB evaluation board provides an excellent vehicle for embarking on a high-performance embedded design of the MCF5221x Family of ColdFire microprocessors. With USB 2.0 On-The-Go connectivity, breakout connectors for serial interfaces (including UART, I2C, QSPI, GPIO, and ADC), and support for a Zigbee-ready daughter card, this complete package includes all the components for realizing a MCF5221x design quickly and easily.

Features:

- Internal 16-Kbyte SRAM & 128-Kbyte device
- USB 2.0 On-The-Go module
- Abort/IRQ7 logic switch debounced
- PLL Clocking options - Oscillator, Crystal or SMA for external clocking signals
- 3 - UART interface
- Supports Zigbee-ready RF daughter card.
- Breakout connector for serial interfaces (including I2C, QSPI, GPIO, and ADC)
- LEDs for power-up indication, general purpose I/O, and timer output signals
- Potentiometer and light sensor dedicated to the ADC.
- CAN transceiver interface & BDM/JTAG interface
- Super Cap for battery life evaluation

496491

Mftrs. List No.	Order Code	Price Each
M52211EVB	149-9752●	161.09

M5251EVBWR Evaluation System for MCF5251



The 5251 is a versatile single board computer based on the MCF5251 ColdFire® Processor. It may be used as a powerful microprocessor based controller in a variety of applications. It serves as a complete microcomputer system for reference design, development/evaluation, training and educational use. Users need only connect an RS-232 compatible terminal (or a personal computer with terminal emulation software) and a power supply to have a fully functional system.

527760

Mftrs. List No	Description	Order Code	Price Each
M5251EVBWR	Design Evaluation System for MCF5251	157-9759●	610.91

See the range of **8/14-pin Clock Oscillators** from AEL on page 262

MCF522x 32-Bit Microcontroller

MCF5221x Family features an integrated USB On-The-Go (OTG) and a wide variety of serial interface offerings up to three UARTS, one SPI, two I2C which makes it ideal to develop applications requiring device or host USB plus easy connection to other systems.The MCF5223x family of 68K/ColdFire devices are single-chip solutions that provide 32-bit control with an Ethernet interface. It combines a 10/100 Fast Ethernet Controller (FEC) and Ethernet Physical Layer (EPHY) with the Version 2 ColdFire core for exceptional performance at a reasonable cost. The MCF5223x embedded controller provides the designer with the right set of peripherals and memory size for a compact Ethernet-enabled platform that cuts development time and cost to help your products get to market quicker.

The MCF5223x Family integrates standard 68K/ColdFire peripherals, including three universal asynchronous receiver/transmitters (UARTs) for medium and long distance connections, an inter-integrated circuit (I2C) and queued serial peripheral interface (QSPI) for in-system communications to connected peripherals.

MCF5221x

- V2 ColdFire core delivering 76 (Dhrystone 2.1) MIPS @ 66,80 MHz
- Flash 64KB, 128KB
- SRAM 16KB, 8KB.
- Integrated peripherals: USB OTG, TwoPTI, Up to three UART, Two I2C, Up to three SCI & PWM module

MCP5223x

- V2 ColdFire core delivering 57 (Dhrystone 2.1) MIPS at 60 MHz
- eMAC Module and HW Divide
- 32K bytes SRAM, 256K bytes Flash
- Integrated Peripherals:10/100, Ethernet MAC with PHY, Cryptographic Acceleration Unit with Random Number Generator, CAN 2.0B Controller FlexCAN, 3 UARTs, QSPI, I2C bus interface, 12-bit ADC

496504

Mftrs. List No.	Pins/ Package	Internal RAM (KByte)	Internal Program Flash (KByte)	Operating Frequency (MHz)	A/D Converter Channels	Order Code	Price Each 1+	10+	100+
MCF52210CAE66	64/LQFP	16	64	66	8	SMD 149-9753●	4.66	4.36	4.06
MCF52210CEP66	64/QFN	16	64	33	8	SMD 149-9754●	4.66	4.36	4.06
MCF52211CAE66	64/LQFP	16	128	66	8	SMD 149-9755●	5.44	5.06	4.71
MCF52211CAF80	100/LQFP	16	128	80	8	SMD 149-9756●	7.30	6.80	6.34
MCF52211CEP66	64/QFN	16	128	66	8	SMD 149-9757●	5.44	5.06	4.71
MCF52212CAE50	64/LQFP	8	64	25	8	SMD 149-9745●	3.43	3.19	2.97

Mftrs. List No.	Pins/ Package	Internal RAM (KByte)	Internal Program Flash (KByte)	Operating Frequency (MHz)	A/D Converter Channels	Order Code	Price Each 1+	10+	100+
MCF52213CAE50	64/LQFP	8	128	50	8	SMD 149-9744●	4.50	4.20	3.90
MCF52223CAF66	100/LQFP	32	256	66	8	NEW SMD 165-9658●	18.51	15.42	12.33
MCF52232CAF50	80/LQFP	32	128	50	8	SMD 149-9743●	5.95	5.56	5.17
MCF52236CAF50	80/LQFP	32	256	50	8	SMD 149-9742●	6.50	6.06	5.65
MCF52277CVM160	196/MABGA	128	–	160	–	NEW SMD 161-5616●	8.22	6.85	5.67

Evaluation Kit for MCF5223x Microcontrollers

The M52235EVB evaluation board provides an excellent vehicle for embarking on a high-performance embedded design of the MCF5223x Family of ColdFire microprocessors. With 10/100 BaseT ethernet connectivity, breakout connectors for serial interfaces (including I2C, QSPI, GPIO, and ADC), and support for a Zigbee-ready daughter card, this complete package includes all the components for realizing an MCF5223x design quickly and easily.

Features:
- 256-Kbyte internal flash
- Ethernet port 10/100Mb/s with on-chip PHY
- Abort/IRQ7 logic switch debounced
- PLL Clocking options - Oscillator, Crystal or SMA for external clocking signals
- 3 - UART interfaces auxiliary RS-232 serial port and standard DB9 connections
- Supports Zigbee-ready RF daughter card
- Breakout connector for serial interfaces including I2C, QSPI, GPIO, and ADC
- LEDs for power-up indication, general purpose I/O, and timer output signals
- Power over Ethernet
- Potentiometer and light sensor dedicated to the ADC
- CAN transceiver interface & BDM/JTAG interface

496478

Mftrs. List No.	Order Code	Price Each
MCF5223EVB	149-9751●	95.36

M52277EVB Evaluation Board



The M52277 Evaluation Board (EVB) is based on the V2 ColdeFire Core with EMAC. It is supplied with the MCF52277 populated to allow for the evaluation of all of the functionality of this part. This board was designed as a validation platform for the primary goal of maximum flexibility and power and speed, where possible.

Features:
- On Board Sharp 240 x 320 color touch screen LCD panel
- 60 pin external LCD connector
- Synchronous Serial Interface (SSI) connected to audio CODEC
- USB Support
- MCF52277 on-chip OTG transceiver
- Crystal/Clock
- BDM/JTAG
- Two UARTs
- FlexBus
- Timers
- External Interrupts
- CAN Support
- External CAN transceiver
- University Breakout Connector for serial interfaces

Power:
- Inputs
- 5V Input to the voltage regulator circuitry
- Regulated On-board voltages:
- 3.3 V - I/O Voltage
- 1.8 V - Mobile DDR and Flash Voltage
- 1.5 V - MCF52277 Core Voltage

Memory Subsystems:
- 32M x 16 Mobile DDR
- 8M x 16 NOR Flash
- 16Mbit Serial Boot Flash

516034

		Order Code	Price Each
M52277EVB	M52277EVB Evaluation Board	161-5617●	302.18

ZOOM™ COLDFIRE SDK Development Kit



The Zoom™ ColdFire SDK is a low-cost, high-performance application development kit for evaluating the functionality of the Freescale ColdFire processor and Fire Engine. Application development is performed right on the product-ready Fire Engine and software Board Support Packages (BSPs) included in the kit, which enables customers to seamlessly transfer their application code and hardware into production.

Features:
- Low-cost development kit
- Includes product-ready Fire Engine
- Compact size
- Ready to run Board Support Packages (BSPs)

508784

Mftrs. List No	Description	Order Code	Price Each
M5329EVBE	ZOOM™ COLDFIRE SDK Development Kit	157-9763●	436.91

MCF5329 Fire Engine

System on Module



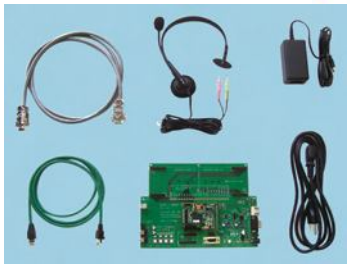
The MCF5329 Fire Engine is a complete System on Module that offers essential features for handheld and embedded networking applications. Use of custom baseboards makes it the ideal foundation for OEMs developing handheld and compact products. It provides a common reference pinout on its expansion connectors, which enables easy scalability to next generation microprocessor Fire Engines when new functionality or performance is required.

Features:
- Product-ready SOM with MCF5329 ColdFire processor @ 240 MHz
- SOM Card Engine form factor
- 60.2 mm x 67.8 mm x 4.4 mm
- Long product lifecycle
- Multiple third-party software options
- 0 to 70°C Temperature Range

508773

Mftrs. List No	Description	Order Code	Price Each
M5329BFE	M5329BFE Fire Engine Module	157-9762●	152.85

M53281KIT VoIP Development Kit



This ColdFire Embedded VoIP Development Kit, is a compact, easy-to integrate development system for enabling commercial VoIP functionality in embedded applications. The module is based on the 240 MHz Freescale ColdFire MCF53281 microprocessor and includes all required system memory and terminations to enable most applications without the need for external circuitry.

Kit Includes:
- Host board
- M53281MOD Module
- Video interface daughter card
- Audio headset
- P&E BDM wiggler
- Power supply
- GNU tools
- VoIP and management software
- All licenses for VoIP and management software use
- Documentation and out-of-the-box
- VoIP demo

515809

Mftrs. List No.	Description	Order Code	Price Each
M53281KIT	VoIP Development System	161-8625●	475.49

USB ColdFire® Multilink



The USB ColdFire® Multilink is an easy-to-use debug and programming interface for the ColdFire V2/V3/V4 line of microprocessors. The USB ColdFire Multilink is a member of P&E's family of USB Multilinks, which allow the PC to communicate with a target processor through the USB port of the PC. The Multillink controls the microprocessor by accessing the Background Debug Mode (BDM) of the target.

Features:
- Fast, hassle-free USB 2.0 communications interface
- Draws power directly from the USB port - no external power supply needed
- Multi-voltage support for targets ranging from 1.8 to 5.5V
- Compact size

Microcontrollers and Microprocessors - 16/32-Bit FREESCALE - continued

USB ColdFire® Multilink - continued

508870

Mftrs. List No	Description	Order Code	Price Each
USBMLCF	USB ColdFire Multilink	157-9893●	167.44

M54455EVB Evaluation Board



The M54455EVB platform provides an evaluation system for the Freescale MCF5445x ColdFire® V4m embedded microprocessor family. The MCF54455 is the superset device in the family and is the processor featured on this platform. This allows evaluation and development for the entire family on a single hardware platform.

Features:
- MCF54455 ColdFire microprocessor
- DDR2 SDRAM, 2x NOR flash memory devices, Serial flash, MRAM
- 4x PCI slots, Two-port Ethernet interface, 40-pin ATA connector, Audio interface
- Multiple USB interface options, 2x RS232 serial ports, 1x USB serial port
- Built-in P&E Micro USB Multilink debug interface
- Standard 26-pin BDM header
- Serial interface header for access to timers, interrupts, DSPI, I2C, and more
- Clock generation logic adjustable via I2C
- LEDs and 7-segment display programmable via CPLD and FPGA

524533

Mftrs. List No.	Description	Order Code	Price Each
M54455EVB	M54455EVB Evaluation Board	165-9638●	938.45

M548xEVB Development System
For the ColdFire MCF548x Family



The M548xEVB development system provides everything required to quickly develop an embedded design with the MCF548x processor family. The kit contains a system-on-module, called a Fire Engine, containing 64 MBytes of DDR-SDRAM, 16 MB of Flash, and a graphics contoller. The Fire Engine module, along with the included ethernet ports, PCI slots, CAN interfaces, serial interfaces, and the best-in-class ColdFire debug module generates a complete package to enable quick design support for the MCF5484

527770

Mftrs. List No	Description	Order Code	Price Each
M5484LITEKITE	ColdFire LITEKIT Development Kit	157-9765●	235.36

See our range of **Resonators** from AVX on page 277

ColdFire® Family of 32-bit Microprocessors

The ColdFire Microprocessor Family is the successor to Freescale's Legacy 68K Family tree. The new variable-length RISC 68K Family architecture delivers the aggressive price/performance required by the cost-sensitive embedded market.
The variable-length RISC ColdFire architecture gives greater flexibility to lower memory and system costs. Because instructions can be 16-, 32- or 48 bits long, code is packed tighter in memory resulting in better code density than traditional 32- and 64-bit RISC machines. Efficient use of on-chip memory reduces bus bandwidth and the external memory required.
ColdFire microprocessors are in use in products ranging from industrial automation systems to inkjet printers and MP3 players

ColdFire Architecture
- All cores are 100% fully synthesizable
- Parameterizable - all options exist within a single design description
- Configurable

-Generic local-memory controllers support a range of sizes
-Choose size using compiled memory arrays

- Hierarchical architecture

-Multiple buses provide layers of bandwidth + modularity
-Standard internal bus structure provides simple interface

- Design-for-Test

-Muxed D-FF rising-edge clocked design
-ATPG scan vectors for stuck-at, speed testing
-BIST test methodology for memories

- Deployment focused on soft macro RTL + support of hard macros

429174

Mftrs. List No.	Pins/ Package	Internal RAM (KByte)	Operating Frequency (MHz)	Serial Interface Type	Temperature Range (°C)	Core Operating Voltage (V)	Order Code	Price Each 1+	10+	100+
MCF5206EAB40	160/QFP	8	40	UART	0 to 70	3.3	SMD 114-8470●	11.46	8.96	7.82
MCF5206EAB54	160/QFP	8	54	UART	0 to 70	3.3	SMD 114-8471●	14.22	11.11	9.69
MCF5206ECAB40	160/QFP	8	40	UART	-40 to 85	3.3	SMD 114-8472●	14.22	11.11	9.69
MCF5216CVM66	256/MAP-BGA	64	66	FlexCAN, I2C, QSPI, UART	-40 to 85	3.3	SMD 114-8474●	11.21	9.39	8.20
MCF5232CVM150	196/MAPBGA	64	150	CAN, I2C, UART	-40 to 85	1.6	NEW SMD 157-9860●	19.23	14.79	12.18
MCF5249LAG120	144/LQFP	96	120	I2C, QSPI, UART	0 to 70	1.8	SMD 114-8475●	11.40	9.52	7.60
MCF5249VM140	160/MAP-BGA	96	140	I2C, QSPI, UART	0 to 70	1.8	SMD 114-8476●	20.06	14.16	12.76
MCF5270CVM150	196/BGA	64	150	–	-40 to 85	1.6	NEW SMD 157-9862●	12.75	9.82	8.09
MCF5270VM100	196/BGA	64	100	–	0 to 70	1.6	NEW SMD 157-9863●	10.66	8.20	6.73
MCF5271CVM100	196/BGA	64	100	–	-40 to 85	1.6	NEW SMD 157-9864●	13.49	10.37	8.87
MCF5271CVM150	196/BGA	64	150	–	-40 to 85	1.6	NEW SMD 157-9865●	14.88	11.45	9.42
MCF5272CVM66	256/MAP-BGA	4	66	10/100MbT Ethernet, QSPI, TDM, UART, USB	-40 to 85	3.3	SMD 114-8477●	13.91	11.60	9.41
MCF5272VM66	196/MAP-BGA	4	66	10/100MbT Ethernet, QSPI, TDM, UART, USB	0 to 70	3.3	SMD 114-8478●	13.95	10.90	8.99
MCF5272VM66R2	196/MAPBGA	4	66	–	-40 to 85	–	NEW SMD 157-9866●	14.40	11.08	9.12
MCF5274VM166	256/MAPBGA	64	166	UART, I2C, SPI, USB	0 to 70	–	NEW SMD 157-9867●	14.54	11.18	9.21
MCF5275LCVM166	196/MAPBGA	64	166	UART, I2C, SPI, USB	-40 to 85	1.6	NEW SMD 157-9868●	14.54	11.18	9.21
MCF5280CVM66	256/MAP-BGA	64	66	FlexCAN, I2C, MAC (FEC) 10/100 Ethernet, QSPI, UART	-40 to 85	3.3	SMD 114-8479●	20.90	16.14	14.09
MCF5282CVM66	256/MAP-BGA	64	66	FlexCAN, I2C, MAC (FEC) 10/100 Ethernet, QSPI, UART	-40 to 85	3.3	SMD 114-8480●	24.80	19.39	16.92
MCF5307AI66B	208/FQFP	4	66	I2C, UART	0 to 70	3.3	SMD 114-8481●	18.33	14.32	12.50
MCF5307AI90B	208/FQFP	4	90	I2C, UART	0 to 70	3.3	SMD 114-8482●	24.15	18.87	16.47
MCF5328CVM240	256/MAPBGA	32	240	I2C, UART	-40 to 85	1.6	NEW SMD 157-9869●	17.02	13.10	10.77
MCF5329CVM240	256/MAPBGA	32	240	I2C, SPI, UART, USB, CAN	-40 to 85	1.6	NEW SMD 157-9870●	19.86	15.28	13.09
MCF5373LCVM240	196/MAPBGA	32	240	–	-40 to 85	1.6	NEW SMD 157-9871●	17.73	13.65	11.23
MCF5407AI162	208/FQFP	4	162	I2C, UART	0 to 70	1.8	SMD 114-8484●	32.04	25.47	22.23
MCF5407AI220	208/FQFP	4	220	I2C, UART	0 to 70	1.8	SMD 114-8486●	39.47	30.86	26.93
MCF5407CAI162	208/FQFP	4	162	I2C, UART	-40 to 85	1.8	NEW SMD 114-8487●	39.47	30.86	26.93

V4 ColdFire® Family of 32-bit Microprocessors

The next-generation ColdFire® microarchitecture provides a 2.8x performance improvement when compared with the ColdFire 3 core over a broad range of applications.

V4 ColdFire Features
- Improved microarchitecture for higher performance: greater than 200 Dhrystone 2.1 MIPS @ 150 MHz
- Small set of new instructions for better code density and performance
- Enhanced MAC and debug functionality
- Core size = 4.5 mm2 in 0.25 micron drawn process
- Independent, decoupled pipelines
  -4-stage Instruction Fetch Pipeline (IFP)
  -5-stage Operand Execution Pipeline
  -FIFO I-Buffer is the decoupling mechanism
- Limited superscalar execution through use of instruction folding
  -Approaches dual-issue performance but at a much lower silicon cost
- Harvard memory architecture
- Most instructions execute in 1 cycle
- Sophisticated 2-level branch acceleration mechanisms in the IFP minimize execution time of change

429371

RL Re-reeling available

Mftrs. List No.	Pins/ Package	RAM (KByte)	Frequency (MHz)	Type	Range (°C)	Voltage (V)	Order Code	Price Each 1+	10+	100+
MCF5407CAI220	208/FQFP	4	220	I2C, UART	-40 to 85	3.3	SMD 116-5853●	43.66	34.89	30.44
MCF5472VR200	388/PBGA	32	200	UART	0 to 70	–	NEW SMD 157-9872●	24.70	19.01	15.64
MCF5475VR266	388/PBGA	32	266	UART	0 to 70	–	NEW SMD 157-9874●	33.46	25.74	21.18
MCF5484CVR200	388/PBGA	32	200	I2C, UART, DMA	-40°C to +85°C to	3.3	NEW SMD 165-9675●	40.51	– –	– –
MCF5470VR200	388/PBGA	32	200	UART	0°C to +70°C to	3.3	NEW SMD 165-9685●	29.25	– –	– –

ADS512101 Advanced Development System



New

The ADS512101 is a Mini-ITX embedded advanced development mainboard for the MPC5121e. It can be used as either an evaluation tool, development system or target product. It can be used with all standard Mini-ITX accessories. The product kit includes a 5V wallcube and worldwide adapters, pre-loaded U-Boot, quick start guide and CD with demonstration software, schematics, user manual, and 3rd party information.

Features:
- Standard Mini-ITX Mainboard
- LVDS 24bit (LCD), XGA, HDMI video support
- SATA/PATA (IDE) support
- Micro-SD Card slot
- PCI slot
- 2 Mini-PCI (radio slots)
- 10/100 Ethernet copper
- RS232, CAN (2 each, Dsub & RJ)
- DDR2 RAM
- Power Save Hibernate
- NOR, NAND, and Backup FLASH
- Local Bus IO connector
- USB A, B, OTG
- JTAG and Control CPL
- Power connectors for 5V external power supply or standard ATX power supply

515810

Mftrs. List No.	Description	Order Code	Price Each
ADS512101	Development Mainboard for the MPC5121e	161-8626▲	699.25

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Lite5200B Evaluation Board



New

The 5200B evaluation board provides developers with a cost-effective method to evaluate the power of our 400 MHz MPC5200B. The MPC5200B processor includes support for DDR memory, a second PCI slot and expanded Flash and SDRAM memory. The board makes Ethernet, USB, PCI, ATA, serial interfaces, CAN and GPIO with complete DDR, SDRAM and Flash memory support available. The I2C, I2S, SPI, J1850, AC97 and secondary port facilities, as well as all other resources of the MPC5200B, are accessible via an on-board connector and user-supplied transceivers. Because nearly all of the MPC5200B's I/O pins are re-programmable, various combinations of I/O may be traded off, depending on the user's specific needs.

527755

Mftrs. List No	Description	Order Code	Price Each
CWMPCEVB5200BE	Lite5200 Evaluation Board	157-9742●	621.29

MPC5554 Evaluation Board

The MPC5554EVB Evaluation Kit include everything necessary to begin development with the MPC5554 family of microcontrollers. A comprehensive set of hardware and software development tool options are available including a free a flash programmer, initialization tools, and assembly level debug tool.

Features:
- Breadboard area, access to all signals
- Nexus Connectors (MICTOR and 14-pin Berg). Footprint for Robust Connector
- 32-channel eTPU connector
- 1x CAN with PHY (Auto Temp Qualified)
- 1x LIN Transceiver with PHY
- 1x RS-232 Transceiver with PHY
- 8x LEDs
- 4x push buttons - 1 with hardware debounce, 8 SPST switches
- 2x Potentiometers
- 1x Audio Speaker with amplifier
- UNI-3 Motor Interface connector plus sensor connector
- 128Kx32 external SRAM

New

527782

Mftrs. List No	Description	Order Code	Price Each
MPC5554EVBE	MPC5554 Eval Board	157-9884●	468.73

MPC555 32-Bit Microcontroller

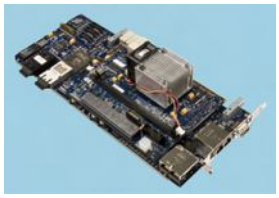
The MPC555 is a high speed 32-bit Central Processing Unit that contains a floating point unit designed to accelerate the advanced algorithms necessary to support complex applications. High performance data manipulation capabilities and a large on-chip FLASH memory with powerful peripheral subsystems allow for the flexibility to change or upgrade your product late in the production cycle.

MCP5200 Features:
- 16K Instruction and 16K Data Caches
- 10/100 Ethernet MAC
- Peripheral Control Interface (PCI) Version 2.2
- ATA/IDE Interface
- USB 1.1 Host (two each USB 2.0 compatible)
- Programmable Serial Controllers (six)
- Serial Peripheral Interface (SPI)
- I2C (two)
- I2S (up to three)
- CAN 2.0 A/B (two)
- 8 Timers

429209

Mftrs. List No.	Pins/ Package	(KByte)	Flash (KByte)	(MHz)	Channels	Voltage (V)	Voltage (V)	Order Code	Price Each 1+	10+	100+
MPC555LFMVR40	272/PBGA	26	448	40	32	5	3.3	SMD 114-8504●	69.90	54.64	47.68

Configurable Development Systems



MPC8548CDS

New

The **MPC8548E CDS** supports a wide range of Freescale processors built on Power Architecture technology such as the MPC8548E family of processors including the MPC8548, MPC8547E, MPC8545E and MPC8543E. The system is primarily a development and evaluation system, which is enhanced by its modular design, making it highly configurable.



MPC8555CDS

The **MPC8555 CDS** system is designed to aid hardware and software developers of the PowerQUICC™ III family by providing an evaluation platform for MPC8555E, and MPC8541E derivatives in the 783-pin FC-PBGA package.
The CDS system is preloaded with U-boot and Linux BSP, it has 256MB DDR SDRAM DIMM module, 2 banks of Flash 64Mb each. The on-board interfaces include JTAG/COP, USB, Dual UART, Dual PCI, 10/100/1000 Base-T Fast Ethernets interface, and a 155 Mbps ATM UNI with optical interface.

527776

Mftrs. List No	Description	Order Code	Price Each
MPC8548CDS	MPC8548CDS Configurable Development System	157-9890●	3,538.00
MPC8555CDS	MPC8555CDS Configurable Development System	157-9891●	3,214.38

Over 480,000 products online QGO

Microcontrollers and Microprocessors - 16/32-Bit FREESCALE - continued

PowerQUICC™ Communications Processors

Freescale's versatile PowerQUICC delivers functionality tailored to the needs of the embedded communications market space, excelling particularly in broadband access and customer premise equipment applications. Delivering support for protocols including Ethernet, Fast Ethernet, ATM, HDLC, USB and PCMCIA, PowerQUICC processors are well-suited for applications including SOHO routers, remote access routers, DSLAMs, access concentrators, LAN/WAN switches, central office switching, integrated access devices, residential gateways, DSL modems, cable modems, and Voice over IP (VoIP) systems.

429269

Pins/ Package	Operating Frequency (MHz)	Interface Type	I/O Lines	Operating Temperature	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
272/PBGA	40	CAN, QSPI, SCI	101	-40°C to +85°C	MPC555LFCVR40	NEW SMD 157-9887●	64.47	49.59	40.81
388/BGA	40	CAN, SCI, SPI	56	-40°C to +85°C	MPC561CVR40	NEW SMD 165-9687●	35.43	– –	– –
388/PBGA	56	CAN, QSPI, SCI	56	-40°C to +125°C	MPC563MVR56	NEW SMD 157-9888●	54.06	41.59	34.22
256/BGA	100	SPI, UART	59	0°C to +95°C	MPC852TVR100A	NEW SMD 165-9654●	22.91	– –	– –
357/BGA	133	I2C, SPI, UART	59	0°C to +95°C	MPC866PVR133A	NEW SMD 165-9645●	82.93	– –	– –
272/PBGA	400	I2C, PCI, SPI, USB	56	-40°C to +85°C	MPC5200CVR400B	NEW SMD 157-9883●	26.37	20.28	16.69
272/BGA	400	CAN, I2C, I2S, SPI, UART, USB	56	-40°C to +85°C	SPC5200CVR400B	NEW SMD 165-9680●	31.21	– –	– –
416/PBGA	132	CAN, SCI, SPI	56	-40°C to +125°C	MPC5554MVR132	NEW SMD 157-9886●	58.08	44.68	36.77
352/BGA	266	PCI	120	0°C to +105°C	MPC8245LVV266D	NEW SMD 165-9648●	46.16	– –	– –
516/BGA	266	I2C, SPI, TDM, USB	120	-40°C to +105°C	MPC8247CVRMIBA	NEW SMD 165-9660●	37.08	– –	– –
516/BGA	266	I2C, SPI, TDM, USB	120	0°C to +105°C	MPC8247VRMIBA	NEW SMD 165-9668●	33.70	– –	– –
516/BGA	400	I2C, SPI, TDM, USB	120	0°C to +105°C	MPC8247VRTIEA	NEW SMD 165-9652●	43.41	– –	– –
516/BGA	400	I2C, SPI, TDM, USB	120	-40°C to +105°C	MPC8247CVRTIEA	NEW SMD 165-9671●	47.72	– –	– –
516/BGA	266	I2C, SPI, TDM, USB	120	0°C to +105°C	MPC8248VRMIBA	NEW SMD 165-9676●	33.56	– –	– –
516/BGA	400	I2C, SPI, TDM, USB	120	0°C to +105°C	MPC8248VRTIEA	NEW SMD 165-9682●	45.51	– –	– –
516/BGA	400	I2C, SPI, TDM, USB	120	-40°C to +105°C	MPC8248CVRTIEA	NEW SMD 165-9679●	50.08	– –	– –
516/BGA	266	I2C, SPI, TDM, USB	120	0°C to +105°C	MPC8270VRMIBA	NEW SMD 165-9653●	57.74	– –	– –
516/BGA	266	I2C, SPI, TDM, USB	120	-40°C to +105°C	MPC8270CVRMIBA	NEW SMD 165-9641●	63.52	– –	– –
480/BGA	450	I2C, SPI, TDM, USB	120	0°C to +105°C	MPC8270VVUPEA	NEW SMD 165-9655●	95.01	– –	– –
516/BGA	333	I2C, PCI, SPI, UART		-40°C to +105°C	MPC8313CVRAFF	NEW SMD 165-9672●	33.24	– –	– –
516/PBGA	333	UART, I2C, SPI	16	0°C to +105°C	MPC8313EVRAFF	NEW SMD 164-3073●	16.88	– –	– –
516/BGA	333	I2C, PCI, SPI, TDM, UART, USB		0°C to +105°C	MPC8321VRAFDC	NEW SMD 165-9688●	25.46	– –	– –
516/BGA	333	I2C, PCI, SPI, TDM, UART, USB		0°C to +105°C	MPC8323EVRAFDC	NEW SMD 165-9689●	36.13	– –	– –
620/PBGA	400	UART, I2C, SPI	52	0°C to +105°C	MPC8347VRAGDB	NEW SMD 164-3074●	31.84	– –	– –
672/TBGA	533	UART, I2C, SPI	52	0°C to +105°C	MPC8347VVAJFB	NEW SMD 164-3075●	48.68	– –	– –
672/BGA	667	I2C, PCI, SPI, UART	52	0°C to +105°C	MPC8347VVALFB	NEW SMD 165-9683●	98.92	– –	– –
672/TBGA	533	UART, I2C, SPI	64	0°C to +105°C	MPC8349EVVAJFB	NEW SMD 164-3076●	61.33	– –	– –
672/TBGA	667	UART, I2C, SPI	64	0°C to +105°C	MPC8349EVVALFB	NEW SMD 164-3077●	66.65	– –	– –
783/PBGA	266	I2C, SPI, UART		-40°C to +105°C	MPC8541ECVTAJD	NEW SMD 157-9889●	123.15	94.75	77.96
256/PBGA	66	IC2, SPI, UART, USB			XPC823EVR66B2	NEW SMD 157-9896●	42.59	32.76	26.95

MMC2114 32-bit Microcontroller

The MMC2114 single-chip microcontroller is the second member of a family of general purpose microcontrollers based on the M210 core. It cost-effectively integrates digital and analog peripherals with RAM, embedded FLASH memory, and a 32-bit M·CORE microRISC central processor unit on a single-chip. The MMC2114 expands on the features of the popular MMC2107 with twice the FLASH and four times the amount of SRAM.

527794

Mftrs. List No.	Pins/ Package	FLASH (KByte)	RAM (KByte)	I/O Pins	Frequency (MHz)	Serial Interface Type	Operating Temperature	Order Code	Price Each 1+
MMC2114CFCAG33	144/LQFP	256	32	104	33	SCI, SPI	-40°C to +85°C	SMD 165-9643●	24.61

MPC7447A Host Processor

The MPC7447A processor is a high-performance, low-power, 32-bit implementation of the RISC architecture. Key architectural features include 512 KB of on-chip L2 cache, a 64-bit bus interface and a full 128-bit implementation of Freescale's AltiVec™ technology. MPC7447A processors are ideal for leading-edge computing, embedded network control and signal processing applications.

527793

Pins/Pkg	Description	Mftrs. List No.	Order Code	Price Each
360/BGA	MPC7447A RISC Microprocessor	MC7447AVU1000NB	SMD 157-9820●	98.94

68K Microprocessor Family

The **MC68000** version provides a static, low power implementation consuming only 15.0mA in normal 3.3V operation and 0.5mA in static standby mode.

The **MC68020** is the first full 32-bit implementation of the M68000 family of microprocessors. Using VLSI technology, the MC68020 is implemented with 32-bit registers and data paths, 32-bit addresses, a rich instruction set, and versatile addressing modes.

The **MC68030** provides a code-compatible upgrade path to the MC68020. It offers enhanced performance through additional cache, a memory management unit, and a bursting data bus.

The **MC68040** are the fourth generation of M68000-compatible, high-performance, 32-bit microprocessors. The devices are virtual memory microprocessors employing multiple concurrent execution units and a highly integrated architecture that provides very high performance. They integrate an MC68030-compatible integer unit (IU) and two independent caches.

The **MC68060** comes fully equipped with both a floating-point unit (FPU) and a memory management unit (MMU) for high-performance embedded control applications

The **MC68306** is an integrated processor containing an MC68EC000 processor and elements common to many MC68000- and MC68EC000-based systems. Systems requiring serial communication and dynamic random access memory (DRAM) can benefit from using this device.

The **MC68332** ia s highly-integrated 32 bit microcontroller that combines high-performance data manipulation capabilities with powerful peripheral subsystems.This MCU is built up from standard modules that interface through a common intermodule bus (IMB).

The **MC68334** is a highly-integrated 32-bit microcontroller, combines high-performance data manipulation capabilities with powerful peripheral subsystems.

The **MC68340** is a high-performance 32-bit integrated processor with direct memory access (DMA), combining an enhanced M68000-compatible processor, 32-bit DMA, and other peripheral subsystems on a single integrated circuit.

517807

Mftrs. List No.	Pins/ Package	Cache (KByte)	I/O Operating Voltage	Frequency (MHz)	Serial Interface Type	Operating Temperature	Order Code	Price Each 1+	10+	100+
MC68HC000EI8	68/PLCC	–	5V	–	–	-40°C to +85°C	NEW SMD 165-9657●	8.96	7.47	5.97
MC68EC000EI8	68/PLCC	–	5V	8	–	0 to 70°C	SMD 157-9805●	6.28	4.83	3.99
MC68EC000EI10	68/PLCC	–	5V	10	–	0 to 70°C	SMD 157-9803●	7.74	5.95	4.91
MC68EC000EI12	68/PLCC	–	5V	12	–	0 to 70°C	SMD 157-9804●	9.55	7.34	6.06
MC68SEC000AA16	64/TQFP	–	5V	16	–	0 to 70°C	SMD 157-9819●	9.08	6.99	5.74

RL Re-reeling available

Mftrs. List No.	Pins/ Package	Cache (KByte)	I/O Operating Voltage	Frequency (MHz)	Serial Interface Type	Operating Temperature	Order Code	Price Each 1+	10+	100+
MC68SEC000AA20	64/TQFP	–	5V	20	–	0 to 70°C	SMD 157-9818●	11.35	8.73	7.19
MC68020EH16E	132/PQFP	0.256	5V	16.67	–	0 to 70°C	SMD 157-9774●	42.42	32.63	26.85
MC68020EH25E	132/PQFP	0.256	5V	25	–	0 to 70°C	SMD 157-9776●	37.13	– –	– –
MC68020RC16E	114/PGA	0.256	5V	16.67	–	0 to 70°C	157-9777●	105.30	– –	– –
MC68020RC25E	114/PGA	0.256	5V	25	–	0 to 70°C	157-9778●	120.13	– –	– –
MC68020RC33E	114/PGA	0.256	5V	33	–	0 to 70°C	157-9779●	137.04	– –	– –
MC68EC020AA16	100/QFP	–	5V	16	–	0 to 70°C	SMD 157-9806●	20.53	15.79	12.99
MC68020CEH25E	132/PQFP	–	5V	–	–	-40°C to +85°C	NEW SMD 165-9646●	83.75	– –	– –
MC68EC030FE25C	132/CQFP	0.512	5V	25	–	0 to 70°C	SMD 157-9807●	38.44	29.58	24.33
MC68EC030FE40C	132/CQFP	0.512	5V	40	–	0 to 70°C	SMD 157-9810●	53.32	41.02	33.75
MC68040FE25A	184/CQFP	8	5V	25	–	0 to 70°C	SMD 157-9781●	125.10	– –	– –
MC68040FE33A	184/CQFP	8	5V	33	–	0 to 70°C	SMD 157-9780●	139.81	– –	– –
MC68040RC33A	179/PGA	8	5V	33	–	0 to 70°C	157-9784●	167.48	– –	– –
MC68EC040FE25A	184/CQFP	–	5V	25	–	0 to 70°C	SMD 157-9809●	84.93	65.34	53.75
MC68LC060RC50	206/PGA	16	5V	50	–	0 to 70°C	SMD 157-9817●	246.88	– –	– –
MC68306CEH16B	132/PQFP	–	5V	16	UART	-40 to 85°C	SMD 157-9785●	11.68	– –	– –
MC68331CAG16	144/LQFP	–	5V	16	QSPI, SCI, UART	-40°C to +85°C	NEW SMD 165-9661●	15.97	– –	– –
MC68332ACAG20	144/LQFP	–	5V	20	UART, SCI, SPI	-40 to 85°C	SMD 157-9783●	10.15	– –	– –
MC68LK332ACAG16	144/LQFP	–	3.6V	16	UART, SCI, QSPI	-40 to 85°C	SMD 157-9815●	15.98	12.29	10.11
MC68LK332GCAG16	144/LQFP	–	3.6V	16	UART, SCI, QSPI	-40 to 85°C	SMD 157-9816●	15.98	12.29	10.11
MC68334GCEH16	132/PQFP	–	–	16	–	-40 to 85°C	SMD 157-9786●	11.95	– –	– –
MC68340FE16E	144/CQFP	–	5V	16	UART	0 to 70°C	SMD 157-9791●	27.68	– –	– –
MC68340AB16E	144/QFP	–	5V	16	UART	0 to 70°C	SMD 157-9792●	15.09	– –	– –
MC68340AG16E	144/LQFP	–	5V	16	UART	0 to 70°C	SMD 157-9808●	23.15	17.80	14.67
MC68340AG16VE	144/LQFP	–	3.3V	16	UART	0 to 70°C	SMD 157-9787●	21.64	– –	– –
MC68340AG25E	144/LQFP	–	5V	25	UART	0 to 70°C	SMD 157-9788●	21.64	– –	– –
MC68340CAB16E	144/LQFP	–	5V	16	UART	-40 to 85°C	SMD 157-9789●	17.35	– –	– –
MC68340CAB25E	144/LQFP	–	5V	25	UART	-40 to 85°C	SMD 157-9790●	23.57	– –	– –
MC68340CAG25E	144/LQFP	–	5V	–	UART	-40°C to +85°C	NEW SMD 165-9664●	48.13	– –	– –
MC68376BACAB20	160/QFP	–	–	20	CAN, SCI, SPI	-40°C to +85°C	NEW SMD 165-9640●	30.35	– –	– –
MC68376BGMAB20	160/QFP	–	5V	20	CAN, SCI, SPI	-40°C to +125°C	NEW SMD 165-9644●	35.14	– –	– –
MC68376BGCAB25	160/QFP	–	5V	25	CAN, SCI, SPI	-40°C to +85°C	NEW SMD 165-9647●	33.55	– –	– –

MC68882 Floating-Point Co-Processors

freescale semiconductor

New

The MC68882 floating-point coprocessor (FPCP) fully implements the IEEE Standard for Binary Floating-Point Arithmetic (ANSI-IEEE Std 754-1985) for use with the Freescale M68000 Family of microprocessors. The MC68882 provides an increased level of performance in a coprocessor that is fully compatible and physically interchangeable with the MC68881.
Intended primarily for use as a coprocessor to the MC68020/MC68030 32-bit microprocessor, the MC68882 provides a logical extension to the main processing unit integer data processing capabilities. This coprocessor provides a very high performance floating-point arithmetic unit and a set of floating-point data registers utilized in a manner that is analogous to the use of the integer data registers. The MC68882 instruction set, a natural extension of all earlier members of the M68000 Family, supports all of the addressing modes of the host MPU.

527792

Mftrs. List No.	Pins/ Package	I/O Operating Voltage	Bus Interface	Frequency (MHz)	Operating Temperature	Order Code	Price Each 1+
MC68882EI16A	68/PLCC	5V	PCI	16	0°C to +70°C	SMC 157-9795●	27.64
MC68882RC16A	68/PGA	5V	PCI	16	0°C to +70°C	SMC 157-9797●	51.87
MC68882EI20A	68/PLCC	5V	PCI	20	0°C to +70°C	SMC 157-9793●	30.53
MC68882RC25A	68/PGA	5V	PCI	25	0°C to +70°C	SMC 157-9798●	59.26
MC68882EI25A	68/PLCC	5V	PCI	25	0°C to +70°C	SMC 157-9801●	33.15
MC68882EI33A	68/PLCC	5V	PCI	33	0°C to +70°C	SMC 157-9796●	35.85
MC68882RC33A	68/PGA	5V	PCI	33	0°C to +70°C	SMC 157-9799●	59.26

See our range of **Heatsinks** specifically for microprocessors on page 767

Adder852T, MPC8274 & ASP8347
64 bit Development Modules with Operating Systems

Analogue & MICRO



Adder852T



MPC8247



ASP8347

These modules provides developers with a cost-effective method for evaluation of the Freescale processor. Peripherals, including the 10/100/100 Ethernet, USB 1 & 2 and serial ports. Supplied with on-board operating system (eCos and Linux options), IP stack and GNU development tools, the module supports rapid product development. The cost-effective module provides an efficient and commercially attractive enhancement to existing product ranges.

- Operating Temperature -40°C to 85°C
- 2 Serial RS232 ports
- Incorporating Freescale processor
- Configurable expansion via connection to the module

Mftrs List No.	RAM 64 bit wide	Flash 16 bit wide	Processor	Processor Speed	USB No.	Ethernet No.
ADDER 852T	SD 8MB	4 MB	MPC852T	50-100MHz	1 x 1.1	1 x 10/100
RATTLER 8247	SD 128MB	32MB	MPC8247/48	266-400MHz	1 x 1.1	2 x 10/100
ASP 8347	DDR 128/256	32MB	MPC8347	266-400MHz	2 x 2.0	2 x 10/100/1000

495514

Description	Order Code	Price Each
Adder852T MPC852T Module. On-Board OS	149-6214●	189.88
Rattler8247 Module. On-Board OS,	149-6218●	389.88
ASP8347 module, On-Board OS	149-6222●	436.71

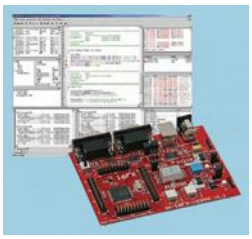
RL Re-reeling available

Farnell

Microcontrollers and Microprocessors - 16/32-Bit FUJITSU

SK-16FX-EUROSCOPE

Starter Kit & On-Chip Debug Software Bundle



The SK-16FX-EUROScope includes the SK-16FX-100PMC starter kit and the on chip debug software EUROScope lite 16FX.16FX supports on-chip debugging without the need of boxes and adaptors like common JTAG based systems. The Microcontroller can be connected directly to the Host-PC via a serial RS232 or USB interface (with a converter IC). The on chip debug functionality is completely implemented in a debug support module and the firmware of the MCU.

SK-16FX-100PMC Board Features:

- 1x UART-Transceiver
- 1x USB to serial converter
- 1x High-speed CAN-Transceiver
- 2x LED-Display
- 2x User-button
- 1x Reset-button, Reset-LED
- All 100 pins routed to pin-header
- On-board 5V and 3V voltage regulators, Power-LED
- USB power-supply

EUROScope lite 16FX Features:

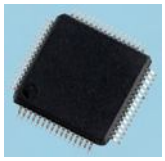
- On-chip debugging for 16FX microcontroller
- No kernel linkage/upload required
- Run, stop, abort
- Single step debugging
- Breakpoints
- Memory window
- Watch window
- Mixed source code view
- CPU register window
- Plug-ins available for operating systems

525275

Mftrs List No.	Description	Order Code	Price Each
SK-16FX-EUROSCOPE	16FX Development Bundle	**166-0600▲**	234.62

F²MC-16LX Family - MB90Fxxx 16-Bit Microcontrollers







The F²MC-16LX family is a high-performance 16-bit microcomputer having the upward compatibility with the F2MC-16L family.

Features Include:

- Clock multiplier circuit - Reducing the radiation Interference
- High-speed operation
- Power management capabilities
- Low-voltage, low-power voltage dissipation

496243

Mftrs. List No.	Pins/ Package	Flash Memory	RAM (Code and Data)	Max CPU Frequency (MHz)	Max. I/O Pins	Operating Temperature	Order Code	Price Each 1+	10+	100+
MB90F362TESPMCR-GE1	48/LQFP	64KB	3KB	24	36	-40°C to +105°C	NEW SMD-**166-0594●**	6.51	5.94	4.36
MB90F352TESPMCR-GE1	64/LQFP	128KB	4KB	24	51	-40°C to +125°C	NEW SMD-**166-0595●**	9.01	8.23	6.04
MB90F962SPMCR-GE1	48/LQFP	64KB	3KB	24	36	-40°C to +125°C	NEW SMD-**166-0596●**	4.01	3.66	2.68
MB90F897SPMCR-GSE1	48/LQFP	64KB	2KB	16	36	-40°C to +105°C	NEW SMD-**166-0598●**	3.00	2.74	2.01
MB90F387SPMCR-GSE1	48/LQFP	64KB	2KB	16	36	-40°C to +105°C	NEW SMD-**166-0599●**	7.52	6.86	5.03

1

ADA-91270-90340-100PFV Adapter Board



The ADA-91270-90340-100PFV is an adapter board that can be used together with the evaluation board FLASH-CAN-100P-340 or as a stand-alone system with some limitations. It supports devices of the 16-bit MB90340 Series and 32-bit MB91270 Series with LQFP package PFV/M05. It can be used stand alone for software development and testing of with Flash-devices or as a target board to work with the emulator system.

Features:

- The following series are supported in FPT-100P-M05 Package:
- MB90340 Series: MB90F34x PFV
- MB91270 Series: MB91F272x PFV
- MB96340 Series: MB96F348x PMC
- All resources available for evaluation
- All pins routed to connectors
- 4 MHz main-crystal, 32kHz subclock-crystal (selectable by jumpers)
- Run- / Program-Mode Selector
- One UART interface (optional)

525278

Mftrs List No.	Description	Order Code	Price Each
ADA-91270-90340-100PFV	Adapter Board	**166-0601▲**	578.72

FLASH-CAN-64P-350-PMC Evaluation Board



The FLASH-CAN-64P-350-PMC is a multifunctional evaluation board for the Fujitsu 16-Bit Flash microcontroller 16LX MB90350 and 16FX MB96350 Series. It can be used stand alone for software development and testing or as a simple target board to work with the emulator system. The board allows designers to immediately start with software development before a final target system is available.

Features:

- MB96350 Series: MB96F35x
- 9-12V unregulated external DC power supply usable
- Selectable 5V or 3.3V internal power supply, Power-LED
- In-Circuit serial Flash programming
- All resources available for evaluation
- All 64 pins routed to connectors
- 4 MHz main-crystal, 32kHz sub-clock-crystal (w/ jumpers)
- Two UART Interfaces
- Two LIN-Transceivers
- One High-Speed CAN Transceiver
- 8 User LEDs, optional: alphanumeric standard LC-Display connectable instead of LEDs
- Reset-Button, Reset-LED
- 5 User-buttons configurable for INT10, INT11, TIN1, IN0 and IN1
- 96 pin VG connector

525279

Mftrs List No.	Description	Order Code	Price Each
FLASH-CAN-64P-350-PMC	Multifunctional Evaluation Board	**166-0602▲**	359.74

SK-96320-80PMC Evaluation Board



The SK-96320-80PMC is a multifunctional evaluation board for the Fujitsu 16FX Flash microcontroller series MB96F32x. It can be used stand-alone for software development and testing or as a simple target board to work with the emulator system. The board allows the designer immediately to start software development before a final target system is available. A 9V-12V power supply with GND centre pin is required.

Features:

- 5 V, 3.3 V onboard voltage regulators
- Power-LEDs for all supply voltages
- Onboard voltage supervisor monitors both supply voltages
- In-Circuit serial Flash programming
- All resources available for evaluation
- All MCU pins routed to edge connectors
- 4 MHz main crystal
- 32 kHz crystal for sub clock operation
- Two RS232, two LIN and two CAN interface are usable simultaneously
- 3 V capable CAN, LIN and RS232 transceivers
- 8 User LEDs
- optional: alphanumeric standard LC-Display connectable instead of LEDs
- Reset button, Reset LED
- 5 User buttons
- 96-pin VG connector featuring supply voltage (VCC) for external circuits

525280

Mftrs List No.	Description	Order Code	Price Each
SK-96320-80PMC	Evaluation Board	**166-0604▲**	813.33

SK-FR-144PMC-91467B Evaluation Board



The SK-FR-144PMC-91467B is a low-cost evaluation board based on the Fujitsu 32-bit FR Flash microcontroller MB91460 Series. The board allows designers to immediately start with the software development before a final target system is available.

Features:

- 1x UART Transceiver (SUB-D9 connector)
- 1x USB to Serial Converter
- 1x High-speed CAN Transceiver (SUB-D9 connector)
- 2x LED Display (7-Segment)
- 2x User Button
- 1x Reset Button, Reset-LED
- All 144 Pins Routed to Pin-Header
- On-board 5V and 3V Voltage Regulators, Power LED
- USB Power Supply

525281

Mftrs List No.	Description	Order Code	Price Each
SK-FR-144PMC-91467B	Evaluation Board	**166-0614▲**	132.95

RL Re-reeling available

Farnell

SK-91470-144PMC1-MC Evaluation Board



The SK-91470-144PMC1-MC is a multifunctional evaluation board for the Fujitsu 32-bit FR Flash microcontroller series MB91470. It can be used stand-alone or together with the MB2198 Emulator system for software development and testing. It can also be used together with an external power stage to evaluate motor control applications. Therefore, connectors featuring the corresponding control and feedback signals are provided to enable quick set-up of the system.

Features:
- 5V on-board voltage regulator
- Power-LEDs for supply voltage
- Onboard voltage supervisor monitors supply voltage
- In-Circuit serial Flash programming via UART
- All resources available for evaluation
- All MCU pins routed to edge connectors
- 34-pin connector for external power stage / inverter
- Connector for Hall sensor and quadrature encoder input
- 10 MHz main crystal
- Three RS232 interfaces are usable simultaneously
- 8 User LEDs, optional: alphanumeric standard LC-Display
- LEDs for PWM output
- Reset button, Reset LED
- 4 user buttons + NMI + DTTI test buttons, 3 user potentiometers

525282

Mftrs List No.	Description	Order Code	Price Each
SK-91470-144PMC1-MC	Evaluation Board	166-0616▲	1,243.46

SK-POWER-3P-LV-MC Evaluation Board



The SK-POWER-3P-LV is an evaluation board for low voltage motor control applications, mainly using BLDC (brushless DC) or PMSM (permanent magnet synchronous) motors. The board allows designers to immediately start with software development and evaluation of low voltage three-phase motor control applications before a final target system is available. It is directly connectable to the Fujitsu SK-91470-144PMC1-MC Starter Kit using the included 34-pin ribbon cable.

Features:
- Low-voltage power stage with gate drivers for three-phase motors
- Flexible power supply voltage system:
- DC link input (35V 10A max.) for motor current supply
- Logic supply from DC link or separate input 9-15V
- 10-20V gate driver supply (with optional 15V regulator) and 5V internal logic and analog supply, Power LED
- Integrated current measurement for two phases and DC link current
- Integrated voltage measurement for all three phase voltages and DC link voltage
- Hardware over current/voltage detection with LED, interfaced to DTTI input of Starter kit
- 34-Pin connector holds all relevant PWM and analog signals
- Chopper transistor + connector for external brake resistor

525283

Mftrs List No.	Description	Order Code	Price Each
SK-POWER-3P-LV-MC	Evaluation Board	166-0617▲	563.08

Lime/467 Evaluation Board

With MB91F467D CPU



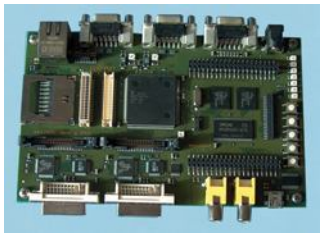
The Lime/467 Evaluation Board is a compact system, which is populated with the 32-bit CPU MB91F467, graphic display controller MB 86276 also called LIME, Flash memory, SDRAM, SRAM, interfaces as UART, Ethernet, CAN, GPIOs, video inputs and outputs. The board offers various interfaces and has on-board dual video output functionality.

Interfaces:
- CAN RX/TX (Controller Area Network)
- UART (x2)
- Ethernet
- DVI-I (Digital Video Interface - Integrated) (x2)
- Digital RGB output (x2)
- CVBS/S-Video video input (x2)

525284

Mftrs List No.	Description	Order Code	Price Each
SK-86276-91F467D	Lime/467 Evaluation Board	166-0623▲	1,548.46

Mint/467 Evaluation Board



The Mint/467 Evaluation Board is a versatile system, which offers various interfaces.
It is populated with the 32-bit CPU MB91F467DAPFV, Flash memory,S-DRAM, SRAM, interfaces as UART, Ethernet, CAN, USB, SD memory card, GPIOs, video inputs and outputs and an interface for different GDC modules.

Interfaces:
- USB (Micro connector)
- SD Card
- CAN RX/TX (Controller Area Network)
- UART (x2)
- Ethernet
- DVI-I (Digital Video Interface - Integrated) (x2)
- Digital RGB output (x2)
- CVBS/S-Video video input (x2)

525285

Mftrs List No.	Description	Order Code	Price Each
SK-86277-91F467D	Mint/467 Evaluation Board	166-0624▲	1,548.46

FR60/FR60Lite MB91xxx Series Microcontrollers

This line of standard microcontrollers containing a variety of I/O resources, for embedded control applications that demand powerful and fast CPU processing capabilities.

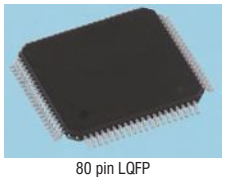
Features:
- 32-bit RISC, load/store architecture with a five-stage pipeline
- 16-bit fixed length instructions
- CMOS technology

525676

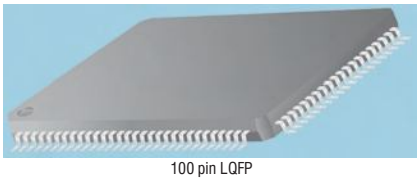
Series	Pins/Pkg	Flash Memory	RAM	Max Operating Frequency	Operating Temperature
MB91460A	LQFP100/	416KB	16KB	80MHz	-40°C to +105°C
MB91F	QFP144/	512KB	32KB	80MHz	-40°C to +85°C
MB91F	LQFP64/	128KB	4KB	33MHz	-40°C to +105°C

Mftrs. List No.	Order Code	Price Each 1+	10+	100+
MB91F464ABPMCR-GSE2	NEW SMD 166-0618●	11.52	10.51	7.70
MB91F479PM1R-GE1	NEW SMD 166-0619●	12.40	11.32	8.30
MB91F267NPMCR-GE1	NEW SMD 166-0620●	9.78	8.92	6.54

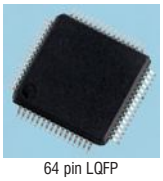
F²MC-16FX Family - MB96300 Series Microcontrollers



80 pin LQFP



100 pin LQFP



64 pin LQFP

The MB96300 series is based on Fujitsu's advanced 16FX architecture. It also uses the same instruction set as the 16LX series - allowing for easy migration of 16LX Software to the new 16FX products. For highest processing speed at optimized power consumption an internal PLL can be selected to supply the CPU with up to 56MHz operation frequency from an external 4MHz resonator, this results in a minimum instruction cycle time of 17.8ns.

Features:
- 0.18µm CMOS Process Technology
- 8-byte Instruction Execution Queue
- Code Security Feature
- Fast Interrupt Processing
- Optimized Instruction Set for Controller Applications

482412

	Pins	Package	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
96F326	80	LQFP	16FX MCU with CAN, 288K FLASH	MB96F326RSBPMC-GSE2	NEW SMD 166-0605●	8.77	8.00	5.87
96F347	100	QFP	16FX MCU with CAN, 416K FLASH	MB96F347RSBPQC-GSE2	NEW SMD 166-0606●	11.02	10.06	7.38
96F347	100	LQFP	16FX MCU with CAN, 416K FLASH	MB96F347RSBPMC-GSE2	NEW SMD 166-0607●	11.02	10.06	7.38
96F348	100	QFP	16FX MCU with CAN, 544K FLASH	MB96F348RSBPQC-GSE2	NEW SMD 166-0608●	12.28	11.21	8.22
96F348	100	LQFP	16FX MCU with CAN, 544K FLASH	MB96F348RSBPMC-GSE2	NEW SMD 166-0609●	12.28	11.21	8.22
96F356	64	LQFP	16FX MCU with CAN, 288K FLASH	MB96F356RSBPMC-GSE2	NEW SMD 166-0610●	8.01	7.31	5.36
96F356	64	LQFP	16FX MCU with CAN, 288K FLASH	MB96F356RSBPMC1-GSE2	NEW SMD 166-0611●	8.01	7.31	5.36
96F386	120	LQFP	16FX MCU with CAN, 288K FLASH	MB96F386RSBPMC-GSE2	NEW SMD 166-0612●	13.29	12.12	8.89
96F387	120	LQFP	16FX MCU with CAN, 416K FLASH	MB96F387RSBPMC-GSE2	NEW SMD 166-0613●	15.79	14.41	10.57

RL Re-reeling available

Farnell

Microcontrollers and Microprocessors - 16/32-Bit INFINEON

XC164CM U CAN Start Kit



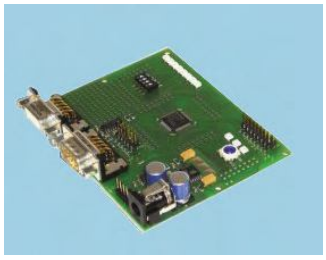
The XC164CM U CAN start kit is a fully enabled evaluation platform for the Infineon XC164CM 16-bit microcontroller, packaged in a USB stick. The XC164CM U CAN start kit supports debug of the 16bit MCU via a USB-JTAG solution. The TwinCAN feature of the XC164CM includes 2 CAN transceivers allowing both CAN nodes to be accessed through a 10-pin header, which also allows access to analog and digital I/O signals. The kit comes with a dedicated CAN application program already loaded into the embedded flash memory of the XC164CM MCU, supported with an Application GUI, allowing for easy demonstration of the CAN features.

Kit Includes:
- USB stick with SAF-XC164CM-8F40F 16-bit MCU
- Tasking XC166 Compiler
- HITEX HiTop debugger
- CAN demonstration programs

451581

	Order Code	Price Each
XC164CM U CAN START KIT	**129-6187**	26.26

SK-XC164CS/CM Development Tool



The SK-XC164CM and SK-XC164CS Easy Kits provide a platform to develop, demonstrate, and run software for the XC164CM/XC164CS series of 16-bit microcontrollers. The Evaluation Boards are equipped with peripherals for connection to the environment and an interface for the On Chip Debugging Features (OCDS1). To enable the embedded Flash to be programmed, a tool called MEMTOOL is included.

The SK-XC164CM Easy Kit is based on the SAF-XC164CM-8F40F microcontroller, which features a CPU Clock frequency of 40 MHz, 6 kByte on-chip SRAM and 64 kByte on-chip FLASH.

The SK-XC164CS Easy Kit is based on the SAF-XC164CS-32F40F microcontroller, which features a CPU Clock frequency of 40 MHz, 12 kByte on-chip SRAM and 256 kByte on-chip FLASH.

Board Interfaces:
- SUB-D9 connector for ASC0 Interface via RS 232 port
- 4 pin header for LIN Transceiver (ASC1)
- 16-pin header for JTAG interface (OCDS)
- SUB-D9 connector for CAN High Speed Transceiver (CAN1)
- 10pin (2x5) Header for CAN High Speed Transceiver (CAN2)

Kit Contents:
- USB Wiggler for Debug + USB Cable
- Getting Started, first 3 Steps to setup you Hardware, install the Tools and Debug the first Program
- Evaluation Versions of Development Tools: e.g. Compiler, Debugger, DAvE Mother System v2.1 and Derivative Implementation Files (DIP), Memtool (Flash Programming Tool)
- Technical and Training Documentation

431271

Mftrs. List No.	Order Code	Price Each
SK-XC164CM EASY KIT	**117-8511**	120.88
SK-XC164CS EASY KIT	**117-8512**	162.64

XC166 Family of 16-bit microcontrollers



The XC166 family of 16-bit microcontrollers offers a wide range of products scalable in performance, memory, and peripherals. The XC166 family with its enhanced 16-Bit architecture and its powerful feature set is more than just a 16-Bit Microcontroller. Both, built in safety features and high performance peripherals, are standard for the XC166 family and make these devices the controller of choice for automotive and industrial applications.

XC166 Features:
- High performance 16-bit C166SV2 CPU with 5-Stage Pipeline
- Single cycle instruction execution with 25 ns instruction time at 40 MHz CPU clock
- 25 ns multiplication (16 x 16 bit), background division (32/16 bit), multiply-and-accumulate (MAC) instructions at 40 MHz CPU clock
- On-chip debug support via JTAG interface
- On-chip TwinCAN interface
- Real-Time Clock
- A/D converter
- Serial Ports

429741

Mftrs. List No.	Pins/ Package	RAM (KByte)	Flash (KByte)	Frequency (MHz)	I/O Lines	Voltage (V)	Order Code	Price Each 1+	10+	100+
SAF-XC164CM-8F40F	64/TQFP	6	64	40	47	5	SMD **117-2332**	12.10	9.31	8.08
SAF-XC164LM-8F40F	64/TQFP	6	64	40	47	5	SMD **147-2728**	8.05	6.72	5.74

C165 16-Bit Single-Chip Microcontrollers

The C165 is a processor designed for high-end real-time requirements and large data throughput where pricing is a sensitive factor, for example in dataprocessing and telecom products. The fastest version of the C165, the SAB-C165-L25M, needs just 80 ns at 25 MHz CPU clock to process each instruction. The C165 can operate at voltages down to 3.0V reducing the power consumption in battery-powered applications.

496741

Pins	Package	Description	Mftrs. List No.	Order Code	Price Each 1+
100	TQFP	25MHz MCU I/O Votage 5.0V	SAF-C165-L25F	SMD **147-2705**	17.36
100	TQFP	20MHz MCU I/O Votage 5.0V	SAF-C165-LF	SMD **147-2706**	17.36

80C166 Family

- High performance 16-bit MCU
- 16 channel capture/compare/PWM module
- 1K x 8 RAM
- 76 I/O lines
- 10-bit ADC
- 2 serial channels (USART)
- 7 timers
- 8-channel interrupt

The SAB80C166M 16-bit Microcontroller offers ultra high performance with a 100ns instruction cycle and is optimised for use with powerful industry standard high-level language C compilers. A highly flexible 8 and 16-bit programmable bus supports low cost industry standard memory types giving cost effective system designs.

A 100ns task switch combines with a 400ns interrupt latency and on-chip 8 channel peripheral DMA unit allows an almost unlimited number of tasks to run simultaneously, in many cases replacing multiple processors. An enhanced version, the SABC167CRLM, offers on-chip CAN bus support for high performance industrial networks with an external addressing range of up to 16 Mbytes with up top 5 programmable bus areas with chip-select logic.

The SABC165LM offers all of the external memory features of the SABC167CRLM in a low cost package.

210713

	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
C167	144	MQFP	16-Bit CMOS MCU, 4K RAM, ADC, CAPCOM, PWM, CAN2.0B, timers, WDT, USART, 111 I/O - 20MHz (EXT TEMP)	SAK-C167CR-LM HA	SMD **122-0083**	34.56	26.91	21.33
C167	144	MQFP	16Bit MCU,ROM less,2K RAM,CAN,33MHZ	SAK-C167CR-L33M	SMD **147-2743**	22.13	18.45	15.79

RL Re-reeling available

Farnell

TC11666 TriCore™ 32-bit microcontroller

The TC116x series are designed for demanding embedded applications where real-time control, DSP performance and specific peripheral functions are needed. Focus applications are motor drives and industrial control.
The TC116x devices are based on the 32-bit TriCore™ architecture combining RISC, CISC and DSP functionality in a single chip. The rich peripheral set includes a flexible timer unit (GPTA) for PWM generation, fast multi-channel ADCs, optional MultiCAN module, Asynchronous and Synchronous Serial Interfaces (ASC/SSC) and a Micro Link Interface (MLI) for interfacing to a second controller.

TriCore Features:
- High Performance 32-bit TriCort™ V1.3 CPU with 4 -Stage Pipeline
- 80 MHz maximum clock speed
- Floating Point Unit (FPU)
- 1.5 MByte embedded program flash
- 32 KByte data flash for scalable EEPROM emulation
- 56 KByte on-chip SRAM
- 8 channel DMA controller
- 81 digital general purpose I/O lines
- Operating temperature range -40 to 85°C

451441

Mftrs. List No.	Pins/ Package	(MHz)	Type		Voltage (V)	Voltage (V)	Order Code	Price Each 1+	10+	100+
SAF-TC1166-192F80HL	LQFP/176	80	SSC, CAN, MLI	81	1.5	3.3	SMD 129-6182●	29.22	21.93	21.37
SAF-TC1161-128F66HL	LQFP/176	66	2xASC, SSC, MSC, MLI	81	1.5	3.3	NEW SMD 147-2713●	19.68	16.39	14.04
SAF-TC1162-128F66HL	LQFP/176	66	2xASC, CAN, SSC, MSC, MLI	81	1.5	3.3	NEW SMD 147-2714●	20.83	17.35	14.85

Microcontrollers and Microprocessors - 16/ 32-Bit NEC

78K0R - COOL-IT! Demonstration Kit



78K0R - Cool it! is a demonstration kit for the 78K0R/KG3 16-bit microcontroller of the 78K0R family. The demonstration board is connected to the host system via USB interface cable. The host system may be used for On-Chip debugging by using the IAR C-SPY debugger and to allow execution of application programs on this kit.

526247

Mftrs List No.	Description	Order Code	Price Each
78K0R-COOLIT	Cool-It! Demonstration Kit	150-2861	31.66

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78K0R/Kx3 Series Microcontrollers

The 78K0R/Kx3 are 16-bit single-chip microcontrollers that incorporates a 78K0R core.
These are All Flash microcontrollers, which have a single power supply flash memory with a self programming function as well as various other functions.

526248

Mftrs. List No.	Pins/ Package	Flash Memory	Internal RAM	I/O Lines	Operating Freq (Max)	Operating Temperature	Order Code	Price Each 1+	10+	100+	250+	500+
78K0R/KE3												
UPD78F1142GK-GAJ-AX	64/LQFP	64KB	4096Byte	55	20MHz	-40°C to +85°C	SMD 150-2825●	6.27	5.13	4.35	4.03	3.76
UPD78F1144GK-GAJ-AX	64/LQFP	128KB	8192Byte	55	20MHz	-40°C to +85°C	SMD 150-2826●	7.31	5.99	5.07	4.70	4.39
UPD78F1146GK-GAJ-AX	64/LQFP	256KB	12288Byte	55	20MHz	-40°C to +85°C	SMD 150-2828●	9.05	7.41	6.26	5.81	5.43
78K0R/KF3												
UPD78F1152GK-GAK-AX	80/LQFP	64KB	4096Byte	70	20MHz	-40°C to +85°C	SMD 150-2829●	6.96	5.69	4.81	4.48	4.18
UPD78F1154GK-GAK-AX	80/LQFP	128KB	8192Byte	70	20MHz	-40°C to +85°C	SMD 150-2830●	7.99	6.53	5.53	5.13	4.79
UPD78F1156GK-GAK-AX	80/LQFP	256KB	12288Byte	70	20MHz	-40°C to +85°C	SMD 150-2831●	9.74	7.97	6.74	6.26	5.85
78K0R/KG3												
UPD78F1162GC-UEU-AX	100/QFP	64KB	4096Byte	88	20MHz	-40°C to +85°C	SMD 150-2832●	7.40	6.05	5.12	4.75	4.44
UPD78F1164GC-UEU-AX	100/QFP	128KB	8192Byte	88	20MHz	-40°C to +85°C	SMD 150-2833●	8.44	6.91	5.85	5.43	5.06
UPD78F1166GC-UEU-AX	100/QFP	256KB	12288Byte	88	20MHz	-40°C to +85°C	SMD 150-2834●	10.17	8.32	7.04	6.54	6.10

QB-MINI2-EE On-Chip Debug Emulator
with Programming Function



MINICUBE2 is an on-chip debug emulator with flash programming function, which is used for debugging and programming a program to be embedded in on-chip flash memory microcontrollers.

Features:
- On-chip debugging
- Flash memory programming
- USB connection
- Variety of supported devices and expandability
- Self-testing function

526281

Mftrs List No.	Description	Order Code	Price Each
QB-MINI2-EE	MINICUBE2 Emulator	150-2867	98.88

V850ES TOUCH-IT! Demonstration Kit



V850ES TOUCH-IT! is a demonstration kit designed to make a touch-controlled TFT project development as easy as possible. In the box you get everything you need to get going immediately - 32-bit V850 All Flash microcontroller with big embedded Flash memory, TFT-LCD controller / driver, the 3.5" colour TFT itself, including built-in touch-screen, plus RTOS, graphics libraries and software examples. To enable future expansion and upgrades, the kit has also been designed in a modular way so that additional boards may be connected for extra functionality.

526279

Mftrs List No.	Description	Order Code	Price Each
V850ES TOUCHIT	32 BIT V850ES,TFT LCD Starter Kit	150-2865	262.94

V850ES/Fx3-CAN-IT! Demonstration Kit



The V850ES/Fx3-CAN it! is a demonstration kit for the V850ES/Fx3 32-bit RISC microcontroller. It supports On-Board debugging via the TK-V850 interface (monitor debugging) or via N-Wire. Additional FLASH programming and real time execution of application programs based on the V850ES/FG3 32-bit RISC microcontroller is supported by the V850ES/Fx3 - CAN it! demonstration kit. The board is prepared to be connected to user hardware parts such as digital I/O or analogue signals.

526278

Mftrs List No.	Description	Order Code	Price Each
V850FX3-CANIT	32 BIT CAN V850ES/FX3 Starter Kit	150-2863	131.02

Microcontrollers and Microprocessors - 16/32-Bit NEC - continued

EB-V850ES/HG2-EE Demo Kit

NEC

New



EB-V850ES\HG2-EE is a demonstration kit for the V850 All Flash 32-bit microcontroller family. It supports on-board debugging, Flash programming and real time execution of application programs, making it ideal for the development of simple applications as well as demonstration of the V850's capabilities. The board is also ready-prepared to be connected to user hardware for evaluation of digital I/O's, analog signals, etc and comes complete with an appetizer version of the IAR Systems Embedded Workbench.

526277

Mftrs List No.	Description	Order Code	Price Each
EB-V850ES/HG2-EE	V850ES HG_2 Starter Kit	150-2862	118.88

V850™ Series Microcontrollers

NEC

New

The V850™ microcontrollers incorporate a 32-bit RISC core based on Harvard architecture. Hence, the core hardware can be simplified and the core size minimised. As a result, these microcontrollers provide maximum performance at the lowest cost.
They have extremely low power consumption and low noise while offering high performance and a wide array of functions. They makes it an ideal choice for applications often served by 16-bit microcontrollers.

The V850 microcontrollers are suitable for various application fields including:

- Automotive
- Audio
- Portable devices
- Cameras
- Computer peripherals
- Home appliances
- Industrial equipment
- Video and recording equipment

526242

Mftrs. List No.	Pins/ Package	Flash Memory	Internal RAM	I/O Lines	Operating Freq (Max)	Operating Temperature	Order Code	Price Each 1+	10+	100+	250+	500+
UPD70F3370AM2GBA-GAH-AX	64/LQFP	128KB	8KB	51	32MHz	-40°C to +85°C	SMD 156-4430●	9.59	7.85	6.64	6.17	5.75
UPD70F3372M2GKA-GAK-AX	80/LQFP	128KB	8KB	67	32MHz	-40°C to +85°C	SMD 156-4431●	9.93	8.12	6.87	6.38	5.96
UPD70F3374M2GCA-UEU-AX	100/LQFP	128KB	8KB	84	32MHz	-40°C to +85°C	SMD 156-4433●	11.51	9.42	7.97	7.40	6.91
UPD70F3375M2GCA-UEU-AX	100/LQFP	256KB	16KB	84	32MHz	-40°C to +85°C	SMD 156-4434●	13.38	10.95	9.26	8.60	8.03

Microcontrollers and Microprocessors - 32-Bit PARALLAX

Propeller Starter Kit

PARALLAX



The Propeller Starter Kit includes everything that is needed to get started with the Propeller microcontroller. The Propeller Demo Board includes a built-in Propeller (P8X32A-Q44), EEPROM and 5 MHz crystal pre-wired to connectors for interfacing to devices such as a mouse, keyboard, TV or VGA monitor and speakers. This is all configured for immediate use by many objects from the Propeller Object Library.

Kit Includes:

- Propeller Demo Board
- Propeller Manual
- Software on CD
- Power supply
- USB cable

491853

Mftrs. List No.	Order Code	Price Each
32300	126-3885●	113.92

32-Bit Propeller Multicore Microcontrollers

PARALLAX

The Propeller is a multi-processing chip with eight 32-bit processors (cogs) and a shared memory which includes 32KB of RAM and 32KB of ROM with a font, math tables, and Spin interpreter. Cogs can be programmed in either high-level Spin language for simplicity, or assembly language for performance.

491874

Mftrs. List No.	Pins/ Package	Program Memory	Operating Frequency	I/O Lines	Order Code	Price Each 1+	10+	100+
P8X32A-D40	40/DIP	32KB	80MHz	32	126-3886●	11.57	9.37	9.05
P8X32A-Q44	44/QFP	32KB	80MHz	32	SMD 126-3887●	11.57	9.37	9.05
P8X32A-M44	44/QFN	32KB	80MHz	32	SMD 126-3888●	11.57	9.37	9.05

Microcontrollers and Microprocessors - 16/32-Bit RENESAS

Microcontroller Starter Kits

RENESAS

New



R0K330290S001BE

Renesas Starter Kits are the latest development from Renesas in low-cost evaluation development toolkits. They offer a user-friendly introductory and evaluation platform for assessing the suitability of a chosen Renesas Microcontroller as well as a basic development platform. The boards also provide a useful platform for evaluating the Renesas suite of development tools for coding and debugging, using High-performance Embedded Workshop as well as programming the device using emulator and/or Flash Development Toolkit.

- CPU Board
- Detachable LCD Display Module
- Detachable AD Adjustment Shaft
- Renesas E-Series Emulator
- Connection Cable (USB Cable, User Interface Cable)
- Quick Start Guide
- CD-ROM
  - Documents
  - IDE: High-performance Embedded Workshop
  - C Compiler: (Differs according to each Starter Kit)
  - Debugger: Renesas E-Series Emulator Debugger
  - Flash Memory Programmer: Flash Development Toolkit Evaluation
- Multi region power supply (only E10A product)
- Voltage Conversion Board for QzROM microcontrollers (only 740 Family product)

527551

Mftrs. List No.	Series	Description	Debugger Supplied	Order Code	Price Each
R0K330290S001BE	M16C/Tiny	Starter Kit for M16C/29	E8a	167-7728●	166.28
R0K33062PS001BE	M16C/60	Starter Kit for M16C/62P	E8a	167-7729●	166.28
R0K330879S001BE	M32C/80	Starter Kit for M32C/87	E8a	167-7730●	166.28
R0K436079S000BE	H8/300H	Starter Kit for H8/36079	E8a	167-7732●	166.28
R0K438099S000BE	H8/300H	Starter Kit for H8/38099	E8a	167-7733●	166.28
R0K5211B4S001BE	R8C/1x	Starter Kit for R8C/1B	E8a	167-7734●	166.28
R0K521237S001BE	R8C/2x	Starter Kit for R8C/23	E8a	167-7735●	166.28
R0K521256S001BE	R8C/2x	Starter Kit for R8C/25	E8a	167-7736●	166.28
R0K521276S001BE	R8C/2x	Starter Kit for R8C/27	E8a	167-7737●	166.28
R0K5212D8S001BE	R8C/2x	Starter Kit for R8C/2D	E8a	167-7738●	166.28
R0K561622S000BE	H8SX/1600	Starter Kit for H8SX/1622	E10A	167-7739●	432.32
R0K561648S000BE	H8SX/1600	Starter Kit for H8SX/1648	E10A	167-7740●	432.32
R0K561664S001BE	H8SX/1600	Starter Kit for H8SX/1664	E10A	167-7741●	432.32
R0K570865S001BE	SH7080	Starter Kit for SH7086	E10A	167-7742●	432.32
R0K571242S001BE	SH/Tiny	Starter Kit for SH7124	E10A	167-7744●	432.32
R0K572011S001BE	SH7200	Starter Kit for SH7201	E10A	167-7745●	432.32
R0K572030S000BE	SH7200	Starter Kit+ for SH7203	E10A	167-7746●	931.15
R0K572115S001BE	SH7210	Starter Kit for SH7211	E10A	167-7747●	432.32

E8 Development Environment System

For H8 Family / H8/300H Tiny Series Microcontrollers



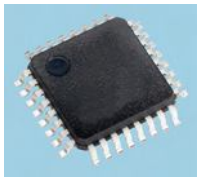
The E8 emulator communicates with the R8C/Tiny MCU (except R8C/10-13) using only one pin (*1), a dedicated pin for debugging purposes only. E8 allows the user to perform complete system debug, from MCU operations to electrical characteristics, in a state close to actual operations of the final product.
The emulator is controlled via the emulator debugger (interface software) on the PC. The Renesas integrated development environment "High-performance Embedded Workshop" provides links between the emulator debugger and a variety of development software tools, such as the C compiler and simulators.

Features include:
- Complete debug functions
- USB bus-powered: no external power supply required
- On-board programming
- Superior operability

429606

Mftrs. List No	Order Code	Price Each
R0E00008AKCE00	117-2316	120.22

R8C/Tiny Series Microcomputer



The R8C/XX Group of Single-Chip 16-BIT CMOS MCU is built using the high-performance silicon gate CMOS process with the R8C/Tiny Series CPU core. This MCU operates using sophisticated instructions featuring a high level of instruction efficiency. With 1M bytes of address space, it is capable of executing instructions at high speed. Applications include electric household appliance, office equipment, housing equipment (sensor, security), general industrial equipment, audio, etc.

Standard on-chip features include:
- 8/16 Bit Multifunction Timers
- UART/Clock Synchronous Serial Interface
- 10-bit A/D Converter
- Input Capture Timer
- Watchdog Timer
- Oscillation Stop Detection Function

386783

Mftrs. List No.	Package	FLASH (KByte)	RAM (KByte)	FLASH (KByte)	Frequency (MHz)	Pins	Interface	(V)	Ambient Temperature	Order Code	Price Each 1+	10+	100+
R5F21114DFP#U0	32/LQFP	16	1	—	20	22	2xUART	3 to 5.5	-40°C to 85°C	SMD 117-2296●	2.80	2.41	2.12
R5F21134DFP#U0	32/LQFP	16	1	4	20	22	2xUART	3 to 5.5	-40°C to 85°C	SMD 117-2298●	3.05	2.63	2.31
R5F211B4NP#U0	32/LQFP	16	1	2	20	13	2xUART, I²C, SSU	3 to 5.5	-40°C to 85°C	SMD 117-2303●	2.35	2.03	1.79
R5F21184SP#U0	20/SSOP	16	1	—	20	13	UART	3 to 5.5	to	NEW SMD 167-7763●	2.54	1.96	1.61
R5F21194SP#U0	20/SSOP	16	1	—	20	13	UART	3 to 5.5	to	NEW SMD 167-7764●	2.82	2.16	1.79
R5F211A4SP#U0	20/SSOP	16	1	—	20	13	UART	3 to 5.5	to	NEW SMD 167-7765●	2.62	2.02	1.66
R5F211B4SP#U0	20/SSOP	16	1	—	20	13	I2C, UART	3 to 5.5	to	NEW SMD 167-7766●	2.90	2.22	1.84
R5F21284SNSP#U0	20/SSOP	16	1	—	20	13	I2C, UART	3 to 5.5	to	NEW SMD 167-7772●	2.62	2.02	1.66
R5F21294SNSP#U0	20/SSOP	16	1	—	20	13	I2C, UART	3 to 5.5	to	NEW SMD 167-7773●	2.90	2.22	1.84
R5F21266SNFP#U0	32/LQFP	32	1.5	—	20	25	I2C, UART	3 to 5.5	to	NEW SMD 167-7770●	3.35	2.57	2.12
R5F21276SNFP#U0	32/LQFP	32	1.5	—	20	25	I2C, UART	3 to 5.5	to	NEW SMD 167-7771●	3.64	2.81	2.31
R5F21248SNFP#U0	52/LQFP	64	3	—	20	41	I2C, UART	3 to 5.5	to	NEW SMD 167-7768●	3.92	3.01	2.48
R5F21258SNFP#U0	52/LQFP	64	3	—	20	41	I2C, UART	3 to 5.5	to	NEW SMD 167-7769●	4.20	3.23	2.66
R5F21238DFP#U0	48/LQFP	64	3	—	20	41	I2C, UART, CAN	3 to 5.5	to	NEW SMD 167-7800●	4.94	3.79	3.13
R5F212DCSDFP#U0	80/LQFP	128	2	—	20	71	I2C, SCI, UART	3 to 5.5	to	NEW SMD 167-7781●	6.39	4.92	4.05
R5F212ACSDFP#U0	64/LQFP	128	7.5	—	20	55	I2C, UART	3 to 5.5	to	NEW SMD 167-7774●	5.22	4.02	3.31
R5F212ACSDFA#U0	64/LQFP	128	7.5	—	20	55	I2C, UART	3 to 5.5	to	NEW SMD 167-7775●	5.22	4.02	3.31
R5F212BCSDFP#U0	64/LQFP	128	7.5	—	20	55	I2C, UART	3 to 5.5	to	NEW SMD 167-7776●	5.88	4.52	3.72
R5F212BCSDFA#U0	64/LQFP	128	7.5	—	20	55	I2C, UART	3 to 5.5	to	NEW SMD 167-7777●	5.88	4.52	3.72
R5F212CCSDFP#U0	64/LQFP	128	7.5	—	20	55	I2C, UART	3 to 5.5	to	NEW SMD 167-7778●	6.07	4.67	3.85

Starter Kit for M16C/62P Microcontroller



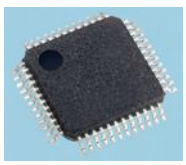
The Renesas Starter Kit for M16C/62P is intended as a user-friendly introductory and evaluation tool for the M16C/62P microcontroller. The board also provides a platform for evaluating the Renesas suite of development tools for coding and debugging, using High-performance Embedded Workshop as well as programming the device using E8 emulator and/or Flash Development Toolkit.

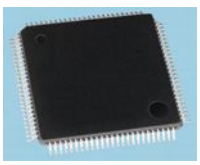
Kit Contents
- CPU Board
- Detachable LCD Display Module
- Detachable AD Adjustment Shaft
- E8 Emulator
- Connection Cable (USB Cable, User Interface Cable)
- Quick Start Guide
- CD-ROM containing Software Tools and Hardware Documentation

429906

Mftrs. List No	Order Code	Price Each
R0K33062PS000BE	117-2319	139.15

M16C / M32C Series Microcomputer





The M16C Family offers a robust platform of 32/16-bit CISC microcomputers featuring high ROM code efficiency, extensive EMI/EMS noise immunity, ultra-low power consumption, high-speed processing in actual applications, and numerous and varied integrated peripherals. Extensive device scalability from low- to high-end, featuring a single architecture as well as compatible pin assignments and peripheral functions, provides support for a vast range of application fields.

The M32C/87 is based on the M32C/80 CPU Core and has 16MB of address space. Maximum operating frequency is 32MHz. Mask ROM and Flash Memory Versions are available. Internal Flash Memory is programmable on a single power source.

447695

Mftrs. List No.	Pins/ Package	Program FLASH (KByte)	Internal RAM (KByte)	Data FLASH (KByte)	Clock Frequency (MHz)	I/O Pins	Serial Interface	Supply Voltage (V)	Operating Ambient Temperature	Order Code	Price Each 1+	10+	100+
MC16C Series													
M30260F8AGP#U5A	48/LQFP	64	2	4	20	39	3xUART, IEBus, I²C, SSU	3 to 5.5	-20°C to +85°C	NEW SMD 166-8660●	5.91	5.09	4.48
M30280FAHP#U5B	80/LQFP	96	8	4	20	71	3xUART, IEBus, I²C, SSU	3 to 5.5	-20°C to +85°C	NEW SMD 166-8661●	9.56	8.23	7.23
M30290FCHP#U5A	80/LQFP	128	12	4	20	71	3xUART, IEBus, I²C, SSU, CAN	3 to 5.5	-20°C to +85°C	NEW SMD 166-6254●	9.99	7.68	6.32
M30291FCHP#U3A	64/LQFP	128	12	4	20	55	I2C, SCI, UART	3 to 5.5	-20°C to +85°C	NEW SMD 167-7798●	11.94	9.19	7.56
M30290FCHP#U3A	80/LQFP	128	12	4	20	71	I2C, SCI, UART	3 to 5.5	-20°C to +85°C	NEW SMD 167-7799●	12.33	9.49	7.80
M30624FGPGP#U5C	100/LQFP	256	20	4	24	85	3xUART, IEBus, I²C, SSU	3 to 5.5	-20°C to +85°C	SMD 117-2304●	14.19	12.23	10.75
R5F3640DDFA#U0	100/QFP	256	16	4	25	88	I2C, UART	2.7 to 5.5	-40°C to +85°C	NEW SMD 167-7782●	9.46	7.27	5.99
R5F3640DDFB#U0	100/LQFP	256	16	8	25	88	I2C, UART	2.7 to 5.5	-40°C to +85°C	NEW SMD 167-7784●	9.01	6.93	5.70
R5F3650EDFA#U0	100/QFP	256	20	8	32	88	I2C, UART	3 to 5.5	-40°C to +85°C	NEW SMD 167-7786●	13.11	10.09	8.30
R5F3650EDFB#U0	100/LQFP	256	20	8	32	88	I2C, UART	3 to 5.5	-40°C to +85°C	NEW SMD 167-7789●	12.70	9.77	8.04
R5F3640MDFA#U0	100/QFP	512	31	8	25	88	I2C, UART	2.7 to 5.5	-40°C to +85°C	NEW SMD 167-7783●	10.90	8.40	6.91
R5F3640MDFB#U0	100/LQFP	512	31	8	25	88	I2C, UART	2.7 to 5.5	-40°C to +85°C	NEW SMD 167-7785●	10.50	8.07	6.64
R5F3650MDFA#U0	100/QFP	512	31	8	32	88	I2C, UART	3 to 5.5	-40°C to +85°C	NEW SMD 167-7787●	13.62	10.48	8.62

RL Re-reeling available

Microcontrollers and Microprocessors - 16/32-Bit RENESAS - continued

M16C / M32C Series Microcomputer - continued

Mftrs. List No.	Pins/ Package	Program FLASH (KByte)	Internal RAM (KByte)	Data FLASH (KByte)	Clock Frequency (MHz)	I/O Pins	Serial Interface	Supply Voltage (V)	Operating Ambient Temperature	Order Code	Price Each 1+	10+	100+
MC16C Series													
R5F3650MDFB#U0	100/LQFP	512	31	8	32	88	I2C, UART	3 to 5.5	-40°C to +85°C	NEW SMD 167-7790●	13.21	10.16	8.36
R5F3650TDFA#U0	100/QFP	768	47	8	32	88	I2C, UART	3 to 5.5	-40°C to +85°C	NEW SMD 167-7788●	13.94	10.72	8.82
R5F3650TDFB#U0	100/LQFP	768	47	8	32	88	I2C, UART	3 to 5.5	-40°C to +85°C	NEW SMD 167-7791●	13.53	10.40	8.56
MC32C Series													
M30879FLGP#U3	100/LQFP	1024	48	4	32	87	I2C, UART, CAN	4.2 to 5.5	-20°C to +85°C	NEW SMD 167-7797●	17.92	– –	– –

SH7080 Series MCUs

RENESAS New

The SH7080 group offers a maximum operating frequency of 80 MHz, representing a 1.6-fold improvement in performance over Renesas Technology's current SH7144 Series. This group incorporates a built-in power supply step-down circuit, and achieves 5V single power supply or 3.3V power supply operation. This group incorporates a maximum of 512 Kbytes of on-chip flash memory capable of constant single-cycle access through the use of cuttingedge flash memory technology. In addition, this group includes varioius peripheral functions such as DMA, a multifunction timer and a high-speed A/D converter in a single chip.

527576

Mftrs. List No.	Pins/ Package	ROM (KByte)	RAM (KByte)	Operating Frequency (MHz)	I/O Pins	Interface Type	Supply Voltage (V)	Operating Temperature	Order Code	Price Each 1+
DF70834AD80FTV	TQFP100/	256	16	80	65	I2C, SCI	3 to 3.6	-40°C to +85°C	SMD 167-7754●	10.63
DF70835AD80FTV	100/TQFP	512	32	80	65	I2C, SCI	3 to 3.6	-40°C to +85°C	SMD 167-7753●	12.46
DF70844AD80FPV	112/LQFP	256	16	80	76	I2C, SCI	3 to 3.6	-40°C to +85°C	SMD 167-7752●	11.03
DF70845AD80FPV	112/LQFP	512	32	80	76	I2C, SCI	3 to 3.6	-40°C to +85°C	SMD 167-7751●	13.39
DF70854AD80FPV	144/LQFP	256	16	80	100	I2C, SCI	3 to 3.6	-40°C to +85°C	SMD 167-7750●	12.66
DF70855AD80FPV	144/LQFP	512	32	80	100	I2C, SCI	3 to 3.6	-40°C to +85°C	SMD 167-7749●	14.18
DF70865AD80FPV	176/LQFP	512	32	80	118	I2C, SCI	3 to 3.6	-40°C to +85°C	SMD 167-7748●	15.36

SH7200 Series MCUs

RENESAS New

SH7200 Series is a set of products that feature an SH-2A CPU core. The SH-2A instruction set is fully upwardly-compatible with SH-1 and SH-2, and it also adopts new instructions such as Data Transfer Instruction and Operation Instruction. Superscalar architecture adapted for SH-2A enables the SH7200 Series to execute multiple instructions at the same time, greatly increasing its processing performance compared with the conventional SH-1 and SH-2.

In addition, SH7200 Series are equipped with equivalent modules to SH-1 and SH-2, in order to ensure smooth upgrading to SH-2A. They incorporate FPU, which support single-precision and double-precision floating-point arithmetics, enabling high-speed signal processing.

527580

Mftrs. List No.	Pins/ Package	ROM (KByte)	RAM (KByte)	Operating Frequency (MHz)	I/O Pins	Interface Type	Supply Voltage (V)	Operating Temperature	Order Code	Price Each 1+
DS72011RB120FPV	LQFP176/	ROMLESS	32	120	109	I2C, SSI	3 to 3.6	-20°C to +70°C	SMD 167-7757●	13.60
DS72030W200FPV	QFP240/	ROMLESS	80	200	82	I2C, SSU, SSI	1.1 to 1.3, 3.0 to 3.6	-20°C to +85°C	SMD 167-7756●	17.30

SH7210 Series MCUs

RENESAS New

The SH7210 Series incorporates an SH-2A CPU core which is fully upwardly-compatible with SH-1 and SH-2. The SH-2A CPU core employs a superscalar architecture enabling simultaneous execution of two instructions. Compared with the conventional SH-1 and SH-2, a tremendous increase in processing performance is realized.
The SH7210 Series supports new instructions including transfer instruction, arithmetic instruction - and bit operation instruction.The SH7210 series incorporates register banks. When an interrupt occurs, CPU internal register information is stored in registers at high speed, making it possible to improve real-time control performance greatly.

527582

Mftrs. List No.	Pins/ Package	ROM (KByte)	RAM (KByte)	Operating Frequency (MHz)	I/O Pins	Interface Type	Supply Voltage (V)	Operating Temperature	Order Code	Price Each 1+
DF72115D160FPV	LQFP144/	512	32	160	73	I2C, SCI	1.4 to 1.6	-40°C to +85°C	SMD 167-7762●	18.23

SH/Tiny Series MCUs

RENESAS New

The SH/Tiny Series is a microcontroller with on-chip Flash memory which offers a maximum operating frequency of 50 MHz. With a 16-bit multifunctional timer and high-speed A/D converter developed into a single chip mode motor, facilitating system control of motors, etc. with an on-chip debugging function as well as support for full ICE providing diverse debugging functions, the SH/Tiny Series provides an easy-to-use development environment.

527581

Mftrs. List No.	Pins/ Package	ROM (KByte)	RAM (KByte)	Operating Frequency (MHz)	I/O Pins	Interface Type	Supply Voltage (V)	Operating Temperature	Order Code	Price Each 1+
DF71242N50FPV	LQFP48/	64	8	50	23	SCI	4 to 5.5	-20°C to +85°C	SMD 167-7761●	7.16
DF71243N50FPV	LQFP48/	128	8	50	23	SCI	4 to 5.5	-20°C to +85°C	SMD 167-7760●	7.78
DF71252N50FPV	LQFP48/	64	8	50	37	SCI	4 to 5.5	-20°C to +85°C	SMD 167-7759●	7.49
DF71253N50FPV	LQFP48/	128	8	50	37	SCI	4 to 5.5	-20°C to +85°C	SMD 167-7758●	8.10

H8S/HS8SX & Tiny 16-bit Microcontrollers

SMD

RENESAS

234895

	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
4F2472	176	BGA	16 Bit Microcontroller. 512KB FLASH. 40KB RAM	R4F2472VBR34V	NEW SMD 167-7796●	11.24	8.65	7.12
5F61622	144	LQFP	32 Bit Microcontroller, 256KB FLASH, 24KB RAM	R5F61622N50FPV	NEW SMD 167-7793●	7.61	– –	– –
5F61648	144	LQFP	32 Bit Microcontroller, 1MB FLASH, 56KB RAM	R5F61648N50FPV	NEW SMD 167-7794●	11.75	– –	– –
61664	144	LQFP	32 Bit Microcontroller, 512KB FLASH, 40KB RAM	DF61664N50FPV	NEW SMD 167-7795●	12.39	– –	– –
64F2128	64	QFP	16-Bit Microcontroller, 128k Flash, 43 I/O lines, 20MHz	HD64F2128FA20V	SMD 119-3599●	17.88	15.13	11.95
64F2144	100	QFP	16-Bit Microcontroller, 128k Flash, 4Kb RAM, 74 I/O lines, 20MHz	HD64F2144FA20V	SMD 119-3598●	21.27	18.22	15.74
64F2378	144	LQFP	16-Bit Microcontroller, 512k Flash, 32Kb RAM, 96 I/O lines, 34MHz	HD64F2378RVFQ34V	SMD 117-2312●	18.57	16.00	14.07
64F2633	128	QFP	16-Bit Microcontroller, 256kb Flash, 16kb RAM, 73 I/O lines, 25MHz	HD64F2633F25V	SMD 119-3601●	35.70	25.50	20.40
6412674	144	QFP	16-Bit Microcontroller, ROMless, 8K RAM, 103 I/O lines, 12 Input lines	HD6412674RVFQ33V	SMD 883-0142●	17.37	14.48	11.70
64F2633	128	QFP	16-Bit Microcontroller, 256kb Flash, 16kb RAM, 73 I/O lines, 25MHz	HD64F2633F25V	SMD 119-3601●	35.70	25.50	20.40
64F3664	64	LQFP	16-Bit Microcontroller, 32K Flash, 2K RAM, 29 I/O lines, 8 Input lines.	HD64F3664FPV	SMD 883-0126●	11.88	9.93	8.01
64F2676	144	QFP	16-Bit Microcontroller, 256K Flash, 8K RAM, 103 I/O lines, 12 Input lines.	HD64F2676VFC33V	SMD 883-0134●	20.40	14.28	12.24
64F3687	64	QFP	16-Bit Microcontroller, 56kb Flash, 4K RAM, 45 I/O lines, I²C/SCI interface, 20MHz	HD64F3687HV	NEW SMD 119-3603●	9.90	7.51	6.25

RL Re-reeling available

SuperH™ Family Microcontrollers

RENESAS New

SuperH is an embedded RISC developed for high cost-performance, miniaturization, and performance per unit of power consumption (MIPS/W).
The SH-2 series features peripheral functions such as timer, serial I/O,low power modes, low power consumption, and small size.

Mftrs. List No.	Pins/Pkg	Memory Type	ROM	RAM	Serial Comms	I/Os Lines	Operating Freq.	Supply Voltage	Temperature
DS76190B125BGV	176 / LFBGA	ROMless	–	16KB	4 USART, IrDA	78	125MHz	1.71 - 1.89V	-20 to 70°C
DS76190N125BGV	176 / LFBGA	ROMless	–	16KB	4 USART, IrDA	78	125MHz	1.71 - 1.89V	-20 to 85°C
HD6417615ARFV	208 / LQFP	ROMless	–	8KB	5 USART, IrDA	29	62.5MHz	3 - 3.6V	-20 to 75°C
HD6417616SFV	208 / LQFP	ROMless	–	8KB	5 USART, IrDA	29	62.5MHz	3 - 3.6V	-20 to 75°C
HD6417710FV	256 / QFN	ROMless	–	16KB	2 UART, 2 SSU (SPI), 2 Ethernet	24	200MHz	1.5V	-20 to 75°C

514948

Mftrs. List No.	Description	Order Code	Price Each 1+	10+	100+
DS76190B125BGV	32-Bit RISC Microcomputer SuperH™ SH7619 Series	SMD 160-3143●	21.43	16.48	13.56
DS76190N125BGV	32-Bit RISC Microcomputer SuperH™ SH7619 Series	SMD 160-3144●	23.80	18.30	15.06
HD6417615ARFV	32-Bit RISC Microcomputer SuperH™ SH7600 Series	SMD 160-3147●	24.12	18.57	15.27
HD6417616SFV	32-Bit RISC Microcomputer SuperH™ SH7600 Series	SMD 160-3148●	27.13	20.88	17.18
HD6417710FV	32-Bit RISC Microcomputer SuperH™ SH7700 Series	SMD 160-3149●	30.15	23.19	19.07

HS0005KCU11H On-Chip Debugging Module

RENESAS New



HS0005KCU11H is an on-chip debugging module which utilizes the H-UDI interface of the target device.
With Automatic support for all H8S, H8SX and SH2 microcontrollers with H-UDI interface. The H-UDI can be connected using the 14-pin cable. This module does not support the AUD interface or the SH2, SH3 or SH4 microprocessors.

Components:
- E10A USB supporting H-UDI only - HS0005KCU11H
- 14-way cable for H-UDI connection
- Installation CD incorporating:

- High-performance Embedded Workshop integrated development environment with the E10A-USB debugger component
- Support for H8S, H8SX and SH2 microcontrollers with H-UDI interface. No support for SH3 or SH4 and no need to install Device Group Additions

PC Interface:
- USB interface (USB 1.1, Full speed)

527550

Mftrs. List No.	Description	Order Code	Price Each
HS0005KCU11H	On-Chip Debug Module	167-7726●	690.38

Development Tools for H8S/H8SX Microcontrollers

RENESAS



Entry level evaluation board/ starter kit for H8S/ H8SX Microcontrollers.

429610

Mftrs. List No		Order Code	Price Each
EDK2378	Evaluation Development Kit for H8S/2378	117-2322	280.08

SH/SH2/TINY GROUP

RENESAS

The H8SX/1650 Group is a microcomputer with a high-speed internal 32-bit H8SX CPU as its core, and the peripheral functions required for system configuration. The H8SX CPU is upward compatible with the H8/300, H8/300H, and H8S CPUs.
H8SX family ROMless products support booting of programs to external Flash memory. By using this function, writing programs to onboard external Flash memory can be easily realized.

Application include:
- AV/Home Graphics User
- Network, Industry/Security
- PC-related: PC, Storage System, Printer, Scanner

429709

Mftrs. List No	Memory type	Order Code	Price Each 1+	10+	100+
R5F61657N35FTV	FLASH	SMD 117-2313●	14.72	12.69	11.15

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Microcontrollers and Microprocessors - 16-Bit TEXAS INSTRUMENTS

MSP-FET430 Emulators with USB Programmer

TEXAS INSTRUMENTS



The MSP-FET430 emulators are powerful tools that includes the hardware and software required to complete much of your application development work. The flash memory can be erased and programmed in seconds with only a few keystrokes, and since the MSP430 flash is extremely low power, no external power supply is required. The tool has an integrated software environment and connects directly to the USB port of a PC which greatly simplifies the set-up and use of the tool.

Features:
- FET development board with a ZIF socket fitting MSP430 derivatives, LED indicator, USB to JTAG adapter, cables and header pinouts for prototyping
- Flash devices
- Integrated IAR Kickstart user interface which includes an assembler, linker, simulator, source-level debugger and limited C-compiler
- Full documentation on CD-ROM

492658

		Order Code	Price Each
MSP-FET430U14	14 Pin Pkg Board and USB Programmer	117-2230	135.43
MSP-FET430U64	64 Pin Pkg Board and USB Programmer	117-2231	135.43
MSP-FET430U80	80 Pin Pkg Board and USB Programmer	117-2233	120.64

MSP-FET430 FLASH Emulation Tools

TEXAS INSTRUMENTS



Features:
- MSP430 FET development board with:
  - ZIF socket
  - LED indicator
  - FET to PC cable
  - header pinouts for prototyping
  - On-chip emulation via JTAG
  - Real-time execution/programming
  - Hardware breakpoints/single step
- Two MSP430 supporting FLASH devices
- Integrated IAR Kickstart user interface, including:
  - Unlimited assembler/linker/simulator
  - source-level debugger
  - limited (4kb) C compiler.
- Full documentation on CD ROM.

The FLASH Emulation Tools (FETs) support in-system development for all MSP430 FLASH devices. The MSP-FET430 FLASH Emulators are powerful tools that include the hardware and software required for application development.

Programming, assembler/C-source level debug, single stepping, multiple hardware breakpoints, full-speed operation and peripheral access are fully supported in-system using JTAG.

The IAR Kickstart environment enables designers to update, download, run and debug their code whilst the MSP430 is connected to the PC. This quickens the development cycle of the application. The FLASH memory can be erased and programmed with a few keystrokes.

The MSP430 FLASH is low power and so requires no external power supply. The tools have an integrated software environment and connects directly to the PC, simplifying the set-up and use of the tool. The tools support development with the appropriate FLASH parts in the product families.

240432

Mftrs. List No.		Order Code	Price Each
MSP-FET430X110	supports MSP430P11x family	416-3930	44.55
MSP-FET430P120	supports MSP430P12x family	416-3941	89.99
MSP-FET430P140	supports MSP430P13x/14x family	416-3904	91.80
MSP-FET430P440	supports MSP430P43x/44x family	416-3916	91.80

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Microcontrollers and Microprocessors - 16-Bit TEXAS INSTRUMENTS - continued

MSP-FET430PIF/UIF Debugging Interfaces





The MSP-FET430PIF is a Parallel Port interface and the MSP-FET430UIF is a USB interface pod (neither include target board) that are used to program and debug MSP430 FET tools and test boards through the JTAG interface. These interfaces communicate to the Debugger Software (IAR Kickstart software included) running on the PC. The parallel interface uses the standard 14 pin header to communicate to the MSP430 device using the standard JTAG protocol whereas the USB interface can also use the pin saving Spy-Bi-Wire (2-wire JTAG) protocol.The flash memory can be erased and programmed in seconds with only a few keystrokes, and since the MSP430 flash is extremely low power, no external power supply is required. The tool has an integrated software environment and connects directly to the PC which greatly simplifies the set-up and use of the tool. The flash development tool supports development with all MSP430 flash parts.

Features:
- MSP430 debugging interface to connect a MSP430-Flash-device to a USB port on a PC
- Provided with a USB cable and a 14-conductor target cable
- Integrated IAR Kickstart user interface which includes an assembler, linker, simulator, source-level debugger, and limited C-compiler
- Full documentation on CD ROM
- Backwardly compatable with existing FET tool boards

492663

		Order Code	Price Each
MSP-FET430PIF	Parallel Port Debug Interface	**117-2236**	35.88
MSP-FET430UIF	USB Debugging Interface	**117-2235**	89.99

MSP-FET430 Parallel Port Debug Interface



The MSP-FET430PIF is a Parallel Port interface (target board not included) that is used to program and debug MSP430 FET tools and test boards through the JTAG interface. This interface is included in our FET tools, but sold without the development board. This interface uses a Parallel PC Port to communicate to the Debugger Software (IAR Kickstart software included) running on the PC. The interface uses the standard 14 pin header to communicate to the MSP430 device using the standard JTAG protocol.

Features:
- MSP430 debugging interface
- Supports JTAG debug protocol (NO support for Spy-Bi-Wire (2-wire JTAG) debug protocol)
- Parallel Port cable and a 14-conductor target cable
- Full documentation on CD ROM
- Backwardly compatable with existing FET tool boards

Integrated IAR Kickstart user interface which includes:
- Assembler
- Linker
- Limulator
- Source-level debugger
- Limited C-compiler

486035

Mftrs. List No.	Order Code	Price Each
MSP-FET430PIF	**117-2236**	35.88

MSP430 USB Debugging Interface



The MSP-FET430UIF is a USB interface pod (does not include target board) that is used to program and debug MSP430 FET tools and test boards through the JTAG interface. The USB pod uses a USB PC port to communicate to the Debugger Software running on the PC. It uses the standard 14 pin header to communicate to the MSP430 device either using the standard JTAG or pin saving Spy-Bi-Wire (2-wire JTAG) protocol.

Features:
- MSP430 debugging interface
- Supports both JTAG and Spy-Bi-Wire (2-wire JTAG) debug protocols
- USB cable and a 14-conductor target cable
- Integrated IAR Kickstart user interface

Technical Specifications:
- Software Configurable supply voltage between 1.8 and 5 volts at 100mA
- Can burn JTAG Security Fuse
- Backwardly compatible with existing FET tools and existing JTAG boards

486072

Mftrs. List No.	Order Code	Price Each
MSP-FET430UIF	**117-2235**	89.99

MSP-FET430 USB Programmers



Features:
- FET development board with a ZIF socket
- Relevent FLASH devices
- Integrated IAR Kickstart user interface

Kits Include:
- Assembler
- CD-ROM
- Compiler
- Development Board
- USB Cable
- USB Connector
- USB Programmer

The MSP-FET430Uxx is a powerful tool that includes the hardware and software required to complete much of your application development work. The flash memory can be erased and programmed in seconds with only a few keystrokes, and since the MSP430 flash is extremely low power, no external power supply is required. The tool has an integrated software environment and connects directly to the USB port of a PC which greatly simplifies use and set-up. It supports development with the MSP430 flash parts in a choice of the following packages: 20 and 28 pin SOWB, 14 pin TSSOP, 64 pin QFP and 80 pin QFN.

486041

Mftrs. List No.	Description	Order Code	Price Each
MSP-FET430U14	14 Pin Pkg Board and USB Programmer	**117-2230**	135.43
MSP-FET430U28	MSP430 20 and 28-Pin Package Board and USB Programmer	**147-1277**	124.05
MSP-FET430U64	64 Pin Pkg Board and USB Programmer	**117-2231**	135.43
MSP-FET430U80	80 Pin Pkg Board and USB Programmer	**117-2233**	120.64

MSP-PRG430 Universal Programmer



The MSP-PRGS430 is a universal FLASH, OTP or UV device programmer controlled via a PC serial port. Devices can be programmed in-system using JTAG connection or in stand-alone sockets.

Features:
- RS232 to 14-pin JTAG interface
- Includes .DLL files for production environment
- Supports all devices

240434

Mftrs. List No.		Order Code	Price Each
MSP-PRGS430	Serial Programming Adapter	**416-3928**	180.87

MSP430 In-System Gang Programmer

This in-system gang programmer tool can be used to program up to 8 MSP430 FLASH devices simultaneously. These devices can be programmed in-circuit or in stand-alone sockets and software is included to facilitate device programming. The programming can be done with a PC or standalone. Since the graphical user interface (GUI) is DLL-based the DLL can be used independently from the GUI. Several examples show how the DLL could be applied at various high level languages (C, C++, VisualBasic, LabView).

Features:
- In circuit gang programmer
- 1 Cable Sub-D 9 Pin and one Cable Sub-D 25 Pin
- Target expansion board
- Eight 14-pin cables for connectivity of up to 8 targets
- Literature including Read Me First and MSP-GANG430 User's Guide
- CD-ROM with MSP-GANG430 Software
- CE-Confirmation Letter

339879

Mftrs. List No.	Order Code	Price Each
MSP-GANG430	**509-9304**	180.87



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MSP430 Ultra Low Power Microcontrollers

The MSP430 family is a 16-bit RISC based mixed-signal processor, ideal for battery powered measurement applications, enabling systems engineers to interface to analogue signals, sensors and digital components simultaneously.

Features:
- Ultra low power architecture extends battery life
- High performance analogue
- 16-bit RISC CPU enables applications at low code size
- ISP FLASH permits flexible code changes, field upgrades and data logging
- Complete Integrated Development Environment

All devices support:
- Watchdog (16-bit)
- Timer_A (16-bit)
- Comparator_A - analogue signal compare function, slope A/D conversion
- Vcc = 1.8V - 3.6V
- Industrial Temperature

240433

Mftrs. List No.	Pins/ Package	Program (Flash kBytes)	RAM (Bytes)	I/O	ADC	Interface	Order Code	Price Each 1+	10+	100+
MSP430P325IPG	64/QFP	–	512	8	14-bit SAR	UART	NEW SMD 161-0183●	9.17	7.64	5.81
MSP430F2001TRSAT	16/QFN	1KB	128	10	Slope	Timer UART	NEW SMD 161-0173●	0.92	0.62	0.48
MSP430F1101AIDW	20/SOIC	1KB	128	14	SLOPE	TIMER UART	SMD 147-1254●	1.56	1.19	0.90
MSP430F1101AIPW	20/TSSOP	1KB	128	14	SLOPE	TIMER UART	SMD 147-1261●	2.01	1.50	1.08
MSP430F2001IPW	14/TSSOP	1KB	128	10	Slope	Timer UART	NEW SMD 161-0171●	0.92	0.62	0.48
MSP430F2001TPW	14/TSSOP	1KB	128	10	Slope	Timer UART	NEW SMD 161-0172●	0.92	0.62	0.48
MSP430F2001IN	14/PDIP	1KB	128	10	Slope	UART	NEW 164-9393●	0.73	0.56	0.47
MSP430F2001IRSAT	16/QFN	1KB	128	10	Slope	UART	NEW SMD 164-9394●	0.73	0.56	0.47
MSP430F2002IN	14/PDIP	1KB	128	10	10-bit SAR	USI	NEW 164-9396●	1.25	0.95	0.80
MSP430F2002IPW	14/TSSOP	1KB	128	10	10-bit SAR	USI	NEW SMD 164-9397●	1.06	0.81	0.66
MSP430F2002IRSAT	16/QFN	1KB	128	10	10-bit SAR	USI	NEW SMD 164-9398●	1.12	0.86	0.71
MSP430F2002TRSAT	16/QFN	1KB	128	10	10-bit SAR	USI	NEW SMD 164-9399●	1.19	0.91	0.75
MSP430F2101IPW	20/TSSOP	1KB	128	16	Slope	UART	NEW SMD 164-9407●	0.99	0.76	0.63
MSP430F2101IRGET	24/QFN	1KB	128	16	Slope	UART	NEW SMD 164-9408●	0.99	0.76	0.63
MSP430F1111AIDW	20/SOIC	2KB	128	14	SLOPE	TIMER UART	SMD 147-1255●	2.71	1.85	1.37
MSP430F1111AIPW	20/TSSOP	2KB	128	14	SLOPE	TIMER UART	SMD 147-1258●	2.71	1.85	1.37
MSP430F2011IN	14/DIP	2KB	128	10	Slope	Timer UART	NEW 161-0174●	1.18	0.80	0.60
MSP430F2011IRSAT	16/QFN	2KB	128	10	Slope	UART	NEW SMD 164-9400●	0.85	0.65	0.55
MSP430F2011TPW	14/TSSOP	2KB	128	10	Slope	UART	NEW SMD 164-9402●	0.92	0.71	0.58
MSP430F2012IPW	14/TSSOP	2KB	128	10	10-bit SAR	USI (SPI or I2C)	SMD 147-1274●	1.64	1.21	0.92
MSP430F2012IN	14/DIP	2KB	128	10	10-bit SAR	USI (SPI or I2C)	NEW 161-0175●	1.55	1.17	0.89
MSP430F2012IRSAT	16/QFN	2KB	128	10	10-bit SAR	USI	NEW SMD 164-9403●	1.25	0.95	0.80
MSP430F2012TN	14/PDIP	2KB	128	10	10-bit SAR	USI	NEW 164-9404●	1.38	1.07	0.88
MSP430F2012TPW	14/TSSOP	2KB	128	10	10-bit SAR	USI	NEW SMD 164-9405●	1.31	1.01	0.84
MSP430F2013TN	14/PDIP	2KB	128	10	16-bit Sigma Delta	USI	NEW 164-9406●	2.04	1.57	1.29
MSP430F2013IN	14/DIP	2KB	128	10	16-bit Sigma Delta	USI (SPI or I2C)	NEW 161-0176●	2.22	1.67	1.26
MSP430F2013TPW	14/TSSOP	2KB	128	10	16-bit Sigma Delta	USI (SPI or I2C)	NEW SMD 161-0177●	2.08	1.56	1.19
MSP430F2013IPW	14/TSSOP	2KB	128	10	16-bit Sigma Delta	Timer UART,USI for SPI/I2C	SMD 117-2228●	2.60	1.98	1.57
MSP430F2111IPW	20/TSSOP	2KB	128	16	Slope	UART	NEW SMD 164-9409●	1.06	0.81	0.66
MSP430F2112TPW	28/TSSOP	2KB	256	24	10-bit SAR	UART, LIN, IrDA, SPI, I2C	NEW SMD 164-9410●	2.10	1.62	1.36
MSP430F1121IDW	20/SOIC	4KB	256	14	Slope	Timer UART	SMD 110-3050●	4.31	2.94	2.19
MSP430F1121AIPW	20/TSSOP	4KB	256	14	Slope	Timer UART	SMD 117-2224●	3.38	2.32	1.73
MSP430F1121IPW	20/TSSOP	4KB	256	14	Slope	1 SPI or UART,Timer UART	SMD 113-5957●	4.31	2.94	2.19
MSP430F1122IDW	20/SOIC	4KB	256	14	10-bit SAR	TIMER UART	SMD 147-1256●	4.01	2.73	2.03
MSP430F1122IPW	20/TSSOP	4KB	256	14	10-bit SAR	TIMER UART	SMD 147-1257●	4.01	2.73	2.03
MSP430F122IDW	28/SOIC	4KB	256	22	SLOPE	1 USART (SPI or UART)	SMD 147-1262●	4.31	2.94	2.19
MSP430F122IPW	28/TSSOP	4KB	256	22	SLOPE	1 USART (SPI or UART)	SMD 147-1263●	4.31	2.94	2.19
MSP430F1222IDW	28/SOIC	4KB	256	22	10-bit SAR	1 USART (SPI or UART)	SMD 147-1264●	4.81	3.28	2.44
MSP430F1222IPW	28/TSSOP	4KB	256	22	10-bit SAR	1 USART (SPI or UART)	SMD 147-1265●	4.81	3.28	2.44
MSP430F2121IDGV	20/TVSOP	4KB	256	16	Slope	UART	NEW SMD 164-9411●	1.46	1.12	0.94
MSP430F2122IRHBT	32/QFN	4KB	512	24	10-bit SAR	UART, LIN, IrDA, SPI, I2C	NEW SMD 164-9412●	2.17	1.67	1.40
MSP430F123IRHBT	32/QFN	8KB	256	22	Slope	SPI, UART	NEW SMD 164-9387●	3.02	2.33	1.91
MSP430F123IDW	28/SOIC	8KB	256	22	12-bit SAR	1 SPI or UART,Timer UART	SMD 110-3051●	4.62	3.14	2.34
MSP430F123IPW	28/TSSOP	8KB	256	22	12-bit SAR	2 SPI or UART,Timer UART	SMD 110-3053●	4.62	3.14	2.34
MSP430F133IPAG	64/TQFP	8KB	256	48	12-bit SAR	SPI, UART	NEW SMD 164-9388●	3.94	3.03	2.49
MSP430F133IPM	48/LQFP	8KB	256	48	12-bit SAR	1 USART (SPI or UART)	SMD 147-1268●	5.35	3.64	2.94
MSP430F413IPM	64/QFP	8KB	256	48	Slope	Timer UART	SMD 110-3054●	5.25	3.58	2.89
MSP430F423IPM	64/LQFP	8KB	256	14	16-bit Sigma Delta	1x USART (SPI or UART)	NEW SMD 161-0182●	5.99	5.00	3.95
MSP430F423AIPM	64/LQFP	8KB	256	14	16-bit Sigma Delta	1 USART (SPI or UART)	SMD 155-5268●	6.67	5.00	3.80
MSP430FW423IPM	64/LQFP	8KB	256	48	Slope	Timer UART	SMD 155-5280●	5.54	4.16	3.18
MSP430F1132IPW	20/TSSOP	8KB	256	14	Slope	1 SPI or UART,Timer UART	SMD 113-5962●	4.51	3.07	2.29
MSP430F1232IDW	28/SOIC	8KB	256	22	10-bit SAR	1 USART (SPI or UART)	SMD 147-1266●	4.46	3.04	2.45
MSP430F1232IPW	22/TSSOP	8KB	256	22	10-bit SAR	1 USART (SPI or UART)	SMD 147-1267●	4.46	3.04	2.45
MSP430F2131IPW	20/TSSOP	8KB	256	16	Slope	UART	NEW SMD 164-9414●	1.84	1.43	1.19
MSP430F2131TRGET	24/QFN	8KB	256	16	Slope	UART	NEW SMD 164-9415●	1.84	1.43	1.19
MSP430F2132IPW	28/TSSOP	8KB	512	24	10-bit SAR	UART, LIN, IrDA, SPI, I2C	NEW SMD 164-9416●	2.30	1.77	1.49
MSP430F2132TPW	28/TSSOP	8KB	512	24	10-bit SAR	UART, LIN, IrDA, SPI, I2C	NEW SMD 164-9417●	2.37	1.82	1.53
MSP430F2132TRHBT	32/QFN	8KB	512	24	10-bit SAR	UART, LIN, IrDA, SPI, I2C	NEW SMD 164-9418●	2.37	1.82	1.53
MSP430F2232IDA	38/TSSOP	8KB	512	32	10-Bit SAR	USCI (UART/LIN/IrDA/SPI and I2C/SPI)	NEW SMD 161-0178●	2.90	2.15	1.66
MSP430F2234IDA	38/TSSOP	8KB	512	32	10-bit SAR	UART, LIN, IrDA, SPI, I2C	NEW SMD 164-9419●	2.83	2.18	1.83
MSP430F2234IRHAT	40/QFN	8KB	512	32	10-bit SAR	UART, LIN, IrDA, SPI, I2C	NEW SMD 164-9420●	2.83	2.18	1.83
MSP430F233TPM	64/LQFP	8KB	1024	48	12-bit SAR	UART, LIN, IrDA, SPI, I2C	NEW SMD 164-9428●	3.14	2.42	2.04
MSP430F233TRGCT	64/VQFN	8KB	1024	48	12-bit SAR	UART, LIN, IrDA, SPI, I2C	NEW SMD 164-9429●	3.14	2.42	2.04
MSP430F2330IRHAT	40/QFN	8KB	1024	32	Slope	UART, LIN, IrDA, SPI, I2C	NEW SMD 164-9426●	2.44	1.87	1.58
MSP430F2330TRHAT	40/QFN	8KB	1024	32	Slope	UART, LIN, IrDA, SPI, I2C	NEW SMD 164-9427●	2.49	1.92	1.62
MSP430F135IPM	64/QFP	16KB	512	48	Slope	Timer UART	SMD 110-6050●	6.41	4.37	3.53
MSP430F155IPM	64/LQFP	16KB	512	48	12-bit SAR	1 USART (SPI or UART or I2C)	SMD 147-1270●	8.82	6.01	4.85
MSP430F155IRTDT	64/QFN	16KB	512	48	12-bit SAR	1 USART (SPI or UART or I2C)	NEW SMD 161-0169●	6.59	5.50	4.17
MSP430P315SIDL	48/SSOP	16KB	512	14	Slope	–	SMD 155-5283●	7.76	5.82	4.43
MSP430F415IPM	64/LQFP	16KB	512	48	Slope	UART	NEW SMD 164-9459●	4.47	3.42	2.82
MSP430F425AIPM	64/LQFP	16KB	512	14	16-bit Sigma Delta	1 USART (SPI or UART)	SMD 155-5269●	7.32	5.50	4.43
MSP430FW425IPM	64/LQFP	16KB	512	48	Slope	Timer UART	SMD 155-5281●	5.99	4.50	3.42
MSP430F435IPN	80/LQFP	16KB	512	48	12-bit SAR	SPI, UART	NEW SMD 164-9461●	5.82	4.49	3.78
MSP430F2252TDA	38/TSSOP	16KB	512	32	10-Bit SAR	USCI	SMD 155-5266●	3.25	2.44	1.85
MSP430F2252TRHAT	40/QFN	16KB	512	32	10-Bit SAR	USCI	SMD 155-5267●	3.25	2.44	1.85
MSP430F2252IDA	38/TSSOP	16KB	512	32	10-bit SAR	UART, LIN, IrDA, SPI, I2C	NEW SMD 164-9421●	2.90	2.22	1.87
MSP430F2254IDA	38/TSSOP	16KB	512	32	10-bit SAR	UART, LIN, IrDA, SPI, I2C	NEW SMD 164-9422●	3.14	2.42	2.04
MSP430F2254IRHAT	40/QFN	16KB	512	32	10-bit SAR	UART, LIN, IrDA, SPI, I2C	NEW SMD 164-9423●	3.14	2.42	2.04
MSP430F2254TRHAT	40/QFN	16KB	512	32	10-bit SAR	UART, LIN, IrDA, SPI, I2C	NEW SMD 164-9424●	3.14	2.42	2.04
MSP430F235TPM	64/LQFP	16KB	2048	48	12-bit SAR	UART, LIN, IrDA, SPI, I2C	NEW SMD 164-9432●	3.82	2.94	2.47
MSP430F235TRGCT	64/VQFN	16KB	2048	48	12-bit SAR	UART, LIN, IrDA, SPI, I2C	NEW SMD 164-9433●	3.82	2.94	2.47
MSP430F2350IRHAT	40/QFN	16KB	2048	32	Slope	UART, LIN, IrDA, SPI, I2C	NEW SMD 164-9430●	2.83	2.18	1.83
MSP430F2350TRHAT	40/QFN	16KB	2048	32	Slope	UART, LIN, IrDA, SPI, I2C	NEW SMD 164-9431●	2.90	2.22	1.87
MSP430F4250IRGZT	48/QFN	16KB	256	48	16-bit Sigma Delta	UART	NEW SMD 164-9460●	4.06	3.13	2.58
MSP430F4260IDL	48/SSOP	24KB	256	32	16-bit Sigma Delta	Timer UART	SMD 155-5270●	5.11	3.84	2.94
MSP430F4260IRGZT	48/QFN	24KB	256	32	16-bit Sigma Delta	Timer UART	SMD 155-5271●	5.11	3.84	2.92
MSP430F436IPZ	100/LQFP	24KB	1024	48	12-bit SAR	SPI, UART	NEW SMD 164-9463●	6.16	4.75	4.00
MSP430F147IPAG	64/TQFP	32KB	1024	48	12-bit SAR	SPI, UART	NEW SMD 164-9389●	6.63	5.11	4.30
MSP430F147IRTDT	64/QFN	32KB	1024	48	12-bit SAR	SPI, UART	NEW SMD 164-9390●	6.63	5.11	4.20
MSP430F147IPM	48/LQFP	32KB	1024	48	12-bit SAR	2 USART (SPI or UART)	SMD 147-1269●	7.49	5.75	4.88
MSP430F157IPM	64/LQFP	32KB	1024	48	12-bit SAR	1 SPI or UART, I2C,Timer UART	SMD 117-2225●	7.37	5.87	5.65
MSP430F167IPM	64/LQFP	32KB	1024	48	12-bit SAR	1 USART (SPI or UART or I2C), 1 USART (SPI or UART)	SMD 147-1271●	10.03	7.69	6.52

RL Re-reeling available

Microcontrollers and Microprocessors - 16-Bit TEXAS INSTRUMENTS - continued

MSP430 Ultra Low Power Microcontrollers - continued

Mftrs. List No.	Pins/ Package	Program (Flash kBytes)	RAM (Bytes)	I/O	ADC	Interface	Order Code	Price Each 1+	10+	100+
MSP430FW427IPM	64/LQFP	32KB	1024	48	Slope	Timer UART	SMD 155-5282●	6.58	4.93	3.75
MSP430F437IPN	80/LQFP	32KB	1024	48	12-bit SAR	1 SPI or UART,Timer UART	SMD 117-2229●	8.73	5.95	4.80
MSP430F437IPZ	100/QFP	32KB	1024	48	12-bit SAR	1 SPI or UART,Timer UART	SMD 121-4412●	8.73	5.95	4.80
MSP430FG437IPN	80/LQFP	32KB	1024	48	12-bit SAR	1 USART (SPI or UART)	SMD 147-1275●	9.65	7.40	6.28
MSP430F447IPZ	100/LQFP	32KB	1024	48	12-bit SAR	2 USART (SPI or UART)	SMD 147-1276●	8.53	6.55	5.55
MSP430F2274IDA	38/TSSOP	32KB	1024	32	10-Bit SAR	USCI (UART/LIN/IrDA/SPI and I2C/SPI)	NEW SMD 161-0179●	3.59	3.00	2.41
MSP430F2274TDA	38/TSSOP	32KB	1024	32	10-Bit SAR	USCI (UART/LIN/IrDA/SPI and I2C/SPI)	NEW SMD 161-0180●	3.66	3.05	2.32
MSP430F4371IPZ	100/LQFP	32KB	1024	48	–	SPI, UART	NEW SMD 164-9464●	5.91	4.54	3.83
MSP430F2370TRHAT	40/QFN	32KB	2048	32	Slope	UART, LIN, IrDA, SPI, I2C	NEW SMD 164-9434●	3.14	2.42	2.04
MSP430F247TPM	64/LQFP	32KB	4096	48	12-bit SAR	UART, LIN, IrDA, SPI, I2C	NEW SMD 164-9443●	5.32	4.10	3.45
MSP430F247TRGCT	64/VQFN	32KB	4096	48	12-bit SAR	UART, LIN, IrDA, SPI, I2C	NEW SMD 164-9444●	5.32	4.10	3.37
MSP430F1610IRTDT	64/QFN	32KB	5120	48	12-bit SAR	SPI, UART	NEW SMD 164-9392●	10.82	8.33	6.84
MSP430F1610IPM	64/LQFP	32KB	5120	48	12-bit SAR	1 USART (SPI or UART or I2C), 1 USART (SPI or UART)	SMD 147-1273●	12.24	9.39	7.97
MSP430F1481IRTDT	64/QFN	48KB	2048	48	Slope	SPI, UART	NEW SMD 164-9391●	6.95	5.35	4.41
MSP430F248TPM	64/LQFP	48KB	4096	48	12-bit SAR	UART, LIN, IrDA, SPI, I2C	NEW SMD 164-9445●	6.03	4.63	3.83
MSP430F248TRGCT	64/VQFN	48KB	4096	48	12-bit SAR	UART, LIN, IrDA, SPI, I2C	NEW SMD 164-9446●	6.03	4.63	3.83
MSP430F1612IPM	64/LQFP	55 KB	5120	48	12-bit SAR	2 SPI or UART, I2C,Timer UART	SMD 117-2227●	13.28	10.19	8.64
MSP430F169IPM	64/LQFP	55 KB	5120	48	12-bit SAR	2 SPI or UART, I2C,Timer UART	SMD 117-2226●	11.80	9.05	7.68
MSP430F2410TPM	64/LQFP	56KB	4096	48	12-bit SAR	UART, LIN, IrDA, SPI, I2C	NEW SMD 164-9435●	6.36	4.89	4.13
MSP430F2410TRGCT	64/VQFN	56KB	4096	48	12-bit SAR	UART, LIN, IrDA, SPI, I2C	NEW SMD 164-9436●	6.36	4.89	4.13
MSP430F149IPM	64/QFP	60 KB	1024	48	Slope	Timer UART	SMD 110-3048●	8.98	6.89	5.84
MSP430F249TPM	64/LQFP	60KB	2048	48	12-bit SAR	UART, LIN, IrDA, SPI, I2C	NEW SMD 164-9448●	6.23	4.79	4.04
MSP430F249TRGCT	64/VQFN	60KB	2048	48	12-bit SAR	UART, LIN, IrDA, SPI, I2C	NEW SMD 164-9451●	6.23	4.79	3.94
MSP430FG439IPN	80/LQFP	60 KB	2048	48	12-bit SAR	1 USART (SPI or UART)	SMD 155-5272●	11.75	8.81	6.70
MSP430F449IPZ	100/QFP	60 KB	2048	48	12-bit SAR	2 SPI or UART,Timer UART	SMD 110-3049●	10.48	8.03	6.81
MSP430F2491TRGCT	64/VQFN	60KB	2048	48	Slope	UART, LIN, IrDA, SPI, I2C	NEW SMD 164-9447●	5.77	4.44	3.66
MSP430F2416TPM	64/LQFP	92KB	4096	48	12-bit SAR	UART, LIN, IrDA, SPI, I2C	NEW SMD 164-9438●	7.34	5.66	4.76
MSP430F2416TPN	80/LQFP	92KB	4096	64	12-bit SAR	UART, LIN, IrDA, SPI, I2C	NEW SMD 164-9439●	7.34	5.66	4.76
MSP430F2616TPM	64/LQFP	92KB	4096	48	12-bit SAR	UART, LIN, IrDA, SPI, I2C	NEW SMD 164-9452●	9.31	7.17	5.90
MSP430FG4616IPZ	100/LQFP	92KB	4096	80	12-bit SAR	1 USART (SPI or UART), USCI	SMD 155-5274●	13.96	10.48	7.96
MSP430FG4616IZQWT	113/BGA	92KB	4096	80	12-bit SAR	1 USART (SPI or UART), USCI	SMD 155-5275●	13.96	10.48	7.96
MSP430F2617TPM	64/LQFP	92KB	8192	48	12-bit SAR	UART, LIN, IrDA, SPI, I2C	NEW SMD 164-9453●	9.96	7.66	6.31
MSP430F2617TPN	80/LQFP	92KB	8192	64	12-bit SAR	UART, LIN, IrDA, SPI, I2C	NEW SMD 164-9454●	9.96	7.66	6.31
MSP430F2417TPM	64/LQFP	92KB	8192	48	12-bit SAR	UART, LIN, IrDA, SPI, I2C	NEW SMD 164-9440●	8.00	6.15	5.19
MSP430FG4617IPZ	100/LQFP	92KB	8192	80	12-bit SAR	1 USART (SPI or UART), USCI	SMD 155-5276●	14.71	11.02	8.38
MSP430FG4617IZQWT	113/BGA	92KB	8192	80	12-bit SAR	1 USART (SPI or UART), USCI	SMD 155-5277●	14.71	11.02	8.38
MSP430F2418TPM	64/LQFP	116KB	8192	48	12-bit SAR	UART, LIN, IrDA, SPI, I2C	NEW SMD 164-9441●	8.39	6.45	5.32
MSP430F2418TPN	80/LQFP	116KB	8192	64	12-bit SAR	UART, LIN, IrDA, SPI, I2C	NEW SMD 164-9442●	8.39	6.45	5.32
MSP430F2618TPM	64/LQFP	116KB	8192	48	12-bit SAR	UART, LIN, IrDA, SPI, I2C	NEW SMD 164-9455●	10.36	7.97	6.72
MSP430F2618TPN	80/LQFP	116KB	8192	64	12-bit SAR	UART, LIN, IrDA, SPI, I2C	NEW SMD 164-9456●	10.36	7.97	6.72
MSP430F2619TPM	64/LQFP	120KB	4096	48	12-bit SAR	UART, LIN, IrDA, SPI, I2C	NEW SMD 164-9457●	9.96	7.66	6.31
MSP430F2619TPN	80/LQFP	120KB	4096	64	12-bit SAR	UART, LIN, IrDA, SPI, I2C	NEW SMD 164-9458●	9.96	7.66	6.31
MSP430FG4619IPZ	100/LQFP	120 KB	4096	80	12-bit SAR	1 USART (SPI or UART), USCI	SMD 155-5278●	14.71	11.02	8.38
MSP430FG4619IZQWT	113/BGA	120 KB	4096	80	12-bit SAR	1 USART (SPI or UART), USCI	SMD 155-5279●	14.71	11.02	8.38

eZ430-F2013 Development Tool in a USB Stick



The eZ430-F2013 is a complete MSP430 development tool including all the hardware and software to evaluate the MSP430F2013 and develop a complete project in a convenient USB stick form. The eZ430-F2013 uses the IAR Embedded Workbench Integrated Development Environment (IDE) to provide full emulation with the option of designing with a stand-alone system or detaching the removable target board to integrate into an existing design. The USB port provides enough power to operate the ultra-low-power MSP430 so no external power supply is required.

Features:
- eZ430-F2013 development tool including a USB debugging interface and detachable MSP430F2013 target board
- LED indicator
- Removable USB stick enclosure
- Debugging interface supports development with all MSP430F20xx devices
- Integrated IAR Kickstart user interface which includes an assembler, linker, simulator, source-level debugger and limited C-compiler
- Full documentation on CD-ROM

Kit Contents:
- CD-ROM including software and documentation
- IAR Embedded Workbench (Kickstart Version) IDE
- eZ430-F2013 Development Tool

429586

Mftrs. List No.	Order Code	Price Each
EZ430-F2013	**117-2234**	18.17

MSP430FG4618/F2013 Experimenter Board



New

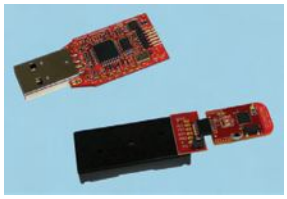
This MSP430 Experimenter Board features a MSP430F2013 and a MSP430FG4618 and is compatible with TI's wireless evaluation modules. Two JTAG headers are accessible to program and debug each MSP430 individually and allows for communication to external devices or between the two MSP430s. Power may be supplied over the USB FET or from the included AAA batteries.

Features:
- Microphone
- Buzzer
- LCD
- Capacitive Touch Pad
- 2x Push Buttons
- Prototyping Space
- RS232 Communication Interface
- 2x JTAG Programming Interfaces
- 3.5mm Headphone Jack (audio output)

520163

Mftrs. List No.	Description	Order Code	Price Each
MSP-EXP430FG4618	Experimenters Board	**163-7362▲**	71.94

Z-Accel Demonstration Kit



New

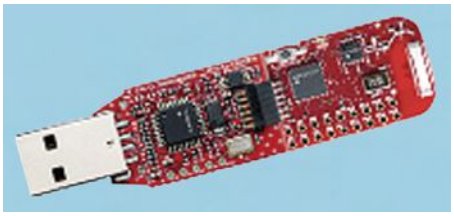
Kit Includes:
- 3x CC2480 Target Boards
- 1x eZ430 USB Emulator Board
- 2x AAA eZ430 Battery Boards (batteries included)

The eZ430-RF2480 Demo Kit is a complete USB-based MSP430 wireless demonstration tool providing all the hardware and software to evaluate the CC2480 2.4GHz ZigBee network processor and the MSP430F2274 microcontroller. It has everything needed to understand and fully evaluate the capabilities of CC2480 in a short amount of time with minimal effort.

514489

Mftrs. List No.	Description	Order Code	Price Each
EZ430-RF2480	Z-Accel Demonstration Kit	**157-3888▲**	75.70

MSP430 Wireless Development Tool - EZ430-RF2500



The eZ430-RF2500 is a complete wireless development tool for the MSP430 and CC2500 that includes all the hardware and software required to develop an entire wireless project with the MSP430 in a convenient USB stick. The tool includes a USB-powered emulator to program and debug your application in-system and two 2.4-GHz wireless target boards featuring the highly integrated MSP430F2274 ultra-low-power MCU. Projects may be developed and instantly deployed using the included battery expansion board and AAA batteries. All the required software is included such as a complete Integrated Development Environment and SimpliciTI, a propriety low-power star network stack, enabling robust wireless networks out of

RL Re-reeling available

Farnell

the box. The eZ430-RF2500 uses the MSP430F22x4 which combines 16-MIPS performance with a 200-ksps 10-bit ADC and 2 op-amps and is paired with the CC2500 multi-channel RF transceiver designed for low-power wireless applications.
The eZ430-RF emulator interface may be used with any Spy Bi-Wire enabled MSP430, such as the F22xx and F20xx series, and is fully compatible with the eZ430-F2013 and eZ430-T2012 target boards. The emulator interface can be used to download and debug your target applications, and can transmit serial data to your PC while in or out of a debug session.

Features
- eZ430-RF2500T, wireless target board
- eZ430-RF, debugging interface
- Supports development with all Spy Bi-Wire devices (MSP430F20xx and F22xx)
- Supports MSP430 Application UART allowing serial communication to PC
- Removable USB stick enclosure
- Battery expansion board with 2 AAA batteries
- SimpliciTI, low power network stack
- Example wireless sensor network project measuring temperature, voltage and signal strength
- Integrated development environment which includes an assembler, linker, simulator, source-level debugger and limited C-compiler
- Full documentation on CD-ROM

493420

		Order Code	Price Each
EZ430-RF2500	RF2500 Board for MSP430 Kit	138-2267▲	41.75

TPS62260LED-338 Evaluation Module



This evaluation module controls the colour and brightness of a lamp or runs an automatic colour light animation program. The colour is generated by three LEDs (red, green and blue). An MSP430 ultra-low power microcontroller controls the brightness of each LED with constant current generated by three TPS62260 buck converters, one for each LED. The module is pin compatible with the TPS62240 buck converter for lower current LED applications and the TPS62290 for higher current LED applications.

Features:
- 2 V to 6 V Supply Voltage Range
- Output Current up to 600 mA
- 2.25 MHz Fixed Frequency Operation
- Power Save Mode at Light Load Currents
- Typ. 15 µA Quiescent Current
- Soft Start
- Voltage Positioning at Light Loads

524586

Mftrs. List No.	Description	Order Code	Price Each
TPS62260LED-338	Light Control Eval Board	165-5482▲	15.43

Microcontrollers and Microprocessors - ARM-based ANALOG DEVICES

MicroConverter ADuC702X QuickStart™ Development System

The QuickStart Kits for the ADuC7000 Series (ARM7®-core) Precision Analog Microcontrollers feature debug via UART and an Assembly and C-Source debugging environment. The kits allow the user to rapidly evaluate MicroConverter performance and functionality before beginning development.

Hardware Contents:
- ADuC7020/24/28 Evaluation Board
- Serial Download Cable
- International Power Supply

Note: This kit does not include a JTAG emulator

Software Features:
- Keil DKRAM Evaluation version, featuring IDE, C Compiler, Simulator and Debugger (Debugger requires a JTAG emulator)
- IAR Embedded workbench (Evaluation Version, featuring IDE, C Compiler, ARM7TDMI core Simulator & Debugger (debugger is 32K code-size limited for evaluation version) and ROM monitor to debug directly via UART
- PLA Tool
- Example Code, Function Libraries, Datasheets, Application Notes, etc.

415920

Mftrs. List No.	Description	Order Code	Price Each
EVAL-ADUC7024QS-U3	ADUC7024 Quickstart Development System	101-1590	54.13
EVAL-ADUC7028QSZ	ADUC7028 Quickstart Development System	NEW 143-9131●	63.90

QuickStart™ PLUS Evaluation Kit for ADuC7xxx Series Microcontroller



The ADuC7xxx (ARM7®-core) QuickStart PLUS Kit features non-intrusive JTAG emulation, and an assembly and C-source debugging environment. The evaluation board also features a prototype development area.

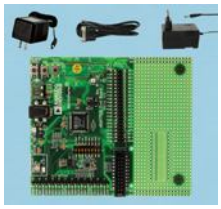
Hardware Contents:
- ADuC7xxxx Evaluation Board
- mIDAS-Link JTAG Emulator
- USB Cable and Serial Download Cable
- International Power Supply

Software Features:
- Keil DKRAM Evaluation version, featuring IDE, C Compiler, Simulator and Debugger
- IAR Embedded workbench (Evaluation Version, featuring IDE, C Compiler, ARM7TDMI core Simulator & Debugger (debugger is 32K code-size limited for evaluation version) and ROM monitor to debug directly via UART
- PLA Tool
- Example Code, Function Libraries, Datasheets, Application Notes, etc.

418771

Mftrs. List No.		Order Code	Price Each
EVAL-ADUC7026QSPZ	ADuC7026 Evaluation Kit	151-1391●	235.22
EVAL-ADUC7128QSPZ	ADuC7128 Evaluation Kit	NEW 143-9132●	220.82

ADuC7026 Evaluation Board



The EVAL-ADUC7026QSZ is a low cost QuickStart™t development system for ADuC7026 fully integrated microcontrollers. The development system includes fulll third-party support.

Features:
- 2-Layer PCB
- 9 V power supply
- 4-pin UART header
- 20-pin standard JTAG connector
- Demonstration circuit
- 32.768 kHz watch crystal
- ADR291 2.5 V external reference chip
- Reset/Download/IRQ0 push-buttons
- Power indicator/general-purpose LEDs
- Access to all ADC inputs and DAC output from external header
- Surface-mount and through hole general-purpose prototype area
- External memory and latch footprint

523306

Mftrs. List No.	Description	Order Code	Price Each
EVAL-ADUC7026QSZ	ADuC7026 QuickStart Development System . . .	164-9386●	57.67

ADuC7xxx - Precision Analog ARM7 Microcontrollers



The ADuC7xxx precision analog microcontroller family featuring ARM7-based programmability are designed for high-precision measurement and control, and data acquisition systems with basic digital programming needs. The ADuC7xxx solutions integrate an ARM7TDMI® core that features a flash-based 16-/32-bit RISC MCU with processing capability up to 45 MIPS peak performance. The devices support flexible power-down and wake-up modes and are specified for 3-V operation, working within industrial temperature ranges.

Features:
- 45 MHz 16/32-bit ARM7TDMI microcontroller core
- Multichannel 12-bit 1 MSPS ADC
- Multiple 12-bit 10 µs DACs (10-bit DAC on ADuC712x Series)
- Flash memory for program & data storage
- JTAG emulation
- SPI, I2C, UART
- 3-phase PWM
- 10 ppm voltage reference
- Programmable logic array
- Uncommitted analog comparator

429271

Mftrs. List No.	Pins/ Package	Flash (KByte)	SRAM (KByte)	12 Bit ADC Channels	12 Bit DAC Channels	Three-phase 16-bit PWM generator	I/O pins	Firmware Downloader	Order Code	Price Each 1+	10+	100+
ADUC7019BCPZ62I	LFCSP40/	62	8	5	3	—	14	I²C	SMD 116-2633●	10.76	8.30	7.04
ADUC7020BCPZ62	40/LFCSP	62	8	5	4	—	14	UART	SMD 116-2634●	11.54	8.90	7.55
ADUC7021BCPZ32	40/LFCSP	32	4	8	2	—	13	UART	SMD 127-4142●	5.25	5.12	4.98
ADUC7021BCPZ62	40/LFCSP	62	8	8	2	—	13	UART	SMD 116-2635●	9.29	7.16	6.07
ADUC7021BCPZ62I	40/LFCSP	62	8	8	2	—	13	I²C	SMD 116-2636●	9.29	7.16	6.07
ADUC7022BCPZ32	40/LFCSP	32	4	10	—	—	13	UART	SMD 116-2638●	5.52	4.34	3.69
ADUC7022BCPZ62	40/LFCSP	62	8	10	—	—	13	UART	SMD 116-2637●	7.80	5.99	5.08
ADUC7024BCPZ62	40/LFCSP	62	8	10	2	✓	30	UART	SMD 116-2641●	11.95	9.17	7.77
ADUC7024BSTZ62	40/LQFP	62	8	10	2	✓	30	UART	SMD 116-2642●	11.88	9.17	7.77
ADUC7025BSTZ62	40/LQFP	62	8	12	—	✓	30	UART	SMD 116-2645●	6.11	4.87	4.12

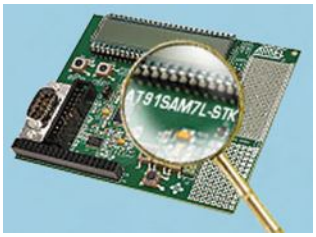
Microcontrollers and Microprocessors - ARM-based ANALOG DEVICES - continued

ADuC7xxx - Precision Analog ARM7 Microcontrollers - continued

Mftrs. List No.	Pins/ Package	Flash (KByte)	SRAM (KByte)	12 Bit ADC Channels	12 Bit DAC Channels	Three-phase 16-bit PWM generator	I/O pins	Firmware Downloader	Order Code	Price Each 1+	10+	100+
ADUC7026BSTZ62	40/LQFP	62	8	12	4	✓	40	UART	SMD116-2646●	13.53	10.75	9.15
ADUC7026BSTZ62I	40/LQFP	62	8	12	4	✓	40	I^2C	SMD116-2647●	13.53	10.75	9.55
ADUC7027BSTZ62	40/LQFP	62	8	16	—	✓	40	UART	SMD116-2648●	8.73	– –	– –
ADUC7028BBCZ62	64/CSPBGA	62	8	8	4	—	30	UART	SMD143-9046●	8.72	6.49	5.52
ADUC7030BCPZ-8V	48/LFCSP	32	4	—	—	—	9	UART	SMD143-9079●	10.67	8.24	6.99
ADUC7128BCPZ126	64/LFCSP	126	8	10	—	✓	28	UART	SMD135-1738●	9.61	7.57	6.46

Microcontrollers and Microprocessors - ARM-based ATMEL

AT91SAM7L-STK Starter Kit



New

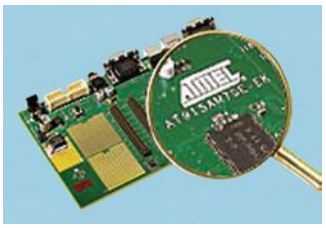
The AT91SAM7L-STK is a simple starter kit and development system for the ARM® Thumb® based AT91SAM7L series Flash Microcontroller. It is designed to give designers a quick start to evaluate the performance and functionality of the AT91SAM7L series microcontroller and to develop code on it for prototyping and testing of new designs.

Features:
- RS232 Interface to PC for SAM-BA® Programming and Debugging
- 20-pin ICE Interface to SAM-ICE™ for Programming and Debugging
- Battery Socket for 2 AAA Size Batteries 3.0V Power Supply
- ZigBee®Interface for Atmel AT86RF230 Adaptor
- Segment LCD (10 commons by 40 segments) for Display
- 5 Push Buttons for User's Input
- User's Grid and PIO Extension Interface for Prototyping

523993

Mftrs. List No.	Description	Order Code	Price Each
AT91SAM7L-STK	AT91SAM7L-STK Starter Kit	164-8588●	77.56

AT91SAM7SE-EK Evaluation Board



The AT91SAM7SE-EK evaluation board enables the evaluation of and code development for applications running on an AT91SAM7SE device.

Board Features:
- 32 Mbytes of SDRAM memory
- 256 Mbytes of NAND Flash memory
- 1x USB device port interface
- 1x DBGU serial communication port
- 1x Additional serial communication port with RTS/CTS handshake control
- 1x JTAG/ICE debug interface
- 1x Atmel AT73C213 Stereo Audio DAC
- 1x Power LED and 2x General-purpose LEDs
- 1x Joystick and 2x User input push-buttons
- 1x Reset push-button
- 3x expansion connectors (PIO A, PIO B, PIO C)
- 1x EBI expansion BGA-like footprint connector

Kit Contents:
- 1x AT91SAM7SE-EK board
- 1x Universal input AC/DC power supply
- 1x A/B-type USB cable
- 1x Serial RS232 cable
- 1x DVD-ROM containing summary and full datasheets and an AT91 software package

485960

Description	Mftrs. List No.	Order Code	Price Each
SAM7SE EVALUATION KIT	AT91SAM7SE-EK	145-5085●	178.20

AT91SAM7S-EK Evaluation Board



The AT91SAM7S-EK board enables the evaluation of and code development for applications running on an AT91SAM7Sxx device. The board is equipped with an AT91SAM7S256 (64-pin PQFP package) together with the following:
- USB device port interface
- Two serial communication ports
- JTAG/ICE debug interface
- Four buffered analog inputs
- Four general-purpose LEDs and pushbuttons
- Expansion connector
- Prototyping area

Kit Contents:
- AT91SAM7S-EK board
- A/B-type USB cable
- DVD-ROM containing summary and full datasheets and an AT91 software package with C and assembly listings

449076

Mftrs. List No.	Description	Order Code	Price Each
AT91SAM7S-EK	AT91SAM7S-EK Evaluation Board	109-5463	99.46

AT91SAM7A3-EK Evaluation Board



The AT91SAM7A3-EK evaluation kit enables evaluation capabilities and code development of applications running on an AT91SAM7A3.

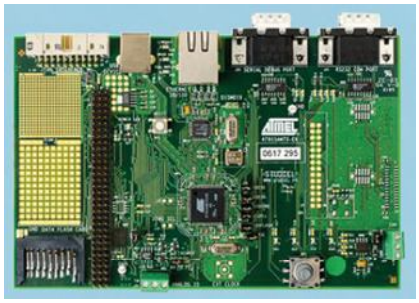
Board Features:
- Equipped with AT91SAM7A3 (100-pin LQFP)
- USB device port interface
- JTAG/ICE debug interface connector
- Expansion connector
- 1x DBGU serial communication port
- 2x Serial CAN communication ports
- 1x Serial LIN communication port
- 1x Buffered analog input and PWM output
- 1x Power LED and 4x general-purpose LEDs
- 1x SD/MMC/DataFlash® card slot
- 1x Atmel® Serial DataFlash
- 1x Footprint for 3.6V lithium thionyl-chloride backup battery

Kit Contents:
- 1x AT91SAM7A3-EK board
- 1x A/B-type USB cable
- 1x Serial RS232 cable
- 1x DVD-ROM containing summary and full datasheets and an AT91 software package

485953

Description	Mftrs. List No.	Order Code	Price Each
SAM7A3 EVALUATION KIT	AT91SAM7A3-EK	145-5080●	167.91

AT91SAM7X-EK Evaluation Board



The AT91SAM7X-EK evaluation kit is designed to facilitate the development of applications for the AT91SAM7X family of microcontrollers. The kit is shipped with a DVD-ROM containing an AT91 software package with C and assembly listings, to enable the user to begin evaluating the microcontroller quickly.

Board Features:
- AT91SAM7X256 MCU
- USB device port
- DBGU serial communication port
- RS232 serial communication port with RTS/CTS
- JTAG/ICE debug interface connector
- Serial CAN communication ports
- RMII Ethernet 100-base TX with auto MDIX capability
- Buffered analog input and PWM output
- Power LED and general-purpose LEDs
- DataFlash® card slot
- Atmel 32 Mbit serial DataFlash® (AT45DB321C-CNC)

Kit Contents:
- AT91SAM7X-EK development board
- A/B-type USB cable, crossed RS-232 cable and crossed RJ-45 Ethernet cable
- Universal Input AC/DC power supply
- Software DVD-ROM

450946

RL Re-reeling available

Mftrs. List No.	Order Code	Price Each
AT91SAM7X-EK	128-8329●	230.43

Mftrs. List No.	Description	Order Code	Price Each
AT91SAM-ICE	J-Link compatile AT91SAM-ICE In-Circuit Emulator	109-5464	89.10

AT91SAM-ICE JTAG Emulator



The SAM-ICE is a JTAG emulator designed for use with Atmel AT91 ARM cores. It connects via USB to a PC running Microsoft Windows 2000 or XP. SAM-ICE has a built-in 20-pin JTAG connector, which is compatible with the standard 20-pin connector defined by ARM.

Features of SAM-ICE:

- Supports any Atmel AT91 ARM7/ARM9 core
- Seamless integration into the IAR Workbench
- Powered through USB
- Maximum JTAG speed 8 MHz
- Wide target voltage range: 1.2V to 3.3V
- USB and 20-pin ribbon cable included
- Real-time memory viewer (J-Mem) included
- AM-ICE TCP/IP server included, can use SAM-ICE via TCP/IP networks

449062



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AT91SAM Smart ARM-based Microcontrollers



The AT91SAM (AT91SAM Smart ARM-based Microcontrollers) family are based on the ARM7TDMI 32-bit RISC microprocessor from ARM. They include embedded Flash and SRAM memories together with a number of peripherals and standard communications and networking interfaces. External interfaces include USB, CAN, Ethernet, SPI, USART and ADC. A DMA controller provides direct communication channels between external interfaces and memories, increasing data throughput with minimal processor intervention.
Features common to all devices:
Clock Speed = 48 or 55MHz, Power Supply = 3.0-3.6V, 8-Channel 10-bit ADC, 1 × TWI, 3 × 16-bit timers, 4 × PWM controllers, 1 × Period interval timer, 1 × Watchdog Timer, 1 × RTT, 1 × PLL, 1 × Power-On Reset, 1 × Brown Out Detection, 1 × On-Chip Oscillator, 4 × High Current Pads, In-System Programming.

448946

Mftrs. List No.	Pins/ Package	Flash (KByte)	SRAM (KByte)	PDC Channel	Ethernet MAC 10/100	Serial Comms	I/O pins	Order Code	Price Each 1+	10+	100+
AT91SAM7S32-AU-001	48/LQFP	32	8	9	—	2x UART, SPI, SSC	21	SMD 109-5461●	5.12	3.50	3.03
AT91SAM7S32B-AU-001	48/LQFP	32	8	9	—	I2C, TWI, SPI, USART	21	NEW SMD 165-5728●	5.86	3.66	3.36
AT91SAM7S321-AU	64/LQFP	32	8	11	—	USB, 2x UART, SPI, SSC	32	SMD 128-8323●	5.47	3.61	3.10
AT91SAM7SE32-AU	128/LQFP	32	8	11	—	USB, 2x USART, SPI, SSC	88	SMD 145-5082●	7.17	4.77	3.83
AT91SAM7S64-AU-001	64/LQFP	64	16	11	—	USB, 3x UART, SPI, SSC	32	SMD 109-5462●	6.80	4.49	3.87
AT91SAM7S128-AU-001	64/LQFP	128	32	11	—	USB, 3x UART, SPI, SSC	32	SMD 109-5459●	8.91	5.88	5.06
AT91SAM7X128-AU	100/LQFP	128	32	11	✓	CAN, USB, 3x UART, 2x SPI, SSC	60	SMD 128-8326●	9.77	6.45	5.55
AT91SAM7S256-AU-001	64/LQFP	256	64	11	—	USB, 3x UART, SPI, SSC	32	SMD 109-5460●	10.63	7.02	6.04
AT91SAM7A3-AU	100/LQFP	256	32	19	✓	CAN, USB, 3x USART, 2x SPI, SSC	62	SMD 145-5079●	13.22	8.31	7.51
AT91SAM7X256-AU	100/LQFP	256	64	11	✓	CAN, USB, 3x UART, 2x SPI, SSC	60	SMD 128-8327●	11.69	7.72	6.64
AT91SAM7SE256-AU	128/LQFP	256	32	11	—	USB, 2x USART, SPI, SSC	88	SMD 145-5081●	12.33	8.22	6.59
AT91SAM7S512-AU	64/LQFP	512	64	11	—	USB, 3x UART, SPI, SSC	32	SMD 128-8324●	16.40	11.16	9.37
AT91SAM7X512-AU	100/LQFP	512	128	11	✓	CAN, USB, 3x UART, 2x SPI, SSC	60	SMD 128-8328●	15.78	11.84	8.99
AT91SAM7SE512-AU	128/LQFP	512	32	11	—	USB, 2x USART, SPI, SSC	88	SMD 145-5083●	14.51	9.69	7.75

Flowcode V3 for ARM and E-Blocks Bundle



New

This solution is perfect for low cost entry into ARM development and is great for engineers who need to develop prototypes of electronic systems quickly using the super fast ARM 7 core from Atmel. The pack is fully compatible with the range of E-block accessories. Datasheets on each individual item are available separately.

Kit Includes:

- Flowcode 3 for ARM
- LED E-Block (8 leds)
- Switch E-block (8 switches)
- LCD E-block (2 line 16 character)
- E-blocks ARM board
- USB cable
- Power supply

516943

Mftrs. List No.	Description	Order Code	Price Each
EB677SI3	Flowcode V3 for ARM and E-Blocks Bundle	162-0648●	136.50

Flowcode 3 MCU Development Software

Professional versions



Flowcode 3 is one of the most advanced graphical programming languages for microcontrollers. The great advantage of Flowcode is that it allows those with little experience to create complex electronic and robotic systems. It is a powerful language that uses macros to facilitate the control of complex devices like 7-segment displays, motor controllers, and LCD displays. The use of macros allows students to control highly complex electronic devices without getting bogged down in understanding the programming involved. Flowcode is used in education as a means of introducing students to the concepts of programming.

516681

Mftrs. List No.	Description	Order Code	Price Each
TEVRSI3	Flowcode V3 for AVR	NEW 162-0639●	79.20
TERMSI3	Flowcode V3 for ARM	NEW 162-0640●	79.20
TEFLCSI3	Flowcode V3 for PIC	138-1391●	101.78
TEULSI3	Flowcode V3 Ultimate	NEW 162-0641●	149.25

C for ARM E-blocks bundle EB869SI



This new bundle is designed for those who want to learn how to program embedded ARM microcontrollers in C. The CD ROM contains a full course as well as all the software tools needed to create hex code for the Atmel ARM SAM 7 device - including a full C compiler and an Integrated Development Environment (IDE). The CD ROM makes extensive use of a virtual C microcontroller which uses code simulation to explain how C works: users can step through programs to see the effects of each line of code on the microcontroller. This product is designed to work seamlessly with our E-blocks USB ARM Programmer board which is included in the pack along with and E-block LED, LCD and switch board. Also included is a power supply, and USB lead.

475579

	Mftrs. List No.	Order Code	Price Each
KIT, E-BLOCKS BUNDLE, C FOR ARM	EB869SI	138-2359●	160.00

£ € 40,000 PRICES REDUCED

Microcontrollers and Microprocessors - ARM-based ATMEL - continued

E-blocks ARM Programmer EB185

matrix multimedia



This E-blocks board is a development tool for the powerful AT91 SAM 7 microcontroller from Atmel. The SAM 7 is a 32 bit RISC device running at an internal frequency of 80MHz, and having 128k ROM and 32K static RAM as well as 2 USARTs, 4x 10 bit A/D converters and a native USB bus. This incredibly powerful microcontroller can be used for a range of advanced E-blocks projects. The board has 5 E-blocks ports and the processor itself is housed on a removable daughter board (Atmel ARM processors are only available in SMD technology) so that the ARM can be incorporated into custom PCBs. A full course (C for ARM Microcontrollers) is also available which contains a full course and C compiler. Free bootloader software is available. USB cable included.

- 32 bit RISC processor with 128K ROM and 32K SRAM
- USB programmable with boot loader
- 5 x E-blocks ports, 32 I/O lines
- Compatible with most downstream boards
- Native USB and SPI buses

475508

	Mftrs. List No.	Order Code	Price Each
E-BLOCKS ARM PROGRAMMER	EB185	138-2382●	75.00

ARM CDROM & course ELRM

matrix multimedia



This new CD ROM is designed for those who want to learn how to program embedded ARM microcontrollers in C. The CD contains a full course as well as all the software tools needed to create hex code for a the Atmel ARM SAM 7 device - including a full C compiler and an Integrated Development Environment (IDE). The CD ROM makes extensive use of a virtual C microcontroller which uses code simulation to explain how C works: students can step through programs to see the effects of each line of code on the microcontroller. This product is designed to work seamlessly with our E-blocks ARM Programmer board, but will also operate with third party programmers. Written by David and Rob Miles of Durham and Hull Universities.

- A full course in C programming
- Includes C compiler and IDE
- Includes virtual ARM microcontroller simulations
- Links to E-blocks ARM multiprogrammer

475519

	Mftrs. List No.	Order Code	Price Each
CD-ROM, C FOR ARM MCU	ELRMSI	138-2363	85.00

AT91SAM9RL-EK Evaluation Kit



New

The AT91SAM9RL-EK evaluation kit enables the evaluation of and code development for applicationsrunning on an AT91SAM9RL device. It significantly reduces design cycle time, increasing confidence in a right-first-time system solution.

Features:

- 64Mb DRAM & 256Mb NAND Flash memory
- Atmel serial DataFlash®
- Atmel TWI serial EEPROM (footprint)
- USB High Speed device port interface
- DBGU serial communication port
- Additional serial communication port with RTS/CTS handshake control
- JTAG/ICE debug interface
- AC97 Audio Codec
- 3.5" 1/4 VGA TFT LCD Module with Touch-Screen and backlight
- Power LED and two general-purpose LED
- Two user, Wakeup & Reset push buttons
- MCI SD/MMC card slot
- four expansion connectors
- BGA-like EBI expansion footprint connector
- Lithium Coin Cell Battery Retainer

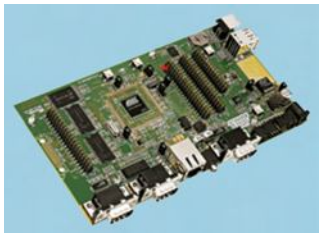
523994

Mftrs. List No.	Description	Order Code	Price Each
AT91SAM9RL-EK	AT91SAM9RL-EK Evaluation Board	164-8589●	574.35

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AT91SAM9XE-EK Evaluation Kit



New

The AT91SAM9XE-EK evaluation kit enables the evaluation of and code development for applications running on an AT91SAM9XE device.The board supports the AT91SAM9XE in an LFBGA217 package as well as in a PQFP208 package.

Board Features:

- 64Mb SDRAM & 256Mb NANDFlash Memory
- Atmel serial DataFlash®
- Atmel TWI serial EEPROM
- USB device port interface
- Two USB Host port interfaces
- DBGU serial communication port
- Complete MODEM serial communication port
- Additional serial communication port with RTS/CTS handshake control
- JTAG/ICE debug interface
- PHY Ethernet 100-base TX with three status LEDs
- Atmel AT73C213 Audio DAC
- Power & general-purpose LEDs
- user, Wakeup & reset push buttons
- DataFlash, SD/MMC card slot
- four expansion connectors
- BGA-like EBI expansion footprint connector
- Lithium Coin Cell Battery Retainer

523995

Mftrs. List No.	Description	Order Code	Price Each
AT91SAM9XE-EK	AT91SAM9XE-EK Evaluation Board	164-8590●	574.35

AT91RM9200-EK Evaluation Board



New

The AT91RM9200-EK Evaluation Board enables real-time code development and evaluation. It supports the AT91RM9200 ARM9™ based 32-bit RISC microcontroller.

Board Features:

- 8 Mbytes of parallel Flash memory
- Four banks of 2M x 32-bit SDRAM
- DataFlash® or SD/MMC memory expansion socket
- Additional DataFlash memory expansion socket
- Digital-to-Analog Converter (DAC) for a stereo audio signal
- Four communication ports (USB host and device, Ethernet, serial and DBGU)
- Graphic controller with output to a standard VGA monitor
- JTAG/ICE, ETM and code test port interface
- Expansion connector
- Onboard prototype area

518914

Mftrs. List No.	Description	Order Code	Price Each
AT91RM9200-EK	AT91RM9200-EK Evaluation Board	162-9536●	1,299.83

AT91SAM9260-EK Evaluation Kit



New

The AT91SAM7SE-EK evaluation board enables the evaluation of and code development for applications running on an AT91SAM7SE device.

Board Features:

- 64 Mbytes of SDRAM memory
- 256 Mbytes of NANDFlash memory
- One Atmel serial DataFlash®
- One Atmel TWI serial EEPROM
- One USB device port interface
- Two USB Host port interfaces
- One DBGU serial communication port
- One complete MODEM serial comm. port

Kit Contents:

- AT91SAM9260 Microcontroller
- One AT91SAM9260-EK board
- Universal input AC/DC power supply with US and Europe plug adapter
- One A/B-type USB cable
- One serial RS232 cable
- One RJ45 crossed Ethernet cable
- Evaluation CD-ROM

518915

Description	Mftrs. List No.	Order Code	Price Each
AT91SAM9260-EK Evaluation Kit	AT91SAM9260-EK	162-9537●	584.93

£ € 40,000 PRICES REDUCED

AT91SAM9261-EK Evaluation Kit



The AT91SAM9261-EK Evaluation Kit supports the AT91SAM9261 ARM926EJ-S-based 32-bit RISC microcontroller and enables real-time code development and evaluation.

Board Features:
- 64 Mbytes of SDRAM memory
- 256 Mbytes of NAND Flash memory
- One Atmel® serial DataFlash®
- One USB device port interface
- Two USB host port interfaces
- One DBGU serial communication port
- JTAG/ICE debug interface

Kit Contents:
- AT91SAM9261 microcontroller
- One AT91SAM9261-EK board
- One A/B-type USB cable
- One serial RS232 cable
- One RJ45 crossed Ethernet cable
- Universal input AC/DC power supply with US and EU plug adapter
- One DVD-ROM containing summary and full datasheets and an AT91SAM9261-EK software package

518916

Description	Mftrs. List No.	Order Code	Price Each
AT91SAM9261-EK Evaluation Kit	AT91SAM9261-EK	162-9538●	1,013.84

AT91SAM9263-EK Evaluation Kit



The AT91SAM9263-EK evaluation kit enables the evaluation of and code development for applications running on an AT91SAM9263.

Board Features:
- 64 MB of SDRAM memory
- 4 MB of PSRAM memory on EBI1
- 256 MB of NANDFlash memory
- One NOR Flash memory (footprint only)
- One TWI serial memory
- One USB device port interface
- Two USB Host port interfaces
- One RS232 serial communication port
- One DBGU serial communication port
- One serial CAN 2.0B communication port
- One JTAG/ICE debug interface
- One ISI connector (camera interface)
- One DataFlash®/SD/SDIO/MMC card slot

Kit Contents:
- AT91SAM9263 microcontroller
- One AT91SAM9263-EK board
- One A/B-type USB cable
- One serial RS232 cable
- One RJ45 crossed Ethernet cable
- Evaluation CD-ROM

518917

Description	Mftrs. List No.	Order Code	Price Each
AT91SAM9263-EK Evaluation Kit	AT91SAM9263-EK	162-9539●	1,099.33

Microcontrollers and Microprocessors - ARM-based CIRRUS LOGIC

Cirrus ARM 9 Processors

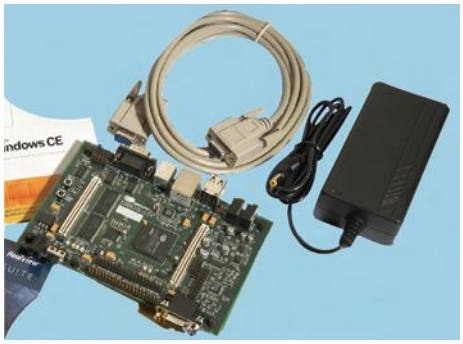
A wide variety of embedded processor technologies for consumer and industrial markets. These embedded processors include 24- and 32-bit audio digital signal processors (DSPs) targeted at consumer audio applications, ARM7- and ARM9-based embedded processors focused on industrial applications and CobraNet™ enabled controller and audio system processor ICs for commercial and professional audio markets.

Features include:
- Cost reduction through integration
- Superior user interface capabilities, including 2D graphics accelerator, LCD interface, touch screen and great audio performance.

418951

	Pins	Pkg	Features	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
9301	208	LQFP	Entry-Level ARM9 System On-Chip Processor	EP9301-CQZ	SMD 102-2692●	9.36	7.73	7.53
9302	208	LQFP	High-Speed ARM9 System On-Chip Processor	EP9302-CQZ	SMD 102-2693●	10.30	8.44	8.22
9307	272	TFBGA	ARM9 System On-Chip Processor With Ethernet, USB, Display & Touchscreen	EP9307-CRZ	SMD 102-2694●	12.53	9.96	8.95
9312	352	PBGA	Universal Platform System On-Chip Processor	EP9312-CBZ	SMD 102-2695●	15.69	12.47	11.08
9315	352	PBGA	Enhanced Universal Platform System On-Chip Processor	EP9315-CBZ	SMD 102-2341●	17.37	13.82	12.27
Evaluation Boards								
Development System for EP9302 & EP9301				EDB9302A-Z	122-1961●	207.17	– –	– –
Development System for EP9307				EDB9307A-Z	122-1962●	207.17	– –	– –
Development System for EP9312 & EP9315				EDB9315A-Z	122-1963●	207.17	– –	– –

Embedded Processor Development System for EP9315



The EDB9315A provides design engineers with a complete kit including all the hardware, software and drivers necessary to evaluate the capabilities of the EP9315 ARM9-based embedded processor from Cirrus Logic.

This development system is ideal for high-performance applications that require a powerful user-interface and cost-reduction through a high level of chip integration.

Key features include:
- A complete Linux® Operating system with drives
- BSP for Microsoft® Windows® Win CE 5.0 Operating Systems with drivers included
- Power supply, cables and documentation
- Expansion connectors

430098

Mftrs. List No	Order Code	Price Each 1+
EDB9315A-Z	122-1963●	207.17

Microcontrollers and Microprocessors - ARM-based FREESCALE

M9328MX Development Tools



i.MX Lite Kit

The **i.MX LITEKIT** is a low-cost, high-performance application development kit for evaluating the functionality of the Freescale i.MX processor and System on Module (SOM). Application development is performed right on the product-ready i.MX SOM-LV and software Board Support Packages (BSPs) included in the kit, which enables you to seamlessly transfer your application code and hardware into production.

The **M9328MX21ADS** development tool is designed to run software applications designed for i.MX21 (MC9328MX21) microcontroller unit (MPU).It includes a base board, a CPU board, an LCD display panel, a keypad, a NAND Flash card, an image sensor, a TV encoder card, CF Add-on card, etc. It supports application software, target-board debugging, or optional extra memory.

526302

Mftrs. List No.	Description	Order Code	Price Each
M9328MXLLITEKIT	i.MX_LITEKIT	167-1696▲	364.92
M9328MX21ADSE	Application Development System	157-9768●	1,214.72

RL Re-reeling available

Microcontrollers and Microprocessors - ARM-based FREESCALE - continued

i.MX27 Development Tools



i.MX27 LIte Kit

The **i.MX27 Lite Kit** enables rapid design of embedded products targeting the medical, industrial, wireless, consumer markets and general purpose markets. Leverage the power of the i.MX27 multimedia processor in this cost-effective development solution. This kit has been developed between Logic Product Development and Freescale.

The **i.MX27 Application Development System** (MCIMX27ADSE) is a development tool which is designed to run software applications designed for the i.MX27 processor.

526301

Mftrs. List No.	Description	Order Code	Price Each
MCIMX27LITEKIT	i.MX27 Lite Kit	167-1695●	493.61
MCIMX27ADSE	Application Development System	157-9876●	2,792.80

Zoom i.MX31 LITEKIT Development Kit



The i.MX31 Lite Kit provides a product-ready software and hardware platform for evaluating the functionality of the Freescale™ i.MX processor and System on Module. It enables rapid design of embedded products targeting the medical, industrial, wireless, consumer markets and general purpose markets.

Kit Includes:

- Application baseboard
- SOM-LV
- Expansion breakout board
- CD-ROM
- Null-modem serial cable
- Ethernet crossover cable
- USB A to mini-B cable
- 5 volt power supply with power adapters
- End-User License Agreement
- Warranty card
- QuickStart Guide
- Freescale TIC card

508891

Mftrs. List No	Description	Order Code	Price Each
MCIMX31LITEKITC	Zoom i.MX31 LITEKIT Development Kit	157-9879●	472.46

i.MX31 Application Development System



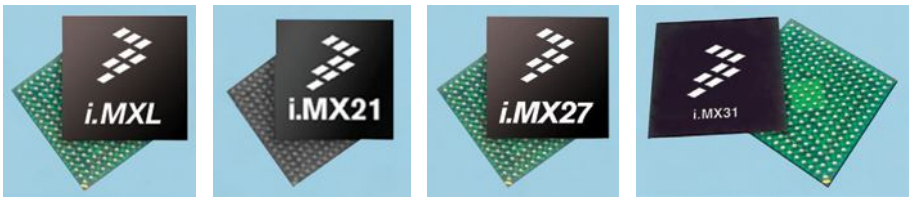
This is a development tool which is designed to run software applications designed for i.MX31 (MCIMX31) microprocessor unit (MPU).

The MCIMX31ADS includes a baseboard, a CPU board, a power management board, an LCD display panel, a keypad, a NAND Flash card, an image sensor, etc. It supports application software, target-board debugging, or optional extra memory.

527754

Mftrs. List No	Description	Order Code	Price Each
MCIMX31ADSE/C	i.MX31 Application Development System	157-9877●	2,841.88

i.MX Multimedia Applications Processors



Freescale's i.MX family of applications processors is designed for use in smartphones, portable media players, portable navigation devices, video surveillance, point-of-sale systems, bar code scanners, and many other consumer, industrial, health care and general-purpose embedded applications.

508939

Mftrs. List No.	Pkg / Pins	Core Speed Max.	Operating Temp.	Order Code	Price Each 1+	10+	100+
MC9328MXLCVM15	PBGA/256	150MHz	-40 to 85°C	SMD157-9828●	11.33	8.72	7.54
MC9328MXLCVP15	PBGA/225	150MHz	-40 to 85°C	SMD157-9829●	10.69	8.22	7.12
MC9328MXLVM20	PBGA/256	200MHz	0 to 70°C	SMD157-9832●	11.83	9.10	7.87
MC9328MXLVP15	PBGA/225	150MHz	0 to 70°C	SMD157-9830●	9.28	7.14	6.18
MC9328MXLVP20	PBGA/225	200MHz	0°C to +70°C	SMD167-1694●	7.39	– –	– –
MC9328MXSVP10	PBGA/225	100MHz	0 to 70°C	SMD157-9831●	8.28	6.37	5.52
MC9328MX21CVK	PBGA/289	266MHz	-40 to 85°C	SMD157-9826●	17.96	13.82	11.96
MC9328MX21CVM	PBGA/289	266MHz	-40 to 85°C	SMD157-9822●	15.70	12.06	9.94
MC9328MX21DVK	MAPBGA/289	266MHz	-30 to 70°C	SMD157-9823●	15.63	12.03	9.89
MC9328MX21VM	PBGA/289	266MHz	0 to 70°C	SMD157-9825●	13.65	10.50	8.64
MC9328MX21VK	PBGA/289	266MHz	0 to 70°C	SMD157-9827●	15.63	12.03	9.89
MCIMX27VOP4A	TMAP/404	400MHz	-20°C to +85°C	SMD167-1692●	10.88	– –	– –
MCIMX31CVKN5C	MAPBGA/ 473	400MHz	-40 to 85°C	SMD157-9878●	27.93	21.48	17.69
MCIMX31LVKN5C	MAPBGA/457	532MHz	0°C to +70°C	SMD167-1693●	13.69	– –	– –
MCIMX31VKN5B	MAPBGA/457	532MHz	0 to 70°C	SMD157-9881●	24.28	18.67	16.17
MCIMX31VKN5C	MAPBGA/457	532MHz	0 to 70°C	SMD157-9882●	24.28	18.67	15.37

Microcontrollers and Microprocessors - ARM-based LUMINARY MICRO

Stellaris® LM3S1968 Evaluation Kits



These evaluation kits enables quick evaluation, prototype development, and creation of application-specific designs using the LM3S1968's broad range of peripherals. The kits also includes extensive source code examples, allowing the user to start building C code applications quickly.A 3 V lithium battery, included in the LM3S1968 Evaluation Kits, supplies power to the Hibernation module and maintains data and real-time clock information for about two years in the absence of USB power.

- The kits are available in 3 versions:
- LM3S1968 Ethernet Evaluation Kit for Keil™ RealView® MDK-ARM (16 KB code-size limited)
- LM3S1968 Ethernet Evaluation Kit for IAR Systems Embedded Workbench® (32 KB code-size limited)
- LM3S1968 Ethernet Evaluation Kit for CodeSourcery G++ GNU (30-day limited)

The kits feature:

- LM3S1968 Evaluation Board
- Stellaris LM3S1968 MCU with 256K flash, 64K SRAM, 8 ADCs, and up to 52 GPIOs
- Support for battery-backed hibernate mode
- OLED graphics display with 128 x 96 pixel resolution
- User LED, navigation switches, and select pushbuttons
- Magnetic speaker
- LM3S1968 I/O available on labeled break-out pads
- Standard ARM® 20-pin JTAG debug connector with input and output modes
- USB and JTAG cables
- CD containing evaluation software tools, documentation, quickstart guide, Stellaris Peripheral Driver Library, and example source code.

502050

Mftrs. List No.	Description	Order Code	Price Each
EKC-LM3S1968	Evaluation Kit for CodeSourcery's G++	155-1845●	34.87
EKI-LM3S1968	Evaluation Kit for IAR Embedded Workbench	155-1846●	34.87
EKK-LM3S1968	Evaluation Kit for Keil™ RealView®	155-1847●	34.87

Stellaris® LM3S8962 Evaluation Board



New

This Evaluation Kit provides a compact and versatile evaluation platform for Ethernet + CAN enabled Stellaris ARM® Cortex™-M3-based microcontrollers. Each board has an In-Circuit Debug Interface that provides hardware debugging functionality for the on-board Stellaris devices, and any Stellaris microcontroller-based target board.

Kit features:
- LM3S8962 Evaluation Board
- Stellaris LM3S8962 MCU with fully-integrated 10/100 embedded Ethernet controller
- OLED graphics display with 128 x 96 pixel resolution
- User LED, navigation switches, and select pushbuttons
- Magnetic speaker
- LM3S8962 I/O available on labeled break-out pads
- Standard ARM® 20-pin JTAG debug connector with input and output modes
- Standalone CAN device board using Stellaris LM3S2110 microcontroller
- Ethernet cable
- CAN ribbon cable
- USB and JTAG cables
- CD ROM

502049

Mftrs. List No.	Description	Order Code	Price Each
EKK-LM3S8962	Ethernet + CAN Evaluation Kit	**155-1844**	52.53

Stellaris® Ethernet-Enabled Intelligent Display Reference Design Kit



New

The Stellaris® Intelligent Display Reference Design Kit offers a complete, open-tool graphical touch-screen user interface design solution for control, automation, and instrumentation applications. It offers a simple method to produce intelligent terminals that can be simultaneously powered and network-connected by a single CAT5 Ethernet cable.

Kit Contents:
- Stellaris Intelligent LCD Module
- 24V power supply with international plug adaptors
- Retractable Ethernet cable
- Debug adapter
- Guide, Manuals,Data Sheet, source code, BOM, schematics & Gerber files on CD

506107

Mftrs. List No.	Description	Order Code	Price Each
RDK-IDM	Intelligent Display Module RDK	**156-6975**	128.39

Stellaris® Serial-to-Ethernet Reference Design Kit



New

The RDK-S2E offers a complete, open-tool, and ready-to-implement solution designed to add web connectivity to any serial device. This kit includes the Serial-to-Ethernet Module (MDL-S2E). The most common application for the MDL-S2E is for augmenting legacy products that only contain a serial port for a configuration or control interface. By simply installing the module, it provides many benefits including no major board redesign or software changes, easy sharing on a network other than Ethernet and a tiny form-factor for unobtrusive implementation. A 10-metre maximum cable length for serial connections is no longer a limitation.

MDL-S2E Features:
- LM3S6432 in a 10 x 10 mm BGA package for reduced board size
- 10/100 Mbit Ethernet port
- Auto MDI/MDIX cross-over correction
- Traffic and link indicators Serial ports
- UART ports include RTS/CTS for flow control
- UART0 has RS232 levels, transceiver runs at up to 230.4 Kbaud
- UART1 has CMOS/TTL levels, can run at 1.0 Mbaud

518254

Mftrs. List No.	Description	Order Code	Price Each
RDK-S2E	Stellaris Serial-to-Ethernet RDK	**162-7315**	82.80

Stellaris® Evaluation Kit including Ethernet or CAN with CodeSourcery



EKC-LM3S2965



EKC-LM3S6965

The Stellaris® LM3S2965 CAN Evaluation Kit is a compact and versatile evaluation platform for the Stellaris LM3S2965 ARM® Cortex™-M3-based microcontroller. The evaluation kit demonstrates a complete controller area network (CAN) using two Stellaris microcontrollers. The main evaluation board (EVB) configures a Stellaris LM3S2965 microcontroller as a CAN host. A small CAN device board, linked with a ribbon cable, uses a Stellaris LM3S2110 microcontroller. The function of each board is fully configurable in software. Kit Contents are LM3S2965 evaluation board (EVB), LM3S2110 CAN device board, USB cable, 20-pin JTAG/SWD target cable & 10-pin CAN cable

The Stellaris® LM3S6965 Ethernet Evaluation Kits are a compact and versatile evaluation platform for the Stellaris LM3S6965 ARM® Cortex™-M3-based microcontroller. The evaluation kit uses the LM3S6965 microcontroller's fully integrated 10/100 Ethernet controller to demonstrate an embedded web server. Kit Contents are LM3S6965 evaluation board (EVB), retracting ethernet cable, USB cable, and 20-pin JTAG/SWD cable.

CD contents for both kits :
- Complete documentation
- Evaluation version of the software tools
- Quickstart guide and source code
- Stellaris Peripheral Driver Library and example source code
- An evaluation version of one of the following:
- Keil™ RealView® Microcontroller
- Development Kit (MDK-ARM)
- IAR Embedded Workbench
- Code Sourcery GCC development tools

496648

Mftrs. List No.	Description	Order Code	Price Each
EKC-LM3S2965	CAN Evaluation Kit	**149-4125**	50.18
EKC-LM3S6965	Ethernet Evaluation Kit	**149-4126**	43.81

Stellaris® Evaluation Kit including Ethernet or CAN with CodeSourcery



EKK-LM3S2965



EKK-LM3S6965



EKK-LM3S811

The Stellaris® LM3S2965 CAN Evaluation Kit is a compact and versatile evaluation platform for the Stellaris LM3S2965 ARM® Cortex™-M3-based microcontroller. The evaluation kit demonstrates a complete controller area network (CAN) using two Stellaris microcontrollers. The main evaluation board (EVB) configures a Stellaris LM3S2965 microcontroller as a CAN host. A small CAN device board, linked with a ribbon cable, uses a Stellaris LM3S2110 microcontroller. The function of each board is fullyconfigurable in software. Kit Contents are LM3S2965 evaluation board (EVB), LM3S2110 CAN device board, USB cable, 20-pin JTAG/SWD target cable & 10-pin CAN cable.
The Stellaris® LM3S6965 Ethernet Evaluation Kit is a compact and versatile evaluation platform for the Stellaris LM3S6965 ARM® Cortex™-M3-based microcontroller. The evaluation kit uses the LM3S6965 microcontroller's fully integrated 10/100 Ethernet controller to demonstrate an embedded web server. Kit Contents areLM3S6965 evaluation board (EVB), Ethernet cable, USB cable & 20-pin JTAG/SWD cable.

CD contents for the above kits are:
- Complete documentation
- Evaluation version of the software tools
- Quickstart guide and source code
- Stellaris Peripheral Driver Library and example source code

An evaluation version of one of the following:
- Keil™ RealView Microcontroller
- Development Kit (MDK-ARM)
- IAR Embedded Workbench
- Code Sourcery GCC development tools

The Stellaris® LM3S811 Evaluation Board is both a compact and versatile evaluation platform for the Stellaris LM3S811 ARM® Cortex™-M3-based microcontroller, and an In-Circuit Debug Interface (ICDI) for any Stellaris microcontroller-based target board. The EVB allows users to evaluate, prototype, and create application-specific designs. Kit Contents are LM3S811 Evaluation Board (EVB), USB cable & 20-pin JTAG/SWD target cable.

CD containing:
- Keil™ RealView® Microcontroller Development Kit RVMDK (16 KB limited)
- Complete documentation
- Quickstart guide
- Quickstart source code
- DriverLib and example source code

RL Re-reeling available

Farnell

Microcontrollers and Microprocessors - ARM-based LUMINARY MICRO - continued

Stellaris® Evaluation Kit including Ethernet or CAN with CodeSourcery - continued

496649

Mftrs. List No.	Description	Order Code	Price Each
EKK-LM3S2965	CAN Evaluation Kit for Keil LM3S2965	149-4127●	50.18
EKK-LM3S6965	Ethernet Evaluation Kit for Keil LM3S6965	149-4128●	75.96
EKK-LM3S811	Evaluation Kit for Keil LM3S811	149-4129●	31.09

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ARM Microcontroller - Series LM3S

LUMINARY MICRO

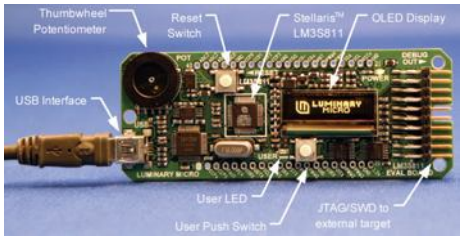
The ARM Cortex-M3 processor provides the core for a high-performance, low-cost platform that meets the needs of minimal memory implementation, reduced pin count, and low power consumption, while delivering outstanding computational performance and exceptional system response to interrupts.

450843

	Pins/ Package	Description	I/O Pins	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
3	100/LQFP	Stellaris® LM3S8733 Microcontroller	35	LM3S8733-IQC50	NEW SMD-156-4403●	12.10	10.10	9.32
3	100/LQFP	Stellaris® LM3S8962 Microcontroller	42	LM3S8962-IQC50	NEW SMD-156-4404●	10.45	8.71	8.05
3	100/LQFP	Stellaris® LM3S6537 Microcontroller	41	LM3S6537-IQC50	NEW SMD-156-4405●	9.01	7.51	6.94
3	100/LQFP	Stellaris® LM3S6753 microcontroller	41	LM3S6753-IQC50	NEW SMD-156-4406●	9.90	8.26	7.62
3	100/LQFP	Stellaris® LM3S6950 microcontroller	46	LM3S6950-IQC50	NEW SMD-156-4408●	10.12	8.44	7.79
3	100/LQFP	Stellaris® LM3S8530 Microcontroller	35	LM3S8530-IQC50	NEW SMD-156-4409●	8.20	6.84	6.32
3	100/LQFP	Stellaris® LM3S8538 Microcontroller	36	LM3S8538-IQC50	NEW SMD-156-4410●	8.29	6.91	6.38
3	100/LQFP	Stellaris® LM3S8630 Microcontroller	31	LM3S8630-IQC50	NEW SMD-156-4411●	6.73	5.62	5.18
3	100/LQFP	Stellaris® LM3S8730 microcontroller	32	LM3S8730-IQC50	NEW SMD-156-4412●	8.78	7.32	6.76
3	100/LQFP	Stellaris® LM3S8738 microcontroller	38	LM3S8738-IQC50	NEW SMD-156-4413●	7.41	6.18	5.70
3	100/LQFP	Stellaris® LM3S8930 microcontroller	34	LM3S8930-IQC50	NEW SMD-156-4414●	8.10	6.76	6.24
3	100/LQFP	Stellaris® LM3S8933 microcontroller	36	LM3S8933-IQC50	NEW SMD-156-4415●	9.40	7.84	7.24
3	100/LQFP	Stellaris® LM3S8938 microcontroller	38	LM3S8938-IQC50	NEW SMD-156-4416●	9.54	7.96	7.35
3	100/LQFP	Stellaris® LM3S8970 microcontroller	46	LM3S8970-IQC50	NEW SMD-156-4417●	10.30	8.60	7.93
617	48/LQFP	32 Bit, Flash 32Kb ARM CORTEX-M3	30	LM3S617-IQN50	SMD-149-4143●	3.06	2.56	2.36
618	48/LQFP	32 Bit, Flash 32Kb ARM CORTEX-M3	30	LM3S618-IQN50	SMD-149-4145●	3.12	2.60	2.40
817	48/LQFP	32 Bit, Flash 8Kb ARM CORTEX-M3	30	LM3S817-IQN50	SMD-149-4152●	3.60	3.00	2.77
818	48/LQFP	32 Bit, Flash 8Kb ARM CORTEX-M3	30	LM3S818-IQN50	SMD-149-4153●	3.67	3.06	2.82
2110	100/LQFP	32 Bit, Flash 64Kb ARM CORTEX-M3	40	LM3S2110-IQC25	SMD-149-4131●	4.32	3.60	3.32
2139	100/LQFP	32 Bit, Flash 64Kb ARM CORTEX-M3	56	LM3S2139-IQC25	SMD-149-4133●	4.32	3.60	3.32
2410	100/LQFP	32 Bit, Flash 96Kb ARM CORTEX-M3	60	LM3S2410-IQC25	SMD-149-4134●	5.11	4.26	3.93
2412	100/LQFP	32 Bit, Flash 96Kb ARM CORTEX-M3	49	LM3S2412-IQC25	SMD-149-4135●	5.22	4.36	4.02
2432	100/LQFP	32 Bit, Flash 96Kb ARM CORTEX-M3	34	LM3S2432-IQC50	SMD-149-4136●	5.11	4.26	3.93
2533	100/LQFP	32 Bit, Flash 96Kb ARM CORTEX-M3	48	LM3S2533-IQC50	SMD-149-4137●	5.70	4.75	4.38
2620	100/LQFP	32 Bit, Flash 128Kb ARM CORTEX-M3	52	LM3S2620-IQC25	SMD-149-4138●	6.06	5.05	4.66
2637	100/LQFP	32 Bit, Flash 128Kb ARM CORTEX-M3	46	LM3S2637-IQC50	SMD-149-4139●	5.11	4.26	3.93
2651	100/LQFP	32 Bit, Flash 128Kb ARM CORTEX-M3	53	LM3S2651-IQC50	SMD-149-4140●	5.35	4.46	4.12
2950	100/LQFP	32 Bit, Flash 256Kb ARM CORTEX-M3	60	LM3S2950-IQC50	SMD-149-4141●	7.06	5.90	5.44
6110	100/LQFP	32 Bit, Flash 64Kb ARM CORTEX-M3	30	LM3S6110-IQC25	NEW SMD-149-4142●	6.24	5.21	4.81
6420	100/LQFP	32 Bit, Flash 96Kb ARM CORTEX-M3	46	LM3S6420-IQC25	NEW SMD-149-4146●	6.18	5.16	4.76
6422	100/LQFP	32 Bit, Flash 96Kb ARM CORTEX-M3	34	LM3S6422-IQC25	NEW SMD-149-4147●	6.42	5.35	4.94
6432	100/LQFP	32 Bit, Flash 96Kb ARM CORTEX-M3	43	LM3S6432-IQC50	NEW SMD-149-4148●	6.90	5.76	5.31
6610	100/LQFP	32 Bit, Flash 128Kb ARM CORTEX-M3	46	LM3S6610-IQC25	NEW SMD-149-4149●	7.27	6.06	5.59
6952	100/LQFP	32 Bit, Flash 256Kb ARM CORTEX-M3	43	LM3S6952-IQC50	NEW SMD-149-4150●	12.59	10.50	9.70
6965	100/LQFP	32 Bit, Flash 256Kb ARM CORTEX-M3	42	LM3S6965-IQC50	NEW SMD-149-4151●	8.65	7.22	6.66

Stellaris™ LM3S811 Evaluation Board

KEIL SOFTWARE UK



The Stellaris LM3S811 Evaluation Board is both a compact and versatile evaluation platform for the Stellaris LM3S811 ARM® Cortex-™M3-based microcontroller, and an In-Circuit Debug Interface (ICDI) for any Stellaris microcontroller-based target board. The board allows users to evaluate, prototype, and create application-specific designs.

Board Features:
- Stellaris LM3S811 microcontroller
- OLED graphics display with 96 x 16 pixel resolution
- User-programmable pushbutton and LED
- Reset pushbutton and power indicator LED
- Thumbwheel potentiometer for driving an Analog-to-Digital Converter (ADC) input
- Standard ARM 20-pin JTAG debug connector for use as an In-Circuit Debug Interface (ICDI)
- I/O signal break-out pads for hardware prototyping
- UART0 accessible through a USB Virtual COM Port (VCP)
- USB interface for all communication and power
- Evaluation copy of the Keil™ RealView® Microcontroller Development Kit software tools

451618

Mftrs. List No.	Order Code	Price Each
EKK-LM3S811	129-7881●	33.29

EKx-LM3S3748 Evaluation Kits

LUMINARY MICRO



Features include:
- Oscilloscope quick-start application
- Simple set-up - USB cable provides all communication and power
- use as an evaluation platform or as an In-circuit Debug Interface
- C code applications can be built quickly, extensive source code examples are included
- CSTN Graphics display (128x128 resolution with 16-bit colour)
- User LED, navigation switch and pushbutton
- MicroSD card slot
- Speaker
- Hibernate module support (3V lithium coin cell)
- All Dust Devil I/Os available on labelled break-out pads
- Standard ARM 20-pin JTAG connector

Kit Contents:

New

- Evaluation board
- Mini-B USB cable for debug function (3ft)
- Mini-B USB cable for Device Mode use
- 20-Way target cable
- USB Flash Drive
- 7 inch long 'blue wires' for oscilloscope function
- CD containing tools, documentation, guide & example source code

506088

Mftrs. List No.	Description	Order Code	Price Each
EKK-LM3S3748	Evaluation Kit Featuring USB Host - ARM RealView MDK tools with 16KB address limit	156-6965●	64.07
EKI-LM3S3748	Evaluation Kit Featuring USB Host - IAR Embedded Workbench KickStart with 32KB address limit	156-6966●	64.07
EKC-LM3S3748	Evaluation Kit Featuring USB Host - CodeSourcery G++ with 30-day evaluation license	156-6967●	64.07
EKT-LM3S3748	Evaluation Kit Featuring USB Host - Code Red Technologies code suite with full evaluation license	156-6968●	64.07

RL Re-reeling available

Farnell

EKx-LM3S3768 Evaluation Kits

LUMINARY MICRO



Features include:
- Oscilloscope quick-start application
- Simple set-up - USB cable provides all communication and power
- use as an evaluation platform or as an In-circuit Debug Interface
- C code applications can be built quickly, extensive source code examples are included
- CSTN Graphics display (128x128 resolution with 16-bit colour)
- User LED, navigation switch and pushbutton
- MicroSD card slot
- Speaker
- Hibernate module support (3V lithium coin cell)
- All Dust Devil I/Os available on labelled break-out pads
- Standard ARM 20-pin JTAG connector

Kit Contents:

New

- Evaluation board
- Mini-B USB cable for debug function (3ft)
- Micro-A Plug to Std-A receptacle
- Std-A plug to Micro-B plug
- 20-Way target cable
- USB Flash Drive
- 7 inch long 'blue wires' for oscilloscope function
- CD containing tools, documentation, guide and example source code

506099

Mftrs. List No.	Description	Order Code	Price Each
EKK-LM3S3768	Evaluation Kit Featuring USB OTG - ARM RealView MDK tools with 16KB address limit	156-6971●	70.10
EKI-LM3S3768	Evaluation Kit Featuring USB OTG - IAR Embedded Workbench KickStart with 32KB address limit	156-6972●	70.10
EKC-LM3S3768	Evaluation Kit Featuring USB OTG - CodeSourcery G++ with 30-day evaluation license	156-6973●	70.10
EKT-LM3S3768	Evaluation Kit Featuring USB OTG - Code Red Technologies code suite with full evaluation license	156-6974●	70.10

Intelligent Display Module with 3.5" Landscape Display

Stand-Alone Module & Reference Design Kit

LUMINARY MICRO



New

The Stellaris® Intelligent Display Module is offered as a reference design kit as well as a stand-alone, ready-for-production module.
It offers a complete QVGA touch-screen user interface for control, automation, and instrumentation applications. It also features several serial, digital, and analog connectivity options for easy implementation as a Human Machine Interface (HMI) touch display panel in an embedded control device.
Software development for the reference design kit is simplified by using Luminary Micro's comprehensive graphics library and ARM development tools from ARM tools partners.

526925

Mftrs. List No.	Description	Order Code	Price Each
MDL-IDM-L35	Stand-Alone Module	167-3911●	128.35
RDK-IDM-L35	Reference Design Kit	167-3912●	151.94

Brushed DC Motor Control

Stand-Alone Module & Reference Design Kit

LUMINARY MICRO



New

The Stellaris® Brushed DC Motor Control is available as a stand-alone, ready-for-production Module and a Reference Design Kit.
The Brushed DC motor control design offers high performance CAN networking with variable speed control for 12V brushed DC motors at up to 40A continuouscurrent, along with a rich set of control options and sensor interfaces, including analog and quadrature encoder interfaces. The design uses highly optimized software and a powerful 32-bit Stellaris LM3S2616 microcontroller to implement open-loop speed control as well as closed-loop control of speed, position, or motor current.
The high-frequency Stellaris-based PWM enables DC motors to run smoothly and quietly over a wide speed range. The LM3S2616 microcontroller's robust combination of features, along with the efficient and deterministic performance of the ARM Cortex-M3 core, positions the design into a wide variety of consumer and industrial applications.

526924

Mftrs. List No.	Description	Order Code	Price Each
MDL-BDC	Stand-Alone Module	167-3913●	75.62
RDK-BDC	Reference Design Kit	167-3914●	151.94

Brushless DC Motor Reference Design Kit

LUMINARY MICRO



New

The Stellaris Brushless DC Motor Control Reference Design Kit with Ethernet and CAN contains all the necessary hardware and software to design, develop, and integrate BLDC motor applications. It is a sophisticated four-quadrant motor control for three-phase brushless DC motors rated at up to 36 V.

Kit Contents:
- Main control circuit board
- 3-phase brushless DC motor
- 24V wall power supply
- Retractable Ethernet cable
- Debug adapter
- Graphical control program for Windows™ on CD
- Guide, Manuals, Code, BOM, schematics, and Gerber files on CD

496651

Mftrs. List No.	Description	Order Code	Price Each
RDK-BLDC	Brushless DC Motor Reference Design Kit	155-1848●	128.73

Stellaris® Ref Design Kit for AC induction & Stepper Motor

LUMINARY MICRO



RDK-ACIM



RDK-STEPPER

The Luminary Micro Stellaris Stepper Motor Control Reference Design Kit (Stepper RDK) contains all the necessary hardware and software for you to design, develop, and integrate your stepper motor applications. The Stepper RDK combines the strength and flexibility of Luminary Micro's Stellaris microcontrollers with Fairchild Semiconductor's gate drivers and MOSFETs to create an advanced stepper motor control design that has been carefully engineered for performance, cost, and flexibility. Stepper motors are particularly suited for use in two and three-axis CNC equipment, sorting and grading equipment, specialized printers and scanners, and factory automation.
The Luminary Micro Stellaris AC Induction Motor Reference Design Kit (ACIM RDK) contains all the necessary hardware and software for you to design, develop, and integrate your AC induction motor applications. The ACIM RDK combines the strength and flexibility of Luminary Micro's Stellaris microcontrollers with Fairchild Semiconductor's power modules to create an advanced variable speed AC motor control design that has been carefully engineered for performance, cost, and flexibility. AC induction motors are particularly suited for use in major home appliances (refrigerators, dishwashers, washing machines, and dryers), residential and light commercial HVAC systems, and three-phase industrial motor drives.

Kit Contents:
Luminary Micro Stellaris Stepper Motor Control
- Main control circuit board, NEMA23 stepper motor, 24 V wall power supply, USB cable, Graphical control program for Windows™ on CD, Quickstart Guide, User's Manual, Software, Reference Manual, source code, BOM, schematics & Gerber files on CD.

Luminary Micro Stellaris AC Induction Motor
- Main control circuit board with a factory-installed heatsink, 3-phase appliance AC motor (0-20000 rpm), Power cables, USB cable, Graphical control program for Windows on CD, Quickstart Guide, User's Manual, Software, Reference Manual, source code, BOM, schematics & Gerber files on CD.

496651

Mftrs. List No.	Description	Order Code	Price Each
RDK-ACIM	Reference Design for AC Induction Motor Kit	149-4154●	240.87
RDK-STEPPER	Reference Design for Stepper Motor Kit	149-4155●	126.44

RL Re-reeling available

Farnell

Microcontrollers and Microprocessors - ARM-based NXP

MCB2100 Evaluation Board

KEIL SOFTWARE UK



The MCB2100 board is a NXP LPC2129 ARM7 processor ideal for single chip development. The board has LED's, a potentiometer and is tracked for standard headers for the IO. With the Keil system, (both the Keil and GNU C/C++ compilers) this is all that is required to do professional ARM development. The Keil MCB2100 evaluation board includes two CAN interface ports and two serial ports. It allows you to experiment with ARM applications and projects that require CAN (Controller Area Network).

- Keil uVision3 IDE and Keil C/C++ compiler and GNU C/C++
- Full Keil ARM Simulator/debugger
- No time limit on Keil tools - size limit 16K
- LPC2129 with on board memory: 16K RAMn 256K FLASH
- Two each of CAN and RS232 interfaces
- Many source code examples supplied
- JTAG and TEM Trace interfaces on board

372261

Description	Mftrs. List No.	Order Code	Price Each
ARM7 Development Kit Without ULINK USB Adapter	MCB2100	**769-7481**	99.00
ARM7 Development Kit With ULINK USB Adapter	MCB2100-U	**769-7490**	264.92

MCB2103 and MCB2140 evaluation boards For NXP LPC210X and LPC214X Family

KEIL SOFTWARE UK



116-9515



116-9516

The MCB2103 and MCB2140 evaluation boards provide a proven platform to easily evaluate the strengths of the feature-rich, ARM7TDMI™ processor-based LPC210x and LPC214x. These boards integrate a serial port, JTAG port, 8 LEDS, lithium battery for maintaining the real-time clock and a potentiometer to generate analog voltage input.
JTAG interface, coupled with the ULINK USB-JTAG adapter, allows flash programming and real-time in-circuit emulation using the on-chip debug interface of the devices, and fast PC communication via your PC's USB port.The MCB2103 evaluation board ships with a complete evaluation version of the PK-ARM Microcontroller toolchain including µVision IDE, C compiler, assembler, debugger and MCU simulator. Several example software projects to exercise and evaluate the MCU are also included.

Features:

- Serial Port: a standard DB9 connector for access to the LPC device serial port(the MCB2140 has dual serial Port)
- On-board Battery to maintain power to the real-time clock when disconnected from the main power supply.
- Adjustable analog voltage source for testing the Analog to Digital output feature of the LPC device
- JTAG interface, coupled with the ULINK USB-JTAG adapter, allows flash programming and real-time in-circuit emulation
- USB 2.0 Full Speed Interface(MCB2140 only)

429433

		Order Code	Price Each
MCB2103-U	Eval Kit for LPC210x Plus ULINK JTAG	**116-9515**	240.34
MCB2140-U	Eval Kit for LPC214x Plus ULINK USB-JTAG	**116-9516**	295.71

LPC2000 Family

NXP founded by Philips



The 16/32-bit LPC2000 family is based on a 1.8V ARM7TDMI-S core operating at up to 60 MHz together with a wide range of peripherals including multiple serial interfaces, 10-bit ADC and external bus options. These controllers are designed for use in a range of applications including industrial control, automotive, medical, connectivity and any other general purpose embedded application requiring high performance and low power consumption.

Features include;

- 16/32-bit ARM7TDMI-S processor
- Watchdog timer
- In-system programming (ISP) and In-application Programming (IAP) via on-chip boot-loader software
- 2 low power modes, Idle and Power-down
- Operating temp. 0°C to 70°C
- Up to 112 5V tolerant general purpose I/O pins
- 60/75 MHz max. CPU clock available from programmable on-chip Phase-locked loop
- On-chip crystal oscillator with an operating range of 1MHz ~ 30MHz
- CPU operating voltage range. 1.65V ~ 1.95V
- I/O power supply range. 3.0V ~ 3.6V

DEVICE	FLASH	RAM	Timers	PWM	CCU	I/O	Serial	Interrupts	Frequency
	(bytes)	(bytes)	#				Interface	(Ext.)	(MHz)
LPC2101	8 K	2K	4x32-bit / 2x16-bit	—	7	32	UART, SPI, SSP, I2C	13	70
LPC2103	32K	8K	4x32-bit / 2x16-bit	—	7	32	UART, SPI, SSP, I2C	13	70
LPC2104	128K	16K	4 x 32-bit	6-ch	7	32	2xUART, I2C, SPI	3	60
LPC2105	128K	32K	4 x 32-bit	6-ch	7	32	2xUART, I2C, SPI	3	60
LPC2106	128K	64K	4 x 32-bit	6-ch	7	32	2xUART, I2C, SPI	3	60
LPC2114	128K	16K	4 x 32-bit	6-ch	8	46	2xUART, I2C, 2xSPI	3	60
LPC2119	128K	16K	4 x 32-bit	6-ch	8	46	2xUART, I2C, 2xSPI, 2xCAN	3	60
LPC2129	256KB	16K	2 x 32-bit	6-ch	8	46	2x UART, I2C, 2x SPI, 2xCAN	9	30
LPC2131	32K	8K	4 x 32-bit	6-ch	8	47	2xUART, 2xI2C, 2xSPI	4	60
LPC2132	64 K	16K	4 x 32-bit	6-ch	8	47	2xUART, 2xI2C, 2xSPI	4	60
LPC2134	128K	16K	4 x 32-bit	6-ch	8	47	2xUART, 2xI2C, 2xSPI	4	60
LPC2136	256K	32K	4 x 32-bit	6-ch	8	47	2xUART, 2xI2C, 2xSPI	4	60
LPC2138	512K	32K	4 x 32-bit	6-ch	8	47	2xUART, 2xI2C, 2xSPI	4	60
LPC2142	64 K	16K	4 x 32-bit	6-ch	8	45	UART, SPI, SSP, I2C	9	60
LPC2210	—	16K	4 x 32-bit	6-ch	8	112	2xUART, I2C, 2xSPI	3	60
LPC2212	128K	16K	4 x 32-bit	6-ch	8	112	2xUART, I2C, 2xSPI	3	60
LPC2214	256K	16K	4 x 32-bit	6-ch	8	112	2xUART, I2C, 2xSPI	3	60
LPC2220	—	64K	4 x 32-bit	6-ch	8	112	2xUART, I2C, 1xSPI, 1xSPI/SSP	3	60
LPC2290	—	16K	4 x 32-bit	6-ch	8	112	2xUART, I2C, 2xSPI, 2xCAN	3	60
LPC2292	256K	16K	4 x 32-bit	6-ch	8	112	2xUART, I2C, 2xSPI, 2xCAN	3	60
LPC2294	256K	16K	2 x 32-bit	6-ch	8	112	2xUART, I2C, 2xSPI, 4xCAN	9	60

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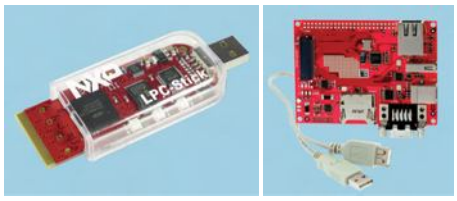
	Pins	Package	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
2101	48	LQFP	16/32-Bit ARM7 MCU,8K Flash	LPC2101FBD48	SMD **129-4786**	2.58	2.00	1.34
2103	48	LQFP	16/32-Bit ARM7 MCU,16K Flash	LPC2103FBD48	SMD **129-4788**	3.85	2.98	2.21
2104	48	LQFP	32-Bit u/c, 128 kB, ISP/IAP Flash With 16 kB RAM - 60MHz	LPC2104BBD48.151	SMD **108-5364**	9.20	7.05	5.63
2105	48	LQFP	32-Bit u/c, 128 kB, ISP/IAP Flash With 32 kB RAM - 60MHz	LPC2105BBD48.151	SMD **120-1340**	9.67	8.03	6.46
2106	48	LQFP	32-Bit u/c, 128 kB, ISP/IAP Flash With 64 kB RAM - 60MHz	LPC2106BBD48.151	SMD **108-5365**	11.25	8.70	5.90

RL Re-reeling available

Farnell

	Pins	Package	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
2114	64	LQFP	32-Bit u/c, 128 kB, ISP/IAP Flash With 16 kB RAM - 60MHz	LPC2114FBD64,151	SMD 116-9483	7.18	5.98	4.58
2119	64	LQFP	32-Bit u/c, 128 kB, ISP/IAP Flash With 16 kB RAM - 60MHz	LPC2119FBD64,151	SMD 116-9484	9.39	7.77	5.82
2129	64	LQFP	16/32 Bit ARM7 MCU, 256K Flash.	LPC2129FBD64,151	NEW SMD 162-7046	11.22	8.98	7.49
2131	64	LQFP	32-Bit u/c, 32 kB, ISP/IAP Flash With 8 kB RAM - 60MHz	LPC2131FBD64,151	SMD 116-9485	5.85	4.88	3.70
2132	64	LQFP	32-Bit u/c, 64 kB, ISP/IAP Flash With 16 kB RAM - 60MHz	LPC2132FBD64,151	SMD 116-9486	6.18	4.92	3.64
2134	64	LQFP	32-Bit u/c, 128 kB, ISP/IAP Flash With 16 kB RAM - 60MHz	LPC2134FBD64,151	SMD 116-9487	7.48	5.92	4.41
2136	64	LQFP	32-Bit u/c, 256 kB, ISP/IAP Flash With 32 kB RAM - 60MHz	LPC2136FBD64,151	SMD 116-9489	9.32	7.36	5.31
2138	64	LQFP	32-Bit u/c, 512 kB, ISP/IAP Flash With 32 kB RAM - 60MHz	LPC2138FBD64,151	SMD 116-9491	10.27	8.57	6.52
2142	64	LQFP	16/32-Bit ARM7 MCU,64K Flash	LPC2142FBD64	SMD 129-4789	7.11	5.51	3.73
2210	144	LQFP	32-Bit u/c With 16 kB RAM - 60MHz	LPC2210FBD144,551	SMD 116-9492	5.81	4.51	3.02
2212	144	LQFP	32-Bit u/c, 128 kB, ISP/IAP Flash With 16 kB RAM - 60MHz	LPC2212FBD144,551	SMD 116-9493	13.47	11.01	7.36
2214	144	LQFP	32-Bit u/c, 256 kB, ISP/IAP Flash With 16 kB RAM - 60MHz	LPC2214FBD144,551	SMD 116-9494	12.84	9.98	7.21
2214	144	LQFP	32-Bit u/c, 256 kB, ISP/IAP Flash With 16 kB RAM - 60MHz	LPC2214FBD144,557	SMD 116-9495	11.17	9.31	7.08
2220	144	LQFP	16/32-Bit ARM7 MCU, 64K RAM.	LPC2220FBD144	SMD 129-4791	8.25	5.50	4.18
2220	144	LQFP	32-Bit u/c With 64 kB RAM - 60MHz	LPC2220FBD144,551	SMD 116-9496	8.07	6.26	4.18
2290	144	LQFP	32-Bit u/c With 16 kB RAM - 75MHz	LPC2290FBD144,551	SMD 116-9497	5.72	4.79	3.64
2292	144	LQFP	32-Bit u/c, 256 kB, ISP/IAP Flash With 16 kB RAM - 60MHz	LPC2292FBD144,551	SMD 116-9498	12.34	10.28	7.81
2292	144	LQFP	16/32-Bit ARM7 MCU, 256K Flash	LPC2292FBD144/01	NEW SMD 156-4399	18.60	14.38	9.65
2294	144	LQFP	32-Bit u/c, 256 kB, ISP/IAP Flash With 16 kB RAM - 60MHz	LPC2294HBD144,551	SMD 116-9499	16.61	12.85	9.32

LPC-Stick and Extension Board



hitex DEVELOPMENT TOOLS

NXP founded by Philips

New

The **LPC-Stick** is a small modular evaluation kit. It provides target hardware with the LPC2468 microcontroller from NXP, external SRAM, user pins and LEDs for applications use. Combined with the proven USB debugger device connection and the non-limited HiTOP development tools the LPC-Stick allows full access to all chip features, debugging and programming.

The **LPC-COM Extension Board** provides a set of communication features and pinouts (e.g. Ethernet and Phy, USB Host and Device, UART, SDCard, CAN phy, external power).
With the LPCStickView control software included in the LPC-Stick package the features of the LPC-Stick and the features of the Extension Boards can be controlled. E.g. Web server application, USB device, USB host and CAN functions are ready to use from the demo application. Optional external power can be obtained to build standalone running applications.

524461

Mftrs. List No.	Description	Order Code	Price Each
OM11006	LPC-Stick	165-6835	40.79
OM11007	LPC-COM-Board	165-7592	56.30

LPC2000 Series

NXP founded by Philips

Based on an ARM7TDMI-S core operating at up to 75 MHz, these 32-bit microcontrollers deliver high performance and low power consumption in a cost-effective package. They are designed for use in general purpose and specialty embedded applications such as industrial control, automotive, medical, and connectivity.

496722

	Pins	Pkg	Flash	RAM	Timers	PWM ch	Ethernet	USB	UART	I2C	CAN	SPI	SSP	I2S	ADC 10-bit ch	DAC 10-bit ch	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
2102	48	LQFP	16K	4K	6	14	–	–	2	2	–	1	–	–	8	–	LPC2102FBD48	SMD 152-4633	3.71	2.53	1.88
2106	48	HVQFN	128K	64K	5	6	–	–	2	1	–	1	–	–	–	–	LPC2106FHN48	SMD 152-4634	10.56	8.10	7.03
2109	64	LQFP	64K	8K	5	6	–	–	2	1	1	2	–	–	4	–	LPC2109FBD64	SMD 152-4635	7.13	5.73	4.95
2141	64	LQFP	32K	8K	5	6	–	1	2	2	–	1	–	–	6	–	LPC2141FBD64	SMD 152-4638	6.33	4.31	3.48
2144	64	LQFP	128K	16K	5	6	–	1	2	2	–	1	–	–	8+6	1	LPC2144FBD64	SMD 152-4639	7.49	5.75	4.88
2146	64	LQFP	256K	40K	5	6	–	1	2	2	–	1	–	–	8+6	1	LPC2146FBD64	SMD 152-4640	8.95	6.87	6.23
2148	64	LQFP	512K	40K	2	6	–	1	2	2	–	1	1	–	14	1	LPC2148FBD64	NEW SMD 160-5539	10.18	8.49	6.45
2364	100	LQFP	128K	34K	6	12	1	1	4	3	2	1	2	1	8	1	LPC2364FBD100	SMD 152-4643	7.11	4.85	4.06
2366	100	LQFP	256K	58K	6	12	1	1	4	3	2	1	2	1	8	1	LPC2366FBD100	SMD 152-4644	8.46	5.77	4.66
2368	100	LQFP	512K	58K	6	12	1	1	4	3	2	1	2	1	8	1	LPC2368FBD100	SMD 152-4645	8.17	6.26	5.86
2378	144	LQFP	512K	58K	6	12	1	1	4	3	2	1	2	1	8	1	LPC2378FBD144	SMD 152-4646	9.36	7.17	6.61
2468	208	LQFP	512K	98K	6	12	1	1	4	3	2	1	2	1	8	1	LPC2468FBD208	SMD 152-4647	12.62	9.68	8.58

32-bit ARM968 LPC291x Series

NXP founded by Philips

Built around a 32-bit ARM968 core operating at up to 80 MHz., these 32-bit microcontrollers are optimised for automotive and industrial applications and fill the performance gap between ARM7TDMI and ARM926EJ technologies.They offers high performance and very low power consumption, and include integrated CAN 2.0B and LIN 2.0 controllers.On-chip memory resources include two tightly coupled memories (TCMs), a 16-KB instruction TCM (ITCM) and a 16-KB data TCM (DTCM). The devices also feature 32-bit external memory controllers.

496734

	Pins	Pkg	Flash	SRAM	Freq	CAN 2.0B	LIN 2.0	ADC	UART	Q-SPI	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
2917	144	LQFP	512 KB	48 KB	80 MHz	2	2	2x8/10-bit	2	3	LPC2917FBD144	SMD 152-4688	11.34	9.11	7.87
2919	144	LQFP	768 KB	48 KB	80 MHz	2	2	2x8/10-bit	2	3	LPC2919FBD144	SMD 152-4691	12.22	9.82	8.50

LPC3180 Low power ARM9-based microcontroller

NXP founded by Philips

The NXP microcontroller LPC3180, a 32-bit microcontroller built around a 90-nm ARM9 core, is the industry's first to provide a vector floating-point co-processor, integrated USB On-The-Go (OTG), and the ability to operate in ultra-low-power mode (down to 0.9 V).
The ARM9 core operates at up to 208 MHz and is supported by 32 K of data cache and 32 K of instruction cache. There is an external-memory interface for NAND Flash and SDRAM memory (at 1.8 V for mobile SDRAM), and a 64-KB block of on-chip SRAM.

496730

	Pins	Pkg	SRAM	I-cache	D-cache	I2C	SPI	UART	ADC ch (10-bit)	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
3180	320	LFBGA	64 KB	32 K	32 K	2	2	6	3	LPC3180FEL320	SMD 152-4648	10.03	8.61	8.38

See the **Dataman 48Pro universal 48-pin programmer** on page 124

Microcontrollers and Microprocessors - ARM-based NXP - continued

LH7A40x ARM9

The LH7A400 and LH7A404 include an LCD controller, for powerful, flexible performance in all sorts of applications, including consumer, entertainment, industrial/commercial, medical, and automotive. The LCD controller is the same in both devices, supporting STN, CSTN, TFT, and AD-TFT displays of 1024 x 768 and 64k colors.

- CPU Processor ARM922T
- Operating Temperature -40 to 85°C
- 7A404 has a 10 x 10-bit ADC with touchscreen interface
- LH7A400N0F076B5 pins/package 256/LFBGA
- LH7A400N0G000B5 pins/package 256/BGA
- LH7A404N0F000B3 pins/package 324/LFBGA

496710

RAM	GPIO	Serial interfaces	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
8 KB (I-cache), 8 KB (D-cache), 80 KB (frame buffer)	60	SPI/SSP, 3 x UART, IrDA, USB 2.0 device	LH7A400N0F076B5	SMD 152-4627●	13.43	10.68	9.49
8 KB (I-cache), 8 KB (D-cache), 80 KB (frame buffer)	60	SPI/SSP, 3 x UART, IrDA, USB 2.0 device	LH7A400N0G000B5	SMD 152-4629●	17.14	13.77	11.90
8 KB (I-cache), 8 KB (D-cache), 80 KB (frame buffer)	64	SPI/SSP, 3 x UART, IrDA, USB 2.0 device and host	LH7A404N0F000B3	SMD 152-4632●	24.98	20.07	17.35

See the range of **4-pin TCXO Oscillators** from IQD on page 268

LH754xx and LH7952xx

These flexible, powerful microcontrollers, based on ARM7 cores, integrate an LCD controller, so they save time-to-market for applications that use an LCD screen.

496709

Pins	Pkg	CPU core	RAM	GPIO	A/D converter	Serial interfaces	Temperature range (°C)	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
75401	144 LQFP	ARM7TDMI-S	32 KB	76	8 x 10-bit with touch-screen interface	SPI/SSP, 3 x UART, CAN 2.0B	-40 to +85	LH75401N0Q100C0	SMD 152-4621●	8.82	6.01	4.85
75411	144 LQFP	ARM7TDMI-S	32 KB	76	8 x 10-bit with touch-screen interface	SPI/SSP, 3 x UART	-40 to +85	LH75411N0Q100C0	SMD 152-4623●	10.87	8.74	7.55
79520	176 LQFP	ARM720T	8 KB (cache), 32 KB (SRAM)	64		SPI/SSP, 3 x UART, IrDA	-40 to +85	LH79520N0Q000B1	SMD 152-4624●	11.47	9.21	7.97
79524	208 LFBGA	ARM720T	8 KB (cache), 16 KB (SRAM)	104	10 x 10-bit with touch-screen interface	SPI/SSP, 3 x UART, IrDA, I2C-bus, I2S, USB 2.0 device, 10/100 Base-T Ethernet	-40 to +85	LH79524N0F100A1	SMD 152-4625●	9.53	7.31	6.27
79525	176 LQFP	ARM720T	8 KB (cache), 16 KB (SRAM)	86	10 x 10-bit with touch-screen interface	SPI/SSP, 3 x UART, IrDA, I2C-bus, I2S, USB 2.0 device, 10/100 Base-T Ethernet	-40 to +85	LH79525N0Q100A1	SMD 152-4626●	8.44	6.47	5.49

Microcontrollers and Microprocessors - ARM-based STMICROELECTRONICS

Starter Kit for STM3210B-PRIMER



This is a development and evaluating tool for the STM32 ARM Cortex M3 core-based microcontrollers.

Software Included

- RIDE7 development software toolset with project manager
- GNU C/C++ compiler
- Management application CircleOS task scheduler
- C source code for all sample applications & libraries

Hardware Features of Primer

- The Primer plugs directly into a host PC's USB
- 128x128 pixel color LCD
- MEMs sensor,
- Buzzer
- IrDA transceiver

495177

Mftrs. List No	Order Code	Price Each
STM3210B-PRIMER	150-2504▲	32.25

STM32 (ARM Cortex M3) 32-bit Microcontroller Starter Kits



All of these kits contain everything required to enable users to quickly and easily evaluate the MCU's features, and to start development at very low cost. They include many ready-to-run code examples to demonstrate the device peripherals, with source files that can be adapted for users applications. ST was the first leading MCU supplier to introduce a family based on the Cortex-M3, and this starter kit portfolio offers the widest choice of tools, at the lowest cost, for users intending to develop applications for this core.

The Keil **STM3210B-SK/KEIL** starter kit features the Keil RealView Microcontroller Development Kit software, including the µVision3 integrated development environment for application programming and debugging, and the ARM RealView C/C++ Compilation Tools for up to 16 Kbytes of code, plus a full-featured STM32F103B-based evaluation board, with the ULINK in-circuit (USB/JTAG) debugger/programmer.

The Hitex **STM3210B-SK/HIT** starter kit is based on the HiTOP5 integrated development environment, offering a full range of project management, source-code editing and debugging features through an intuitive graphical interface. The included Tasking VX C/C++ compiler has no code-size limitation when used with the kit hardware. The kit includes a USB stick with STM32F103B and integrated debugging/programming capability, an extension I/O board with peripheral evaluation features, and the DashBoard GUI for MCU performance monitoring.

The IAR **STM3210B-SK/IAR** KickStart kit is based on the IAR Embedded Workbench for ARM (EWARM) development environment, running on an STM32F103B KickStart development board. It includes the IAR C/C++ compiler for up to 32 Kbytes of code, the J-Link in-circuit debugger/programmer (USB/JTAG), a built-in Flash loader, and sample projects for all of the STM32 device peripherals.

The Raisonance REva **STM3210B-SK/RAIS** starter kit, based on the RIDE development environment for code up to 32 Kbytes, offers application debugging and seamless control of the included GNU C/C++ compiler through an intuitive graphical interface. The kit hardware has a modular design based on the USB-powered REva universal evaluation motherboard with embedded RLink in-circuit debugger/programmer (USB/JTAG), and comes with an STM32F103B daughterboard with device-specific evaluation features.

513352

Mftrs. List No	Description	Order Code	Price Each
STM3210B-SK/KEI	Keil Starter Kit	150-2506▲	157.49
STM3210B-SK/HIT	Hitex Starter Kit	NEW 160-6330▲	86.71
STM3210B-SK/IAR	IAR Starter Kit	NEW 160-6331▲	188.20
STM3210B-SK/RAIS	Raisonance Starter Kit	NEW 160-6332▲	195.09

STM3210E-PRIMER



The STM32 Primer is a uniquely fun, easy, low-risk solution for exploring and developing applications for the STM32 ARM Cortex™-M3 core-based microcontrollers.

New

Start exploring the power of the STM32 by playing with the included applications. The STM32 drives the fun, ergonomic hardware platform that combines a TFT graphical display with MEMs-based controls, plus tactile screen and joystick for navigating and controlling the GUI and game applications.

When running the applications, the Primer can operate in standalone mode powered by a battery (with power management circuit), which is recharged via the USB connection with a host PC.

527526

Mftrs. List No	Description	Order Code	Price Each
STM3210E-PRIMER	STM3210E-PRIMER	167-9751▲	45.44

See our range of **Resonators** from Murata on page 276

STM32 ARM Cortex M3 32-bit Flash Microcontrollers



The STM32F10xxx incorporates the high-performance ARM Cortex-M3 32-bit RISC core, high-speed embedded memories, and an extensive range of enhanced I/Os and peripherals connected to two APB buses.
These devices offer standard communication interfaces (I2C, SPI, USART), general purpose 16-bit timers and 16-bit ADCs. The STM32F103 performance line also includes USB, CAN and a PWM timer.
With a 2.0 to 3.6 V power supply, the STM32F101 access line family operates in the -40 to +85°C temperature range, and the STM32F103xx performance line family operates in the -40 to +105 °C temperature range. A comprehensive set of power-saving modes allow to design low-power applications.

Applications:
- Motor drive, application control and user interface
- Medical and handheld equipment
- PC peripherals gaming and GPS platforms
- Industrial applications: PLC, inverters, printers, and scanners
- Alarm systems, Video intercom, and HVAC

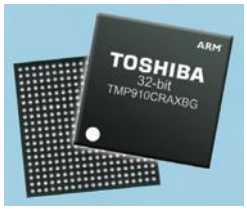
481931

	Pins	Pkg	Freq (MHz)	Flash (Kb)	RAM (kB)	I/O Lines	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
Access Line												
32F101T6	36	VFQFPN	36	32	6	26	32-bit ARM Cortex M3	STM32F101T6U6	NEW SMD 160-6325	4.91	3.26	2.49
32F101C6	48	LQFP	36	32	6	32	32-bit ARM Cortex M3	STM32F101C6T6	SMD 144-7627	5.40	4.40	3.46
32F101R6	64	LQFP	36	32	6	49	32-bit ARM Cortex M3	STM32F101R6T6	SMD 144-7628	5.81	4.73	3.70
32F101T8	36	VFQFPN	36	64	10	26	32-bit ARM Cortex M3	STM32F101T8U6	NEW SMD 160-6326	5.66	3.78	2.87
32F101C8	48	LQFP	36	64	10	32	32-bit ARM Cortex M3	STM32F101C8T6	SMD 144-7629	6.22	5.08	3.98
32F101R8	64	LQFP	36	64	10	49	32-bit ARM Cortex M3	STM32F101R8T6	SMD 144-7630	6.71	5.44	4.28
32F101V8	100	LQFP	36	64	10	80	32-bit ARM Cortex M3	STM32F101V8T6	SMD 144-7631	7.67	6.22	4.89
32F101CB	48	LQFP	36	128	16	36	32-bit ARM Cortex M3	STM32F101CBT6	NEW SMD 160-6324	6.97	4.65	3.53
32F101RB	64	LQFP	36	128	16	49	32-bit ARM Cortex M3	STM32F101RBT6	SMD 144-7632	8.03	6.53	5.13
32F101VB	100	LQFP	36	128	16	80	32-bit ARM Cortex M3	STM32F101VBT6	SMD 144-7633	9.00	7.33	5.75
32F101RC	64	LQFP	36	256	32	51	32-bit ARM Cortex M3	STM32F101RCT6	NEW SMD 162-4126	8.64	7.20	6.18
32F101VC	100	LQFP	36	256	32	80	32-bit ARM Cortex M3	STM32F101VCT6	NEW SMD 162-4129	9.41	7.84	6.73
32F101ZC	144	LQFP	36	256	32	112	32-bit ARM Cortex M3	STM32F101ZCT6	NEW SMD 162-4133	10.57	8.80	7.54
32F101RD	64	LQFP	36	384	48	51	32-bit ARM Cortex M3	STM32F101RDT6	NEW SMD 162-4127	10.19	8.48	7.27
32F101VD	100	LQFP	36	384	48	80	32-bit ARM Cortex M3	STM32F101VDT6	NEW SMD 162-4130	10.95	9.13	7.83
32F101ZD	144	LQFP	36	384	48	112	32-bit ARM Cortex M3	STM32F101ZDT6	NEW SMD 162-4134	12.12	10.09	8.65
32F101RE	64	LQFP	36	512	48	51	32-bit ARM Cortex M3	STM32F101RET6	NEW SMD 162-4128	11.72	9.77	8.39
32F101VE	100	LQFP	36	512	48	80	32-bit ARM Cortex M3	STM32F101VET6	NEW SMD 162-4132	12.12	10.09	8.65
32F101ZE	144	LQFP	36	512	48	112	32-bit ARM Cortex M3	STM32F101ZET6	NEW SMD 162-4135	13.67	11.38	9.76
Performance Line												
32F103T6	36	VFQFPN	72	32	10	26	32-bit ARM Cortex M3	STM32F103T6U6	NEW SMD 160-6328	5.90	3.94	3.02
32F103C6	48	LQFP	72	32	10	32	32-bit ARM Cortex M3	STM32F103C6T6	SMD 144-7635	6.51	5.29	4.14
32F103R6	64	LQFP	72	32	10	49	32-bit ARM Cortex M3	STM32F103R6T6	SMD 144-7636	6.89	5.60	4.40
32F103T8	36	VFQFPN	72	64	20	26	32-bit ARM Cortex M3	STM32F103T8U6	NEW SMD 160-6329	6.97	4.65	3.53
32F103C8	48	LQFP	72	64	20	32	32-bit ARM Cortex M3	STM32F103C8T6	SMD 144-7637	7.67	6.22	4.89
32F103R8	64	LQFP	72	64	20	49	32-bit ARM Cortex M3	STM32F103R8T6	SMD 144-7638	8.24	6.68	5.25
32F103V8	100	LQFP	72	64	20	80	32-bit ARM Cortex M3	STM32F103V8T6	SMD 144-7639	9.25	7.52	5.89
32F103CB	48	LQFP	72	128	20	36	32-bit ARM Cortex M3	STM32F103CBT6	NEW SMD 160-6327	8.22	5.49	4.16
32F103RB	64	LQFP	72	128	20	49	32-bit ARM Cortex M3	STM32F103RBT6	SMD 144-7640	9.57	7.79	6.13
32F103VB	100	LQFP	72	128	20	80	32-bit ARM Cortex M3	STM32F103VBT6	SMD 144-7641	10.67	8.68	6.82
32F103RC	64	LQFP	72	256	32	51	32-bit ARM Cortex M3	STM32F103RCT6	NEW SMD 162-4136	9.99	8.33	7.15
32F103VC	100	LQFP	72	256	32	80	32-bit ARM Cortex M3	STM32F103VCT6	NEW SMD 162-4139	10.95	9.13	7.83
32F103ZC	144	LQFP	72	256	32	112	32-bit ARM Cortex M3	STM32F103ZCT6	NEW SMD 162-4142	11.99	10.01	8.57
32F103RD	64	LQFP	72	384	48	51	32-bit ARM Cortex M3	STM32F103RDT6	NEW SMD 162-4137	11.53	9.61	8.24
32F103VD	100	LQFP	72	384	48	80	32-bit ARM Cortex M3	STM32F103VDT6	NEW SMD 162-4140	12.26	10.23	8.77
32F103ZD	144	LQFP	72	384	48	112	32-bit ARM Cortex M3	STM32F103ZDT6	NEW SMD 162-4144	13.54	11.29	9.69
32F103RE	64	LQFP	72	512	64	51	32-bit ARM Cortex M3	STM32F103RET6	NEW SMD 162-4138	12.96	10.80	9.27
32F103VE	100	LQFP	72	512	64	80	32-bit ARM Cortex M3	STM32F103VET6	NEW SMD 162-4141	13.75	11.45	9.81
32F103ZE	144	LQFP	72	512	64	112	32-bit ARM Cortex M3	STM32F103ZET6	NEW SMD 162-4145	15.09	12.57	10.78

Microcontrollers and Microprocessors - ARM-based TOSHIBA

TMP910 MCU and Starter Kit





New

this low power ARM-based microprocessor combines a high-performance 32-bit core with comprehensive graphics control and processing functionality and a variety of on-board connectivity and peripheral options. Incorporated is 56 kB of built-in embedded RAM for program, data and display memory, Boot ROM, and a memory controller that supports SDR and DDR SDRAM. Up to 2.5 GB of linear access space can be addressed. An SD host controller supports high-speed mode SD cards with capacities up to 32 GB.

Features:
- STN/TFT color LCD controller
- Supports 800 x 480 (max. 1024 x 1024)
- 16-/24-bit color
- LCD Data Process Accelerator
- Scaling function (expansion/reduction)
- Filter function (bi-cubic convolution)
- Image blending function (font blending)
- CMOS Image Sensor I/F
- Memory Controller
- DMA Controller
- NANDFLASH Controller
- SD Host Controller 50 MHz, 32 GB
- USB Device (High Speed, 480 Mbps)
- 2 ch. of: SPI / UART / I²C / I²S
- RTC, Touch screen I/F
- 6 channel 10-bit A/D converter

The TMPA910CRAXBG microprocessor is supported by this Starter Kit that allows engineers to rapidly and cost effectively develop and prototype applications.Onboard functionality includes a 3.5-inch display with a touch screen, Ethernet connectivity, a 480 Mbps USB 2.0 interface and an RS232 connector. An audio DAC, connected to the processor I²S bus, provides the ability to output excellent sound quality, while board memory comprises 512 MBit SDRAM, 256 Mbit NOR Flash and 2 Gbit NAND Flash. An SD card socket facilitates the use of portable storage.

517735

Mftrs. List No.	Description	Order Code	Price Each
TMPA910CRAXBG	Microcontroller	SMD 162-6699	10.16
BMSKTOPASA910(DCE)	Starter Kit	162-6701	307.05

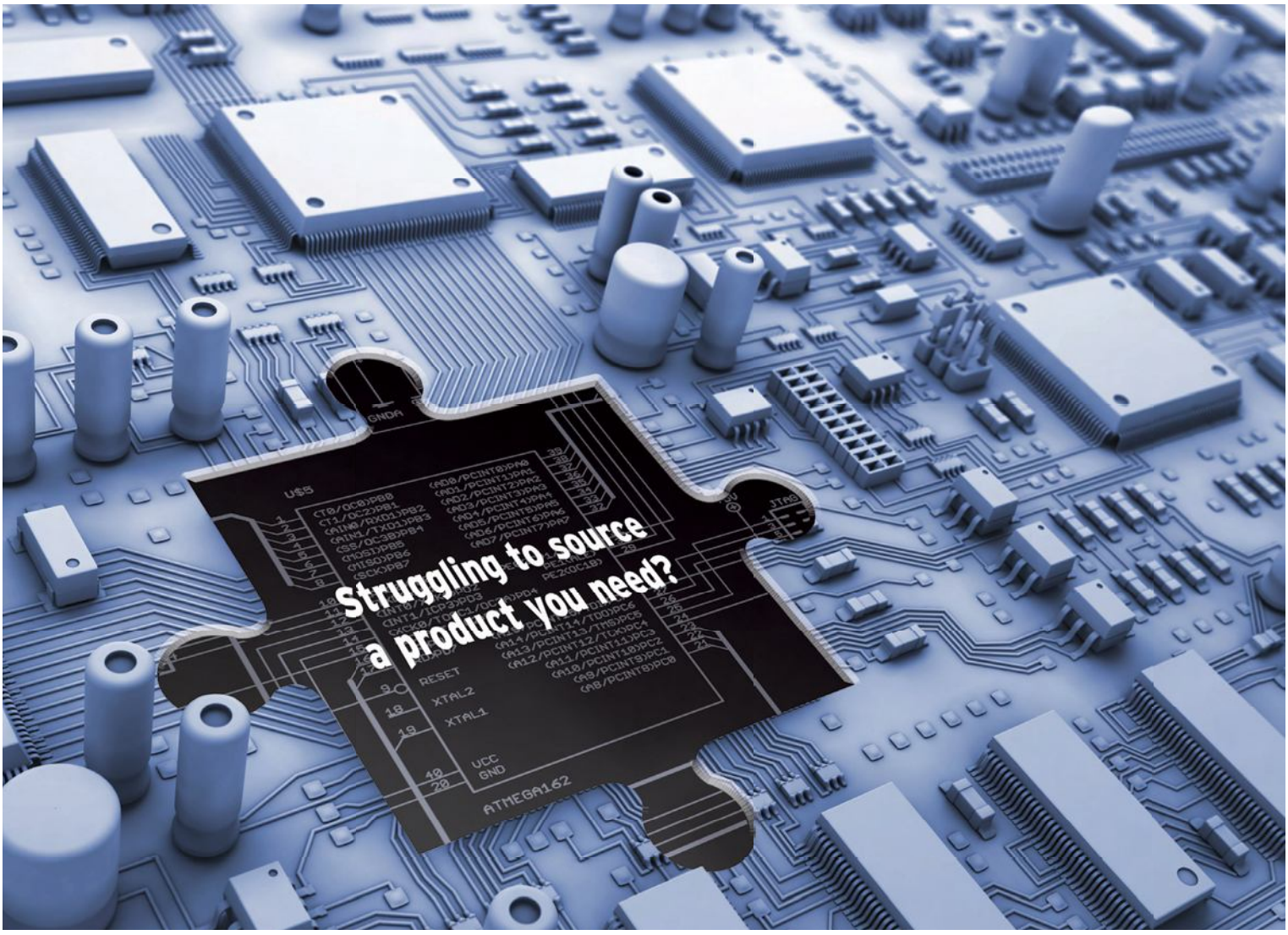


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Digital Signal Processing - ANALOG DEVICES

EZ-KIT Lite™ Evaluation Boards for Blackfin® Processors

The EZ-KIT Lite range of development boards provide design engineers with a complete kit including hardware, software and drivers to evaluate the capabilities of Blackfin Processors. All EZ-KIT Lite deveplopment tools are supplied with an evaluation suite of the VisualDSP++ development environment with the C/C++ compiler, assembler, and linker. The minimum host PC requirements for EZ-KIT Lite boards are Pentium® 166 MHz or higher with 32 MB of RAM, Windows® 98, 2000, or XP and one USB port.

430962

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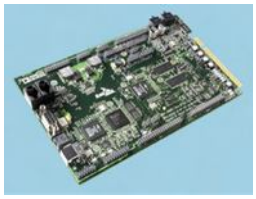
Blackfin® Family Evaluation Kits



ADZS-BF527-EZLITE



ADZS-BF533-EZLITE



ADZS-BF538F-EZLITE



ADZS-BF548-EZLITE

These evaluation kits provide developers with a cost-effective method for initial evaluation of the Blackfin familiy processors. The kits evaluate the processors via a USB-based, PC-hosted tool set and, utilising the full contents of the evaluation kits, users can learn more about the Blackfin familiy's hardware and software development, and quickly prototype a wide range of applications.

New

521964

Description	Mftrs. List No.	Order Code	Price Each
Evaluation Kit for the ADSP-BF52x Blackfin Family	ADZS-BF527-EZLITE	164-2824●	635.01
Evaluation Kit for ADSP-BF533, ADSP-BF532, and ADSP-BF531	ADZS-BF533-EZLITE	164-2825●	334.06
Evaluation Kit for ADSP-BF538 and ADSP-BF538F	ADZS-BF538F-EZLITE	164-2828●	338.06
Evaluation Kit for the ADSP-BF54x Blackfin Family	ADZS-BF548-EZLITE	164-2829●	747.49

ADSP-BF537 EZ-KIT Lite™ Development Kit



This kit provides developers with a cost-effective method for evaluation of the ADSP-BF537 Blackfin® Processor and its rich set of system peripherals, including the IEEE 802.3 10/100 Ethernet MAC and CAN 2.0B controller.
It includes an ADSP-BF537 Processor desktop evaluation board along with an evaluation suite of the VisualDSP++® development and debugging environment with the C/C++ compiler, assembler, and linker. It also includes sample processor application programs, CE-approved power supply, a USB cable, both straight through and cross-over Ethernet cables, a 3.5mm stereo cable, and a pair of stereo headphones.

- ADSP-BF537 Blackfin Processor
- Max Core Clock Rate of 600MHz
- 64 MB (32M x 16) SDRAM, 4 MB (2 M x 16) FLASH memory
- SMSC LAN83C185 10/100 PHY with RJ45 Connector
- CAN TJA1041 Transceiver with 2 RJ10 Connectors
- AD1871 96 KHz stereo DAC with 1/8" Jack Connector
- AD1854 96 KHz stereo ADC with 1/8" Jack Connector
- RS-232 UART line driver/receiver
- National Instruments Educational Laboratory Virtual Instrumentation Suite interface
- Various daughter boards are available to extend the kits functionality - see below

PC System Requirements

- Pentium® 166 MHz or higher, Minimum of 32 megabytes of RAM
- Windows® 2000, Windows XP
- One available USB connector

422980

Mftrs. List No.	Order Code	Price Each
ADZS-BF537-EZLITE	124-8346●	331.34

BF561 EZ-KIT Lite Desktop Evaluation Board



The ADSP-BF561 EZ-KIT Lite allows evaluation of the ADSP-BF561 processor for audio and video applications via a USB-based PC-hosted tool set. Using the advanced video processing peripherals included on the board applications such as simultaneous input and output video processing can be demonstrated, utilising the dual core architecture of the ADSP-BF561 Processor.

Features:

- ADSP-BF561 Blackfin Processor
- 64 MB (16 M x 16-bit x 2) SDRAM and 8 MB (4 M x 16-bit) FLASH memory
- AD1836 multichannel 96 kHz audio codec
- RCA jacks for stereo audio input/output
- ADV7183A advanced 10-bit video decoder
- 3 RCA jacks for composite (CVBS), differential component (YUV) or S video (Y/C) input
- ADV7179 chip scale NTSC/PAL video encoder
- 3 RCA jacks for composite (CVBS), component (RGB), differential component (YUV) or S video (Y/C) Output
- CE approved power supply and USB cable
- Compatible with EZ-Extender daughter boards

431022

Mftrs. List No.	Order Code	Price Each
ADZS-BF561-EZLITE	125-9229●	445.43

Blackfin A-V EZ-Extender



- Audio Interface with 2 channels of stereo input and 3 channels of stereo output (Analog Devices AD1836 -96 kHz audio codec)
- Analog Video Output for CVBS and S-Video output formats (Analog Devices ADV7179 video encoder)
- Analog Video Input for CVBS, S-Video, and YPrPb component video input formats (Analog Devices ADV7183B video decoder)
- Camera Sensor Board Interface, suitabble for connection to Micron, OmniVision, and Kodak evaluation boards for inputting digital video over the processor's Parallel Peripheral Interface (PPI)

422986

Mftrs. List No.	Order Code	Price Each
Blackfin A-V EZ-Extender		
ADZS-BFAV-EZEXT	125-6457●	200.69

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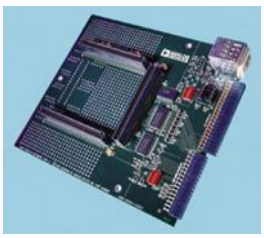
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Digital Signal Processing - ANALOG DEVICES - continued

Blackfin® EZ-Extender Boards

ANALOG DEVICES

New



ADZS-BF-EZEXT-1



ADZS-BFAUDIO-EZEXT



ADZS-BFFPGA-EZEXT



ADZS-USBLAN-EZEXT

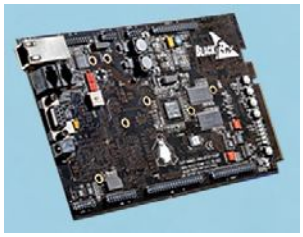
The Blackfin **EZ-Extender** daughter board allows developers to connect the Parallel Peripheral Interface (PPI) on the ADSP-BF533 EZ-KIT Lite and the ADSP-BF561 EZ-KIT Lite to a number of Analog Devices High Speed Converter (HSC) evaluation boards, the OV6630 OmniVision camera evaluation board, and an external LCD display.
The Blackfin **Audio EZ-Extender** and **FPGA EZ-Extender** daughter boards plugs onto the expansion interface of the ADSP-BF533-EZLITE, ADSP-BF537-EZLITE, or ADSP-BF561-EZLITE evaluation systems to aid design and prototyping phases processor targeted applications.
The Blackfin **USB-LAN EZ-Extender** extends the capabilities of the the ADSP-BF533-EZLITE, ADSP-BF537-EZLITE, or ADSP-BF561-EZLITE evaluation systems by providing a connection between the asynchronous memory bus of the Blackfin processor and either a USB 2.0 or a 10/100 Mbps Ethernet device.

521950

Description	Mftrs. List No.	Order Code	Price Each
Blackfin EZ-Extender Board	ADZS-BF-EZEXT-1	**164-2823●**	155.66
Blackfin Audio EZ-Extender Board	ADZS-BFAUDIO-EZEXT	**164-2831●**	179.60
Blackfin FPGA EZ-Extender Board	ADZS-BFFPGA-EZEXT	**164-2833●**	244.16
Blackfin USB-LAN EZ-Extender Board	ADZS-USBLAN-EZEXT	**164-2836●**	179.60

ADSP BF537-Stamp Board

ANALOG DEVICES



The BF537 STAMP Board Support Package (BSP) provides developers with a cost effective environment to develop embedded systems with the Blackfin Processor. The STAMP BSP has been specifically designed to support the development and porting of open source uClinux applications and includes the full complement of memory along with serial and network interfaces.

Features:
- Linux OS based on uClinux 2.6.x, GPL license-compliant, complete kernel and driver source code
- GNU gcc (C/C++) support with gdb/kgdb debug capabilities over Ethernet and JTAG
- DAS U-Boot bootloader
- Complete Linux IP stack including standard protocols
- Device drivers for on board peripherals

493412

Mftrs. List No.	Order Code	Price Each 1+
ADZS-BF537-STAMP	**135-5150●**	186.57

Blackfin® Audio and Multimedia Starter Kits

ANALOG DEVICES

New



The Blackfin **audio starter kit** provides you everything you need to get started on an audio application. A developer can use the ADSP-BF537 evaluation kit and extender card(s) to perform audio related tasks, learn how to render audio streams using various off the shelf audio devices and from files available on PCs. The Blackfin **multimedia starter kit** provides you everything you need to get started on a multimedia application. A developer can use the Blackfin evaluation kit and extender card(s) to perform multimedia related tasks, learn how to render/capture video and audio streams using various off the shelf multimedia devices.

521977

Mftrs. List No.	Description	Order Code	Price Each
ADZS-BF533-MMSKIT	Blackfin Multimedia Starter Kit	**164-2826●**	672.36
ADZS-BF537-ASKIT	Blackfin Audio Starter Kit	**164-2827●**	563.43
ADZS-BF561-MMSKIT	Blackfin Multimedia Starter Kit	**164-2830●**	672.36

Blackfin Evaluation & Development Boards

BLUE TECHNIX



EVAL-BF5xx



DEV-BF5xxDA-LITE

The **EVAL-BF5xx** Blackfin Evaluation Board is designed for evaluating all Blackfin Core Modules and provides flexible interfaces user specific extensions. Besides connectors for all Core Module pins the EVAL-BF5xx Evaluation Board contains a SD-Card connector, CAN transceiver, USB and CAN Interface connectors.

EVAL-BF5xx Features:
- Socket for one Blackfin Core Module
- SD-Card socket
- USB (CM-BF537U only)
- CAN (CM-BF537E/U only)
- Ethernet (CM-BF537E only)
- USB-UART Interface
- JTAG Interface Connector
- All core board pins on expansion connector
- Dimensions: 75x75mm, 49 grams

The **DEV-BF5xxDA-Lite** Development Board is designed for evaluating and programming Blackfin based Core Modules. The integrated Debug Agent is a USB based debug interface which enables programming and debugging of the Blackfin Core Modules. The development boards provides all interfaces on dedicated connectors or expansion connectors. Extender boards can be plugged on top of the Development Board in order to enable additional interfaces. All Blackfin Core Modules have compatible connectors and can be replaced with each other.

DEV-BF5xxDA-Lit Features:
- Socket for one Blackfin Core Module
- On-Board Debug Agent (USB JTAG)
- 3.3V and 5V (1.5A) power supply
- Buttons and Leds
- USB-to-UART converter
- Ethernet connector
- USB2.0 connector (U-types only)
- CAN transceiver and connector
- SD-Card Socket
- JTAG Connector

496600

Mftrs. List No.	Description	Order Code	Price Each
EVAL-BF5XX	Blackfin Evaluation Board	**149-5608●**	121.49
DEV-BF5XXDA-LITE	Blackfin Development Board	**149-5609●**	380.21

Blackfin Core Modules

BLUE TECHNIX



CM-BF533



CM-BF537E



CM-BF561



TCM-BF537

RL Re-reeling available

The **CM-BF533** is a high performance and low power processor core module incorporating Analog Devices Blackfin family of processors. It is the lowest cost member of the Blackfin family and may be used as a very powerful co-processor or in a standalone application. The module allows easy integration into high demanding very space and power limited applications.

The **CM-BF537E** is the most complete member of the Blackfin processor familiy from Analog Devices and supports an on-board Ethernet function including a 10/100MBit physical transceiver as well as a CAN interface. The module allows easy integration into demanding and very space and power limited applications.

The **CM-BF561** Core Module provides an exceptional high performance at low power consumption with its symmetric dual core processor ADSP-BF561 from Analog Devices. A 32Bit wide SD-RAM bus as well as 2 PPI interfaces will avoid any data bottlenecks. The module allows easy integration into highly demanding very space and power limited applications.

The **TCM-BF537** is an ultra small Core Module designed for industrial temperature range and volume production. It combines Power Supply, RAM and FLASH into a module as small as a chip package. Two 60 pin expansion connectors allow quick prototyping. The module is also available with Border Pads (BP) or a Ball Grid Array (BGA) for low height integrations into the final product.

	CM-BF533	CM-BF537E	CM-BF561	TCM-BF537
Size (mm)	31.5x36.5	31.5x36.5	31.5x36.5	28x28
Processor	ADSP-BF533	ADSP-BF537	ADSP-BF561	ADSP-BF537
Clock Speed	600 Mhz	600 Mhz	600 Mhz	500 Mhz
RAM	32 MB	32 MB	64 MB	32 MB
FLASH	2 MB	4 MB	8 MB	8 MB
Crystal	25 MHz	25 MHz	25 MHz	25 MHz
Special IO	–	Ethernet MAC (Inc. phy)	–	Ethernet MAC
BGA support	168 balls			
2x60 Pin Connector	✓	✓	✓	✓
Temp. Range	0 to 70°C	0 to 70°C	0 to 70°C	-40 to +85°C

524977

Mftrs. List No.	Description	Order Code	Price Each
CM-BF533	Blackfin Core Processor Module	149-5593●	139.49
CM-BF537E	Blackfin Core Processor Module	149-5603●	164.23
CM-BF561	Blackfin Core Processor Module	149-5607●	164.23
TCM-BF537	Blackfin Core Processor Module	149-5606●	139.49

Blackfin® Embedded Processors

ADSP-BF531/ADSP-BF532/ADSP-BF533

The high performance 16-bit/32-bit Blackfin® embedded processor core, the flexible cache architecture, the enhanced DMA subsystem, and the dynamic power management (DPM) functionality make these devices suitable for a wide range of applications including consumer, communications, automotive, and industrial/instrumentation.

Common Features:

- Parallel Peripheral Interface supporting ITU-R 656 video data formats
- Two dual-channel, full-duplex synchronous serial ports supporting eight stereo I2S channels
- 12 DMA channels supporting one and two-dimensional data transfers
- Memory controller providing glueless connection to multiple banks of external SDRAM, SRAM, Flash, or ROM.
- Multiple timer/counters supporting PWM, pulsewidth, and event count modes
- UART with support for IrDA®
- SPI-compatible port
- Event handler
- Real-time clock
- Watchdog timer
- PLL capable of 1x to 63x frequency multiplication
- Industrial temperature range

Extra Features:

- BF535 - USB, PCI
- BF534 - CAN
- BF537/BF536 - CAN, 10/100 Ethernet MAC

429247

Mftrs. List No.	Pins/ Package	Instruction SRAM/Cache	Instruction SRAM	Data SRAM/Cache	Scratchpad	Maximum Performance	Order Code	Price Each 1+	10+	100+
Single Core										
ADSP-BF531SBBCZ400	160/BGA	16K bytes	16K bytes	16K bytes	4K bytes	400 MHz 800 MMACs	SMD116-2655●	13.64	10.84	9.63
ADSP-BF531SBSTZ400	176/LQFP	16K bytes	16K bytes	16K bytes	4K bytes	400 MHz 800 MMACs	SMD116-2657●	13.82	10.66	9.04
ADSP-BF532SBBCZ400	160/BGA	16K bytes	32K bytes	32K bytes	4K bytes	400 MHz 800 MMACs	SMD116-2658●	15.94	12.68	11.25
ADSP-BF532SBSTZ400	176/LQFP	16K bytes	32K bytes	32K bytes	4K bytes	400 MHz 800 MMACs	SMD116-2660●	12.60	10.95	9.49
ADSP-BF533SBBCZ500	160/BGA	16K bytes	64K bytes	32K bytes	4K bytes	500 MHz 1000 MMACs	SMD116-2661●	21.44	17.15	15.23
ADSP-BF533SBBZ500	169/PBGA	16K bytes	64K bytes	32K bytes	4K bytes	500 MHz 1000 MMACs	SMD116-2662●	24.73	19.80	17.58
ADSP-BF534BBCZ-4B	208/CSPBGA	16K bytes	48K bytes	32K bytes	4K bytes	400 MHz 800 MMACs	SMD143-9072●	17.32	13.86	12.31
ADSP-BF535PBBZ-200	260/PBGA	16K bytes	48K bytes	32K bytes	4K bytes	200 MHz 400 MMACs	SMD143-9074●	34.81	32.30	28.29
ADSP-BF536BBCZ-3A	182/CSPBGA	16K bytes	48K bytes	32K bytes	4K bytes	300 MHz 600 MMACs	SMD143-9075●	12.27	9.95	8.71
ADSP-BF537BBCZ-5A	182/CSPBGA	16K bytes	48K bytes	32K bytes	4K bytes	500 MHz 1000 MMACs	SMD143-8798●	20.19	16.66	14.81
ADSP-BF538BBCZ-5A	316/CSPBGA	16K bytes	64K bytes	32K bytes	4K bytes	533 MHz	SMD149-3927●	17.17	– –	– –
Dual Core										
ADSP-BF561SBBZ600	297/PBGA	16K bytes	16K bytes	32K bytes	4K bytes	600 MHz 2400 MMACs	SMD143-8799●	45.43	36.35	32.29

ADSP-21xx Processors

The ADSP-21xx family Processors share the same base architecture and algebraic assembly language. The simplicity of the assembly programming language is designed to make learning code, reading code, and using code easy.

488451

	Pins	Pkg	Clock Speed (MHz)	Program RAM (kWords)	Data RAM (kWords)	Serial Ports	Timers	Core Voltage (V)	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
2101	68	PLCC	25	2	1	2	1	5	ADSP-2101BPZ-100	SMD143-8763●	39.91	35.57	31.59
2105	68	PLCC	20	1	0.5	1	1	5	ADSP-2105BPZ-80	SMD143-8764●	20.47	16.27	14.45
2181	128	MQFP	33.3	16	16	2	1	5	ADSP-2181BSTZ-133	SMD143-8779●	43.70	34.99	31.08
2181	128	MQFP	33.3	16	16	2	1	5	ADSP-2181BSZ-133	SMD143-8780●	39.61	31.49	27.97
2181	128	LQFP	33.3	16	16	2	1	5	ADSP-2181KSTZ-133	SMD143-8781●	43.70	34.99	31.08
2181	128	LQFP	40	16	16	2	1	5	ADSP-2181KSTZ-160	SMD143-8782●	44.01	34.99	31.08
2181	128	MQFP	33.3	16	16	2	1	5	ADSP-2181KSZ-133	SMD143-8783●	39.34	31.49	27.97
2181	128	MQFP	40	16	16	2	1	5	ADSP-2181KSZ-160	SMD143-8784●	43.58	36.10	29.95
2183	128	LQFP	52	16	16	2	1	3.3	ADSP-2183KSTZ-210	SMD143-8786●	45.32	36.28	32.22
2184	100	LQFP	40	4	4	2	1	5	ADSP-2184BSTZ-160	SMD143-8787●	15.63	12.42	11.03
2185	100	LQFP	33.3	16	16	2	1	5	ADSP-2185BSTZ-133	SMD143-8788●	42.89	34.63	30.76
2185	100	LQFP	28.8	16	16	2	1	5	ADSP-2185KSTZ-115	SMD143-8789●	30.76	25.40	22.56
2185	100	LQFP	33.3	16	16	2	1	5	ADSP-2185KSTZ-133	SMD143-8790●	39.34	31.49	27.97

RL Re-reeling available

Farnell

Digital Signal Processing - ANALOG DEVICES - continued

ADSP-21xx Processors - continued

	Pins	Pkg	Clock Speed (MHz)	Program RAM (kWords)	Data RAM (kWords)	Serial Ports	Timers	Core Voltage (V)	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
2186	100	LQFP	28.8	8	8	2	1	5	ADSP-2186KSTZ-115	SMD 143-8791	23.07	19.05	16.92
2186	100	LQFP	33.3	8	8	2	1	5	ADSP-2186KSTZ-133	SMD 143-8792	25.38	20.96	18.60
2187	100	LQFP	52	32	32	2	1	3.3	ADSP-2187LBSTZ-210	SMD 143-8793	56.67	47.36	39.28
2187	100	LQFP	80	32	32	2	1	1.8	ADSP-2187NKSTZ-320	SMD 143-8794	26.68	22.04	19.59
2189	100	LQFP	75	32	48	2	1	2.5	ADSP-2189MKSTZ-300	SMD 143-8795	29.77	26.88	25.12
2189	100	LQFP	80	32	48	2	1	1.8	ADSP-2189NBSTZ-320	SMD 143-8796	38.81	31.06	27.59

SHARC Series Development Tool Bundle



The SHARC processor fits into a variety of applications from industrial control and instrumentation to audio to military to medical.

This SHARC Development Tool Bundle Includes:

VisualDSP++ Development Software for SHARC processors (VDSP-SHARC-PC-FULL)

- Fully integrated user interface including project management, debugging, profiling, plotting
- Support a variety of debug targets (emulation, simulation, compiled simulation, and 3rd party offerings)
- C/C++ compiler, assembler (with C data type support), expert linker, loader
- VisualDSP++ Kernel (VDK) with multiprocessor messaging capability
- Automation API and Automation Aware Scripting Engine
- Background Telemetry Channel (BTC) support with data streaming capability
- Profile-Guided Optimization (PGO)
- Multiple project management

High Performance USB-Based Emulator (ADZS-HP-USB-ICE)

- High speed USB 2.0 interface enabling download speeds of up to 1.5MB/sec
- Support for all ADI JTAG processors and DSPs
- Background Telemetry Channel support enabling non-intrusive data exchange at up to 2.0 MB/sec
- 1.8V, 2.5V, and 3.3V compliant and tolerant
- 5V tolerant and 3.3V compliant for 5V processors and DSPs
- Multiprocessor support
- 14-pin JTAG connector
- 3-meter USB cable for difficult-to-reach targets
- CE-certified

524013

Mftrs. List No.	Description	Order Code	Price Each
ADZS-SHARC-BUNDLE	SHARC Development Tool Bundle	164-7558	3,477.20

USB-Based Emulator and High Performance USB-Based Emulator



These Universal Serial Bus (USB)-based emulators provide a non-intrusive target-based debugging solution for Analog Device's processors and DSPs. The emulators include 3-meter cable for to connection to the host PC and employ plug-and-play architectures to allow automatic detection and configuration to be carried out by the host operating system.

Features:

- Full speed USB 1.1 interface or High speed USB 2.0 interface
- Background Telemetry Channel - (ADZS-HPUSB-ICE only)
- 1.8V, 2.5V, and 3.3V compliant and tolerant
- Support for all ADI JTAG processors and DSPs
- 5V tolerant and 3.3V compliant for 5V processors and DSPs
- Multiprocessor support
- 14-pin JTAG connector
- 3-meter USB cable for difficult-to-reach targets
- CE-certified

521958

Mftrs. List No.	Description	Order Code	Price Each
ADZS-HPUSB-ICE	High Performance USB-Based Emulator	164-2834	2,707.44
ADZS-USB-ICE	USB-Based Emulator	164-2835	901.49

VisualDSP++ Development Software



This software is an easy-to-use integrated development and debugging tool. The software will enable efficient management of digital signal processing (DSP) applications from start to finish using a single interface

Features:

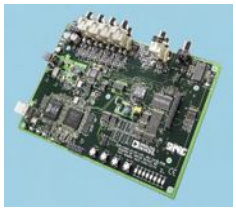
- Fully integrated user interface including project management, debugging, profiling, plotting
- Support a variety of debug targets (emulation, simulation, compiled simulation, and 3rd party offerings)
- C/C++ compiler, assembler (with C data type support), expert linker, loader
- VisualDSP++ Kernel (VDK) with multiprocessor messaging capability
- Automation API and Automation Aware Scripting Engine
- Background Telemetry Channel (BTC) support with data streaming capability
- Profile-Guided Optimization(PGO)
- TCP/IP & USB Support and Processor configuration/Start-up code wizard (Blackfin processors)
- Multiple project management (SHARC and TigerSHARC processors)

521954

Mftrs. List No.	Description	Order Code	Price Each
VDSP-BLKFN-PC-FULL	VisualDSP++ Development Software	164-2837	2,769.35

EZ-KIT Lite Evaluation Kit

For the ADSP-21262 SHARC® Processor



The ADSP-21262 EZ-KIT Lite™ provides developers with a cost-effective method for initial evaluation of the ADSP-21262 SHARC® DSP architecture via a USB-based, PC-hosted tool set. With this EZ-KIT Lite, users can learn more about Analog Devices ADSP-21262 hardware and software development and quickly prototype a wide range of applications.

The EZ-KIT Lite includes an ADSP-21262 Processor desktop evaluation board along with an evaluation suite of the VisualDSP++ development and debugging environment with the C/C++ compiler, assembler, and linker. VisualDSP++ development and debugging software, along with the USB-based debugger interface, enables users to perform standard debugging functions (such as read and write memory, read and write registers, load and execute executables, set and clear breakpoints, and single-step assembly, C, and C++ source code).

Features:

- ADSP-21262 SHARC® Processor
- 1M x 8-bit Flash memory
- 512K x 8-bit SRAM
- 512 Kbit SPI Flash memory
- AD1835 stereo, 96 kHz, 24-Bit Sigma Delta Codec
- 4x2 RCA jack for 4 channels of stereo audio output
- 1x2 RCA jack for 1 channel of stereo audio input
- Headphone jack (connected to 1 of the stereo outputs)

512095

Mftrs. List No.	Description	Order Code	Price Each
ADZS-21262-EZLITE	EZ-KIT Lite Evaluation Kit for ADSP-21262 SHARC® Processor	160-8852	360.67

EZ-KIT Lite Evaluation Kit

For the ADSP-21364 SHARC® Processor



The ADSP-21364 EZ-KIT Lite provides developers with a cost-effective method for initial evaluation of the ADSP-21364 SHARC® Processor architecture via a USB-based, PC-hosted tool set. With this EZ-KIT Lite, users can learn more about Analog Devices' ADSP-21364 hardware and software development and quickly prototype a wide range of applications.

The EZ-KIT Lite includes an ADSP-21364 SHARC Processor desktop evaluation board along with an evaluation suite of the VisualDSP++® development and debugging environment including the C/C++ compiler, assembler, and linker. The evaluation suite of VisualDSP++ is designed to be used with the EZ-KIT Lite only.

Features:

- ADSP-21364 SHARC® Processor
- 1M x 8-bit FLASH memory
- 512K x 8-bit SRAM
- 512 Kbit SPI® FLASH memory
- AD1835 stereo, 96 kHz, 24-bit codec
- USB-based debugger interface

512096

Mftrs. List No.	Description	Order Code	Price Each
ADZS-21364-EZLITE	EZ-KIT Lite Evaluation Kit for the ADSP-2136x SHARC® Processor Family	160-8853●	360.67

EZ-KIT Lite Evaluation Kit

For the ADSP-21369 SHARC® Processor



The ADSP-21369 EZ-KIT Lite® provides developers with a cost-effective method for initial evaluation of the ADSP-21367, ADSP-21368 and/or ADSP-21369 SHARC® Processor architecture via a USB-based, PC-hosted tool set. With this EZ-KIT Lite, users can learn more about Analog Devices' ADSP-21369 hardware and software development and quickly prototype a wide range of applications.

The EZ-KIT Lite includes an ADSP-21369 SHARC Processor desktop evaluation board along with an evaluation suite of the VisualDSP++® development and debugging environment including the C/C++ compiler, assembler, and linker. The evaluation suite of VisualDSP++ is designed to be used with the EZ-KIT Lite only.

Features:

- ADSP-21369 SHARC Processor
- AD1835 stereo, 96 kHz, 24-bit codec
- 1M x 8-bit FLASH memory
- 1M x 32-bit x 4 banks SDRAM
- 512K x 8-bit SRAM
- 2 Mbit SPI FLASH memory
- ADM3202 RS-232 driver/receiver
- USB-based debugger interface
- Evaluation suite of VisualDSP++ development tools

512097

Mftrs. List No.	Description	Order Code	Price Each
ADZS-21369-EZLITE	EZ-KIT Lite Evaluation Kit for ADSP-21369 SHARC® Processor	160-8854●	360.67

EZ-KIT Lite Evaluation Kit

For the ADSP-2137x SHARC® Processors



The ADSP-21375 EZ-KIT Lite® provides developers with a cost-effective method for initial evaluation of the ADSP-2137x SHARC® Processors via a USB-based, PC-hosted tool set. With this EZ-KIT Lite, users can learn more about the Analog Devices ADSP-2137x hardware and software development tools, and quickly prototype a wide range of applications.

The EZ-KIT Lite includes an ADSP-21375 SHARC Processor desktop evaluation board along with an evaluation suite of the VisualDSP++® development and debugging environment, including the C/C++ compiler, assembler, and linker. The evaluation suite of VisualDSP++ is designed to be used with the EZ-KIT Lite only.
Additionally, this kit contains the National Instruments Educational Laboratory Virtual Instrumentation Suite (ELVIS) interface. This interface will allow using the DC voltage and current measurement modules, oscilloscope and bode analyzer modules, function generator, arbitrary waveform generator and digital I/O. NI ELVIS is a LabVIEW-based design and prototype environment for university science and engineering laboratories curriculum.

Features:

- ADSP-21375 SHARC® Processor
- 1M x 8-bit FLASH memory
- 8M x 16-bit (167MHz) SDRAM
- 2Mbit SPI® FLASH memory
- AD1835 stereo, 96 kHz, 24-bit codec
- USB-based debugger interface
- Evaluation suite of VisualDSP++ development tools

512098

Mftrs. List No.	Description	Order Code	Price Each
ADZS-21375-EZLITE	EZ-KIT Lite Evaluation Kit for the ADSP-2137x SHARC® Processors	160-8855●	400.74

See the range of **SG-310 Clock Oscillators** from Epson Toyocom on page 263

SHARC DSP Micros

SHARC® Processors are based on a Super Harvard architecture that balances exceptional core and memory performance with outstanding I/O throughput capabilities.

Common Architectural Features

- 32/40-Bit IEEE Floating-Point Math
- 32-Bit Fixed-Point Multipliers with 64-Bit Product & 80-Bit Accumulation
- No Arithmetic Pipeline; All Computations Are Single-Cycle
- Circular Buffer Addressing Supported in Hardware
- 32 Address Pointers Support 32 Circular Buffers
- Six Nested Levels of Zero-Overhead Looping in Hardware
- Rich, Algebraic Assembly Language Syntax
- Instruction Set Supports Conditional Arithmetic, Bit Manipulation, Divide & Square Root, Bit Field Deposit and Extract
- DMA Allows Zero-Overhead Background Transfers at Full Clock Rate Without Processor Intervention

210934

	Pins	Pkg	Clock Speed (MHz)	SRAM	ROM	Serial Ports	Core Voltage (V)	Mftrs. List No.	Order Code	Price Each 1+
21060	240	CQFP	40	4 Mbit	–	1	3.3	ADSP-21060LCWZ-160	SMD 143-8767●	451.47
21061	240	MQFP	40	1 Mbit	–	2	5	ADSP-21061KSZ-160	SMD 143-8768●	42.60
21061	240	MQFP	40	1 Mbit	–	2	3.3	ADSP-21061LKSZ-160	SMD 143-8769●	28.03
21062	240	MQFP	33	2 Mbit	–	2	5	ADSP-21062KSZ-133	SMD 143-8770●	74.92
21062	225	BGA	40	2 Mbit	–	2	3.3	ADSP-21062LKBZ-160	SMD 143-8771●	107.21
21062	240	MQFP	40	2 Mbit	–	2	3.3	ADSP-21062LKSZ-160	SMD 143-8772●	97.92
21065	208	MQFP	60	0.5 Mbit	–	2	3.3	ADSP-21065LKSZ-240	SMD 960-3930●	23.68
21065	208	MQFP	60	0.5 Mbit	–	2	3.3	ADSP-21065LCSZ-240	SMD 143-8774●	32.36
21065	196	CSPBGA	60	0.5 Mbit	–	2	3.3	ADSP-21065LKCAZ240	SMD 143-8775●	37.85
21065	196	CSPBGA	66	0.5 Mbit	–	2	3.3	ADSP-21065LKCAZ264	SMD 143-8776●	28.61
21261	144	LQFP	150	1 Mbit	3 Mbit	1	1.2	ADSP-21261SKSTZ150	SMD 143-9060●	6.57
21262	144	LQFP	200	2 Mbit	4 Mbit	6	1.2	ADSP-21262SKSTZ200	SMD 143-9061●	17.66
21362	144	LQFP	333	3 Mbit	4 Mbit	6	1.2	ADSP-21362BSWZ-1AA	SMD 143-9062●	21.66
21363	144	LQFP	333	3 Mbit	4 Mbit	6	1.2	ADSP-21363BSWZ-1AA	SMD 143-9064●	26.15
21363	144	LQFP	333	3 Mbit	4 Mbit	6	1.2	ADSP-21363KSWZ-1AA	SMD 143-9065●	19.59
21364	144	LQFP	333	3 Mbit	4 Mbit	6	1.2	ADSP-21364BSWZ-1AA	SMD 143-9067●	38.45
21364	144	LQFP	333	3 Mbit	4 Mbit	6	1.2	ADSP-21364KSWZ-1AA	SMD 143-9068●	32.53

TigerSHARC Processors

Targeted at numerous signal processing applications that rely on multiple processors working together to execute computationally-intensive real-time functions, ADI's TigerSHARC processor is well-suited to video and communication markets, including the 3G cellular and broadband wireless base stations, as well as defense, medical imaging, industrial instrumentation. The ADSP-TS101S features a static superscaler architecture which combines RISC, VLIW and standard DSP functionality. Native support of fixed and floating point data types.

488660

	Pins	Pkg	Clock Speed (MHz)	MMACS	Supply Voltage (V)	On-Chip Memory (Mb)	Timers	Link Ports	External Memory Support	Mftrs. List No.	Order Code	Price Each 1+	10+	+
101	625	BGA	250	2000	3.3	6	2	4	Async, SDRAM	ADSP-TS101SAB1Z000	SMD 143-9076●	209.90	– –	– –
101	484	BGA	250	2000	3.3	6	2	4	Async, SDRAM	ADSP-TS101SAB2Z000	SMD 143-9077●	176.31	– –	– –
202	576	SBGA	500	4000	2.5	12	2	4	Async, SDRAM	ADSP-TS202SABPZ050	SMD 143-8800●	199.89	186.91	– –
203	576	SBGA	500	4000	2.5	4	2	2	Async, SDRAM	ADSP-TS203SABPZ050	SMD 143-8801●	175.82	164.41	– –

RL Re-reeling available

Digital Signal Processing - ANALOG DEVICES - continued

SigmaDSP® 28-/56-Bit Audio Processors

SigmaDSP™ allows designers to use the SigmaStudio graphical tool with an audio digital signal processor without assembly or C coding.

488823

Mftrs. List No.	Pins/ Package	Instructions/ Cycle	DNR	THD+N	Digital I/O Ch.	Analog I/O Ch. (ADCs/DACs)	Order Code	Price Each 1+	10+	100+
ADAU1701JSTZ	48/LQFP	1024	ADC:100, DAC:104	ADC:-83, DAC:-90	8/8	2/4	SMD 149-8728●	8.41	6.08	4.79
ADAU1702JSTZ	48/LQFP	512	ADC:100, DAC:104	ADC:-83, DAC:-90	8/8	2/4	SMD 149-8729●	6.63	4.80	3.79

Digital Signal Processing - FREESCALE

56300 24-Bit Symphony™ Audio DSP Family

The Symphony family of digital signal processors (DSPs) is designed to meet the demands of audio electronics system designers by integrating audio peripherals and by supporting the latest generation decoders, such as Dolby, ®THX® and DTS®. The 56300 Symphony DSP Family and Utilises the single-instruction-per-clock-cycle DSP56300 core, while retaining code compatibility with the DSP56000 core family.

Target Markets:

● **Automotive**
External amplifiers
Radio head units
Rear-seat entertainment

● **Consumer**
A/V receivers
DVD receivers
Ministereo systems
Digital TVs

● **Professional audio**
Professional studio recording equipment
Cinema sound systems
Concert sound systems
Musical instruments

428998

Mftrs. List No.	Pins/ Package	Performance	ROM / RAM X (Kwords)	ROM / RAM Y (Kwords)	ROM / RAM (Kwords)	Memory Interfaces	Order Code	Price Each 1+	10+	100+
DSPB56371AF180	80/LQFP	181MHz	32 / 36	32 / 48	64 / 4	SRAM, DRAM	NEW SMD 157-9748●	12.98	9.98	8.64

Digital Signal Processing - TEXAS INSTRUMENTS

OMAP35x Evaluation Module



Featuring the OMAP35x high-performance Superscalar ARM® Cortex™-A8 with NEON co-processing this EVM will allow developers to evaluate and jumpstart development. Equipped with daughter card expansion connections, the OMAP35x EVM can be used to prototype complete systems and is upgradeable to support future OMAP35x processors.
The OMAP35x Evaluation Module includes the following hardware components:

- OMAP35x-based Target Board Processor
- 128 MB LPDDR/128 MB oneNAND Flash or similar capacity and function
- Touch screen LCD display w/ stylus
- Landscape/Portrait modes
- International Power supply with EURO and US power cords
- Serial and USB cables

527547

Mftrs. List No.	Description	Order Code	Price Each
TMDXEVM3503	OMAP35x Evaluation Module	167-6436▲	1,008.68

OMAP5912 Starter Kit



The OMAP5912 Starter Kit for Portable Data Terminals is a low cost, easy to use, convenient way of evaluating the features of the OMAP5912 Processor in next generation PDT devices. The kit includes a development board, and a collection of board and chip specific libraries as well as a suite of development tools for Linux with an OMAP5912 specific Linux kernel. The kit allows users to get started on a portable data terminal-based application and device development.

Hardware Features:

- ARM9 core operating at 192 MHz
- DSP core operating at 192 MHz
- TLV320AIC23 Stereo Codec
- 32 Mbyte DDR SDRAM
- 32 Mbyte Flash ROM
- 4 Expansion connectors (bottom side)
- RS-232 Serial Port
- 10 MBPS Ethernet port
- USB Host Port
- Compact flash connector
- On board IEEE 1149.1 JTAG connector for optional emulation
- +5 Volt operation

527546

Mftrs. List No.	Description	Order Code	Price Each
TMDSOSK5912-0E	OMAP5912 Starter Kit	167-6435▲	212.17

F2812 eZdsp™ Starter Kit(DSK)

The F2812 eZdsp™ is a stand alone module that lets evaluators examine certain characteristics of the F2812 digital signal processor (DSP) to determine if this DSP meets their application requirements. This module has a single chip parallel port to JTAG scan controller. Therefore the module can be operated without additional development tools such as an emulator. The module also provides an excellent platform to develop, demonstrate, and run software for the F2812 processor.

Features:

- TMX320F2812 Digital Signal Processor
- 18K words RAM
- 128K words on chip Flash ROM
- 64K words on board RAM
- Expansion connectors
- Onboard embedded IEEE 1149.1 JTAG controller
- 5 Volt only operation with supplied adapter
- Onboard IEEE 1149.q JTAG emulation
- Code Composer Studio v2.12 (eZdsp version).

339877

Mftrs. List No.	Order Code	Price Each
TMDSEZD2812-0E	509-9249	365.46

C5416 DSP Starter Kit (DSK)

The TMS320C5416 DSP starter kit (DSK) is a low-cost development platform designed to speed the development of power-efficient applications based on TI's TMS320C54x DSPs. The kit, which provides new performance-enhancing features such as USB communications and true plug-and-play functionality, gives both experienced and novice designers an easy way to get started immediately with innovative product designs.
The C5416 DSK offers the ability to detect, diagnose and correct DSK communications issues, download and step through code faster and get a higher throughput with Real Time Data Exchange, RTDX™

Features:

- Embedded JTAG support via USB
- High-quality 16-/20-bit stereo codec
- Four 3.5mm audio jacks for microphone, line in, speaker and line out
- 256K words of Flash and 64K words RAM
- Expansion port connector for plug-in modules
- On-board standard JTAG interface
- +5V universal power supply

Contents:

- C5416 DSP Development Board
- C5416 DSK Code Composer Studio™ v2.1 IDE
- Quick Start Guide, Technical Reference and Customer Support Guide
- USB Cable
- Universal Power Supply
- AC Power Cords

339876

Mftrs. List No.	Order Code	Price Each
TMDSDSK5416-0E	509-9237	337.54

TMS320C6713 DSP Starter Kit (DSK)

The TMS320C6713 DSP Starter Kit (DSK) developed jointly with Spectrum Digital is a low-cost development platform designed to speed the development of high precision applications based on TIś TMS320C6000 floating point DSP generation. The kit uses USB communications for true plug-and-play functionality. Designers can get started immediately with innovative product designs with the DSKś full featured Code Composer Studio v2.2 IDE and eXpressDSP Software which includes DSP/BIOS and Reference Frameworks. The C6713 is based on the TMS320C6000 DSP platform designed to meet the needs of high-performing high-precision applications such as pro-audio, medical and diagnostic.

RL Re-reeling available

Features:
- TMS320C6713 DSP, a 225 MHz device delivering up to 1800 million instructions per second
- Embedded JTAG support via USB
- High-quality 24-bit stereo codec
- Four 3.5mm audio jacks for microphone, line in, speaker and line out
- 512K words of Flash and 8 MB SDRAM
- Expansion port connector for plug-in modules
- On-board standard IEEE JTAG interface
- +5V universal power supply
- Code Composer Studio complete Integrated Development Environment (IDE), an efficient optimizing C/C++ compiler assembler, linker, debugger, an a advanced editor.
- DSP/BIOS™real-time kernel
- Target error recovery software
- DSK diagnostic tool

Contents:
- C6713 DSP Development Board with 512K Flash and 8MB SDRAM
- C6713 DSK Code Composer Studio™ v2.2 IDE including the Fast Simulators and access to Analysis Toolkit on Update Advisor
- Quick Start Guide, Technical Reference and Customer Support Guide
- USB Cable and Universal Power Supply
- AC Power Cords
- MATLAB from The Mathworks 30 day free evaluation

339878

Mftrs. List No.	Order Code	Price Each
TMDSDSK6713-0E	**509-9250**	365.46

TMS320C6416 DSP Starter Kit



The TMS320C6416 DSP Starter Kit (DSK) is a low-cost development platform designed to speed the development of high performance applications based on TI's TMS320C64x DSP generation. Both experienced and novice designers can get started immediately with innovative product designs with the DSK's full featured Code Composer Studio™ IDE and eXpressDSP™ Software which includes DSP/BIOS and Reference Frameworks.

TMS320C6416 DSK board Features:
- Embedded JTAG support via USB
- High-quality 24-bit stereo codec
- Four 3.5mm audio jacks for microphone, line in, speaker and line out
- Expansion port connector for plug-in modules
- On-board standard IEEE JTAG interface

Code Composer Studio Features:
- A complete Integrated Development Environment (IDE), an efficient optimising C/C++ compiler assembler, linker, debugger, data visualisation, a profiler, advanced optimisation tools, and a flexible project manager
- DSP/BIOS™ real-time kernel
- Target error recovery software
- DSK diagnostic tool
- "Plug-in" ability for third-party software for additional functionality

Kit Includes
- C6416 1 GHz DSP Development Board with 512K Flash and 16MB SDRAM
- C6416 DSK Code Composer Studio™ IDE including the Fast Simulators and access to Analysis Toolkit on Update Advisor
- Quick Start Guide
- USB Cable
- Power Supply
- MATLAB from The Mathworks 30 day free evaluation

429435

Mftrs. List No.	Order Code	Price Each
TMDSDSK6416-TE	**117-2237**	447.51

DM6446 Digital Video Evaluation Module



This Digital Video Evaluation Module allows the user to evaluate TI's new DaVinci™ Technology, and begin building digital video applications such as videophones, automotive infotainment, digital still camera's, streaming media, IP set-top boxes and video security systems. It also allows developers to write production-ready application code for the ARM and provides access to the DSP core using DaVinci APIs to begin immediate application development for the TMS320DM6443 and TMS320DM6446 digital media processors.

Kit Contents:
- TMS320DM446 DaVinci™ processor-based development board
- Video Camera
- LCD Screen, Speakers and Microphone
- IR Remote
- Hard Disk Drive (2.5-inch 40G)

492689

Mftrs. List No.		Order Code	Price Each
TMDSEVM6446-0E.	Digital Video Evaluation Module	**133-4041**	1,702.61

Digital Media System-on-Chip (DMSoC)

TMS320DM355

New

These Digital Media System-on-Chips are highly integrated, programmable platforms for digital still camera, digital photo frames, IP security cameras, 4-channel digital video recorders, and other low cost portable digital video applications.
They offer portable video designers and manufacturers the ability to produce portable digital video solutions with high picture quality, by combining high performance MPEG4 HD codecs, JPEG codecs and low power consumption.

521682

Pins/Pkg	Frequency	RAM	Cache	Mftrs. List No.	Order Code	Price Each 1+	Price Each 10+
337 / BGA216	MHz	32KB	16KB	TMX320DM355ZCE216	SMD **155-5290**▲	18.95	14.56
337 / BGA270	MHz	32KB	16KB	TMX320DM355ZCE270	SMD **155-5291**▲	22.41	17.23

C2000 Code Composer Studio™

New

Code Composer Studio™ (CCStudio) Development Tools are a key element of the eXpressDSP™ Software and Development Tools. CCStudio delivers all of the host tools and runtime software support for your TMS320™ DSP based real-time embedded application.
CCStudio's easy to use development environment allows DSP designers of all experience levels to move quickly through each phase of the application development process including design, code and build, debug, analyze and optimize.

Software Features:
- Real-time analysis capabilities
- Easy to use debugger
- C/C++ Compiler
- Assembler
- Linker
- Editor
- Visual project manager
- Simulators
- XDS560 and XDS510 emulation drivers
- DSP/BIOS support

518665

Mftrs. List No.	Description	Order Code	Price Each
TMDSCCS2000-1	C2000 Code Composer Studio™	**161-0185**	358.49

F2808 eZdsp™ Starter Kit



The F2808 eZdsp™ Starter Kit provides a platform to develop, demonstrate, and run software for the TMS320F2808 digital signal controller. Plug-and-play functionality enables both experienced and novice designers to get started immediately.

Hardware Features:
- TMS320F2808 at 100MHz, socketed
- 18K on-chip zero wait-state SARAM
- 256K bit I2C EEPROM
- 20MHz input clock to TMS320F2808
- On-board embedded JTAG emulation with USB host connection
- Support for external emulator via standard JTAG header
- 2 SCI ports with on-board transceivers. One port pinned out to standard 9 pin DSUB.
- 2 Enhanced CAN ports with on-board transceivers. One port pinned out to standard 9 pin DSUB.
- Boot mode selection switches

Software Features:
- Code Composer Studio for eZdsp
- F2808 eZdsp Diagnostics Utility
- Host and target source for Diagnostics, POST, and EEPROM programming

Kit Contents:
- F2808 eZdsp Board
- Power supply and USB cable

429484

Mftrs. List No.	Order Code	Price Each
TMDSEZS2808-0E	**117-2238**	363.00

TMS320F24x Digital Signal Controllers

The **TMS320F241** & **TMS320F243** devices are members of the 24x generation of digital signal processor (DSP) controllers based on the TMS320C2000™ platform of 16-bit fixed-point DSPs. The F243 is a superset of the F241.

The **TMS320F240** (F240) device is a member of a family of DSP controllers based on the TMS320C2xx generation of 16-bit fixed-point digital signal processors. This family is optimized for digital motor/motion control applications.

The **TMS320LF240xA** devices are new members of the TMS320C24x™ generation of digital signal processor (DSP) controllers & part of the TMS320C2000™ platform of fixed-point DSPs. The 240xA devices offer the enhanced TMS320™ DSP architectural design of the C2xx core CPU for low-cost, low-power, and high-performance processing capabilities.

Digital Signal Processing - TEXAS INSTRUMENTS - continued

TMS320F24x Digital Signal Controllers - continued

522139

Pins/Pkg	Peak MMACS	Frequency	RAM	FLASH	EMIF	PWM	CAP/QEP	ADC	Mftrs. List No	Order Code	Price Each 1+	10+	100+
68/PLCC	20	20MHz	1KB	16KB	–	8-Ch	3/2	8-Ch. 10-Bit	TMS320F241FN	SMD 121-2856●	10.05	8.30	7.81
144/PQFP	20	20MHz	1KB	16KB	1 16-Bit	8-Ch	3/2	8-Ch. 10-Bit	TMS320F243PGE	SMD 120-2014●	14.26	11.77	10.46
132/PQFP	20	20MHz	1KB	32KB	1 16-Bit	12-Ch	4/2	16-Ch. 10-Bit	TMS320F240PQG4	SMD 120-2013●	21.71	17.48	16.22
64/TQFP	40	40MHz	2KB	32KB	–	8-Ch	3/2	8-Ch. 10-Bit	TMS320LF2403APAGA	SMD 110-3122●	12.24	9.39	7.97
100/LQFP	40	40MHz	5KB	64KB	–	16-Ch	6/4	16-Ch. 10-Bit	TMS320LF2406APZA	SMD 110-3123●	12.39	9.51	8.06
144/LQFP	40	40MHz	5KB	64KB	1 16-Bit	16-Ch	6/4	16-Ch. 10-Bit	TMS320LF2407APGEA	SMD 110-3124●	13.14	10.08	8.55

TMS320F28xx Digital Signal Controllers

The TMS320F280x™ generation of digital signal controllers offer 60 to 100 MIPS of 32-bit DSP performance, flash memory and are targeted to industrial automation, digital power supplies, automotive control, and advanced sensing applications. The C28x core offers the computational bandwidth to handle numerous sophisticated control algorithms in real-time, such as sensorless speed control, random PWM, and power factor correction. The F280x C code-efficiency rivals typical MCUs and is fully code compatible with current devices in the C2000 platform. F280x devices also implement up to 16 channels of TI's unique high-resolution pulse width modulation (HRPWM) technology, each with 150 pico-second resolution. The TMS320F281x generation of digital signal processor devices are highly integrated, high-performance solutions for demanding control applications.

522176

Pins/Pkg	Peak MMACS	Frequency	RAM	OTP ROM	FLASH	PWM	CAP/QEP	ADC	Mftrs. List No	Order Code	Price Each 1+	10+	100+
100/LQFP	100	100MHz	12KB	2KB	32KB	8-Ch	2/1	16-Ch. 12-Bit	TMS320F2801PZA	SMD 117-2216●	8.61	6.60	5.60
100/LQFP	60	60MHz	12KB	2KB	32KB	8-Ch	2/0	16-Ch. 12-Bit	TMS320F28016PZA	NEW SMD 155-5292●	4.66	3.59	3.07
100/LQFP	100	100MHz	36KB	2KB	128KB	16-Ch	4/2	16-Ch. 12-Bit	TMS320F2808PZA	SMD 117-2218●	15.50	12.33	10.95
100/BGA	100	100MHz	36KB	2KB	256KB	16-Ch	4/2	16-Ch. 12-Bit	TMS320F2809GGMA	NEW SMD 155-5293▲	17.22	13.25	11.37
100/LQFP	100	100MHz	36KB	2KB	256KB	16-Ch	4/2	16-Ch. 12-Bit	TMS320F2809PZA	NEW SMD 155-5294●	17.22	13.25	11.60
100/LQFP	60	60MHz	12KB	2KB	32KB	8-Ch	2/0	16-Ch. 12-Bit	TMS320F28015PZA	NEW SMD 164-9465●	4.26	3.28	2.70
128/LQFP	150	150MHz	36KB	2KB	256KB	16-Ch	6/2	16-Ch. 12-Bit	TMS320F2811PBKQ	NEW SMD 164-9466●	24.52	18.85	15.52

Floating Point & Fixed Point Digital Signal Processors

A fixed-point processor is a processor that does arithmetic operations using integer arithmetic with no exponents. Devices in the TMS320 DSPfamily which have fixed-point processors are the '**C20x**, '**C24x**, '**C5x**, '**C54x**, and '**C62x** generations.
A floating-point processor is a processor capable of handling floating-point arithmetic where real operands are represented using exponents.Devices in the TMS320 DSP family that have floating-point processors are the 'C3x, 'C4x, and 'C67x generations.

522287

Pins/Pkg	Peak MMACS	Frequency	RAM	ROM	External Memory Type Supported	Mftrs. List No	Order Code	Price Each 1+	10+	100+
Fixed Point										
144/TQFP	100	100MHz	32KB	8KB	Async	TMS320VC5402PGE100	SMD 121-4352●	7.94	6.09	5.17
144/TQFP	100	100MHz	64KB	32KB	Async	TMS320VC549PGE-100	SMD 121-4396●	30.61	26.96	26.27
144/LQFP	160	160MHz	32KB	32KB	Async	TMS320VC5402APGE16	SMD 121-4440●	12.33	10.17	9.04
144/LQFP	160	160MHz	64KB	32KB	Async	TMS320VC5409APGE16	NEW SMD 161-0189●	13.70	12.74	11.28
144/LQFP	160	160MHz	256KB	32KB	Async	TMS320VC5416PGE160	NEW SMD 161-0191●	27.51	25.54	22.63
144/LQFP	200	100MHz	512KB	8KB	Async	TMS320VC5421PGE200	SMD 154-6885●	62.07	54.63	53.80
144/LQFP	400	200,144,108MHz	256KB	64KB	Async SRAM, EPROM, SDRAM	TMS320VC5509APGE	SMD 117-2222●	19.85	15.78	14.02
288/BGA	400	200MHz	128KB	–	SDRAM, SBRAM, SRAM, EPROM	TMS320C6204ZHK200	SMD 120-2018●	11.04	8.99	7.86
179/BGA	400	200MHz	256KB	64KB	Async SRAM, EPROM, SDRAM	TMS320VC5509AGHH	NEW SMD 161-0194▲	15.19	14.12	13.03
176/LQFP	600	300MHz	64KB	32KB	Async SRAM, EPROM, SDRAM, SBRAM	TMS320VC5502PGF300	NEW SMD 161-0192●	8.54	7.93	7.47
288/FCBGA	2400	600MHz	512KB	–	SRAM, EPROM, SDRAM, SBSRAM	TMS320C6418ZTS600	NEW SMD 161-0186●	42.05	40.94	39.90
Floating Point										
144/LQFP	–	–	136KB	–	–	TMS320VC33PGE-120	SMD 121-4395●	22.73	16.16	13.82
144/HTQFP	400	200MHz	64KB	384KB	SDRAM, Async NOR Flash, SRAM, NAND Flash	TMS320C6720BRFP200	NEW SMD 155-5284●	8.64	6.64	5.40
144/HTQFP	400	200MHz	128KB	384KB	SDRAM, Async NOR Flash, SRAM, NAND Flash	TMS320C6722BRFP200	NEW SMD 155-5286●	12.77	9.82	8.43
208/TQFP	400	200MHz	–	–	SRAM, EPROM, FLASH, SDRAM, SBRAM	TMS320C6713BPYP200	SMD 121-4441●	24.26	19.29	17.13
144/TQFP	400	200MHz	256KB	384KB	SDRAM, Async NOR Flash, SRAM, NAND Flash	TMS320C6722RFP200	SMD 117-2223●	7.86	7.68	7.47
272/PBGA	400	200MHz	–	–	SRAM, EPROM, SDRAM, SBRAM	TMS320C6711DZDP200	NEW SMD 161-0187●	15.80	14.69	13.55
144/TQFP	450	225MHz	128KB	384KB	SDRAM, Async NOR Flash, SRAM, NAND Flash	TMSDC6722BRFPA225	NEW SMD 155-5288●	14.82	11.41	9.27
144/TQFP	500	225MHz	256KB	384KB	SDRAM, Async NOR Flash, SRAM, NAND Flash	TMSDC6726BRFPA225	NEW SMD 155-5289●	19.14	14.73	11.96
144/HTQFP	500	250MHz	128KB	384KB	SDRAM, Async NOR Flash, SRAM, NAND Flash	TMS320C6722BRFP250	NEW SMD 155-5287●	14.82	11.41	9.27

DSP56300 Family of 24-Bit Digital Signal Processors

The Freescale DSP56300 family of digital signal processors uses a programmable, 24-bit, fixed-point core. This core is a high-performance, single-clock-cycle-per-instruction engine. The combination of powerful instruction set, multiple internal buses, DMA channels, on-chip program and data memories, external buses, standard peripherals, and power management of the DSP56300 family make it an excellent solution for wireless or wireline DSP applications from individual subscriber to infrastructure, as well as multimedia and high-end audio applications.

DSP56300 Core Features:

- 100 million multiply-accumulates per second (MMACS) with a 100 MHz clock
- Fully pipelined 24 x 24-bit parallel multiplier-accumulator (MAC)
- 56-bit parallel barrel shifter
- 24-bit or 16-bit arithmetic support under software control
- On-chip instruction cache controller
- On-chip concurrent six-channel DMA controller
- On-chip emulation (OnCE) module
- JTAG test access port (TAP)
- Address Tracing mode reflects internal accesses at the external port

428934

Mftrs. List No.	Pins/ Package	Data Memory (kByte)	Interfaces	RAM (kByte)	Lines	Timers	Interfaces	Voltage (V)	Order Code	Price Each 1+	10+	100+
DSP56321VL275	196/MAPBGA	1500	SRAM, SDRAM	576	34	3	ESSI, SCI	1.6	NEW SMD 157-9747●	60.37	46.43	38.20
DSP56321VL240	196/BGA	2x 256	SRAM, SDRAM	576	34	3	ESSI, SCI	1.6	NEW SMD 165-9656●	67.50	– –	– –

General Purpose Microprocessor Support ICs

210825

Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	25+	100+	300+
Baud Rate Generators									
4702 INTS	16	DIP	CMOS Programmable Baud Rate Generator, 14 baud rates, uses 2.4576MHz xtal.	HD3-4702-9	390-823▲	6.62	5.90	4.80	4.41

Real Time Clocks

MAXIM

A - Time of Day WU - Wake-up P - Periodic RC - RAM Clear STD - (HH:MM:SS)
WD - Watchdog KS - Kickstart U - Update in Progress CR - Century Register STD+hh (HH:MM:SS + hundredths)

*** Y2K compatible (2 digit counter, software required to calculate century value)**
**** Y2K compliant (4 digit counter, no software intervention necessary)**

210884

Mftrs. List No.	Pins	Pkg	Type	Power Options	Clock Format	Calendar Format	User RAM (Bytes)	Interupts	Bus Type	Order Code	Price Each 1+	10+	100+	250+
DS32B35-33#	20	SOIC		3.63V	12/24h	Day; Date; Month; Year	2k		I²C	SMD 143-3232●	6.70	5.28	4.32	3.93
DS32B35-33IND#	20	SOIC		3.63V	12/24h	Day; Date; Month; Year	2k		I²C	SMD 143-3233●	7.68	6.04	4.95	4.52
DS32C35-33#	20	SOIC		3.63V	12/24h	Day; Date; Month; Year	8k		I²C	SMD 143-3235●	8.02	6.30	5.17	4.72
DS32C35-33IND#	20	SOIC		3.63V	12/24h	Day; Date; Month; Year	8k			SMD 143-3236●	9.22	7.25	5.94	5.42
DS3232S#	20	SOIC		5.5V	12/24h	Day; Date; Month; Year	236236236		I²C	SMD 143-3231●	6.80	4.37	2.96	2.45
DS1302+*	8	DIP		3V-5V	12/24h, hh:mm:ss	Day; Date; Month; Year	31		3-wire	118-8041●	2.94	1.90	1.30	– –
DS1602S+*	8	SOIC		-5V	Binary	Binary	31		3-wire	SMD 118-8028●	3.68	2.67	2.49	– –
DS1302Z+*	8	SOIC		3V-5V	12/24h, hh:mm:ss	Day; Date; Month; Year	31		3 wire	SMD 972-6314●	2.94	1.90	1.30	– –
DS1305+*	16	DIP		3V-5V	12/24h	Day; Date; Month; Year	96	A x 2	3 wire or SPI	118-8068●	4.51	2.90	1.98	1.66
DS1305E+*	20	TSSOP		3V-5V	12/24h	Day; Date; Month; Year	96	A x 2	3 wire or SPI	SMD 972-6209●	4.51	2.90	2.54	– –
DS1307+*	8	DIP		5V	12/24h, hh:mm:ss	Day; Date; Month; Year	56	2-wire		118-8042●	3.34	2.14	1.46	– –
DS1307Z+*	8	SOIC		5V	12/24h, hh:mm:ss	Day; Date; Month; Year	56	2-wire		SMD 972-6322●	2.93	1.88	1.29	– –
DS1307ZN+*	8	SOIC		5V	12/24h, hh:mm:ss	Day; Date; Month; Year	56	2-wire		SMD 972-5253●	3.69	2.37	1.62	– –
DS1302+**	8	DIP		5V	BINARY	BINARY				118-8041●	2.94	1.90	1.30	– –
DS1602+**	8	DIP		5V	BINARY	BINARY			3 wire	118-8027●	3.62	2.61	2.18	– –
DS1602S+**	8	SOIC		5V	BINARY	BINARY			3-wire	SMD 118-8028●	3.68	2.67	2.49	– –
DS1315-5+*	16	DIP	Clocks	5V	STD+hh	Day; Date; Month; Year			Phantom	128-5401●	13.91	8.94	6.27	– –
DS12887+*	24	DIP	Multiplexed	5V	12/24h	Day; Date; Month; Year	114	A, P, U	Parallel/	128-5409●	7.98	5.13	3.51	– –
DS1687-5+**	24	DIP	Time Clocks	5V	12/24h	Day; Date; Month; Year	114 + (128 SW cntrl)	WU, RC, CR		972-6241●	8.36	5.37	3.67	– –

Real Time Clock Modules

EPSON TOYOCOM



12 pins VSOJ



14 pins SOP



18 pins DIP



20 pins VSOJ



22 pins SON



24 pins SSOP



24 pins SOP

These clock crystal units are adjustement-free efficient operation and multifunction operation monitor. These devices come in three different control interface types.The RTC-6242A/3A are both drop in replacement for the obsolete RTC-4553 and the RX-4045SAAA is a drop in replacement for the obsolete RTC-4553.

Frequency Tolerance	Clock	Additional features	Output	Mftrs. List No.
±10ppm	Gregorian 24h/12h changeable	Leap year auto adjustable	–	RTC-62421A
±20ppm	Gregorian 24h/12h changeable	Leap year auto adjustable	–	RTC-62423A
5±23ppm	Selectable clock, built in sec/ digital pace adjustment functions, alarm & timer	Temperature sensor & low current consumption	Compatible with SRAM	RTC-7301DG
5±23ppm	Full calendar/ alarm & interrupt /timer functions	Voltage monitor	CMOS output with control pin	RTC-8564JE
5±23ppm	Full calendar alarm timer	Voltage monitor	CMOS output with control pin	RTC-8564NB
5±23ppm	Full calendar alarm timer	Voltage monitor	EEPROM & CMOS output with control pin	RTC-9701JE
5±5ppm	Full calendar	Low back up current & time, calendar, detection & interrupt	–	RX-4045SAAA

450983

Pins/Package	Bus interface	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
18 / DIP	Parallel 4 bit	RTC-62421A	127-8026●	4.89	4.10	3.54	3.54	2.81
24 / SOP	Parallel 4 bitParallel 4 bit	RTC-62423A	SMD 127-8027●	7.12	6.10	4.57	4.57	3.64
18 / DIP	Parallel 4 bitParallel 4 bit	RTC-7301DG	127-8035●	4.25	3.56	3.06	3.06	2.43
24 / SSOP	Parallel 4 bitParallel 4 bit	RTC-7301SF	SMD 127-8033●	5.41	4.52	3.89	3.89	3.08
20 / VSOJ	I2C-BusI2C-Bus	RTC-8564JE	SMD 127-8029●	3.35	2.87	2.15	2.15	1.51
22 / SON	I2C-BusI2C-Bus	RTC-8564NB	SMD 127-8030●	3.05	2.55	2.19	2.19	1.74
20 / VSOJ	Serial Serial	RTC-9701JE	SMD 127-8028●	2.88	2.41	2.07	2.07	1.64
14 / SOP	Serial Serial	RX-4045SAAA	SMD 127-8032●	2.64	2.21	1.90	1.90	1.51
12 / VSOJ	I2C-BusI2C-Bus	RX-8564LC	SMD 127-8031●	2.99	2.50	2.15	2.15	1.70

210792

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
41	ST	16	QFN	Serial I2C bus RTC with battery switchover	M41T83SQA6F	SMD 139-1132●	2.69	2.00	1.55	1.36	1.31
41	ST	8	SO	Serial Access Real-Time Clock. Counters for Seconds, Minutes, Hours, Day, Date, Month, Year and Century, Supports I2C Bus, IND TEMP	M41T00SM6E	SMD 122-4439●	2.21	1.71	1.37	1.34	1.26
41	ST	16	QFN	Serial Access Real-Time Clock With Alarms. Counters for Seconds, Minutes, Hours, Day, Date, Month, Year and Century, Supports I2C Bus, IND TEMP	M41T62Q6F	SMD 122-4441●	1.28	1.02	0.85	0.71	0.66
41	ST	8	SOIC	Serial Access Real-Time Clock With Alarms. Counters for Tenths/Hundredths of Seconds, Seconds, Minutes, Hours, Day, Date, Month, Year and Century, Supports I2C Bus, IND TEMP	M41T81SM6E*	SMD 122-4442●	1.95	1.43	1.02	0.92	0.87
68	INTS	16	DIP	CMOS Real Time Clock (seconds to years) With 32 bytes RAM and Power Sense/Control. Leap year correction. 12 or 24 hour mode	CDP68HC68T1EZ*	101-8167●	8.13	5.42	3.46	3.08	3.00
68	INTS	16	SOIC	CMOS Real Time Clock (seconds to years) With 32 bytes RAM and Power Sense/Control. Leap year correction. 12 or 24 hour mode.	CDP68HC68T1M2Z**	SMD 966-3797●	5.58	4.96	4.06	– –	– –
329	TI	16	SOIC	1 To 6 Clock Driver With Selectable Polarity	CDC329AD..*	NEW SMD 164-8759●	4.61	3.78	3.14	2.85	2.77
351	TI	24	SSOP	1 Line to 10 Line 3.3V Clock Driver with Tri-State Output	CDC351DB..*	NEW SMD 164-8760●	7.66	6.63	5.75	5.19	5.06
4287	TI	24	DIP	Real-Time Clock Module With NVRAM Control	BQ4287MT-SB2*	NEW 162-4422●	6.16	4.50	3.91	3.60	3.25
8563	NXP	8	DIP	CMOS Real-Time Clock/Calender With Low Power Consumption and I²C-Bus Interface	PCF8563P/F4,112**	890-6122●	1.42	1.04	0.78	– –	– –
8563	NXP	8	SOIC	CMOS Real-Time Clock/Calender With Low Power Consumption and I²C-Bus Interface	PCF8563T/F4,112*	SMD 890-6130●	1.22	0.90	0.67	– –	– –
8573	NSC	28	PLCC	Real Time Clock	DP8573AV/NOPB*	NEW SMD 168-5328●	20.06	15.61	12.76	11.70	10.48
8583	NXP	8	DIP	Clock/Calendar/Alarm (100ths of seconds to months) With a 256 x 8-Bit Static RAM. I²C Bus interface. 12 or 24 hour mode	PCF8583P*	403-908●	2.53	1.85	1.40	1.39	– –
8583	NXP	8	WSOIC	Clock/Calendar/Alarm (100ths of seconds to months) With a 256 x 8-Bit static RAM. I²C Bus interface. 12 or 24 hour mode. (Rev5 version)	PCF8583T/F5**	SMD 120-1272●	2.29	1.75	1.38	1.26	1.17
8593	NXP	8	DIP	CMOS Clock/Calender (hundredths of a second to months) With I²C-Bus Interface.	PCF8593P,112**	890-6254●	2.20	1.80	1.50	– –	– –
8593	NXP	8	SOIC	CMOS Clock/Calender (hundredths of a second to months) With I²C-Bus Interface	PCF8593T/1.112	SMD 890-6262●	2.35	1.71	1.30	– –	– –
72421	EPS	18	DIP	CMOS Clock/Calendar (seconds to years) With built-in quartz crystal and INTEL Bus interface (120ns access time). Features Low Current consumption, back-up function, leap year correction, and 12 or 24 hour mode	RTC72421B*	121-6228●	10.12	7.57	5.75	4.20	– –
72423	EPS	24	SOIC	CMOS Clock/Calendar (seconds to years) With built-in quartz crystal and INTEL Bus interface (120ns access time). Features Low Current consumption, back-up function, leap year correction, and 12 or 24 hour mode	RTC72423B*	SMD 121-6229●	11.97	8.85	6.72	4.81	– –

RL Re-reeling available

General Purpose Microprocessor Support ICs - continued

Real Time Clocks/Counters

intersil MAXIM

492329

Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	1+	25+	100+	250+	500+
						Price Each				
MAX	28	PLCC	Real-Time Clock	DS12885QN+	SMD 137-9806	5.610	4.520	3.820	3.260	– –
MAX	24	DIP	Real-Time Clock	DS12C887A+	137-9807	6.780	5.460	4.620	3.930	– –
INTS	8	SOIC	Real-Time Clock/Calendar with Embedded Unique ID	ISL12024IBZ	SMD 136-0964	3.577	– –	– –	– –	– –
INTS	8	SOIC	Real-Time Clock/Calendar with EEPROM	ISL12025IBZ	SMD 136-0965	2.180	1.950	1.750	1.550	1.400
INTS	8	SOIC	Real Time Clock/Calendar with EEPROM	ISL12026IBZ	SMD 136-0967	2.250	1.750	1.460	1.260	1.180
INTS	8	SOIC	Real Time Clock/Calendar with EEPROM	ISL12027IB27AZ	SMD 136-0968	2.590	2.260	1.960	1.670	1.520
INTS	8	MSOP	Low Power RTC with Battery Backed SRAM	ISL1218IUZ	136-0969	1.610	1.370	1.190	1.000	0.910
INTS	10	MSOP	Low Power RTC with Battery Backed SRAM and Event Detection	ISL1219IUZ	SMD 136-0970	2.110	1.810	1.570	1.340	1.210
INTS	10	MSOP	Low Power RTC with Battery Backed SRAM and Event Detection	ISL1221IUZ	SMD 136-0971	2.250	1.920	1.670	1.420	1.320
MAX	24	EDIP	RTC with Integrated Crystal and Battery	DS12887A+	NEW 160-6597	7.000	5.590	5.080	4.660	3.880
MAX	20	TSSOP	Portable System Controller	DS1670E+	SMD 137-9817	5.790	4.760	4.320	3.750	– –
MAX	8	MSOP	I²C Serial Real-Time Clock	DS1337U+	SMD 137-9737	2.150	1.380	0.940	0.780	– –
MAX	8	DIP	I²C Serial Real-Time Clock	DS1337+	137-9812	1.900	1.380	0.940	0.780	– –
MAX	8	SOIC	I2C 32-Bit Binary Counter RTC	DS1672S-33+	SMD 137-9818	2.740	1.760	1.510	1.200	– –
MAX	8	MSOP	I2C 32-Bit Binary Counter RTC	DS1672U-33+	SMD 137-9819	2.740	1.760	1.210	1.000	– –
MAX	8	MSOP	I2C RTC with 56-Byte NV RAM	DS1338U-33+	SMD 137-9813	1.880	1.520	1.290	1.100	– –
MAX	10	MSOP	I2C, 32-Bit Binary Counter Watchdog RTC with Trickle Charger and Reset I/O	DS1374U-33+	SMD 137-9774	2.070	1.680	1.410	1.200	– –
MAX	8	SOIC	I²C Serial Real-Time Clock	DS1337S+	SMD 137-9748	1.900	1.380	0.940	0.780	– –
MAX	8	SOIC	I2C RTC with Trickle Charger	DS1340Z-33+	SMD 137-9739	2.740	1.760	1.210	1.000	– –
MAX	8	MicroSOP	400kHz I2C RTC with Trickle Charger	DS1340U-33+	NEW SMD 160-6598	2.130	1.710	1.540	1.430	1.180
MAX	8	SOIC	400kHz I2C RTC/Supervisor with Trickle Charger & 512Bytes EEPROM	DS1388Z-33+	NEW SMD 160-6599	3.160	2.520	2.290	2.090	1.750
MAX	24	SOIC	3V/5V Real-Time Clock	DS1685S-3+	SMD 137-9820	3.910	3.150	2.670	2.270	– –
MAX	8	SOIC	Trickle-Charge Timekeeping Chip	DS1302ZN+	SMD 137-9808	2.230	1.830	1.660	1.440	– –
MAX	20	TSSOP	Serial Alarm Real-Time Clock	DS1305EN+	SMD 137-9809	4.970	3.190	2.180	1.830	– –
MAX	20	TSSOP	Serial Alarm Real-Time Clock	DS1306E+	SMD 137-9810	4.510	2.900	1.980	1.660	– –
MAX	20	TSSOP	Serial Alarm Real-Time Clock	DS1306EN+	SMD 137-9779	4.980	3.200	2.190	1.840	– –
MAX	8	MSOP	I2C, 32-Bit Binary Counter Watchdog Clock	DS1371U+	SMD 137-9814	1.690	1.180	0.990	0.880	– –
MAX	16	SOIC	I2C Realtime Clock with Temp Comp. Oscillator & Crystal	DS3231SN#	NEW SMD 159-3292	6.730	5.250	4.720	3.920	3.360
MAX	20	SOIC	I2C Realtime Clock with Temp Comp. Oscillator & SRAM	DS3232SN#	NEW SMD 159-3293	6.930	5.380	4.850	4.040	3.460
MAX	20	SOIC	SPI Realtime Clock with Temp Comp. Oscillator, Crystal & SRAM	DS3234S#	NEW SMD 159-3294	6.020	4.680	4.210	3.520	3.010
MAX	28	EDIP	Programmable Watchdog Timer & RTC Alarm	DS1511W+	NEW 160-6601	14.380	11.520	10.460	9.600	7.990

FRAM Processor Companions

RAMTRON

New

These processor companions are complete support and peripheral solutions with highly integrated mixed signal functions for processor-based systems. They combine fast read/write performance with nonvolatile FRAM.

528692

Mftrs. List No.	Pkg	Pins	Memory Density	Memory Config	RTC Yes/No	Power Monitor Yes/No	Watchdog Yes/No	Early Power Fail Yes/No	Serial No. Yes/No	RTC Alarm Yes/No	Event Detect Yes/No	Operating Voltage	Order Code	1+	10+	100+
														Price Each		
SPI																
FM3316-G	SOIC	14	16Kbit	2K x 8bit	Yes	Yes	Yes	Yes	Yes	Yes	Count	2.7V to 3.6V	SMD 168-8892	4.68	3.49	2.84
FM33256-G	SOIC	14	256Kbit	32K x 8bit	Yes	Yes	Yes	Yes	Yes	Yes	Count	2.7V to 3.6V	SMD 168-8894	6.83	5.09	4.15
I2C																
FM32L272-G	SOIC	14	4Kbit	512 x 8bit	No	Yes	Yes	Yes	Yes	No	Count	2.7V to 3.6V	SMD 168-8888	3.40	2.54	2.07
FM31L272-G	SOIC	14	4Kbit	512 x 8bit	Yes	Yes	Yes	Yes	Yes	No	Count	2.7V to 3.6V	SMD 168-8879	3.81	2.88	2.34
FM32272-G	SOIC	14	4Kbit	512 x 8bit	No	Yes	Yes	Yes	Yes	No	Count	4V to 5.5V	SMD 168-8884	3.21	2.54	2.07
FM31272-G	SOIC	14	4Kbit	512 x 8bit	Yes	Yes	Yes	Yes	Yes	No	Count	4V to 5.5V	SMD 168-8874	3.81	2.88	2.34
FM32L274-G	SOIC	14	16Kbit	2K x 8bit	No	Yes	Yes	Yes	Yes	No	Count	2.7V to 3.6V	SMD 168-8889	3.86	2.88	2.34
FM31L274-G	SOIC	14	16Kbit	2K x 8bit	Yes	Yes	Yes	Yes	Yes	No	Count	2.7V to 3.6V	SMD 168-8880	4.12	3.07	2.50
FM32274-G	SOIC	14	16Kbit	2K x 8bit	No	Yes	Yes	Yes	Yes	No	Count	4V to 5.5V	SMD 168-8885	3.64	2.88	2.34
FM31274-G	SOIC	14	16Kbit	2K x 8bit	Yes	Yes	Yes	Yes	Yes	No	Count	4V to 5.5V	SMD 168-8875	4.12	3.07	2.50
FM32L276-G	SOIC	14	64Kbit	8K x 8bit	No	Yes	Yes	Yes	Yes	No	Count	2.7V to 3.6V	SMD 168-8890	4.55	3.39	2.76
FM31L276-G	SOIC	14	64Kbit	8K x 8bit	Yes	Yes	Yes	Yes	Yes	No	Count	2.7V to 3.6V	SMD 168-8882	5.00	3.73	3.04
FM3130-G	SOIC	8	64Kbit	8K x 8bit	Yes	No	No	No	No	Yes	—	2.7V to 3.6V	SMD 168-8878	3.35	2.58	2.10
FM32276-G	SOIC	14	64Kbit	8K x 8bit	No	Yes	Yes	Yes	Yes	No	Count	4V to 5.5V	SMD 168-8886	4.30	3.39	2.76
FM31276-G	SOIC	14	64Kbit	8K x 8bit	Yes	Yes	Yes	Yes	Yes	No	Count	4V to 5.5V	SMD 168-8876	5.00	3.73	3.04
FM32L278-G	SOIC	14	256Kbit	32K x 8bit	No	Yes	Yes	Yes	Yes	No	Count	2.7V to 3.6V	SMD 168-8891	6.40	4.77	3.88
FM31L278-G	SOIC	14	256Kbit	32K x 8bit	Yes	Yes	Yes	Yes	Yes	No	Count	2.7V to 3.6V	SMD 168-8883	6.83	5.09	4.15
FM32278-G	SOIC	14	256Kbit	32K x 8bit	No	Yes	Yes	Yes	Yes	No	Count	4V to 5.5V	SMD 168-8887	6.40	4.77	3.88
FM31278-G	SOIC	14	256Kbit	32K x 8bit	Yes	Yes	Yes	Yes	Yes	No	Count	4V to 5.5V	SMD 168-8877	6.83	5.09	4.15

FRAM Nonvolatile State Savers

RAMTRON

New

These nonvolatile state savers are logic building blocks that provide continuous access to nonvolatile system settings without reading a memory. They save the state of signals on demand and automatically restore signals to their correct state upon power up. They can store signals that may change without notice, and allow the storage of system settings without the system overhead of serial memory.

528682

Mftrs. List No.	Pkg	Pins	Savers	Output Current (mA)	Standby Current (µA)	Operating Voltage	Order Code	1+	10+	100+
								Price Each		
FM1106	SOT-23	8	2	2	2	2.7V to 3.6V	SMD 168-8862	0.76	0.56	0.46
FM1107	SOT-23	8	2	2	2	2.7V to 3.6V	SMD 168-8863	0.90	0.67	0.55
FM1105	SOT-23	8	2	2	2	4.5V to 5.5V	SMD 168-8861	0.76	0.56	0.46
FM1110-QG	QFN	16	4	4	4	2.7V to 3.6V	SMD 168-8864	1.52	1.13	0.92
FM1112-QG	QFN	16	4	4	4	2.7V to 3.6V	SMD 168-8865	1.52	1.13	0.92
FM1114-QG	QFN	16	4	4	4	2.7V to 3.6V	SMD 168-8866	1.80	1.35	1.10

Open Drain & CMOS Voltage Detectors

ROHM SEMICONDUCTOR



- Package 5 pin SSOP
- High Precision ±1%
- Operating Temp. -40°C to 125°C

496361

Description	Mftrs. List No.	Order Code	1+	10+	100+	250+	500+
			Price Each				
Open Drain O/P							
1.8V Voltage Detector	BU4818G-TR	SMD 151-2657	0.164	0.140	0.105	0.082	0.069
2.5V Voltage Detector	BU4825G-TR	SMD 151-2658	0.164	0.140	0.105	0.082	0.069
2.8V Voltage Detector	BU4828G-TR	SMD 151-2659	0.164	0.140	0.105	0.082	0.069
2.9V Voltage Detector	BU4829G-TR	SMD 151-2660	0.164	0.140	0.105	0.082	0.069
3.0V Voltage Detector	BU4830G-TR	SMD 151-2661	0.164	0.140	0.105	0.082	0.069
3.1V Voltage Detector	BU4831G-TR	SMD 151-2662	0.164	0.140	0.105	0.082	0.069
3.3V Voltage Detector	BU4833G-TR	SMD 151-2664	0.164	0.140	0.105	0.082	0.069

RL Re-reeling available

Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
CMOS O/P							
1.5V Voltage Detector	BU4915G-TR	SMD 151-2665	0.164	0.140	0.105	0.082	0.069
1.8V Voltage Detector	BU4918G-TR	SMD 151-2666	0.164	0.140	0.105	0.082	0.069
2.5V Voltage Detector	BU4925G-TR	SMD 151-2667	0.164	0.140	0.105	0.082	0.069
2.8V Voltage Detector	BU4928G-TR	SMD 151-2668	0.164	0.140	0.105	0.082	0.069
2.9V Voltage Detector	BU4929G-TR	SMD 151-2669	0.164	0.140	0.105	0.082	0.069
3.0V Voltage Detector	BU4930G-TR	SMD 151-2670	0.164	0.140	0.105	0.082	0.069
3.1V Voltage Detector	BU4931G-TR	SMD 151-2671	0.164	0.140	0.105	0.082	0.069
3.3V Voltage Detector	BU4933G-TR	SMD 151-2672	0.164	0.140	0.105	0.082	0.069

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230230

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
6	TI	24	SOIC	Ultra low power 2.7V Voltage detector, CMOS output	TPIC6A259DWG4	SMD 123-6569	1.660	1.230	0.980	0.920	0.900
6	TI	20	PDIP	Ultra low power 2.7V Voltage detector, CMOS output	TPIC6B595N	128-7675	1.260	0.890	0.680	0.510	0.460
6	TI	16	TSSOP	Ultra low power 3.0V Voltage detector, CMOS output	TPIC6C596PWR	SMD 123-6571	0.560	0.440	0.340	0.290	0.270
54	MCHIP	3	SOT-23A	Ultra low power 3.0V Voltage detector, CMOS output	TC54VN3002ECB713	NEW SMD 155-7409	0.350	0.270	0.210	– –	– –
54	MCHIP	3	SOT-23A	Ultra low power 2.7V Voltage detector, CMOS output	TC54VC2702ECB713	NEW SMD 155-7428	0.350	0.270	0.210	– –	– –
61	TOR	3	SOT-23	Ultra low power 3.0V Voltage detector, CMOS output	XC61CC2702MR	SMD 360-5449	0.490	0.420	0.380	– –	– –
61	TOR	4	SSOT-24	Ultra low power 2.0V Voltage detector, Open Drain output	XC61CC2702NR	SMD 360-5450	0.490	0.420	0.380	– –	– –
61	TOR	3	SOT-23	Ultra low power 2.0V Voltage detector, Open Drain output	XC61CC3002MR	SMD 360-5462	0.490	0.420	0.380	– –	– –
61	TOR	4	SSOT-24	Ultra low power 2.7V Voltage detector, Open Drain output	XC61CC3002NR	SMD 360-5474	0.490	0.420	0.380	– –	– –
61	TOR	3	SOT-23	Ultra low power 2.7V Voltage detector, Open Drain output	XC61CN2002MR	SMD 360-5486	0.490	0.420	0.380	– –	– –
61	TOR	4	SSOT-24	Ultra low power 2.7V Voltage detector, Open Drain output	XC61CN2002NR	SMD 360-5498	0.490	0.420	0.380	– –	– –
61	TOR	3	SOT-23	Ultra low power 4.5V Voltage detector, Open Drain output	XC61CN2702MRN	SMD 110-6652	0.490	0.420	0.380	– –	– –
61	TOR	4	SSOT-24	Ultra low power 4.5V Voltage detector, Open Drain output	XC61CN2702NR	SMD 360-5516	0.490	0.420	0.380	– –	– –
61	TOR	3	SOT-23	Ultra low power 4.5V Voltage detector, Open Drain output	XC61CN4502MRN	SMD 110-6653	0.490	0.420	0.380	– –	– –
61	TOR	4	SSOT-24	Ultra low power 2.7V Reset, output delay, CMOS output.	XC61CN4502NR	SMD 360-5530	0.490	0.420	0.380	– –	– –
61	TOR	3	SOT-23	Ultra low power 4.5V Reset, output delay, CMOS output.	XC61FC2712MR	SMD 360-5541	0.420	0.370	0.330	– –	– –
61	TOR	3	SOT-23	Ultra low power 2.7V Reset, output delay, Open Drain output	XC61FC4512MR	SMD 360-5553	0.550	0.480	0.430	– –	– –
61	TOR	3	SOT-23	Ultra low power 4.5V Reset, output delay, Open Drain output	XC61FN2712MRN	SMD 110-6654	0.550	0.480	0.430	– –	– –
61	TOR	3	SOT-23	Voltage Detectors with Delay Circuit Built-In	XC61FN4512MR	SMD 360-5577	0.550	0.480	0.430	– –	– –
82	INTS	28	PDIP	Ultra low power 2.7V Voltage detector, CMOS output	CP82C59AZ.	NEW 156-1995	4.390	3.300	2.640	2.190	1.890
111	MCHIP	3	TO-92	Ultra low power 2.7V Voltage detector, CMOS output	MCP111-195I/TO	143-9357	0.250	0.168	0.137	– –	– –
111	MCHIP	3	TO-92	Ultra low power 2.7V Voltage detector, CMOS output	MCP111-270E/TO	143-9358	0.250	0.168	0.137	– –	– –
111	MCHIP			Ultra low power 2.7V Voltage detector, CMOS output	MCP111T-240E/TT	NEW 162-7192	0.300	0.230	0.181	– –	– –
111	MCHIP			Ultra low power 2.7V Voltage detector, CMOS output	MCP111T-315E/TT	NEW 162-7194	0.300	0.230	0.181	– –	– –
112	MCHIP			Ultra low power 2.7V Voltage detector, CMOS output	MCP112T-270E/TT	NEW 162-7195	0.300	0.230	0.181	– –	– –
120	MCHIP	3	SOT-23	Microcontroller Supervisory Circuit with Open Drain Output	MCP120T-270I/TT	SMD 129-2232	0.330	0.250	0.220	– –	– –
120	MCHIP	3	SOT-23	Microcontroller Supervisory Circuit with Open Drain Output	MCP120T-300I/TT	SMD 129-2233	0.330	0.250	0.220	– –	– –
120	MCHIP	3	SOT-23	Microcontroller Supervisory Circuit with Open Drain Output and 5k Pullup Resistor.	MCP130T-460I/TT	SMD 129-2234	0.300	0.240	0.179	– –	– –
123	CAT	8	SOIC	Ultra low power 2.7V Voltage detector, CMOS output	CAT1232LPV-G	NEW SMD 165-6122	0.650	0.500	0.400	0.330	0.310
184	FSL	252	BGA	Security Processor	MPC184VMB	SMD 114-8501	9.610	– –	– –	– –	– –
330	ZET	3	TO-92	Supply Voltage Monitor With reset Low, 3.1V threshold	ZSM330C	113-2698	1.180	0.850	0.550	– –	– –
330	ZET	3	TO-92	Supply Voltage Monitor With reset Low, 3.1V threshold	ZSM330C.	302-3965 ▲	0.520	0.380	0.250	– –	– –
530	ZET	3	SOT-223	Ultra low power 2.7V Voltage detector, CMOS output	ZSM530GTA	SMD 113-2701	1.130	0.930	0.630	– –	– –
560	ZET	3	SOT-223	Ultra low power 3.0V Voltage detector, CMOS output	ZSM560GTA	SMD 113-2703	0.990	0.820	0.570	– –	– –
690	MAX	8	DIP	Ultra low power 3.0V Voltage detector, CMOS output	MAX690ACPA+	972-3781	6.180	3.980	2.850	2.440	2.160
690	MAX	8	SOIC	Ultra low power 2.0V Voltage detector, Open Drain output	MAX690ACSA+	SMD 972-5938	6.490	4.170	3.000	2.560	– –
690	MAX	8	DIP	Ultra low power 2.0V Voltage detector, Open Drain output	MAX690AEPA+	972-4168	3.410	2.660	2.590	– –	– –
690	MAX	8	SOIC	Ultra low power 2.7V Voltage detector, Open Drain output	MAX690AESA+	SMD 972-4125	9.090	5.840	5.310	– –	– –
690	MAX	8	DIP	Ultra low power 2.7V Voltage detector, Open Drain output	MAX690CPA+	972-3765	6.440	4.140	3.050	2.540	2.200
690	MAX	8	DIP	Ultra low power 2.7V Voltage detector, Open Drain output	MAX690EPA+	972-4133	5.900	4.100	3.630	– –	– –
690	ADI	8	PDIP	Ultra low power 2.7V Voltage detector, CMOS output	ADM690AANZ	143-9085	2.360	1.490	1.310	– –	– –
690	ADI	8	SOIC	Ultra low power 2.7V Voltage detector, CMOS output	ADM690AARNZ	SMD 143-9086	1.860	1.510	1.380	– –	– –
690	ADI	8	PDIP	Ultra low power 2.7V Voltage detector, CMOS output	ADM690ANZ	143-8813	1.510	1.070	1.040	– –	– –
691	ADI	16	PDIP	Ultra low power 2.7V Voltage detector, CMOS output	ADM691AANZ	143-9087	3.050	1.940	1.720	– –	– –
691	ADI	16	SOIC	Ultra low power 2.7V Voltage detector, CMOS output	ADM691AARNZ	SMD 143-9088	2.040	1.630	1.580	– –	– –
691	ADI	16	PDIP	Ultra low power 2.7V Voltage detector, CMOS output	ADM691ANZ	143-8814	1.740	1.430	1.390	– –	– –
691	ADI	16	WSOIC	Ultra low power 2.7V Voltage detector, CMOS output	ADM691ARZ	SMD 143-8816	1.510	1.160	1.130	– –	– –
691	MAX	16	DIP	Ultra low power 4.5V Voltage detector, Open Drain output	MAX691ACPE+	972-3790	4.310	3.110	2.300	1.920	1.640
691	MAX	16	SOIC	Ultra low power 4.5V Voltage detector, Open Drain output	MAX691ACSE+	SMD 972-5946	4.710	3.880	3.300	2.930	2.790
691	MAX	16	SOIC	Ultra low power 4.5V Voltage detector, Open Drain output	MAX691ACWE+	SMD 972-4150	7.340	4.720	4.350	– –	– –
691	MAX	16	SOIC	Ultra low power 2.7V Reset, output delay, CMOS output.	MAX691AESE+	SMD 972-4192	5.180	3.620	3.200	– –	– –
691	MAX	16	SOIC	Ultra low power 4.5V Reset, output delay, CMOS output.	MAX691AEWE+	SMD 972-4206	6.630	4.620	4.080	– –	– –
691	MAX	16	DIP	Ultra low power 2.7V Reset, output delay, Open Drain output	MAX691CPE+	972-5199	6.980	4.490	3.310	2.760	2.560
691	MAX	16	SOIC	Ultra low power 4.5V Reset, output delay, Open Drain output	MAX691CWE+	SMD 972-4184	5.150	3.440	2.540	– –	– –
691	MAX	16	DIP	Microprocessor Supervisory Circuit	MAX691EPE+	972-4176	7.670	5.930	5.100	– –	– –
691	MAX	16	SOIC	Microprocessor Supervisory Circuit (IND TEMP)	MAX691EWE+	SMD 972-4141	5.700	4.430	3.680	– –	– –
692	MAX	8	DIP	Microprocessor Supervisory Circuit (mAX692CPA Upgrade)	MAX692ACPA+	118-8017	3.500	2.760	2.300	2.240	2.180
692	MAX	8	SOIC	Microprocessor Supervisory Circuit	MAX692ACSA+	SMD 972-4214	3.620	3.070	2.670	– –	– –
692	MAX	8	DIP	Microprocessor Supervisory Circuit	MAX692CPA+	972-6098	6.440	4.140	3.050	2.540	2.480
692	ADI	8	SOIC	Ultra low power 2.7V Voltage detector, CMOS output	ADM692AARNZ	SMD 143-9089	2.360	1.490	1.310	– –	– –
692	ADI	8	PDIP	Ultra low power 2.7V Voltage detector, CMOS output	ADM692ANZ	143-9090	1.540	0.990	0.870	– –	– –
693	ADI	16	PDIP	Ultra low power 2.7V Voltage detector, CMOS output	ADM693AANZ	143-9092	2.570	1.640	1.450	– –	– –
693	ADI	16	SOIC	Ultra low power 2.7V Voltage detector, CMOS output	ADM693AARNZ	SMD 143-9093	2.570	1.640	1.450	– –	– –
693	ADI	16	PDIP	Ultra low power 2.7V Voltage detector, CMOS output	ADM693ANZ	143-8817	1.490	1.050	0.920	– –	– –
693	ADI	16	WSOIC	Ultra low power 2.7V Voltage detector, CMOS output	ADM693ARZ	SMD 143-9094	1.490	1.070	1.040	– –	– –
693	MAX	16	DIP	Microprocessor Supervisory Circuit.	MAX693CPE+	118-7970	5.560	4.010	3.310	– –	– –
694	ADI	8	PDIP	Ultra low power 2.7V Voltage detector, CMOS output	ADM694ANZ	143-8819	1.420	0.970	0.950	– –	– –
695	ADI	16	PDIP	Ultra low power 2.7V Voltage detector, CMOS output	ADM695ANZ	143-9095	1.840	1.170	1.040	– –	– –
695	ADI	16	WSOIC	Ultra low power 2.7V Voltage detector, CMOS output	ADM695ARZ	SMD 143-9096	1.420	0.970	0.950	– –	– –
695	LT	16	DIP	Microprocessor Supervisory Circuit	LTC695CN#PBF	956-1412	6.490	3.690	2.920	– –	– –
695	MAX	16	DIP	Microprocessor Supervisory Circuit	MAX695CPE+	118-8040	6.980	4.490	3.310	2.760	2.690
695	MAX	16	SOIC	Ultra low power 2.7V Voltage detector, CMOS output	MAX695CWE+	SMD 972-4222	7.700	4.950	3.650	– –	– –
696	MAX	16	SOIC	Ultra low power 2.7V Voltage detector, CMOS output	MAX696CWE+	SMD 972-5016	8.080	5.700	4.780	– –	– –
696	ADI	16	PDIP	Ultra low power 2.7V Voltage detector, CMOS output	ADM696ANZ	143-9097	1.500	0.960	0.850	– –	– –
696	ADI	16	WSOIC	Ultra low power 2.7V Voltage detector, CMOS output	ADM696ARZ	SMD 143-9098	1.390	1.070	1.040	– –	– –
697	ADI	16	PDIP	Ultra low power 2.7V Voltage detector, CMOS output	ADM697ANZ	143-9099	3.530	2.250	1.990	– –	– –
697	ADI	16	WSOIC	Ultra low power 2.7V Voltage detector, CMOS output	ADM697ARZ	SMD 143-9100	3.750	2.390	2.100	– –	– –
698	ADI	8	PDIP	Ultra low power 2.7V Voltage detector, CMOS output	ADM698ANZ	143-9101	1.350	0.860	0.760	– –	– –
698	ADI	16	WSOIC	Ultra low power 2.7V Voltage detector, CMOS output	ADM698ARZ	SMD 143-9102	1.350	0.860	0.760	– –	– –
699	ADI	8	PDIP	Ultra low power 2.7V Voltage detector, CMOS output	ADM699ANZ	143-8820	1.550	1.070	0.970	0.910	0.830
699	ADI	16	WSOIC	Ultra low power 2.7V Voltage detector, CMOS output	ADM699ARZ	SMD 143-9103	1.280	0.920	0.800	– –	– –
700	MAX	8	DIP	Ultra low power 3.0V Voltage detector, CMOS output	MAX700CPA+	118-7927	3.860	2.720	2.290	2.180	2.070
700	MAX	8	SOIC	Ultra low power 3.0V Voltage detector, CMOS output	MAX700CSA+	SMD 972-6381	4.630	2.980	2.570	1.900	1.850
700	MAX	8	SOIC	Ultra low power 2.0V Voltage detector, Open Drain output	MAX700ESA+	SMD 972-4656	5.090	3.590	3.100	– –	– –
701	MAX	8	SOIC	Ultra low power 2.0V Voltage detector, Open Drain output	MAX701CSA+	SMD 972-4648	3.390	2.700	2.320	– –	– –
702	MAX	8	DIP	Ultra low power 2.7V Voltage detector, Open Drain output	MAX702CPA+	118-8018	3.810	2.680	2.260	– –	– –
703	MAX	8	DIP	Ultra low power 2.7V Voltage detector, Open Drain output	MAX703CPA+	972-4265	5.440	3.490	2.890	– –	– –
703	MAX	8	SOIC	Ultra low power 2.7V Voltage detector, Open Drain output	MAX703CSA+	SMD 972-4273	5.440	3.490	2.890	– –	– –

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General Purpose Microprocessor Support ICs - continued

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
704	MAX	8	SOIC	Ultra low power 2.7V Voltage detector, CMOS output	MAX704SCSA+	NEW SMD 161-0123●	4.280	3.530	2.880	2.440	2.270
704	MAX	8	SOIC	Ultra low power 4.5V Voltage detector, Open Drain output	MAX704CSA+	SMD 972-4281●	5.440	3.490	2.890	– –	– –
705	ADI	8	PDIP	Ultra low power 2.7V Voltage detector, CMOS output	ADM705ANZ	143-9104●	1.780	1.130	1.010	– –	– –
705	ADI	8	SOIC	Ultra low power 2.7V Voltage detector, CMOS output	ADM705ARZ	SMD 143-9105●	1.190	1.030	1.000	– –	– –
705	MAX	8	DIP	Ultra low power 4.5V Voltage detector, Open Drain output	MAX705CPA+	972-6004●	4.860	3.130	2.590	1.920	1.860
705	MAX	8	SOIC	Ultra low power 4.5V Voltage detector, Open Drain output	MAX705CSA+	SMD 972-6012●	4.860	3.130	2.590	1.920	1.860
705	MAX	8	SOIC	Ultra low power 2.7V Reset, output delay, CMOS output	MAX705ESA+	SMD 972-4230●	6.330	4.070	3.360	– –	– –
706	MAX	8	SOIC	Ultra low power 2.7V Voltage detector, CMOS output	MAX706RESA+	NEW SMD 161-0124●	4.770	3.920	3.220	2.710	2.520
706	MAX	8	SOIC	Ultra low power 2.7V Voltage detector, CMOS output	MAX706SCSA+	NEW SMD 161-0125●	3.660	3.020	2.470	2.090	1.940
706	MAX	8	SOIC	Ultra low power 4.5V Reset, output delay, CMOS output	MAX706CSA+	SMD 972-6390●	4.070	2.710	2.250	2.160	2.110
706	ADI	8	SOIC	Ultra low power 2.7V Voltage detector, CMOS output	ADM706TARZ	NEW SMD 166-1071●	1.740	1.350	1.120	1.010	0.850
707	ADI	8	SOIC	Ultra low power 2.7V Voltage detector, CMOS output	ADM707ARZ	NEW SMD 166-1072●	1.740	1.350	1.120	1.010	0.850
707	MAX	8	DIP	Ultra low power 2.7V Reset, output delay, Open Drain output	MAX707CPA+	118-8005●	4.360	2.810	2.320	1.720	1.680
707	MAX	8	SOIC	Ultra low power 4.5V Reset, output delay, Open Drain output	MAX707CSA+	SMD 972-4249●	4.360	2.810	2.320	– –	– –
707	MAX	8	SOIC	Microprocessor Supervisory Circuit (IND TEMP)	MAX707ESA+	SMD 972-4290●	4.860	3.440	2.950	– –	– –
708	ADI	8	SOIC	Ultra low power 2.7V Voltage detector, CMOS output	ADM708ARZ	NEW SMD 166-1074●	1.370	1.070	0.880	0.810	0.670
708	ADI	8	SOIC	Ultra low power 2.7V Voltage detector, CMOS output	ADM708SARZ	NEW SMD 166-1075●	1.370	1.070	0.880	0.810	0.670
708	MAX	8	DIP	Microprocessor Supervisory Circuit	MAX708CPA+	972-6101●	4.360	2.810	2.320	1.720	1.680
708	MAX	8	SOIC	Microprocessor Supervisory Circuit	MAX708CSA+	SMD 972-4257●	2.930	1.950	1.770	– –	– –
708	ADI	8	PDIP	Ultra low power 2.7V Voltage detector, CMOS output	ADM708TANZ	143-9106●	1.200	0.780	0.660	– –	– –
708	ADI	8	SOIC	Ultra low power 2.7V Voltage detector, CMOS output	ADM708TARZ	SMD 143-9107●	1.120	0.800	0.770	– –	– –
709	ADI	8	SOIC	Ultra low power 2.7V Voltage detector, CMOS output	ADM709RARZ	SMD 143-9109●	1.000	0.640	0.560	– –	– –
709	ADI	8	SOIC	Ultra low power 2.7V Voltage detector, CMOS output	ADM709TARZ	SMD 143-9111●	1.020	0.650	0.570	– –	– –
709	MAX	8	DIP	Power Supply Monitor With Reset. Reset Level 4.65V	MAX709LCPA+	118-8004●	2.140	1.570	1.390	1.200	1.150
709	MAX	8	SOIC	Power Supply Monitor With Reset. Reset Level 4.65V	MAX709LCSA+	SMD 972-5997●	1.630	1.140	1.010	0.990	0.960
709	MAX	8	SOIC	Power Supply Monitor With Reset. Reset Level 4.40V	MAX709MCSA+	SMD 972-4630●	2.160	1.530	1.290	– –	– –
791	MAX	16	SOIC	Microprocessor Supervisory Circuit	MAX791CSE+	SMD 972-4303●	6.490	4.560	3.980	– –	– –
791	MAX	16	SOIC	Microprocessor Supervisory Circuit (IND TEMP)	MAX791ESE+	SMD 129-0847●	9.780	6.890	5.810	– –	– –
795	MAX	8	SOIC	Ultra low power 2.7V Voltage detector, CMOS output	MAX795SCSA+	NEW SMD 161-0128●	5.200	4.280	3.490	2.960	2.760
800	ADI	16	SOIC	Ultra low power 2.7V Voltage detector, CMOS output	ADM800MARNZ	SMD 143-9112●	3.000	1.890	1.660	– –	– –
802	ADI	8	PDIP	Ultra low power 2.7V Voltage detector, CMOS output	ADM802MANZ	143-9113●	2.790	1.790	1.560	– –	– –
802	ADI	8	SOIC	Ultra low power 2.7V Voltage detector, CMOS output	ADM802MARNZ	SMD 143-9114●	2.790	1.790	1.560	– –	– –
805	ADI	8	PDIP	Ultra low power 2.7V Voltage detector, CMOS output	ADM805LANZ	143-9115●	2.790	1.790	1.560	– –	– –
807	MAX	16	DIP	Ultra low power 2.7V Voltage detector, CMOS output	MAX807LCPE	794-570▲	5.640	4.750	4.040	3.780	– –
807	MAX	16	SOIC	Ultra low power 2.7V Voltage detector, CMOS output	MAX807LCWE+	SMD 972-5750●	8.050	5.690	4.770	– –	– –
809	CAT	3	SOT-23	Ultra low power 3.0V Voltage detector, CMOS output	CAT809STBI-T	SMD 880-3153●	0.410	0.350	0.290	– –	– –
809	NSC	3	SOT-23	Ultra low power 2.0V Voltage detector, Open Drain output	LM809M3-4.00	SMD 977-8632●	0.570	0.430	0.350	– –	– –
809	NSC	3	SOT-23	Ultra low power 2.0V Voltage detector, Open Drain output	LM809M3-4.63	SMD 977-8640●	0.490	0.330	0.280	– –	– –
809	MAX	3	SOT-23	Ultra low power 2.7V Voltage detector, Open Drain output	MAX809JEUR+T	SMD 118-7957●	2.620	2.030	1.710	– –	– –
809	MAX	3	SOT-23	Ultra low power 2.7V Voltage detector, Open Drain output	MAX809LEUR+T	SMD 118-8059●	1.890	1.210	1.050	1.020	– –
809	MAX	3	SOT-23	Ultra low power 2.7V Voltage detector, Open Drain output	MAX809MEUR+	SMD 972-4311●	1.680	1.180	0.980	– –	– –
809	MAX	3	SOT-23	Ultra low power 4.5V Voltage detector, Open Drain output	MAX809REUR+T	SMD 118-7959●	1.890	1.290	1.260	– –	– –
809	MAX	3	SOT-23	Ultra low power 4.5V Voltage detector, Open Drain output	MAX809SEUR+T	SMD 118-8029●	1.890	1.210	1.050	1.020	0.990
809	MAX	3	SOT-23	Ultra low power 4.5V Voltage detector, Open Drain output	MAX809TEUR+	SMD 972-5768●	1.770	1.730	1.690	– –	– –
809	MCHIP	3	SOT-23	Ultra low power 2.7V Reset, output delay, CMOS output	MCP809T-300I/TT	SMD 129-2251●	0.330	0.250	0.220	– –	– –
809	MCHIP	3	SOT-23B	Ultra low power 4.5V Reset, output delay, CMOS output	TCM809LENB713	SMD 976-2744●	0.310	0.230	0.187	– –	– –
809	MCHIP	3	SOT-23B	Ultra low power 2.7V Reset, output delay, Open Drain output	TCM809RENB713	SMD 976-2752●	0.310	0.230	0.187	– –	– –
809	MCHIP	3	SC-70	Ultra low power 4.5V Reset, output delay, Open Drain output	TCM809RVLB713	SMD 121-2922●	0.350	0.250	0.220	– –	– –
809	MCHIP	3	SC-70	Microcontroller Supervisory Circuit With Active-Low Reset, 2.63V threshold (Automotive TEMP)	TCM809RVLB713.	SMD 396-9083	0.260	0.192	0.168	– –	– –
809	MCHIP	3	SOT-23B	Microcontroller Supervisory Circuit With Active-Low Reset, 2.93V threshold ((IND TEMP)	TCM809SENB713	SMD 976-2760●	0.320	0.230	0.200	– –	– –
809	MCHIP	3	SOT-23B	Microcontroller Supervisory Circuit With Active-Low Reset, 3.08V threshold (IND TEMP)	TCM809TENB713	SMD 976-2779●	0.320	0.230	0.200	– –	– –
809	MCHIP	3	SC-70	Microcontroller Supervisory Circuit With Active-Low Reset, 2.32V threshold (Automotive TEMP)	TCM809ZVLB713	SMD 976-2787●	0.350	0.250	0.220	– –	– –
809	TS	3	SOT-23	Microprocessor Reset Circuit	TS809CXA	SMD 726-1080●	0.188	0.150	0.113	– –	– –
809	TS	3	SOT-23	Microprocessor Reset Circuit	TS809CXD	SMD 726-1098●	0.380	0.310	0.230	– –	– –
809	CAT	3	SOT-23	Ultra low power 2.7V Voltage detector, CMOS output	CAT809STBI-T3	NEW SMD 165-6123●	0.230	0.169	0.135	0.113	0.102
809	CAT	3	SOT-23	Ultra low power 2.7V Voltage detector, CMOS output	CAT809LTBI-T3	NEW SMD 165-6124●	0.230	0.169	0.135	0.113	0.102
809	ADI	3	SOT-23	Ultra low power 2.7V Voltage detector, CMOS output	ADM809LARTZ-REEL7	NEW SMD 166-1076●	1.090	0.850	0.690	0.630	0.530
809	ADI	3	SOT-23	Ultra low power 2.7V Voltage detector, CMOS output	ADM809SARTZ-REEL7	NEW SMD 166-1077●	1.090	0.850	0.690	0.630	0.530
809	ADI	3	SOT-23	Ultra low power 2.7V Voltage detector, CMOS output	ADM809TARTZ-REEL7	NEW SMD 166-1078●	1.090	0.850	0.690	0.630	0.530
809	CAT	3	SOT-23	Ultra low power 2.7V Voltage detector, CMOS output	CAT809JTBI-G	NEW SMD 165-6131●	0.230	0.169	0.135	0.113	0.102
809	CAT	3	SOT-23	Ultra low power 2.7V Voltage detector, CMOS output	CAT809TTBI-G	NEW SMD 165-6133●	0.230	0.169	0.135	0.113	0.102
810	CAT	3	SOT-23	Ultra low power 2.7V Voltage detector, CMOS output	CAT810LTBI-T3	NEW SMD 165-6125●	0.230	0.210	0.178	0.151	0.124
810	NSC	3	SOT-23	Microprocessor Supervisory Circuit, Active-High Reset Output, 4.00V Reset level. 15µA supply	LM810M3-4.00	SMD 977-8675●	0.550	0.430	0.370	– –	– –
810	NSC	3	SOT-23	Microprocessor Supervisory Circuit, Active-High Reset Output, 4.63V Reset level. 15µA supply	LM810M3-4.63	SMD 977-8683●	0.580	0.420	0.340	– –	– –
810	MAX	3	SOT-23	Ultra low power 2.7V Voltage detector, CMOS output	MAX810LEUR+	SMD 972-4320●	3.050	2.680	2.360	– –	– –
810	MAX	3	SOT-23	Ultra low power 2.7V Voltage detector, CMOS output	MAX810SEUR+T	SMD 118-8030●	1.890	1.210	1.050	1.020	0.980
811	MAX	4	SOT-143	Ultra low power 3.0V Voltage detector, CMOS output	MAX811LEUS+T	SMD 118-8060●	1.920	1.230	1.060	1.030	1.010
811	MAX	4	SOT-143	Ultra low power 3.0V Voltage detector, CMOS output	MAX811MEUS+T	SMD 118-7961●	2.880	2.030	1.710	– –	– –
811	MAX	4	SOT-143	Ultra low power 2.0V Voltage detector, Open Drain output	MAX811SEUS+T	SMD 118-8048●	1.920	1.230	1.060	1.030	– –
811	MCHIP	4	SOT-143	Ultra low power 2.0V Voltage detector, Open Drain output	TCM811LERCTR	SMD 113-7328●	0.530	0.420	0.360	– –	– –
811	MCHIP	4	SOT-143	Ultra low power 2.7V Voltage detector, Open Drain output	TCM811TERCTR	SMD 113-7329●	0.530	0.420	0.360	– –	– –
811	CAT	4	SOT-143	Ultra low power 2.7V Voltage detector, CMOS output	CAT811LTBI-T3	NEW SMD 165-6126●	0.230	0.210	0.178	0.151	0.124
811	CAT	4	SOT-143	Ultra low power 2.7V Voltage detector, CMOS output	CAT811STBI-T3	NEW SMD 165-6127●	0.230	0.210	0.178	0.151	0.124
812	CAT	4	SOT-143	Ultra low power 2.7V Voltage detector, CMOS output	CAT812STBI-T3	NEW SMD 165-6128●	0.230	0.210	0.178	0.151	0.124
813	MAX	8	DIP	Ultra low power 2.7V Voltage detector, Open Drain output	MAX813LCPA+	118-8055●	3.090	1.990	1.760	1.300	1.260
823	MAX	5	SOT-23	Ultra low power 4.5V Voltage detector, Open Drain output	MAX823LEUK+T	SMD 118-8047●	2.050	1.460	1.210	1.160	1.100
823	MAX	5	SOT-23	Ultra low power 4.5V Voltage detector, Open Drain output	MAX823MEUK+T	SMD 118-7962●	2.080	1.760	1.530	– –	– –
823	MAX	5	SOT-23	Ultra low power 4.5V Voltage detector, Open Drain output	MAX823SEUK+T	SMD 118-7963●	2.550	1.640	1.410	– –	– –
823	MAX	5	SOT-23	Ultra low power 2.7V Reset, output delay, CMOS output	MAX823TEUK+	SMD 972-5784●	1.980	1.400	1.170	– –	– –
824	MAX	5	SOT-23	Ultra low power 4.5V Reset, output delay, CMOS output	MAX824LEUK+T	SMD 118-7964●	2.850	2.030	1.710	– –	– –
825	MAX	5	SOT-23	Ultra low power 2.7V Reset, output delay, Open Drain output	MAX825LEUK+T	SMD 118-7965●	2.460	1.580	1.360	– –	– –
831	ST	8	SOIC	Ultra low power 4.5V Reset, output delay, Open Drain output	TS831-4ID	SMD 975-5381●	0.970	0.790	0.700	0.590	0.530
831	ST	3	TO-92	MicroPower Voltage Supervisor. Reset Active Low, 4.50V. (IND TEMP)	TS831-4IZ	109-4383●	0.810	0.590	0.500	0.430	0.380
831	ST	8	SOIC	MicroPower Voltage Supervisor. Reset Active Low, 4.33V. (IND TEMP)	TS831-5ID	SMD 302-5093▲	0.500	0.460	0.450	– –	– –
831	ST	3	TO-92	MicroPower Voltage Supervisor. Reset Active Low, 4.33V. (IND TEMP)	TS831-5IZ	109-4384●	0.990	0.790	0.620	0.580	0.530
834	MAX	5	SOT-23	MicroPower, Voltage monitor With 1.204V bandgap Reference, comparator and latched output	MAX834EUK+	SMD 972-3960●	1.980	1.400	1.170	– –	– –
836	MAX	4	SOT-143	MicroPower, Voltage monitor With 1.204V bandgap Reference and comparator	MAX836EUS+	SMD 972-3978●	1.610	1.140	0.950	– –	– –
1184	ADI	10	MSOP	Ultra low power 2.7V Voltage detector, CMOS output	ADM1184ARMZ	NEW SMD 159-3536●	3.920	3.040	2.740	2.290	1.960
1185	ADI	10	MSOP	Ultra low power 2.7V Voltage detector, CMOS output	ADM1185ARMZ-1	SMD 146-1499●	2.790	2.350	1.750	1.660	1.550
1231	MAX	8	DIP	Power Monitor which detects out-of-tolerance Power supply conditions by means of a precise temperature compensated Reference circuit and warns processor based systems of impending Power failure	DS1231-20	391-372▲	6.940	5.570	4.390	– –	– –
1231	MAX	8	DIP	Power Monitor which detects out-of-tolerance Power supply conditions by means of a precise temperature compensated Reference circuit and warns processor based systems of impending Power failure	DS1231-20+	122-4205●	7.380	4.750	3.640	– –	– –

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	Mftr.	Pins	Pkg	Description	Mftrs. List No.		Order Code	Price Each 1+	10+	100+	250+	500+
1232	LT	8	SOIC	Ultra low power 2.7V Voltage detector, CMOS output	LTC1232CS8#PBF	NEW	SMD-166-3606●	3.470	2.700	2.160	1.790	1.610
1232	ADI	8	SOIC	Ultra low power 2.7V Voltage detector, CMOS output	ADM1232ARNZ		SMD-143-8812●	1.500	1.040	0.850	0.800	0.740
1232	ADI	8	DIP	Microprocessor Supervisory Circuit (as mAX1232)	ADM1232ANZ		107-9315●	1.570	1.040	0.770	– –	– –
1232	MAX	8	DIP	Ultra low power 2.7V Voltage detector, CMOS output	DS1232+		118-7974●	1.860	1.200	1.010	– –	– –
1232	MAX	8	DIP	Ultra low power 2.7V Voltage detector, CMOS output	DS1232LP+		118-7997●	2.010	1.430	1.400	– –	– –
1232	MAX	8	SOIC	Ultra low power 3.0V Voltage detector, CMOS output	DS1232LPS-2+		SMD-972-4877●	2.010	1.290	1.080	– –	– –
1232	LT	8	DIP	Ultra low power 3.0V Voltage detector, CMOS output	LTC1232CN8.#PBF		956-0939●	2.950	1.790	1.480	– –	– –
1232	MAX	8	DIP	Ultra low power 2.0V Voltage detector, Open Drain output	MAX1232CPA+		972-3757●	3.130	2.020	1.790	1.320	1.290
1232	MAX	8	SOIC	Ultra low power 2.0V Voltage detector, Open Drain output	MAX1232CSA+		SMD-972-5903●	3.130	2.020	1.790	1.320	1.290
1232	MAX	8	DIP	Ultra low power 2.7V Voltage detector, Open Drain output	MAX1232EPA+		972-4885●	4.440	3.150	2.650	– –	– –
1232	MAX	8	SOIC	Ultra low power 2.7V Voltage detector, Open Drain output	MAX1232ESA+		SMD-972-4664●	4.080	2.630	2.320	– –	– –
1233	MAX	3	TO-92	Ultra low power 2.7V Voltage detector, Open Drain output	DS1233-10+		125-7837●	1.230	0.790	0.670	0.580	0.500
1233	MAX	3	TO-92	Ultra low power 4.5V Voltage detector, Open Drain output	DS1233-5+		972-5881●	1.230	0.790	0.670	– –	– –
1233	MAX	3	TO-92	Ultra low power 4.5V Voltage detector, Open Drain output	DS1233A-10+		972-6454●	1.160	0.740	0.640	0.630	– –
1233	MAX	3	TO-92	Ultra low power 4.5V Voltage detector, Open Drain output	DS1233M-5		795-859▲	0.680	0.600	0.590	– –	– –
1317	MCHIP	5	SOT-23	Ultra low power 2.7V Voltage detector, CMOS output	MCP1317T-29LE/OT		SMD-143-9359●	0.430	0.310	0.240	– –	– –
1317	MCHIP	5	SOT-23	Ultra low power 2.7V Voltage detector, CMOS output	MCP1317T-46LE/OT		SMD-143-9360●	0.430	0.310	0.240	– –	– –
1318	MCHIP			Ultra low power 2.7V Voltage detector, CMOS output	MCP1318MT-46LE/OT	NEW	162-7185●	0.550	0.420	0.330	– –	– –
1319	MCHIP	5	SOT-23	Ultra low power 2.7V Voltage detector, CMOS output	MCP1319MT-29LE/OT		SMD-143-9361●	0.430	0.310	0.240	– –	– –
1319	MCHIP	5	SOT-23	Ultra low power 2.7V Voltage detector, CMOS output	MCP1319MT-46LE/OT		SMD-143-9362●	0.430	0.310	0.240	– –	– –
1320	MCHIP	5	SOT-23	Ultra low power 2.7V Voltage detector, CMOS output	MCP1320T-29LE/OT		SMD-143-9363●	0.430	0.310	0.240	– –	– –
1320	MCHIP	5	SOT-23	Ultra low power 2.7V Voltage detector, CMOS output	MCP1320T-46LE/OT		SMD-143-9365●	0.430	0.310	0.240	– –	– –
1321	MCHIP	6	SOT-23	Ultra low power 2.7V Voltage detector, CMOS output	MCP1321T-29LE/OT		SMD-143-9366●	0.430	0.310	0.240	– –	– –
1321	MCHIP	5	SOT-23	Ultra low power 2.7V Voltage detector, CMOS output	MCP1321T-46LE/OT		SMD-143-9367●	0.430	0.310	0.240	– –	– –
1322	MCHIP	5	SOT-23	Ultra low power 2.7V Voltage detector, CMOS output	MCP1322T-29LE/OT		SMD-143-9368●	0.430	0.310	0.240	– –	– –
1322	MCHIP	5	SOT-23	Ultra low power 2.7V Voltage detector, CMOS output	MCP1322T-46LE/OT		SMD-143-9369●	0.430	0.310	0.240	– –	– –
1403	ST	16	QFN	Ultra low power 2.7V Voltage detector, CMOS output	STM1403CSNQ6F		SMD-122-4454●	4.510	3.350	2.580	2.190	1.940
1705	MAX	8	NSOIC	Ultra low power 2.7V Voltage detector, CMOS output	DS1705ESA+	NEW	SMD-160-6602●	2.030	1.630	1.480	1.360	1.120
1706	MAX	8	NSOIC	Ultra low power 2.7V Voltage detector, CMOS output	DS1706LESA+	NEW	SMD-160-6603●	2.030	1.630	1.480	1.360	1.120
1706	MAX	8	NSOIC	Ultra low power 2.7V Voltage detector, CMOS output	DS1706SESA+	NEW	SMD-160-6604●	2.030	1.630	1.480	1.360	1.120
1707	MAX	8	NSOIC	Ultra low power 2.7V Voltage detector, CMOS output	DS1707ESA+	NEW	SMD-160-6605●	2.030	1.630	1.480	1.360	1.120
1707	MAX	8	DIP	Ultra low power 2.7V Reset, output delay, CMOS output.	DS1707EPA+		118-8067●	1.820	1.370	1.150	1.090	– –
1708	MAX	8	SOIC	Ultra low power 2.7V Voltage detector, CMOS output	DS1708ESA+	NEW	SMD-160-6606●	2.030	1.630	1.480	1.360	1.120
1810	MAX	3	TO-92	Ultra low power 4.5V Reset, output delay, CMOS output.	DS1810-10+		972-6462●	0.990	0.640	0.540	0.470	– –
1810	MAX	3	SOT-23	Ultra low power 2.7V Reset, output delay, Open Drain output	DS1810R-10+		SMD-972-6470●	1.290	0.920	0.770	0.740	– –
1811	MAX	3	SOT-23	Ultra low power 4.5V Reset, output delay, Open Drain output	DS1811R-10+		SMD-972-6136●	0.990	0.760	0.680	– –	– –
1812	MAX	3	TO-92	Microprocessor Supervisory Circuit With Power-on reset to alLow system Power and processor to stabilise, output intended for systems that require active High reset, 5V	DS1812-10+		972-6144●	1.290	0.920	0.770	– –	– –
1812	MAX	3	SOT-23	Microprocessor Supervisory Circuit With Power-on reset to alLow system Power and processor to stabilise, output intended for systems that require active High reset, 5V	DS1812R-10+		SMD-972-6152●	0.990	0.760	0.680	– –	– –
1813	MAX	3	TO-92	Microprocessor Supervisory Circuit With Power-on reset to alLow system Power and processor to stabilise, output pulled up With internal resistor, reset line internally debounced for pushbutton implementation, 5V	DS1813-10+		972-6179●	1.290	0.920	0.770	– –	– –
1813	MAX	3	SOT-23	Microprocessor Supervisory Circuit With Power-on reset to alLow system Power and processor to stabilise, output pulled up With internal resistor, reset line internally debounced for pushbutton implementation, 5V	DS1813R-10+		SMD-972-6160●	0.920	0.700	0.630	– –	– –
1813	MAX	3	SOT-23	Microprocessor Supervisory Circuit With Power-on reset to alLow system Power and processor to stabilise, output pulled up With internal resistor, reset line internally debounced for pushbutton implementation, 5V±5%	DS1813R-15+		SMD-972-4818●	1.070	0.750	0.610	– –	– –
1813	MAX	3	SOT-23	Microprocessor Supervisory Circuit With Power-on reset to alLow system Power and processor to stabilise, output pulled up With internal resistor, reset line internally debounced for pushbutton implementation, 5V±5%	DS1813R-5+		SMD-972-4826●	0.830	0.580	0.500	– –	– –
1816	ST	3	SOT-223	Low Power reset circuit, typ. 2.55V threshold	STM1816RWX7F		SMD-122-4456●	0.660	0.440	0.360	0.340	0.290
1816	ST	3	SOT-223	Low Power reset circuit, typ. 2.88V threshold	STM1816SWX7F		SMD-122-4457●	0.510	0.420	0.350	0.310	0.290
1818	MAX	3	SOT-23	Microprocessor Supervisory Circuit With Power-on reset to alLow system Power and processor to stabilise, output pulled up With internal resistor,reset line internally debounced for pushbutton implementation, 3.3V±10%.	DS1818R-10+		SMD-972-4796●	0.830	0.580	0.500	– –	– –
1818	MAX	3	SOT-23	Ultra low power 2.7V Voltage detector, CMOS output	DS1818R-5+		SMD-972-4800●	1.070	0.750	0.610	– –	– –
1818	ST	3	SOT-223	Ultra low power 3.0V Voltage detector, CMOS output	STM1818SWX7F		SMD-122-4460●	0.740	0.550	0.420	0.350	0.310
1818	ST	3	SOT-223	Ultra low power 3.0V Voltage detector, CMOS output	STM1818TWX7F		SMD-122-4461●	0.530	0.380	0.280	0.210	0.200
1832	CAT	8	SOIC	Ultra low power 2.7V Voltage detector, CMOS output	CAT1832V-G	NEW	SMD-165-6121●	0.650	0.500	0.400	0.330	0.310
1832	MAX	8	DIP	Ultra low power 2.0V Voltage detector, Open Drain output	DS1832+		128-7222●	2.150	1.770	1.330	– –	– –
1832	MAX	8	SOIC	Ultra low power 2.7V Voltage detector, Open Drain output	DS1832S+		SMD-972-3854●	1.660	1.480	1.440	– –	– –
1833	MAX	3	TO-92	Ultra low power 2.7V Voltage detector, Open Drain output	DS1833-5		300-1374▲	2.270	1.870	1.400	– –	– –
1834	MAX	8	SOIC	Ultra low power 2.7V Voltage detector, Open Drain output	DS1834AS+		SMD-972-3846●	2.150	1.380	1.170	– –	– –
2900	LT	10	MSOP	Ultra low power 2.7V Voltage detector, CMOS output	LTC2900-1CMS#PBF	NEW	SMD-166-3704●	3.310	2.570	2.050	1.710	1.530
2903	LT	6	TSOT-23	Ultra low power 2.7V Voltage detector, CMOS output	LTC2903CS6-A1#TRMPBF	NEW	SMD-166-3878●	3.280	2.540	2.030	1.690	1.520
2903	LT	6	TSOT-23	Ultra low power 2.7V Voltage detector, CMOS output	LTC2903CS6-D1#TRMPBF	NEW	SMD-166-3879●	3.280	2.540	2.030	1.690	1.520
2904	LT	8	TSOT-23	Ultra low power 2.7V Voltage detector, CMOS output	LTC2904ITS8#TRMPBF	NEW	SMD-166-3880●	2.950	2.280	1.830	1.520	1.360
2905	LT	8	TSOT-23	Ultra low power 2.7V Voltage detector, CMOS output	LTC2905ITS8#TRMPBF	NEW	SMD-166-3881●	2.950	2.280	1.830	1.520	1.360
2912	LT	8	TSOT-23	Ultra low power 2.7V Voltage detector, CMOS output	LTC2912ITS8-1#TRMPBF	NEW	SMD-166-3882●	3.280	2.540	2.030	1.690	1.520
2912	LT	8	TSOT-23	Ultra low power 2.7V Voltage detector, CMOS output	LTC2912ITS8-2#TRMPBF	NEW	SMD-166-3883●	3.280	2.540	2.030	1.690	1.520
2946	TI	8	TSSOP	Ultra low power 2.7V Voltage detector, CMOS output	UCC2946PW		SMD-146-1417●	2.380	1.960	1.490	1.300	1.280
3103	TI	6	SOT-23	Ultra low power 4.5V Voltage detector, Open Drain output	TPS3103K33DBVT		SMD-845-7018●	1.140	1.100	1.010	– –	– –
3106	TI	6	SOT-23	Ultra low power 4.5V Voltage detector, Open Drain output	TPS3106K33DBVT		SMD-845-7034●	1.140	1.100	1.010	– –	– –
3110	TI	6	SOT-23	Ultra low power 4.5V Voltage detector, Open Drain output	TPS3110K33DBVT		SMD-845-7042●	1.800	1.500	1.120	– –	– –
3285	TI	24	SSOP	Ultra low power 2.7V Reset, output delay, CMOS output.	BQ3285LFSS-A1		SMD-840-8050●	2.330	2.010	1.760	– –	– –
3305	TI	8	SOIC	Ultra low power 4.5V Reset, output delay, CMOS output.	TPS3305-18DG4		SMD-120-7320●	1.140	1.020	1.000	– –	– –
3305	TI	8	HTSSOP	Ultra low power 2.7V Reset, output delay, Open Drain output	TPS3305-18DGNG4		SMD-123-4704●	1.640	1.360	1.100	1.010	0.930
3305	TI	8	SOIC	Ultra low power 4.5V Reset, output delay, Open Drain output	TPS3305-25DG4		SMD-123-4815●	1.640	1.360	1.100	1.010	0.930
3305	TI	8	HTSSOP	Dual Processor Supervisory Circuit	TPS3305-25DGNG4		SMD-123-5017●	1.640	1.360	1.100	1.010	0.930
3305	TI	8	SOIC	Dual Processor Supervisory Circuit	TPS3305-33D		SMD-845-7069●	1.690	1.370	1.020	– –	– –
3306	TI	8	SOIC	Dual MPU supervisory circuit With open-drain reset and Power-fail o/ps (sense 2 level 1.8V).	TPS3306-18D		SMD-110-2966●	2.110	1.440	1.070	– –	– –
3307	TI	8	SOIC	Triple Supervisory circuit (1.8V) for DSP and Processor based systems,	TPS3307-18DG4		SMD-113-5961●	2.110	1.440	1.070	– –	– –
3307	TI	8	HTSSOP	Triple Supervisory circuit (1.8V) for DSP and Processor based systems,	TPS3307-18DGN		SMD-110-0959●	1.200	1.070	1.040	– –	– –
3307	TI	8	SOIC	Triple Processor Supervisory Circuit	TPS3307-25D		SMD-845-7093●	1.890	1.440	1.070	– –	– –
3307	TI	8	HTSSOP	Ultra low power 2.7V Voltage detector, CMOS output	TPS3307-25DGNG4		SMD-121-4434●	1.200	0.990	0.800	– –	– –
3307	TI	8	SOIC	Ultra low power 2.7V Voltage detector, CMOS output	TPS3307-33D		SMD-110-6064●	1.780	1.440	1.070	– –	– –
3307	TI	8	HTSSOP	Ultra low power 3.0V Voltage detector, CMOS output	TPS3307-33DGNG4		SMD-121-4435●	1.690	1.190	0.970	– –	– –
3470	NSC	5	SOT-23		LP3470IM5-3.08/NOPB	NEW	SMD-168-5550●	1.110	0.870	0.710	0.650	0.580
3470	NSC	5	SOT-23		LP3470IM5-2.63/NOPB	NEW	SMD-168-5699●	1.050	0.870	0.710	0.650	0.580
3510	TI	8	PDIP	Ultra low power 3.0V Voltage detector, CMOS output	TPS3510PE4		128-7684●	0.830	0.710	0.560	0.470	0.400
3619	TI	8	VSSOP	Ultra low power 2.0V Voltage detector, Open Drain output	TPS3619-33DGKG4		SMD-120-7322●	1.360	1.200	1.090	– –	– –
3704	NSC	10	MSOP		LM3704XCMM-308/NOPB	NEW	SMD-168-5655●	1.700	1.390	1.140	1.050	0.940
3704	NSC	10	MSOP	Ultra low power 2.7V Voltage detector, Open Drain output	LM3704YAMM-308		SMD-131-2721●	2.000	1.450	1.160	1.010	0.880
3704	NSC	10	MSOP	Ultra low power 2.7V Voltage detector, Open Drain output	LM3704YBMM-360		SMD-131-2722●	1.700	1.290	1.020	0.900	0.850
3704	NSC	10	MSOP	Ultra low power 2.7V Voltage detector, Open Drain output	LM3704YCMM-232		SMD-131-2723●	1.490	1.070	0.870	0.750	0.650
3704	NSC	10	MSOP	Ultra low power 2.7V Voltage detector, Open Drain output	LM3704YCMM-308		SMD-131-2724●	2.160	1.390	1.060	0.940	0.870
3705	TI	8	SOIC	Ultra low power 4.5V Voltage detector, Open Drain output	TPS3705-50DG4		SMD-123-4848●	1.010	0.830	0.680	0.630	0.570
3707	TI	8	SOIC	Ultra low power 4.5V Voltage detector, Open Drain output	TPS3707-33D		SMD-845-7140●	1.090	0.900	0.640	– –	– –
3710	NSC	10	MSOP	Ultra low power 2.7V Voltage detector, Open Drain output	LM3710YQMM-232		SMD-131-2725●	2.610	1.890	1.510	1.310	1.140
3722	NSC	5	SOT-23	Ultra low power 2.7V Reset, output delay, CMOS output.	LM3722IM5-2.32		SMD-977-9000●	1.820	1.080	0.800	– –	– –

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General Purpose Microprocessor Support ICs - continued

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
3722	NSC	5	SOT-23	Ultra low power 4.5V Reset, output delay, CMOS output	LM3722IM5-3.08	SMD 977-9019	1.750	1.210	0.970	– –	– –
3722	NSC	5	SOT-23	Ultra low power 2.7V Reset, output delay, Open Drain output	LM3722IM5-4.63	SMD 977-9027	1.750	1.210	0.970	– –	– –
3723	NSC	5	SOT-23	Ultra low power 4.5V Reset, output delay, Open Drain output	LM3723IM5-2.32	SMD 977-9035	1.260	0.880	0.680	– –	– –
3723	NSC	5	SOT-23	Microprocessor Supervisory Circuit With Active-High Reset, push-pull output, 2.32V threshold. (IND TEMP)	LM3723IM5-2.32...	SMD 412-4996	1.060	0.730	0.580	– –	– –
3723	NSC	5	SOT-23	Microprocessor Supervisory Circuit With Active-High Reset, push-pull output, 3.08V threshold. (IND TEMP)	LM3723IM5-3.08	SMD 977-9043	1.330	0.920	0.720	– –	– –
3723	NSC	5	SOT-23	Microprocessor Supervisory Circuit With Active-High Reset, 4.63V threshold. (IND TEMP)	LM3723IM5-4.63.	SMD 412-5010	0.870	0.590	0.570	– –	– –
3724	NSC	5	SOT-23	Microprocessor Supervisory Circuit With Active-Low open-drain Reset output, 2.32V threshold. (IND TEMP)	LM3724IM5-2.32	SMD 977-9060	1.750	1.210	0.970	– –	– –
3724	NSC	5	SOT-23	Ultra low power 2.7V Voltage detector, Open Drain output	LM3724IM5-3.08	SMD 977-9078	1.750	1.210	0.910	– –	– –
3724	NSC	5	SOT-23	Ultra low power 2.7V Voltage detector, Open Drain output	LM3724IM5-4.63	SMD 977-9086	1.310	0.910	0.710	– –	– –
3801	TI	5	SC-70	Ultra low power 4.5V Voltage detector, Open Drain output	TPS3801K33DCKRG4	SMD 128-7678	0.480	0.420	0.330	0.300	0.290
3807	TI	5	SC-70	Ultra low power 2.7V Voltage detector, CMOS output	TPS3807A30DCKTG4	SMD 149-4890	1.670	1.320	1.000	0.890	0.860
3808	TI	6	SOT-23	Ultra low power 4.5V Voltage detector, Open Drain output	TPS3808G01DBVT	SMD 113-5455	1.230	1.030	0.880	0.790	0.700
3808	TI	6	SOT-23	Ultra low power 4.5V Voltage detector, Open Drain output	TPS3808G01DBVTG4	SMD 932-4216	1.230	0.990	0.770	– –	– –
3809	TI	3	SOT-23	Ultra low power 2.7V Reset, output delay, CMOS output	TPS3809I50DBVRG4	SMD 128-7676	0.250	0.210	0.161	0.146	0.143
3809	TI	3	SOT-23	Ultra low power 4.5V Reset, output delay, CMOS output	TPS3809I50DBVT	SMD 110-3059	0.800	0.550	0.390	– –	– –
3809	TI	3	SOT-23	Ultra low power 2.7V Reset, output delay, Open Drain output	TPS3809I50DBVT..	SMD 845-7166	0.280	0.220	0.185	– –	– –
3809	TI	3	SOT-23	Ultra low power 4.5V Reset, output delay, Open Drain output	TPS3809I50DBVTG4	SMD 932-4224	0.300	0.250	0.220	– –	– –
3809	TI	3	SOT-23	Automotive CataLog 3-Pin Supply Voltage Supervisor	TPS3809I50QDBVRQ1	SMD 123-6574	0.770	0.550	0.420	0.320	0.280
3809	TI	3	SOT-23	3-Pin Supply Voltage Supervisor	TPS3809K33DBVRG4	SMD 128-7661	0.270	0.240	0.177	0.152	0.148
3809	TI	3	SOT-23	Supply Voltage supervisor (3.3V), compatible to mAX809	TPS3809K33DBVT	SMD 110-3116	0.550	0.450	0.390	– –	– –
3809	TI	3	SOT-23	Supply Voltage Supervisory	TPS3809K33DBVTG4	SMD 932-4232	0.300	0.250	0.220	– –	– –
3809	TI	3	SOT-23	Supply Voltage Supervisory Circuit	TPS3809L30DBVT	SMD 845-7174	0.540	0.450	0.320	– –	– –
3813	TI	6	SOT-23	Supervisory Circuit With Window-Watchdog	TPS3813I50DBVT	SMD 845-7182	1.630	1.370	1.020	– –	– –
3813	TI	6	SOT-23	Supervisory Circuit With Window-Watchdog	TPS3813K33DBVT	SMD 845-7190	1.630	1.370	1.020	– –	– –
3813	TI	6	SOT-23	Ultra low power 2.7V Voltage detector, CMOS output	TPS3813L30DBVT	SMD 845-7204	1.120	1.000	0.840	– –	– –
3820	TI	5	SOT-23	Ultra low power 2.7V Voltage detector, CMOS output	TPS3820-33DBVT	SMD 845-7212	0.950	0.810	0.640	– –	– –
3820	TI	5	SOT-23	Ultra low power 3.0V Voltage detector, CMOS output	TPS3820-50DBVT	SMD 845-7220	1.000	0.850	0.670	– –	– –
3823	TI	5	SOT-23	Ultra low power 2.0V Voltage detector, Open Drain output	TPS3823-33DBVTG4	SMD 123-4637	0.880	0.730	0.580	0.530	0.500
3823	TI	5	SOT-23	Ultra low power 2.0V Voltage detector, Open Drain output	TPS3823-50DBVTG4	SMD 123-4683	0.880	0.730	0.580	0.530	0.500
3824	TI	5	SOT-23	Ultra low power 2.7V Voltage detector, Open Drain output	TPS3824-33DBVRG4	SMD 128-7673	0.670	0.580	0.460	0.410	0.400
3824	TI	5	SOT-23	Ultra low power 2.7V Voltage detector, Open Drain output	TPS3824-33DBVTG4	SMD 123-4679	0.970	0.810	0.640	0.600	0.550
3824	TI	5	SOT-23	Ultra low power 2.7V Voltage detector, Open Drain output	TPS3824-50DBVTG4	SMD 123-4678	0.970	0.810	0.640	0.580	0.550
3825	TI	5	SOT-23	Ultra low power 4.5V Voltage detector, Open Drain output	TPS3825-50DBVT	SMD 845-7247	0.780	0.730	0.720	– –	– –
3828	TI	5	SOT-23	Ultra low power 4.5V Reset, output delay, CMOS output	TPS3828-33DBVT	SMD 845-7255	0.950	0.810	0.640	– –	– –
3828	TI	5	SOT-23	Ultra low power 2.7V Reset, output delay, Open Drain output	TPS3828-50DBVT	SMD 845-7263	0.910	0.680	0.570	– –	– –
3836	TI	5	SOT-23	Ultra low power 4.5V Reset, output delay, Open Drain output	TPS3836E18DBVT	SMD 845-7271	1.470	1.320	1.040	– –	– –
3836	TI	5	SOT-23	Ultra Low Current Supervisory Circuit	TPS3836H30DBVT	SMD 845-7280	1.540	1.390	1.040	– –	– –
3836	TI	5	SOT-23	Ultra Low Current Supervisory Circuit	TPS3836J25DBVT	SMD 845-7298	1.540	1.390	1.040	– –	– –
3836	TI	5	SOT-23	Ultra Low Current Supervisory Circuit	TPS3836K33DBVT	SMD 845-7301	1.470	1.320	1.040	– –	– –
3836	TI	5	SOT-23	Ultra Low Current Supervisory Circuit	TPS3836L30DBVT	SMD 845-7310	1.470	1.320	1.040	– –	– –
3837	TI	5	SOT-23	Ultra Low Current Supervisory Circuit	TPS3837K33DBVT	SMD 845-7328	1.470	1.320	1.040	– –	– –
3838	TI	5	SOT-23	Ultra Low Current Supervisory Circuit	TPS3838E18DBVT	SMD 845-7344	1.470	1.320	1.040	– –	– –
3838	TI	5	SOT-23	Ultra low power 2.7V Voltage detector, CMOS output	TPS3838J25DBVT	SMD 845-7352	1.540	1.390	1.040	– –	– –
3838	TI	5	SOT-23	Ultra low power 2.7V Voltage detector, CMOS output	TPS3838K33DBVT	SMD 845-7360	1.540	1.390	1.040	– –	– –
3838	TI	5	SOT-23	Ultra low power 3.0V Voltage detector, CMOS output	TPS3838L30DBVT	SMD 845-7379	1.540	1.390	1.040	– –	– –
4802	TI	28	SOIC	Ultra low power 3.0V Voltage detector, CMOS output	BQ4802LYDW	SMD 840-8220	2.360	2.300	2.240	– –	– –
5043	INTS	8	PDIP	Ultra low power 4.5V Reset, output delay, CMOS output	X5043PZ	NEW 156-2062	4.100	3.080	2.470	2.060	1.760
5961	MAX	48	TQFN	Ultra low power 4.5V Reset, output delay, CMOS output	MAX5961ETM+	NEW SMD 167-3073	15.190	11.400	9.110	8.290	7.590
6301	MAX	8	MicroMax	Ultra low power 2.7V Voltage detector, CMOS output	MAX6301CUA+	NEW SMD 161-0116	2.380	1.950	1.590	1.360	1.260
6301	MAX	8	DIP	Ultra low power 2.0V Voltage detector, Open Drain output	MAX6301CPA+	118-8061	3.060	2.160	1.830	1.730	– –
6301	MAX	8	SOIC	Ultra low power 2.0V Voltage detector, Open Drain output	MAX6301ESA+	SMD 972-5687	3.590	2.540	2.130	– –	– –
6315	ST	4	SOT-143	Ultra low power 2.7V Voltage detector, Open Drain output	STM6315RBW13F	SMD 127-1461	1.000	0.670	0.550	0.490	0.430
6326	MAX	3	SOT-23	Ultra low power 4.5V Voltage detector, Open Drain output	MAX6326UR29+	SMD 972-3951	1.610	1.140	0.950	– –	– –
6346	MAX	3	SOT-23	Ultra low power 2.7V Reset, output delay, CMOS output	MAX6346UR46+T	SMD 118-7935	1.280	0.900	0.820	– –	– –
6717	ST	5	SOT-23	Ultra low power 4.5V Reset, output delay, CMOS output	STM6717SFWY6F	122-4462	1.290	0.950	0.650	0.550	0.430
6822	ST	5	SOT-23	Supervisor With Watchdog Timer and Push-button Reset (Open-Drain Active Low)	STM6822RWY6F	SMD 122-4468	2.130	1.480	1.200	1.040	0.920
6822	ST	5	SOT-23	Supervisor With Watchdog Timer and Push-button Reset (Open-Drain Active Low)	STM6822SWY6F	SMD 122-4469	1.500	1.190	0.990	0.860	0.850
6822	ST	5	SOT-23	Supervisor With Watchdog Timer and Push-button Reset (Open-Drain Active Low)	STM6822TWY6F	SMD 122-4470	1.900	1.420	1.110	0.950	0.820
6823	ST	5	SOT-23	Ultra low power 4.5V Voltage detector, Open Drain output	STM6823SWY6F	SMD 122-4472	2.240	1.500	1.110	0.920	0.850
6823	ST	5	SOT-23	Ultra low power 4.5V Voltage detector, Open Drain output	STM6823TWY6F	SMD 122-4473	1.500	1.190	0.990	0.820	0.680
6824	ST	5	SOT-23	Ultra low power 4.5V Voltage detector, Open Drain output	STM6824RWY6F	SMD 127-1467	0.920	0.770	0.630	0.480	0.470
6824	ST	5	SOT-23	Ultra low power 2.7V Reset, output delay, CMOS output	STM6824SWY6F	SMD 127-1466	1.930	1.430	1.130	0.970	0.780
6824	ST	5	SOT-23	Ultra low power 4.5V Reset, output delay, CMOS output	STM6824TWY6F	SMD 127-1464	1.090	0.810	0.650	0.550	0.440
7665	INTS	8	SOIC	Ultra low power 4.5V Reset, output delay, CMOS output	ICL7665SACBAZ	NEW SMD 156-1970	2.620	2.270	1.830	1.520	1.300
7701	TI	8	TSSOP	Ultra low power 2.7V Voltage detector, CMOS output	TLC7701IPW	SMD 146-1368	1.380	0.940	0.680	0.630	0.580
7701	TI	8	SOIC	Ultra low power 2.7V Reset, output delay, Open Drain output	TLC7701IDG4	SMD 120-7286	0.640	0.610	0.570	– –	– –
7702	TI	8	SOIC	Ultra low power 4.5V Reset, output delay, Open Drain output	TL7702ACD	SMD 959-3667	0.300	0.260	0.220	– –	– –
7702	TI	8	SOIC	Single Supply Voltage Supervisor With Programmable UV Threshold & Reset Time Delay	TL7702AID	SMD 959-3675	0.380	0.310	0.260	– –	– –
7702	TI	8	SOIC	Single Supply Voltage Supervisor With Programmable UV Threshold & Reset Time Delay	TL7702BCD	SMD 959-3683	0.510	0.340	0.250	– –	– –
7703	TI	8	PDIP	Single SVS for 3.0V SYSTEMS W/Programmable TIME DELAY	TLC7703ID	SMD 128-7644	1.810	1.230	0.880	0.820	0.760
7703	TI	8	SOIC	Single SVS for 3.0V SYSTEMS W/Programmable TIME DELAY	TLC7703IDG4	SMD 123-4788	1.260	1.030	0.840	0.790	0.710
7705	TI	8	SOIC	Single Supply Voltage Supervisor for 5V Systems With Programmable Time Delay	TL7705ACDRG4	SMD 123-6543	0.240	0.161	0.131	0.121	0.110
7705	ST	8	DIP	Supply Voltage Supervisor	TL7705ACP/A	120-2828	0.880	0.790	0.680	0.600	0.350
7705	TI	8	SOIC	Ultra low power 2.7V Voltage detector, CMOS output	TL7705AID	SMD 959-3691	0.570	0.360	0.260	– –	– –
7705	TI	8	DIP	Ultra low power 2.7V Voltage detector, CMOS output	TL7705AIPG4	959-3705	0.270	0.220	0.180	– –	– –
7705	TI	8	SOIC	Ultra low power 2.7V Voltage detector, CMOS output	TL7705BCD	SMD 959-3713	0.310	0.200	0.175	– –	– –
7705	TI	8	DIP	Ultra low power 3.0V Voltage detector, CMOS output	TL7705BCPG4	958-9457	0.400	0.340	0.280	– –	– –
7705	TI	8	SOIC	Ultra low power 3.0V Voltage detector, CMOS output	TL7705BID	SMD 959-3721	0.650	0.410	0.290	– –	– –
7705	TI	8	SOIC	Ultra low power 2.0V Voltage detector, Open Drain output	TL7705ID	SMD 845-4663	1.030	0.910	0.680	– –	– –
7705	TI	8	PDIP	Ultra low power 2.0V Voltage detector, Open Drain output	TLC7705IP	845-4671	1.030	0.910	0.680	– –	– –
7705	TI	8	SOIC	Ultra low power 2.7V Voltage detector, Open Drain output	TLC7705QDG4	SMD 123-4983	0.690	0.620	0.560	0.510	0.470
7709	TI	8	SOIC	Ultra low power 2.7V Voltage detector, CMOS output	TL7709ACD..	NEW SMD 164-8653	0.980	0.800	0.650	0.610	0.580
7709	TI	8	PDIP	Ultra low power 2.7V Voltage detector, CMOS output	TL7709ACP..	NEW 164-8654	0.980	0.800	0.650	0.610	0.580
7715	TI	8	SOIC	Ultra low power 2.7V Voltage detector, CMOS output	TL7715ACD..	NEW SMD 164-8655	0.860	0.680	0.570	0.530	0.500
7733	TI	8	SOIC	Ultra low power 2.7V Voltage detector, Open Drain output	TLC7733ID	SMD 845-4680	1.390	1.220	0.880	– –	– –
7733	TI	8	SOIC	Ultra low power 4.5V Voltage detector, Open Drain output	TLC7733QDG4	SMD 123-4871	1.340	1.110	0.890	0.830	0.760
7757	TI	3	TO-92	Ultra low power 4.5V Voltage detector, Open Drain output	TL7757CLPG4	959-3764	0.340	0.300	0.260	– –	– –
7757	TI	3	SOT-89	Ultra low power 2.7V Reset, output delay, CMOS output	TL7757CPKG4	SMD 959-3772	0.280	0.240	0.191	– –	– –
7759	TI	8	PDIP	Ultra low power 4.5V Reset, output delay, CMOS output	TL7759CP	123-6546	0.830	0.630	0.470	0.430	0.410
7770	TI	16	SOIC	Ultra low power 2.7V Voltage detector, CMOS output	TL7770-5CDW..	NEW SMD 164-8656	1.530	1.220	1.010	0.940	0.900
7770	TI	16	SOIC	Ultra low power 2.7V Reset, output delay, Open Drain output	TL7770-5IDWE4	SMD 123-6547	1.860	1.310	1.070	1.040	1.020
8212	MAX	8	DIP	Ultra low power 2.7V Voltage detector, CMOS output	MAX8212CPA+	NEW 161-0130	2.140	1.750	1.440	1.210	1.140

RL Re-reeling available

	Mftr.	Pins	Pkg	Description
8215	MAX	14	SOIC	Ultra low power 4.5V Reset, output delay, Open Drain output
8216	MAX	14	SOIC	±5V and ±15V Microprocessor Voltage monitor.
13305	ADI	8	SOIC	Ultra low power 2.7V Voltage detector, CMOS output
13305	ADI	8	SOIC	Ultra low power 2.7V Voltage detector, CMOS output
13305	ADI	8	SOIC	Ultra low power 2.7V Voltage detector, CMOS output
13305	ADI	8	SOIC	Ultra low power 2.7V Voltage detector, CMOS output
13305	ADI	8	SOIC	Ultra low power 2.7V Voltage detector, CMOS output
16060	MAX	16	TQFN	Ultra low power 2.7V Voltage detector, CMOS output
16061	MAX	20	TQFN	Ultra low power 2.7V Voltage detector, CMOS output
16062	MAX	24	TQFN	Ultra low power 2.7V Voltage detector, CMOS output
33064	ON	3	TO-92	Microprocessor Reset Controller. (IND TEMP)
33161	ON	8	SOIC	Ultra low power 4.5V Voltage detector, Open Drain output
33164	ON	3	TO-92	Ultra low power 2.7V Reset, output delay, CMOS output.
33164	ON	3	TO-92	Ultra low power 4.5V Reset, output delay, CMOS output.
33164	ZET	3	TO-92	Ultra low power 2.7V Reset, output delay, Open Drain output
33164	ZET	3	SOT-223	Supply Voltage Monitor, threshold Voltage 4.3V
34064	ON	8	SOIC	Microprocessor Reset Controller With 4.6V threshold Voltage.
34064	ON	3	TO-92	Microprocessor Reset Controller With 4.6V threshold Voltage.
54310	TI	20	TSSOP	3V-to-6V Input, 3A Output Synchronous Buck PWM Switcher With Integrated FETS (SWIFT)
331643	ZET	3	SOT-223	Supply Voltage Monitor, threshold Voltage 2.68V
331643	ZET	3	TO-92	Ultra low power 4.5V Reset, output delay, Open Drain output

Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
MAX8215CSD+	SMD 972-5156●	4.410	2.840	1.920	– –	– –
MAX8216CSD+	SMD 972-5776●	3.380	2.870	2.480	– –	– –
ADM13305-18ARZ	NEW SMD 158-9550●	2.440	1.780	1.540	1.310	1.180
ADM13305-25ARZ	NEW SMD 158-9551●	2.440	1.780	1.540	1.310	1.180
ADM13305-33ARZ	NEW SMD 158-9552●	2.440	1.780	1.540	1.310	1.180
ADM13305-4ARZ	NEW SMD 158-9553●	2.440	1.780	1.540	1.310	1.180
ADM13305-5ARZ	NEW SMD 158-9554●	2.440	1.780	1.540	1.310	1.180
MAX16060ETE+	NEW SMD 167-3124●	8.620	6.460	5.170	4.700	4.310
MAX16061ETP+	NEW SMD 167-3125●	10.740	8.060	6.450	5.860	5.380
MAX16062ATG+	NEW SMD 167-3126●	12.380	9.280	7.430	6.760	6.190
MC33064P-5G	966-6710●	0.720	0.490	0.350	0.300	0.230
MC33161DG	SMD 119-2059●	1.840	1.110	0.750	– –	– –
MC33164P-3G	966-6737●	0.600	0.440	0.340	0.197	0.161
MC33164P-5G	966-6729●	0.650	0.480	0.430	0.270	0.200
ZM331643CL	113-2793●	0.870	0.700	0.550	0.400	0.370
ZM33164G TA.	SMD 302-3941▲	0.480	0.340	0.230	– –	– –
MC34064D-005G	SMD 966-6605●	0.720	0.490	0.350	0.300	0.230
MC34064P-5G	966-6613●	0.720	0.490	0.350	0.300	0.230
TPS54310PWPG4	SMD 932-4275●	4.250	3.240	2.490	– –	– –
ZM331643GTA.	SMD 302-3953▲	0.104	– –	– –	– –	– –
ZM331643CL.	791-453▲	0.106	– –	– –	– –	– –

Microperipheral and Interface Products

Product Range	V_{cc}	Reset	Output	Typical T_{RPU}	Typical I_{DD}
MCP100	1.0V-5.5V	Active Low	CMOS Push-Pull	350ms	45µA
MCP101	1.0V-5.5V	Active High	CMOS Push-Pull	350ms	45µA
MCP102	1.0V-5.5V	Active Low	CMOS Push-Pull	120ms	1.75µA
MCP103	1.0V-5.5V	Active Low	CMOS Push-Pull	120ms	1.75µA
MCP111	1.0V-5.5V	Active Low	CMOS Open Drain	90µs	1µA
MCP112	1.0V-5.5V	Active Low	CMOS Open Drain	90µs	1µA
MCP120	1.0V-5.5V	Active Low	CMOS Open-Drain	350ms	45µA
MCP121	1.0V-5.5V	Active Low	CMOS Open-Drain	120ms	45µA
MCP130	1.0V-5.5V	Active Low	CMOS Open-Drain w/5kΩ Pull-Up	350ms	20µA
MCP131	1.0V-5.5V	Active Low	CMOS Open-Drain	120ms	1.75µA

Note: MCP809 and MCP810 are similiar to MCP100 and MCP101, respectively, but available in 3-pin SOT-23, B bondout.

Trip points for all parts:	Min.	Max.
	2.63	2.70
	3.0	3.15
	4.25	4.50
	4.50	4.75

The manufacturers part number notation:
e.g. MCP100-315DI/TO.....
MCP100 Product range
315 denotes the maximum trip point of 3.15
D/F/G/H denotes D/F/G/H bondout, blank-non bondout type
TO denotes 3/TO-92, TT-3/SOT-23, SN-8/SOIC packages

Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
MCP120T-315I/TT	SMD 975-8437●	0.330	0.250	0.220	0.198	0.178
MCP120T-450I/TT	SMD 975-8445●	0.330	0.250	0.220	0.198	0.178
MCP120T-475I/TT	SMD 113-7306●	0.330	0.250	0.220	0.198	0.178
MCP120T-475I/TT.	SMD 302-1026	0.260	0.210	0.184	0.168	0.150
MCP121-450E/TO	875-2885●	0.200	0.140	0.125	– –	– –
MCP121T-475E/TT	SMD 875-2893●	0.270	0.187	0.167	– –	– –
MCP130-450DI/TO.	302-1075	0.270	0.200	0.186	0.168	0.150
MCP130-450DI/TO	113-7307●	0.290	0.230	0.198	0.170	0.147
MCP130-475DI/TO	119-6792●	0.220	0.176	0.141	0.114	0.094
MCP130-450FI/TO	108-4256●	0.200	0.158	0.142	0.128	0.115
MCP130-475FI/TO	975-8453●	0.200	0.158	0.142	0.128	0.115
MCP130-450HI/TO	121-2676●	0.200	0.158	0.142	0.128	0.115
MCP130-475HI/TO	975-8461●	0.200	0.158	0.142	0.128	0.115
MCP130T-315I/TT	SMD 975-8470●	0.350	0.260	0.240	0.220	0.195
MCP130T-450I/TT	SMD 975-8488●	0.260	0.200	0.176	0.158	0.142
MCP130T-475I/TT	SMD 975-8496●	0.270	0.220	0.176	0.145	0.130
MCP131T-450E/TT	SMD 875-2907●	0.270	0.187	0.167	– –	– –
MCP809T-270I/TT	SMD 108-4314●	0.330	0.250	0.220	– –	– –
MCP809T-315I/TT	SMD 108-4257●	0.330	0.250	0.220	0.198	0.178
MCP809T-450I/TT	SMD 975-8747●	0.280	0.250	0.200	0.160	0.145
MCP809T-475I/TT	SMD 975-8755●	0.280	0.250	0.200	0.160	0.145
MCP810T-315I/TT.	SMD 302-1245	0.300	0.230	0.210	0.184	0.168
MCP810T-315I/TT	SMD 121-2677●	0.270	0.210	0.187	0.171	0.154
MCP810T-450I/TT	SMD 113-7308●	0.330	0.250	0.220	0.198	0.178
MCP810T-475I/TT	SMD 121-2678●	0.200	0.158	0.140	0.128	0.116

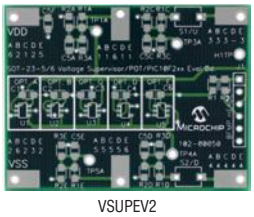
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Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
MCP100-300DI/TO	SMD 133-2051●	0.190	0.147	0.137	– –	– –
MCP100-315DI/TO	121-2673●	0.184	0.140	0.128	0.116	0.104
MCP100-450DI/TO	975-8330●	0.230	0.175	0.160	0.145	0.130
MCP100-475DI/TO	108-4253●	0.350	0.260	0.240	0.220	0.195
MCP100-450HI/TO	975-8348●	0.176	0.138	0.123	0.110	0.098
MCP100-475HI/TO	975-8356●	0.220	0.173	0.154	0.137	0.123
MCP100T-300I/TT	SMD 975-8364●	0.210	0.152	0.131	– –	– –
MCP100T-315I/TT	SMD 108-4255●	0.250	0.196	0.165	0.154	0.144
MCP100T-450I/TT	SMD 975-8372●	0.350	0.260	0.240	0.220	0.195
MCP100T-475I/TT	SMD 975-8380●	0.230	0.181	0.157	0.132	0.118
MCP101-450DI/TO	975-8399●	0.220	0.173	0.154	0.137	0.123
MCP120T-475I/TT	SMD 113-7306●	0.330	0.250	0.220	0.198	0.178
MCP101-300DI/TO	SMD 133-2052●	0.190	0.147	0.137	– –	– –
MCP101-475DI/TO	113-7304●	0.240	0.185	0.170	0.160	0.145
MCP101-475HI/TO.	302-0873	0.260	0.210	0.184	0.168	0.150
MCP101-475HI/TO	121-2674●	0.220	0.173	0.154	0.137	0.123
MCP101T-315I/TT	SMD 975-8402●	0.350	0.260	0.240	0.220	0.195
MCP101T-450I/TT	SMD 975-8410●	0.240	0.184	0.168	0.150	0.134
MCP101T-475I/TT.	SMD 302-0903	0.260	0.210	0.184	0.168	0.150
MCP101T-475I/TT	SMD 113-7305●	0.250	0.194	0.179	0.156	0.139
MCP120T-475I/TT	SMD 113-7306●	0.330	0.250	0.220	0.198	0.178
MCP102T-300E/TT	SMD 875-2842●	0.270	0.187	0.167	– –	– –
MCP102T-450E/TT	SMD 875-2850●	0.270	0.187	0.167	– –	– –
MCP103T-315E/TT	SMD 875-2869●	0.220	0.150	0.134	– –	– –
MCP103T-475E/TT	SMD 875-2877●	0.270	0.187	0.167	– –	– –
MCP111-290E/TO	SMD 133-2055●	0.250	0.196	0.176	– –	– –
MCP111-450E/TO	SMD 133-2056●	0.250	0.196	0.176	– –	– –
MCP111T-290E/TT	SMD 133-2057●	0.250	0.196	0.176	– –	– –
MCP111T-300E/TT	NEW SMD 160-5552●	0.300	0.230	0.181	– –	– –
MCP111T-450E/TT	SMD 133-2058●	0.250	0.196	0.176	– –	– –
MCP112-290E/TO	SMD 133-2059●	0.250	0.196	0.176	– –	– –
MCP112-450E/TO	SMD 133-2060●	0.250	0.196	0.176	– –	– –
MCP112T-290E/TT	SMD 133-2061●	0.250	0.196	0.176	– –	– –
MCP112T-450E/TT	SMD 133-2062●	0.250	0.196	0.176	– –	– –
MCP120-300DI/TO	SMD 133-2063●	0.250	0.196	0.176	– –	– –
MCP120-450DI/TO	975-8429●	0.290	0.230	0.198	0.170	0.147
MCP120-315HI/TO	121-2675●	0.280	0.210	0.192	0.176	0.156
MCP130-300DI/TO	133-2069●	0.240	0.196	0.176	– –	– –
MCP130T-300I/TT	SMD 133-2070●	0.300	0.250	0.220	– –	– –
MCP130-450DI/TO.	302-1075	0.270	0.200	0.186	0.168	0.150
MCP130-450DI/TO	113-7307●	0.290	0.230	0.198	0.170	0.147
MCP130-475DI/TO	119-6792●	0.220	0.176	0.141	0.114	0.094
MCP810T-450I/TT	SMD 113-7308●	0.330	0.250	0.220	0.198	0.178
MCP1316T-29LE/OT	SMD 133-2071●	0.400	0.340	0.230	– –	– –
MCP1316T-46LE/OT	SMD 133-2072●	0.400	0.340	0.230	– –	– –
MCP1318T-29LE/OT	SMD 133-2073●	0.400	0.340	0.230	– –	– –

VSUPEV / VSUPEV2 Voltage Supervisor Evaluation Boards

MICROCHIP



VSUPEV2

The **VSUPEV** quickly evaluates operation of Voltage Supervisors and Detectors in the Microchip SOT-23-3 package. The generic board evaluates SOT-23-3 devices such as LDO and Votage References. Four blank PCBs are also included for testing multiple devices.
The **VSUPEV2** is a blank PCB that allows quick evaluation of Voltage Supervisors and Detectors in the Microchip SOT-23-5 /6 packages. This PCB supports many Microchip devices, including the non-volatile digital potentiometer and PIC10F2xx devices.

494855

Mftrs. List No.	Description	Order Code	Price Each 1+
VSUPEV	SOT-23-3 Voltage Supervisor Evaluation Board	133-2320●	3.58
VSUPEV2	SOT-23-5/6 Voltage Supervisor Evaluation Board	133-2321●	7.15

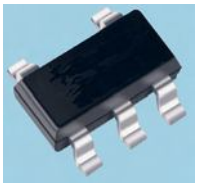
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General Purpose Microprocessor Support ICs - continued

LM372x Reset Circuits

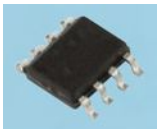


The LM3722/LM3723/LM3724 microprocessor supervisory circuits monitor the power supplies in microprocessor and digital systems. They provide a reset to the microprocessor during power-up, power-down, brown-out conditions, and manual reset.

492389

	Mftrs. List No.	Pins/Package	Reset Threshold (V)	Features	Order Code	Price Each 1+	10+	100+	250+	500+
3722	LM3722EM5-2.32	5/SOT-23	2.32	Active-Low RESET Push-Pull Output	SMD 131-2726	1.90	1.44	1.13	1.00	0.95
3722	LM3722EM5-3.08	5/SOT-23	3.08	Active-Low RESET Push-Pull Output	SMD 131-2727	2.23	1.62	1.31	1.12	0.99
3722	LM3722EM5-4.63	5/SOT-23	4.63	Active-Low RESET Push-Pull Output	SMD 131-2729	1.90	1.44	1.13	1.00	0.95
3723	LM3723EM5-2.32	5/SOT-23	2.32	Active-High RESET Push-Pull Output	SMD 131-2731	1.90	1.44	1.13	1.00	0.95
3723	LM3723EM5-3.08	5/SOT-23	3.08	Active-High RESET Push-Pull Output	SMD 131-2732	1.90	1.44	1.13	1.00	0.95
3723	LM3723EM5-4.63	5/SOT-23	4.63	Active-High RESET Push-Pull Output	SMD 131-2733	1.55	1.12	0.91	0.78	0.68
3724	LM3724EM5-2.32	5/SOT-23	2.32	Active-Low Open-Drain RESET Output	SMD 131-2734	1.90	1.44	1.13	1.00	0.95
3724	LM3724EM5-3.08	5/SOT-23	3.08	Active-Low Open-Drain RESET Output	SMD 131-2735	2.42	1.56	1.17	1.03	0.97
3724	LM3724EM5-4.63	5/SOT-23	4.63	Active-Low Open-Drain RESET Output	SMD 131-2736	1.55	1.12	0.91	0.78	0.68

STM Supervisor & Reset Circuits



This set of Supervisors are self-contained devices which provide microprocessor supervisory functions. A precision voltage reference and comparator monitors the Vcc input for out of tolerance conditions, when an invalid condition is detected the reset is forced high or low depending on the device. Most devices include a watchdog timer and a power-fail comparator to warn of any impending power failure.

Mftrs. List No	Watchdog Input	Watchdog Output	Active High Reset	Active Low Reset	Manual Reset Input	Battery Switchover	Power-Fail Comparator	Chip-Enable Gating
STM690....	✓	–	–	✓	–	✓	✓	–
STM704....	✓	–	–	✓	✓	✓	–	✓
STM706PM6E	✓	✓	✓	–	✓	–	✓	–
STM706....	✓	✓	–	–	✓	–	✓	–
STM708....	–	–	✓	✓	✓	–	✓	–
STM795...	–	–	–	✓	–	✓	✓	–
STM805....	✓	–	✓	–	–	✓	✓	–
STM813....	✓	✓	✓	–	✓	–	✓	–
STM817....	✓	–	–	✓	–	✓	✓	–
STM818....	✓	–	–	✓	–	✓	–	✓
STM819....	–	–	–	✓	–	✓	✓	–

404634

Threshold Voltage (V)	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
3V							
690	2.63	STM690RM6E SMD 928-2858	2.25	1.83	1.50	1.26	1.09
690	3.08	STM690TM6E SMD 928-2874	2.25	1.83	1.50	1.26	1.09
704	2.63	STM704RM6E SMD 928-2882	1.86	1.65	1.25	1.03	1.00
704	2.93	STM704SM6E SMD 928-2890	2.08	1.83	1.40	1.16	1.06
704	3.08	STM704TM6E SMD 928-2904	2.08	1.83	1.40	1.16	1.11
795	2.63	STM795RM6E SMD 928-2980	1.75	1.44	1.21	1.10	1.07
795	2.93	STM795SM6E SMD 928-2998	2.62	2.23	1.88	1.60	1.43
795	3.08	STM795TM6E SMD 928-3005	2.62	2.15	1.80	1.57	1.35
805	2.63	STM805RM6E SMD 928-3013	1.38	1.13	0.93	0.77	0.74
805	2.93	STM805SM6E SMD 928-3021	1.38	1.13	0.93	0.77	0.74
805	3.08	STM805TM6E SMD 928-3030	1.38	1.13	0.93	0.77	0.74
5V							
706	2.65	STM706PM6E SMD 928-2912	1.00	0.87	0.77	0.68	0.62
706	2.65	STM706RM6E SMD 928-2920	1.42	1.14	0.95	0.80	0.68
706	2.94	STM706SM6E SMD 928-2939	1.42	1.14	0.95	0.80	0.75
706	3.08	STM706TM6E SMD 928-2947	1.42	1.13	0.85	0.73	0.62
708	2.65	STM708RM6E SMD 928-2955	0.94	0.75	0.64	0.52	0.50
708	2.94	STM708SM6E SMD 928-2963	1.26	1.00	0.78	0.65	0.55
708	3.08	STM708TM6E SMD 928-2971	1.42	1.14	0.95	0.80	0.75
813	4.63	STM813LM6E SMD 928-3048	1.42	1.14	0.95	0.80	0.75
817	4.63	STM817LM6E SMD 928-3056	2.25	1.91	1.66	1.47	1.32
817	4.38	STM817MM6E SMD 928-3064	2.23	1.81	1.59	1.54	1.51
818	4.63	STM818LM6E SMD 928-3072	1.89	1.68	1.55	1.40	1.18
818	4.38	STM818MM6E SMD 928-3080	1.73	1.40	1.36	1.32	1.29

STM1001/809/810/811/812 Microprocessor Reset Circuits





STM1001/809/810/811/812 Microprocessor Reset Circuits are low-power supervisory devices used to monitor power supplies. They perform a single function: asserting a reset signal whenever the VCC supply voltage drops below a preset value and keeping it asserted until VCC has risen above the preset threshold for a minimum periodof time (trec). The STM811/812 also provide a push-button reset input (MR).

Features:

- Precision Monitoring of 3V, 3.3V, and 5V Supply voltages
- Low Supply Current - 6µA (Typical)
- 140ms Reset Pulse Width (Minimum)
- Guaranteed RST/RST Assertion Down to VCC = 1.0V
- Operating Temperature: -40°C to 85°C (Industrial Grade)
- Small SOT23 and SOT143 package

383703

	Pins/Package	Type	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
809	3/SOT-23	Active Low, Push Pull	STM809LWX6F	SMD 869-0391	0.510	0.320	0.250
809	3/SOT-23	Active Low, Push Pull	STM809MWX6F	SMD 869-0405	0.510	0.320	0.250
809	3/SOT-23	Active Low, Push Pull	STM809RWX6F	SMD 869-0413	0.510	0.320	0.250
809	3/SOT-23	Active Low, Push Pull	STM809SWX6F	SMD 869-0421	0.340	0.260	0.220
809	3/SOT-23	Active Low, Push-Pull	STM809TWX6F	SMD 869-0430	0.510	0.320	0.250
810	3/SOT-23	Active High, Push-Pull	STM810LWX6F	SMD 869-0448	0.360	0.280	0.200
810	3/SOT-23	Active High, Push-Pull	STM810RWX6F	SMD 869-0464	0.420	0.330	0.240
810	3/SOT-23	Active High, Push-Pull	STM810SWX6F	SMD 869-0472	0.510	0.320	0.250
810	3/SOT-23	Active High, Push-Pull	STM810TWX6F	SMD 869-0480	0.280	0.220	0.159
811	4/SOT-143	Active Low, Push-Pull	STM811MW16F	SMD 869-0502	0.510	0.370	0.290
811	4/SOT-143	Active Low, Push-Pull	STM811SW16F	SMD 869-0529	0.690	0.460	0.380
811	4/SOT-143	Active Low, Push-Pull	STM811TW16F	SMD 869-0537	0.690	0.460	0.380
812	4/SOT-143	Active High, Push-Pull	STM812LW16F	SMD 869-0545	0.690	0.460	0.380
812	4/SOT-143	Active Low, Push-Pull	STM812RW16F	SMD 869-0561	0.550	0.410	0.310
812	4/SOT-143	Active Low, Push-Pull	STM812SW16F	SMD 869-0570	0.550	0.410	0.310
1001	3/SOT-223	Active Low, Open Drain	STM1001RWX6F	SMD 122-4446	0.600	0.440	0.310
1001	3/SOT-223	Active Low, Open Drain	STM1001SWX6F	SMD 122-4447	0.360	0.290	0.240
1001	3/SOT-23	Active Low, Open Drain	STM1001TWX6F	SMD 122-4448	0.510	0.370	0.300

RL Re-reeling available

Low Power Supervisory Circuits & Control

EXAR

406025

	Pins/Package	Description	Reset Threshold (V)
690	8/NSOIC	Low Power Microprocessor Supervisory With Battery Switch-Over	4.65
690	8/NSOIC	3.0V/3.3V Low Power Microprocessor Supervisory With Battery Switch-Over	2.625
690	8/NSOIC	3.0V/3.3V Low Power Microprocessor Supervisory With Battery Switch-Over	3.075
691	16/NSOIC	Low Power Microprocessor Supervisory With Battery Switch-Over	4.65
691	16/WSOIC	Low Power Microprocessor Supervisory With Battery Switch-Over	4.65
692	8/NSOIC	Low Power Microprocessor Supervisory With Battery Switch-Over	4.4
704	8/NSOIC	Low Power Microprocessor Supervisory With Battery Switch-Over	4.4
705	8/NSOIC	Low Power Microprocessor Supervisory Circuit	4.65
706	8/NSOIC	Low Power Microprocessor Supervisory Circuit	4.4
706	8/NSOIC	Low Power Microprocessor Supervisory Circuit	4.4
706	8/NSOIC	Low Power Microprocessor Supervisory Circuit	4.4
706	8/NSOIC	Low Power Microprocessor Supervisory Circuit	4.4
706	8/NSOIC	Low Power Microprocessor Supervisory Circuit	4.4
707	8/NSOIC	Low Power Microprocessor Supervisory Circuit	4.65
708	8/NSOIC	Low Power Microprocessor Supervisory Circuit	4.4
708	8/NSOIC	Low Power Microprocessor Supervisory Circuit	4.4
791	16/NSOIC	Low Power Microprocessor Supervisory With Battery Switch-Over	4.65
813	8/NSOIC	Low Power Microprocessor Supervisory Circuits	4.65
2525	8/NSOIC	+3.0V to +5.5V USB Power Control Switch	
2526	8/NSOIC	+3.0V to +5.5V USB Power Control Switch	

Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
SP690AEN-L	SMD 938-9156	1.58	1.30	1.09	1.01	0.94
SP690REN-L	SMD 938-9148	1.58	1.30	1.09	1.01	0.94
SP690TEN-L	SMD 938-9130	1.58	1.30	1.09	1.01	0.94
SP691AEN-L	SMD 938-9121	1.27	1.13	1.03	0.94	0.86
SP691AET-L	SMD 938-9113	1.58	1.30	1.09	1.01	0.94
SP692AEN-L	SMD 938-9105	1.84	1.62	1.44	1.30	1.18
SP704EN-L	SMD 938-9083	1.27	1.05	0.89	0.82	0.77
SP705EN-L	SMD 938-9075	0.97	0.79	0.66	0.62	0.58
SP706EN-L	SMD 938-9067	0.97	0.79	0.66	0.62	0.58
SP706PEN-L	SMD 938-9059	0.68	0.55	0.47	0.44	0.42
SP706REN-L	SMD 938-9040	0.89	0.80	0.70	0.65	0.61
SP706SEN-L	SMD 938-9032	1.03	0.85	0.71	0.66	0.62
SP706TEN-L	SMD 938-9024	1.03	0.85	0.71	0.66	0.62
SP707EN-L	SMD 938-9016	1.03	0.85	0.71	0.66	0.62
SP708EN-L	SMD 938-9008	1.18	0.97	0.81	0.74	0.70
SP708TEN-L	SMD 938-8990	0.92	0.75	0.64	0.59	0.56
SP791EN-L	SMD 938-8982	4.07	3.32	2.79	2.59	2.44
SP813LEN-L	SMD 938-8966	0.94	0.84	0.76	0.70	0.64
SP2525A-2EN-L	SMD 938-6602	1.25	1.02	0.85	0.79	0.74
SP2526-1EN-L	SMD 938-6610	1.25	1.02	0.85	0.79	0.74

ZXCT10xx Current Monitors

SMD ZETEX SEMICONDUCTORS

496792

Pins/Pkg	Description	V_{IN}	Accuracy @ V_{SENSE}	Quiescent Current (Typ)	Bandwidth	Operating Temp
5/SOT-23	High-Side Low Drift Current Monitor	2.5 to 20V	±2.5% @100mV	4µA	1.5MHz	-40°C to 125°C
5/SOT-23	Low Offset High-Side Current Monitor	2.5 to 20V	±2% @100mV	25µA	1MHz	-40°C to 85°C
5/SOT-23	Low Offset High-Side Current Monitor	2.5 to 20V	±3% @100mV	25µA	1MHz	-40°C to 85°C
8/SOIC	High-Side Current Monitor with Comparator	2.5 to 20V	±3% @100mV	270µA	6MHz	-40°C to 85°C
5/SOT-23	Bidirectional High-Side Current Monitor	2.7 to 20V	±3% @100mV	35µA	0.3MHz	-40°C to 125°C
5/SOT-23	Wide Common-Mode Input, Current Output Monitor	2.7 to 20V	±3% @100mV	45µA	0.5MHz	-40°C to 125°C
5/SOT-23	High Voltage High-Side Current Monitor	3 to 40V	±3% @100mV	30µA	0.5MHz	-40°C to 125°C

Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+
ZXCT1011E5TA	SMD 146-1561	1.53	1.18	0.67	0.52
ZXCT1021E5TA	SMD 146-1562	1.69	1.30	0.83	0.72
ZXCT1022E5TA	SMD 146-1563	1.69	1.30	0.83	0.72
ZXCT1030N8TA	SMD 146-1565	1.52	1.13	0.99	0.89
ZXCT1041E5TA	SMD 146-1566	2.03	1.58	1.09	0.95
ZXCT1050E5TA	SMD 146-1567	1.23	0.95	0.84	0.76
ZXCT1081E5TA	SMD 146-1568	1.96	1.47	0.94	0.81

Crystal Oscillator Modules

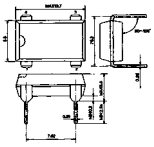
Single Output Modules

EPSON TOYOCOM

8 pin DIL Package - TTL Output (with output enable function)



Pin 1 = O/E
Pin 2 = GND
Pin 3 = OUTPUT
Pin 4 = +5V ±10%



These single output oscillators are housed in a DIL plastic package. The package has 4 pins spaced as the corner pins of a 0.3" 8 pin DIL. Outputs are at TTL levels.

	4 to 24MHz	32 to 50MHz
Output rise time	8ns	5ns
Output fall time	8ns	7ns
Supply current	25mA	35mA
Output Load	10TTL (50pF)	5TTL (50pF)

Temperature range -10°C to 70°C Duty cycle 40 to 60%
Frequency stability ±100ppm Mftrs. List No. SG531P4MHZ+ Frequency in MHz

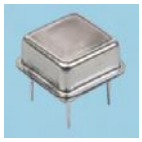
210514

Frequency MHz	Order Code	Price Each 1+	10+	100+	250+
4	121-6189	4.54	3.59	3.02	2.30
4.9152	121-6190	4.54	3.59	3.02	2.30
8.0	121-6191	4.45	3.52	2.96	2.25
10.0	121-6192	4.54	3.59	3.02	2.30
12.0	121-6194	4.54	3.59	3.02	2.30
16.0	121-6195	4.54	3.59	3.02	2.30
20.0	121-6196	4.54	3.59	3.02	2.30
24.0	121-6197	4.45	3.52	2.96	2.25
32.0	121-6198	4.54	3.59	3.02	2.30
40.0	121-6199	4.54	3.59	3.02	2.30
50.0	121-6201	4.54	3.59	3.02	2.30

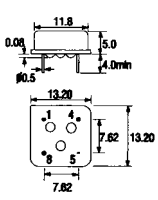
Single Output Modules

8 pin DIL - HCMOS Output

IQD Frequency Products



Pin 1 = NC
Pin 4 = GND I
Pin 5 = Output
Pin 8 = +5 ±10%



These single output oscillators are housed in a hermetically sealed metal package 13.2mm sq. with 4 pins spaced as the corners of an 0.3" 8 pin DIL. Outputs are at CMOS levels.

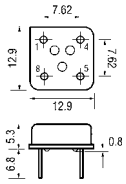
Output rise time 5ns Temperature stability ±100ppm Duty cycle 45 to 60% max.
Output fall time 5ns Max supply current 25mA 45 to 60% (MC)
Temperature range 0°C to 70°C Output load 15pF

210515

Frequency MHz	Mftr.	Order Code	Price Each 1+	10+	100+
3.6864	CMAC	971-2968	3.19	1.96	1.42
4	CMAC	971-2976	3.75	2.71	2.10
8	CMAC	971-2984	3.15	2.02	1.49
12	CMAC	971-2992	2.40	1.57	1.17
16	CMAC	971-3000	3.75	3.30	2.86
20	CMAC	971-3018	3.15	2.02	1.49
32	CMAC	971-3026	3.47	2.10	1.51
40	CMAC	971-3034	3.75	3.30	2.86
50	CMAC	971-3042	3.71	3.20	2.67

8 pin DIL - Universal Output

AEL CRYSTALS LIMITED



	Rise/fall times	Max. supply currents
3.6864MHz to 20MHz	10ns	20mA
24MHz to 64MHz	6ns	40mA

Temperature range 0°C to 70°C Duty cycle 45 to 55%
Temperature stability ±100ppm

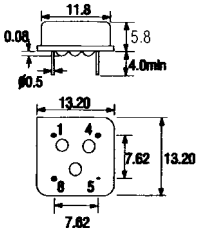
Pin 1 = NC
Pin 4 = GND
Pin 5 = Output
Pin 8 = +VDC

210691

Frequency MHz	Order Code	Price Each 1+	10+	100+
3.6864	951-0095	2.57	2.12	1.42
8	951-0109	2.55	2.14	1.50
12	951-0117	2.87	2.28	1.50
16	951-0125	2.87	1.89	1.55
20	951-0133	2.87	2.28	1.50
24	951-0141	3.02	2.41	1.63
32	951-0150	2.89	2.24	1.49
40	951-0168	2.87	2.28	1.55
50	951-0176	2.57	2.12	1.42
64	951-0184	2.87	2.28	1.55

8 pin DIL - Universal Output with Enable/Disable

IQD Frequency Products



	Rise/fall times	Max. supply currents
upto 5MHz	15ns/15ns	20mA
5MHz to 16MHz	10ns15ns	30mA

Temperature range -45°C to 85°C **(IND TEMP)**
Frequency stability ±100ppm
Duty cycle 55 to 55%

Pin 1 = Enable/Disable
Pin 4 = GND
Pin 5 = Output
Pin 8 = +5V DC

RL Re-reeling available

Farnell

Crystal Oscillator Modules - continued

8 pin DIL - Universal Output with Enable/Disable - continued

210812

Frequency MHz	Order Code	Price Each 1+	10+	100+
8.192	**971-2135●**	18.27	14.98	11.59
12.288	**971-2143●**	18.27	14.98	11.59
24.576	**971-2160●**	18.27	14.98	11.59

8 pin DIL - Universal Output with Enable/Disable

AEL CRYSTALS LIMITED

Pin configurations as above with Pin1 = Enable/Disable.

210693

Frequency MHz	Order Code	Price Each 1+	10+	100+
8.00	**950-9984●**	3.08	2.29	1.66
10.0	**950-9992●**	3.08	2.29	1.66
20.0	**951-0001●**	3.08	2.29	1.66
25.0	**951-0010●**	3.08	2.29	1.66
40.0	**951-0028●**	3.08	2.29	1.66
50.0	**951-0036●**	3.08	2.29	1.66

Simple Clock Oscillators

12-Series & 97-Series

AEL CRYSTALS LIMITED





Oscillator Type	Available Freq Range	Standard Freq Tolerance	Description
AEL 97-series14-Pin DIP	400kHz ~ 160MHz	+/-100PPM - All conditions	+5V or +3.3V DC - HCMOS/TTL Output
AEL 12-series8-Pin DIP	400kHz ~ 160MHz	+/-100PPM - All conditions	+5V or +3.3V DC - HCMOS/TTL Output

484719

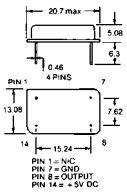
Frequency (MHz)	Pins/Pkg	Supply Voltage (V)	Supply Current (mA)	Rise/Fall Time (ns)	Temp. Range °C	Mftrs. List No	Order Code	Price Each 1+	10+	100+	250+	500+
1	8/DIL	5	20	8 / 8	0 to +70	01M0000000L002	**144-8072●**	1.99	1.59	1.34	1.23	1.05
4	8/DIL	5	20	8 / 8	0 to +70	04M0000000L134	**144-8073●**	1.99	1.59	1.34	1.23	1.05
25	8/DIL	5	30	8 / 8	0 to +70	025M000000L063	**144-8074●**	1.99	1.59	1.34	1.23	1.05
80	8/DIL	5	60	8 / 8	0 to +70	080M000000L164	**144-8076●**	2.56	2.05	1.70	1.58	1.35
100	8/DIL	5	60	8 / 8	0 to +70	0100M000000L010	**144-8077●**	2.98	2.38	1.98	1.83	1.57
80	14/DIL	5	60	8 / 8	0 to +70	080M000000L433	**144-8088●**	2.56	2.05	1.70	1.58	1.35
100	14/DIL	5	60	8 / 8	0 to +70	0100M000000L434	**144-8089●**	2.98	2.38	1.98	1.83	1.57
125	14/DIL	5	60	8 / 8	0 to +70	0125M000000L004	**144-8091●**	3.75	3.00	2.50	2.32	1.98
133	14/DIL	5	60	8 / 8	0 to +70	0133M000000L002	**144-8093●**	5.19	4.15	3.46	3.20	2.73

Single Output Modules

14 pin DIL - Universal Output

IQD Frequency Products





Single output oscillators in hermetically sealed 14 pin DIL packages.

Frequency Range MHz	Frequency Stability	Supply Voltage	Supply Current	Rise Time	Fall time	Duty Cycle	Temp. Range
1MHz - 5MHz	100ppm	5V±0.25V	30mA	15ns	15ns	45/55%	0 - + 70°C
5MHz - 16MHz	100ppm	5V±0.25V	30mA	15ns	15ns	45/55%	0 - + 70°C
16MHz - 30MHz	100ppm	5V±0.25V	15mA	10ns	10ns	45/55%	0 - + 70°C
30MHz - 50MHz	100ppm	5V±0.25V	30mA	10ns	10ns	45/55%	0 - + 70°C
50MHz - 66MHz	100ppm	5V±0.25V	40mA	8ns	8ns	45/55%	0 - + 70°C

210849

Frequency MHz	Order Code	Price Each 1+	10+	100+
1	**971-2402●**	3.61	3.30	2.76
1.8432	**971-2410●**	2.79	1.81	1.34
2	**971-2429●**	3.71	2.24	1.42
3.6864	**971-2437●**	3.30	2.07	1.32
4.096	**971-2445●**	3.03	1.85	1.20
4.9152	**971-2453●**	2.93	2.07	1.32
5	**971-2461●**	2.93	2.07	1.32
6	**971-2666●**	2.97	2.32	2.00
8	**971-2470●**	1.79	1.34	1.07
9.8304	**971-2488●**	2.93	2.07	1.32
10	**971-2496●**	2.89	2.28	1.97
12	**971-2500●**	3.03	1.85	1.20
12.288	**971-2518●**	2.93	2.07	1.32
16	**971-2526●**	3.03	2.13	1.47
18.432	**971-2534●**	3.02	2.02	1.47
19.6608	**971-2542●**	2.93	2.07	1.32
20	**971-2550●**	3.02	2.02	1.56
24	**971-2569●**	2.80	2.21	1.91
25	**971-2585●**	2.85	2.00	1.28
30	**971-2607●**	2.93	2.07	1.32
30	**971-2607●**	2.93	2.07	1.32
32	**971-2674●**	2.57	1.67	1.24
33.33	**971-2615●**	3.03	2.13	1.37
40	**971-2623●**	2.99	2.37	2.04
48	**971-2631●**	3.15	1.92	1.24
50	**971-2640●**	2.92	1.96	1.41
64	**971-2658●**	3.31	2.69	2.40
66	**971-3689●**	3.25	2.11	1.57

Single Output Modules

14 pin DIL - Universal Output

AEL CRYSTALS LIMITED

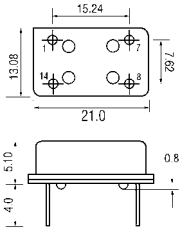
As above (177-410 through to 483-400) with Universal Output (Both TTL and CMOS compatible)

210569

Frequency MHz	Order Code	Price Each 1+	10+	100+
1.0	**950-9798●**	3.10	2.26	1.54
4.0	**950-9704●**	3.10	2.26	1.54
8.0	**950-9712●**	3.10	2.26	1.54
10.0	**950-9720●**	3.10	2.26	1.54
20.0	**950-9747●**	3.10	2.26	1.54
32.0	**950-9763●**	3.27	2.40	1.62
40.0	**950-9771●**	3.10	2.26	1.54
50.0	**950-9780●**	3.10	2.26	1.54

14 pin DIL - Universal Output with Enable/Disable

IQD Frequency Products



	Rise/fall times	Max. supply currents
up to 5MHz	15ns/15ns	20mA
5MHz to 16MHz	15ns15ns	20mA
16MHz to 25MHz	10ns10ns	30mA

Temperature range -45°C to 85°C **(IND TEMP)**
Temperature stability 100ppm
Duty cycle 45 to 55%

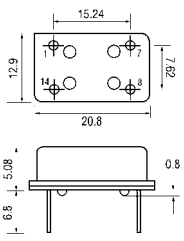
Pin 1 = Enable/Disable
Pin 7 = GND
Pin 8 = Output
Pin 14 = +5V DC

210811

Frequency MHZ	Order Code	Price Each 1+	10+	100+
8.192	**971-2186●**	17.87	16.41	12.69
24.576	**971-2194●**	17.87	16.41	12.69

14 pin DIL - Universal Output with Enable/Disable

AEL CRYSTALS LIMITED



	Rise/fall times	Max. supply currents
8MHz to 20MHz	10ns	20mA
25MHz to 50MHz	6ns	40mA

Temperature range 0°C to 70°C Duty cycle 40 to 55%
Temperature stability 100ppm

Pin 1 = Enable/Disable
Pin 7 = GND
Pin 8 = Output
Pin 14 = +V DC

210696

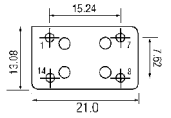
RL Re-reeling available

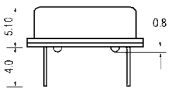
Farnell

£ € 40,000 PRICES REDUCED

Frequency MHz	Order Code	Price Each 1+	10+	100+
8.00	951-0044●	3.36	2.42	1.75
16.0	951-0052●	3.18	2.29	1.66
20.0	951-0060●	3.18	2.29	1.66
25.0	951-0079●	3.18	2.29	1.66
50.0	951-0087●	3.18	2.29	1.66

14 pin DIL - Voltage Control Crystal Oscillators





	Rise/fall times	Max. supply currents
upto 24MHz	10ns/10ns	15mA

Temperature range 0°C to 70°C Duty cycle 45 to 60%
Frequency stability 50ppm

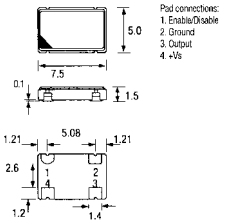
Pin 1 = Voltage Control
Pin 7 = GND
Pin 8 = Output
Pin 14 = +5V DC

210809

Frequency MHz	Order Code	Price Each 1+	10+	100+
10	971-2232●	13.86	10.64	10.23
12.288	971-2240●	10.92	8.16	6.62
16.384	971-2259●	13.86	10.35	8.39

Single Output Modules

SMD - Tri-state HCMOS (3.3V)



A range of single output oscillators housed in surface mount packages.

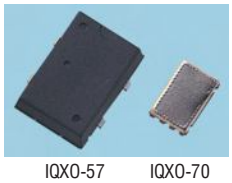
Output rise time	6ns
Output fall time	6ns
Supply current	15mA (<35MHz), 30mA (35.1 to 70.0MHz), 40mA (70 to 125 MHz),
Supply voltage	3.3V ± 0.3V
Duty cycle	45 to 55%
Temperature stability	50ppm
Temperature range	0°C to 70°C
Case Style	CFPS-73

244734

Frequency MHz	Order Code	Price Each 1+	10+	100+	250+
4	SMD 971-3450●	4.46	3.55	2.63	2.09
8	SMD 971-3468●	4.46	3.55	2.63	2.09
10	SMD 971-3476●	4.46	3.55	2.63	2.09
12	SMD 971-3484●	4.28	3.41	2.53	2.01
12.288	SMD 971-3492●	4.46	3.55	2.63	2.09
14.31818	SMD 971-3506●	4.46	3.55	2.63	2.09
16	SMD 971-3514●	4.46	3.55	2.63	2.09
16.384	SMD 971-3522●	4.46	3.55	2.63	2.09
20	SMD 971-3530●	4.46	3.55	2.63	2.09
24	SMD 971-3549●	4.46	3.55	2.63	2.09
32.768	SMD 971-3557●	4.49	3.57	2.64	2.10
40	SMD 971-3565●	4.67	3.73	2.75	2.18
50	SMD 971-3573●	4.67	3.73	2.75	2.18
60	SMD 971-3581●	4.89	3.90	2.88	2.28
80	SMD 971-3590●	4.67	3.74	3.66	2.84
100	SMD 971-3603●	9.62	8.23	6.75	6.05
106.25	SMD 971-3611●	6.38	5.45	4.46	4.02
125	SMD 971-3620●	9.63	8.15	6.84	5.74

Single Output Modules

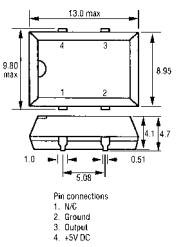
SMD - Tri-state HCMOS/LS TTL Output



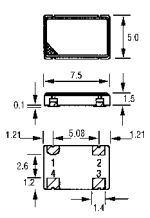
IQXO-57 IQXO-70

	IQXO-57	IQXO-70
Output rise time	8ns	8ns
Output fall time	8ns	8ns
Supply current	15mA	15mA
Output load	50pF	50pF
Duty cycle	40 to 60%	40 to 60%
Temperature stability	±100ppm	±100ppm
Temperature range	0°C to 70°C	0°C to 70°C

A range of single output oscillators housed in surface mount packages.



IQXO-57



IQXO-70

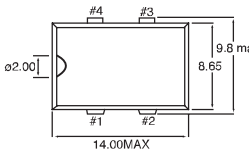
210603

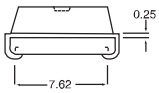
Frequency MHz	Can Style	Order Code	Price Each 1+	10+	100+
4	IQXO-57	SMD 971-3832●	2.70	2.01	1.67
4	IQXO-57	SMD 971-3638●	4.77	3.66	2.67
8	IQXO-57	SMD 971-3840●	3.96	2.83	2.30
8	IQXO-57	SMD 971-3646●	4.70	3.61	2.63
12	IQXO-57	SMD 971-3654●	4.77	3.66	2.67
16	IQXO-57	SMD 971-3867●	3.96	2.83	2.30
16	IQXO-57	SMD 971-3662●	4.59	3.51	2.57
20	IQXO-57	SMD 971-3875●	3.96	2.83	2.30
20	IQXO-57	SMD 971-3670●	4.59	3.51	2.57

Single Output Modules

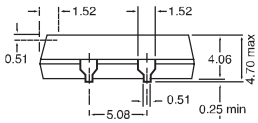
4 pin SMD – TTL Output







Pin 1 = OE
Pin 2 = GND
Pin 3 = OUTPUT
Pin 4 = +5V ±10%



These single output oscillators are housed in a surface mount package. The device has an Output Enable function and has low current consumption.

	4 to 24MHz	32 to 50MHz
Output rise time	8ns	5ns
Output fall time	8ns	5ns
Supply current	23mA	35mA
Output load	10TTL (50pF)	5TTL (50pF)
Temperature range	-10°C to 70°C	-10°C to 70°C
Duty cycle	40 to 60%	40 to 60%
Mftrs. List No.	SG615P + Frequency in MHz	

210584

Frequency MHz	Stability ±ppm	Order Code	Price Each 1+	10+	100+	250+
4	100ppm	SMD 121-6215●	6.00	4.25	3.41	2.69
5	50ppm	SMD 121-6203●	7.83	5.06	4.16	3.21
12	100ppm	SMD 121-6216●	6.00	4.25	3.41	2.69
14.31818	100ppm	SMD 121-6221●	4.79	3.41	2.72	2.15
16	100ppm	SMD 121-6217●	6.00	4.25	3.41	2.69
20	50ppm	SMD 121-6204●	7.99	5.16	4.24	3.27
24	100ppm	SMD 121-6222●	5.88	4.17	3.34	2.64
25	50ppm	SMD 121-6205●	7.99	5.16	4.24	3.27
32	100ppm	SMD 121-6218●	6.00	4.25	3.41	2.69
40	100ppm	SMD 121-6219●	6.00	4.25	3.41	2.69
40	50ppm	SMD 121-6206●	5.87	3.80	3.12	2.41
50	100ppm	SMD 121-6220●	4.70	3.34	2.67	2.11
50	50ppm	SMD 121-6207●	5.87	3.80	3.12	2.41

SG-310 Series Clock Oscillator



- Supply Voltage 2V7 to 3V6
- Operating temperature -20 to +70°C
- Stability ±100ppm
- Output load CMOS 15pF max
- Output rise & fall time 4ns max
- Output enable/disable
- Current consumption at 4.0 MHz 2.0mA max with no load
- Current consumption at 8.0, 14.31818, 16.0, 20.0 & 24.0 MHz 2.5mA max with no load
- Current consumption at 25.0 & 32.0 MHz 3.5mA max with no load
- Current consumption at 40.0 & 48.0 MHz 4.5mA max with no load
- Duty cycle 45/55%
- SMD size 3.2x2.5x1.05mm

451033

Mftrs. List No.	Order Code	Price Each 1+	10+	100+
SG-310 SCF C 14.31818MHZ	SMD 127-8057●	1.95	1.63	1.41
SG-310 SCF C 16.0MHZ	SMD 127-8061●	1.95	1.63	1.41
SG-310 SCF C 20.0MHZ	SMD 127-8064●	1.95	1.63	1.41
SG-310 SCF C 24.0MHZ	SMD 127-8066●	1.95	1.63	1.41
SG-310 SCF C 25.0MHZ	SMD 127-8067●	1.95	1.63	1.41
SG-310 SCF C 32.0MHZ	SMD 127-8068●	1.82	1.59	1.35
SG-310 SCF C 4.0MHZ	127-8051●	1.95	1.63	1.41
SG-310 SCF C 40.0MHZ	SMD 127-8069●	1.95	1.63	1.41
SG-310 SCF C 48.0MHZ	SMD 127-8070●	1.95	1.63	1.41
SG-310 SCF C 8.0MHZ	SMD 127-8055●	1.95	1.63	1.41

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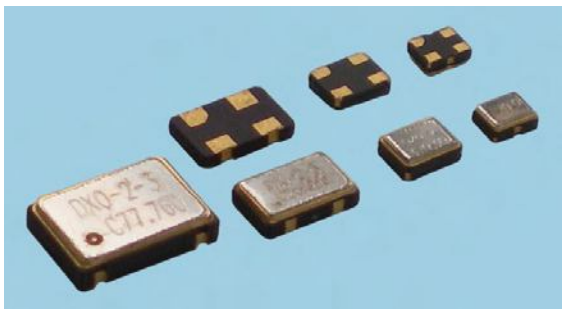
RL Re-reeling available

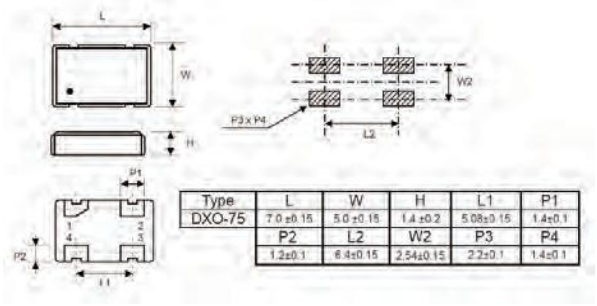
Crystal Oscillator Modules - continued

DXO-57 SMD Clock Oscillators

multicomp

New



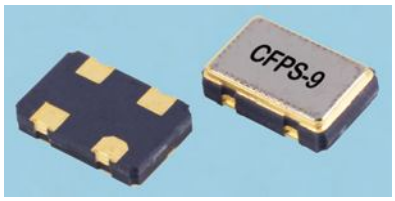


These **DXO57** Quartz crystal oscillators are housed in a small 5x7mm ultra thin ceramic package. They have a 3.3V supply voltage, HCMOS/TTL output and Tri-state option.

525374

Frequency MHz	Can Style	Frequency Tolerance @25°C	Symmetry	Input Voltage	Temperature Range	Order Code	Price Each 1+	10+	100+
4.0	DXO57	±50ppm	T	3.3V	0°C to +70°C	**166-7028●**	2.30	2.09	1.53
8.0	DXO57	±50ppm	T	3.3V	0°C to +70°C	**166-7029●**	2.30	2.09	1.53
10.0	DXO57	±50ppm	T	3.3V	0°C to +70°C	**166-7030●**	2.30	2.09	1.53
12.0	DXO57	±50ppm	T	3.3V	0°C to +70°C	**166-7031●**	2.30	2.09	1.53
16.0	DXO57	±50ppm	T	3.3V	0°C to +70°C	**166-7032●**	2.30	2.09	1.53
20.0	DXO57	±50ppm	T	3.3V	0°C to +70°C	**166-7033●**	2.30	2.09	1.53
24.0	DXO57	±50ppm	T	3.3V	0°C to +70°C	**166-7034●**	2.30	2.09	1.53
32.768	DXO57	±50ppm	T	3.3V	0°C to +70°C	**166-7035●**	2.30	2.09	1.53
40.0	DXO57	±50ppm	T	3.3V	0°C to +70°C	**166-7036●**	2.30	2.09	1.53
50.0	DXO57	±50ppm	T	3.3V	0°C to +70°C	**166-7037●**	2.30	2.09	1.53
60.0	DXO57	±50ppm	T	3.3V	0°C to +70°C	**166-7039●**	2.81	2.55	1.88
80.0	DXO57	±50ppm	T	3.3V	0°C to +70°C	**166-7041●**	3.57	3.25	2.39
100.0	DXO57	±50ppm	T	3.3V	0°C to +70°C	**166-7042●**	5.71	5.10	4.08

CFPS-9 Clock Oscillators



- **Output Compatibility & Load:**
  - Tri-state HCMOS (3.3V)
  - Drive Capability 15pF max
- **Tri-state Operation:**
  - Logic '1' (>70% Vs) to pad 1 enables oscillator output
  - Logic '0' (<30% Vs) to pad 1 disables oscillator output; when disabled the oscillator output goes to the high impedance state
  - No connection to pad 1 enables oscillator output
- **Standby Current:**
  - 10µA max

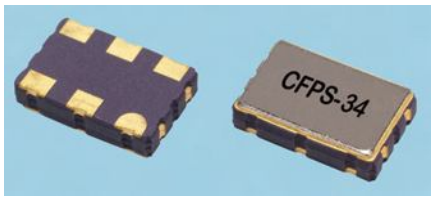
New

IQD Frequency Products

527247

Frequency MHz	Package	Frequency Stability	Operating Temperature Range	Load Cap	Rise Time (tr)	Fall Time (tf)	Duty Cycle	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
4	5 x 3mm	±50ppm	-40°C to +85°C	15pF	6ns	6ns	45 / 55%	LF SPXO024978	SMD **167-4658●**	2.84	2.07	1.62
6	5 x 3mm	±50ppm	-40°C to +85°C	15pF	6ns	6ns	45 / 55%	LF SPXO025820	SMD **167-4659●**	2.84	2.07	1.62
10	5 x 3mm	±50ppm	-40°C to +85°C	15pF	6ns	6ns	45 / 55%	LF SPXO024807	SMD **167-4660●**	2.84	2.07	1.62
12	5 x 3mm	±50ppm	-40°C to +85°C	15pF	6ns	6ns	45 / 55%	LF SPXO026152	SMD **167-4661●**	2.84	2.07	1.62
24	5 x 3mm	±50ppm	-40°C to +85°C	15pF	6ns	6ns	45 / 55%	LF SPXO024986	SMD **167-4662●**	2.84	2.07	1.62
32	5 x 3mm	±50ppm	-40°C to +85°C	15pF	6ns	6ns	45 / 55%	LF SPXO024880	SMD **167-4664●**	2.84	2.07	1.62
40	5 x 3mm	±50ppm	-40°C to +85°C	15pF	6ns	6ns	45 / 55%	LF SPXO026068	SMD **167-4665●**	2.99	2.18	1.71
50	5 x 3mm	±50ppm	-40°C to +85°C	15pF	6ns	6ns	45 / 55%	LF SPXO024589	SMD **167-4666●**	3.14	2.28	1.80

CFPS-34 Clock Oscillators



- **Output Compatibility & Load:**
  - LVPECL
  - Output Load 50Ω terminated to +1.3V
- **Tri-state Operation:**
  - Logic '1' (>70% Vs) to pad 1 enables oscillator output
  - Logic '0' (<30% Vs) to pad 1 disables oscillator output; the oscillator output goes to the high impedance state
  - No connection to pad 1 enables oscillator output
- **Output Voltage:**
  - '0' Level VoL +1.7V max
  - '1' Level VoH +2.2V min
- **Phase Jitter:**
  - 1ps rms max (12kHz - 20MHz)

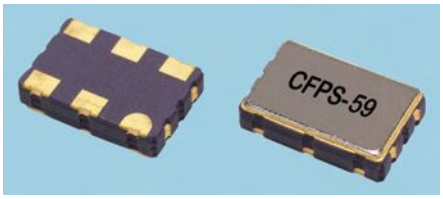
IQD Frequency Products

New

527253

Frequency MHz	Package	Frequency Stability	Operating Temperature Range	Load Cap	Rise Time (tr)	Fall Time (tf)	Duty Cycle	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
100	7 x 5mm	±100ppm	-40°C to +85°C	–	1ns	1ns	40 / 60%	LF SPXO024888	SMD **167-4667●**	15.86	12.20	10.58
106.25	7 x 5mm	±100ppm	-40°C to +85°C	–	1ns	1ns	40 / 60%	LF SPXO026794	SMD **167-4668●**	15.86	12.20	10.58
125	7 x 5mm	±100ppm	-40°C to +85°C	–	1ns	1ns	40 / 60%	LF SPXO026795	SMD **167-4669●**	15.86	12.20	10.58
155.25	7 x 5mm	±100ppm	-40°C to +85°C	–	1ns	1ns	40 / 60%	LF SPXO025111	SMD **167-4670●**	16.81	12.93	11.21
156.25	7 x 5mm	±100ppm	-40°C to +85°C	–	1ns	1ns	40 / 60%	LF SPXO026796	SMD **167-4671●**	16.81	12.93	11.21

CFPS-59 Clock Oscillators



- **Output Compatibility & Load:**
  - 2.5V LVPECL
  - Output Load 50Ω terminated to Vs-2.0V
- **Tri-state Operation:**
  - Logic '1' (>70% Vs) to pad 1 enables oscillator output
  - Logic '0' (<30% Vs) to pad 1 disables oscillator output; the oscillator output goes to the high impedance state
  - No connection to pad 1 enables oscillator output
- **Stand-by Current:**
  - 30µA max
- **Output Voltage:**
  - '0' Level (VoL), +1.195V max
  - '1' Level (VoH), +1.415V min
- **Phase Jitter (12kHz to 20MHz):**
  - 1ps rms max

New

IQD Frequency Products

527255

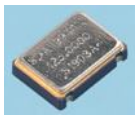
Frequency MHz	Package	Frequency Stability	Operating Temperature Range	Load Cap	Rise Time (tr)	Fall Time (tf)	Duty Cycle	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
77.67	7 x 5mm	±50ppm	-40°C to +85°C	–	0.7ns	0.7ns	45 / 55%	LF SPXO026936	SMD167-4689●	15.37	11.82	10.25
100	7 x 5mm	±50ppm	-40°C to +85°C	–	0.7ns	0.7ns	45 / 55%	LF SPXO026937	SMD167-4690●	18.25	14.04	12.17
125	7 x 5mm	±50ppm	-40°C to +85°C	–	0.7ns	0.7ns	45 / 55%	LF SPXO026938	SMD167-4691●	18.25	14.04	12.17
155.52	7 x 5mm	±50ppm	-40°C to +85°C	–	0.7ns	0.7ns	45 / 55%	LF SPXO026939	SMD167-4692●	19.31	14.86	12.88

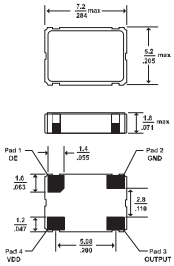
Single Output Modules

SaRonix

S1903 Series

SMD - 3.3V Tri-state CMOS, HCMOS, Output





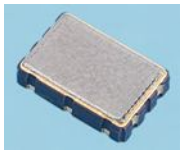
A series of crystal low-current oscillators in a sub-miniature, low profile leadless ceramic package with gold-plated contact pads.

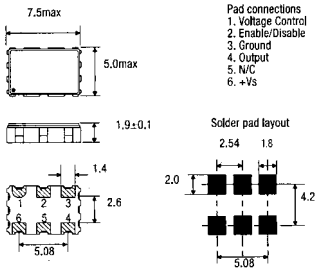
Supply Voltage: 3.3V±10%
Supply Current: 35mA max @ 3.3V
Operating Temp.: 0°C to +70°C
Output: 45/55%max @ 50% VDD @ 3.3V
Rise & Fall Times: 2ns max 20% to 80% VDD

211011

Frequency MHz	Mftrs List No.	Order Code	Price Each 1+	10+	100+	250+	500+
80	S1903C-80.00-E	SMD121-0012●	14.53	12.88	10.82	8.38	7.90
100	S1903C-100.00-E	SMD121-0015●	20.38	18.06	15.18	11.76	11.09
120	S1903C-120.00-E	SMD121-0018●	14.53	12.88	10.82	8.38	7.90

6-pin SMD - Voltage Control Crystal Oscillator





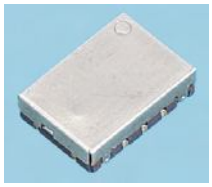
A range of oscillators with high degree of frequency stability over a wide temperature range.

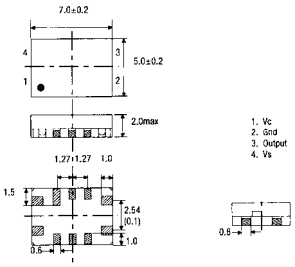
Supply Voltage	3.3V±0.16V	Rise Time	5ns
Supply Current	15mA	Fall time	5ns
Frequency stability	50ppm	Duty cycle	40/60%
Output frequency change	100ppm min		

210953

Frequency MHz	Order Code	Price Each 1+	10+	100+
8.192	SMD971-3255●	13.15	10.49	8.51

4-pin SMD - Temperature Compensated Voltage Crystal Oscillator





A range of temperature compensated oscillators with high degree of frequency stability over a wide temperature range.

Supply Voltage:	3V±0.15V	Output	0.8Vp-p min
Supply Current:	2mA max @ 3.3V	Stability	2.5ppm
Voltage control change	±1259 min/1.5V ±1.0V		

210952

Frequency MHz	Order Code	Price Each 1+	10+	100+
13.0	SMD971-3247●	8.30	6.31	5.01

Voltage Controlled Crystal Oscillator

EPSON TOYOCOM



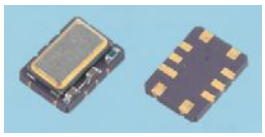
These crystals are 6 pin SMD, sized 7x5mm. The 27MHx VCXO crystal has a maximum supply current of 20 mA. Suitable for MPEG 2, wireless remote and video reference systems.

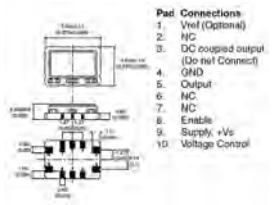
- Supply voltage 3V3 ±0.3
- Operating temperature DRC -20 to +70°C & GRC -40 to +85°C
- Stability ±35ppm
- Output load CMOS 15pF
- Output rise & fall time 4ns max
- Output enable/disable
- Current consumption 10mA max No load
- Duty Cycle 40/60%
- Pulling ±130ppm

451054

Mftrs. List No.	Order Code	Price Each 1+	10+	100+
VG-4231CA DRC-T 27.0MHZ	SMD127-8080●	5.16	4.33	3.72
VG-4231CA GRC 27.0MHZ	SMD127-8081●	6.08	5.09	4.38

8 - pin SMD - High Stability TCXO





A surface mountable TCVCXO series, named 'PLUTO' - a single chip oscillator and analogue compensation circuit capable of sub 1ppm performance over extended temperature.

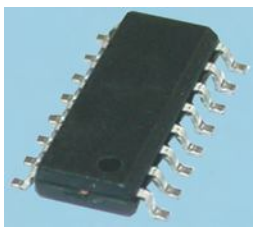
Supply Voltage - Optimum	3.3V ±10%	Output fall time	8ns
Frequency Stability	±1ppm	Output load	15pF
Operating Temperature	-40°C to +85°C	Duty cycle	4555/%
Output rise time	8ns	Case style	7 x 5mm

240243

Frequency MHz	Order Code	Price Each 1+	10+	100+
10	SMD971-3360●	34.15	28.60	23.20
12.8	SMD971-3387●	34.15	28.60	23.20
16.384	SMD971-3409●	34.15	28.60	23.20
38.88	SMD971-3433●	35.22	29.49	23.94
40	SMD971-3441●	40.22	33.70	27.36

16-pin SMD Temperature Compensated Crystal Oscillator

MAXIM



A range of surface mount temperature compensated crystal oscillators capable of operating at 3.3V (±10%). The DS4026 implements an on-chip temperature sensor lookup table, and a digital-to-analog converter (DAC) to adjust the frequency.

Supply Voltage	3.3V Typ
Supply Current	2.5mA Typ
Deviation	Less than ±4.6ppm over 10 years
Output Waveform	Push-Pull CMOS Square Wave

RL Re-reeling available

Crystal Oscillator Modules - continued

16-pin SMD Temperature Compensated Crystal Oscillator - continued

480879

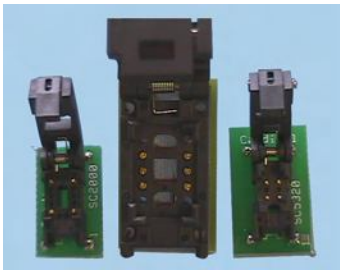
Frequency MHz	Temperature Range °C	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
12.8	-40 to 85	DS4026S+BCN	SMD 143-3250●	52.17	36.82	29.28	27.13	26.62
20	-40 to 85	DS4026S+JCN	SMD 143-3252●	59.09	41.69	33.17	30.74	30.15

FIPO™ PG-3000 Programmer

CARDINAL COMPONENTS



Programmer



SMD Adapter

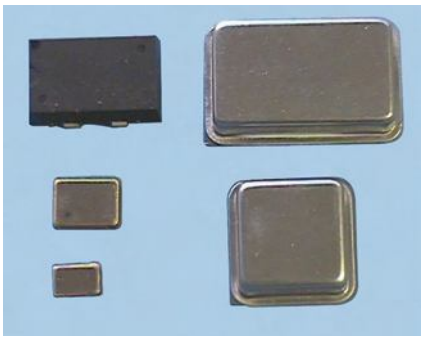
- PC-based Programmer
- USB-Connection
- Adapted for Microsoft Windows 98SE, ME, 2000 and XP
- Menu-led programming of blank oscillators
- Adapters for SMD packages available

380833

Mftrs. List. No	Order Code	Price Each 1+
PG3000 Programmer	841-0631	324.71
SMD-Adapter for Programmer		
SC2000 SMD-Adapter for 5x7 Blanks	841-0640	47.68

FIPO™ Programmable Oscillators

CARDINAL COMPONENTS



- Create oscillators, at user specified frequency, within seconds, in the field
- Low Jitter
- Internal frequency reference for single step programming
- Frequency ranges available from 1MHz to 133MHz
- Oscillator characteristics selected via keypad and VCD display

Oscillators with identifier A7BR frequency ranges are available from ±50ppm over -40°C to +85°C, with identifier A5BC frequency ranges are available from ±25ppm over -20°C to +70°C.

Technical data		
Frequency range	1MHz -	(selectable)
Temp.-Stability	+-50ppmppm or +-25ppm	
Operating Temp.	-20°C - +70°C -40°C - 85°C	
	CMOS/TTL	
Output	Tristate/Power-Down Function	(selectable)
Voltage	3.3V or 5V	(selectable)

Order Code	Description
841-0674	5 x 7 Ceramic ±50ppmppm CMOS/TTL 3.3V/5V TS/PD
841-0682	5 x 7 Ceramic ±25ppmppm CMOS/TTL 3.3V/5V TS/PD
841-0720	DIL Half Size ±25ppmppm CMOS/TTL 3.3V/5V TS/PD
841-0747	DIL-14 ±25ppmppm CMOS/TTL 3.3V/5V TS/PD
841-0763	3.2 x 5 Ceramic ±25ppmppm CMOS/TTL 3.3V/5V TS/PD

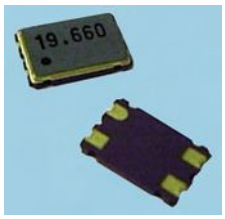
380967

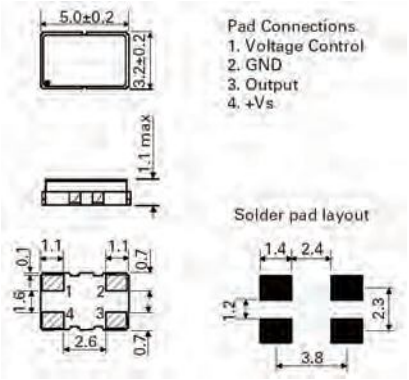
Mftrs. List. No.	Order Code	Price Each 1+	10+	100+
CPPLX7-A7BR-XX.XXXNP	SMD 841-0674●	3.36	3.03	2.50
CPPLX7-A5BC-XX.XXXNP	SMD 841-0682●	2.68	2.42	2.00
CPPLX4-A5BC-XX.XXXNP	841-0720●	3.34	3.01	2.48
CPPLX1-A5BC-XX.XXXNP	841-0747●	3.36	3.03	2.50
CPPLX5-A5BC-XX.XXXNP	SMD 841-0763●	3.36	3.03	2.50

4-pin SMD Temperature Compensated Voltage Controlled Oscillator

SMD

IQD Frequency Products





A range of miniature surface mount temperature compensated voltage controlled crystal oscillators providing, a high degree of frequency stability over a wide temperature range.

Supply Voltage	3V±0.15V	Output Waveform	Clipped Sine
Supply Current	2mA	Output	0.8V pk-pk
Voltage Control Change	±3ppm min. / ±7ppm max.		

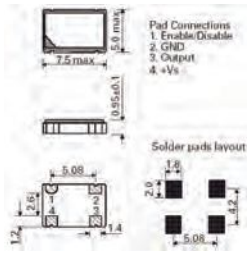
419549

Frequency MHz	Order Code	Price Each 1+	10+	100+
12.8	110-0742●	4.86	4.06	3.25
13	110-0743●	4.86	4.06	3.25
19.2	110-0744●	4.86	4.06	3.25
20	110-0745●	4.86	4.06	3.25
26	110-0746●	4.86	4.06	3.25

CFPS-32 Low Voltage Surface Mount Oscillator

IQD Frequency Products

SMD



A range of single output oscillators housed in surface mount packages.

Output rise time	5ns (1.8 to 80MHz), 4ns (80 to 125MHz),
Output fall time	5ns (1.8 to 80MHz), 4ns (80 to 125MHz),
Supply current	28mA (1.8 to 32MHz), 18mA (32 to 80MHz), 28mA (80 to 125MHz),
Supply voltage	2.5V ± 5%
Duty cycle	55 to 60%
Temperature stability	50 PPM
Temperature range	-40°C to 85°C
Case Style	CFPS-32

451078

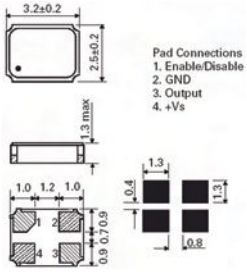
Frequency MHz	Order Code	Price Each 1+	10+	100+	+
3.6864	127-6653●	2.04	1.58	1.30	– –
10	127-6654●	2.04	1.58	1.30	– –
20	127-6655●	2.04	1.58	1.30	– –
24	127-6658●	2.04	1.58	1.30	– –
24.576	127-6659●	2.04	1.58	1.30	– –
25	127-6660●	2.04	1.58	1.30	– –
32	127-6661●	2.04	1.58	1.30	– –
40	127-6662●	2.04	1.58	1.30	– –
50	127-6663●	2.04	1.58	1.30	– –
64	127-6664●	2.04	1.58	1.30	– –
100	127-6665●	3.49	2.72	2.23	– –
125	127-6667●	4.51	3.49	2.87	– –

700 products added online every week

WWW

See our pick of the hottest products and latest technologies in '**What's New?**' at **www.farnell.co.uk**

CFPS-39 Ultra Minature Surface Mount Oscillator



A range of single output oscillators housed in surface mount packages.

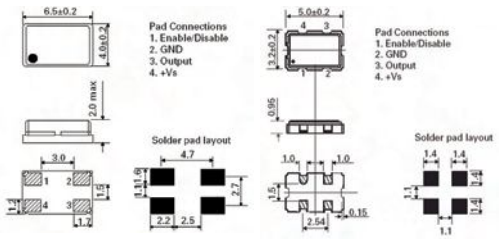
Output rise time	6ns
Output fall time	6ns
Supply current	20mA
Supply voltage	3.3V ± 5%
Duty cycle	45 to 55%
Temperature stability	50 PPM
Temperature range	-40°C to 85°C
Case Style	CFPS-39

451090

Frequency MHz	Order Code	Price Each 1+	10+	100+	+
12	127-6640●	2.70	2.11	1.73	– –
14.31818	127-6641●	2.70	2.11	1.73	– –
16	127-6642●	2.70	2.11	1.73	– –
20	127-6643●	2.70	2.11	1.73	– –
24	127-6644●	2.70	2.11	1.73	– –
24.576	127-6646●	2.70	2.11	1.73	– –
25	127-6647●	2.70	2.11	1.73	– –
30	127-6648●	2.70	2.11	1.73	– –
32	127-6649●	2.89	2.26	1.86	– –
40	127-6650●	2.89	2.26	1.86	– –
48	127-6651●	3.05	2.39	1.96	– –
50	127-6652●	3.05	2.39	1.96	– –

Over 480,000 products online Q GO

CFPS-65/67 Crystal Oscillator



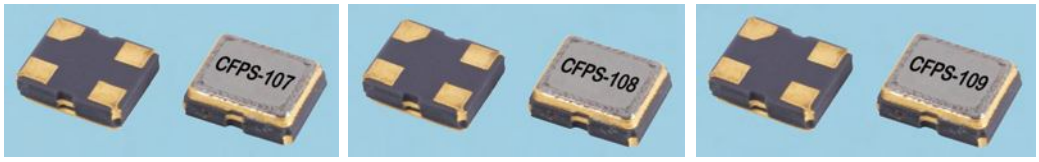
CFPS-65 CFPS-67

	CFPS-65	CFPS-67
Supply voltage	3.3V ± 0.3%	3.3V ± 5%
Frequency Accuracy	±5ppm	±50ppm
Temperature range	-40°C - 85°C	-40°C to 85°C

452240

Frequency MHz	Case Type	Order Code	Price Each 1+	10+	100+
3.68	CFPS-69	127-6668●	2.94	2.29	1.87
4.0	CFPS-69	127-6671●	2.94	2.29	1.87
6.0	CFPS-69	127-6672●	2.94	2.29	1.87
10.0	CFPS-69	127-6673●	2.94	2.29	1.87
12.0	CFPS-69	127-6674●	2.94	2.29	1.87
14.74	CFPS-69	127-6675●	2.94	2.29	1.87
24.0	CFPS-69	127-6680●	2.94	2.29	1.87
25.0	CFPS-69	127-6681●	2.94	2.29	1.87
32.0	CFPS-69	127-6683●	2.94	2.29	1.87
40.0	CFPS-69	127-6684●	2.94	2.29	1.87
50.0	CFPS-69	127-6685●	2.94	2.29	1.87

CFPS-107 / 108 / 109 Clock Oscillators



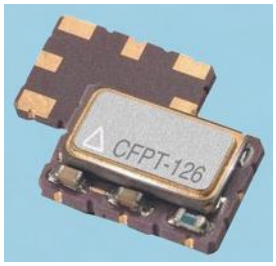
New

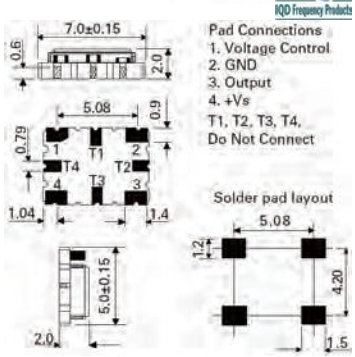
- **Output Compatibility & Load:**
  - Tri-state CMOS
  - Drive Capability 15pF max
- **Tri-state Operation:**
  - Logic '1' to pad 1 enables oscillator output
  - Logic '0' to pad 1 disables oscillator output; when disabled the oscillator output goes to the high impedance state
  - No connection to pad 1 enables oscillator output
- **Supply Voltage:**
  - 1.8V (CFPS-107)
  - 2.5V (CFPS-108)
  - 3.3V (CFPS-109)
- **Ageing:**
  - ±3ppm max per year

527248

Frequency MHz	Model	Package	Frequency Stability	Operating Temperature Range	Load Cap	Rise Time (tr)	Fall Time (tf)	Duty Cycle	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
32.768	CFPS-107	2.5 x 2mm	±50ppm	-40°C to +85°C	15pF	50ns	50ns	40 / 60%	LF SPX0009682	SMD 167-4693●	2.19	1.60	1.26
32.768	CFPS-108	2.5 x 2mm	±50ppm	-40°C to +85°C	15pF	50ns	50ns	40 / 60%	LF SPX0009684	SMD 167-4694●	2.19	1.60	1.26
32.768	CFPS-109	2.5 x 2mm	±50ppm	-40°C to +85°C	15pF	50ns	50ns	40 / 60%	LF SPX0009686	SMD 167-4695●	2.19	1.60	1.26

4-pin SMD Temperature Compensated Voltage Controlled Oscillator





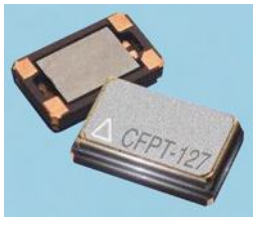
A range of surface mount temperature compensated voltage controlled oscillators, providing a high degree of frequency stability over a wide temperature range.

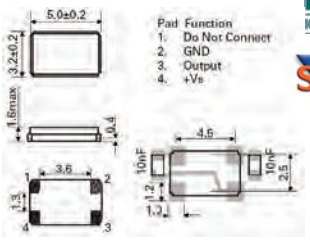
Supply Voltage	3.3V±0.17V	Rise Time	8ns
Supply Current	3mA	Fall time	8ns
Frequency stability	1ppm	Duty cycle	45/45%

419581

Frequency MHz	Order Code	Price Each 1+	10+	100+
10	SMD 110-0747●	12.68	10.57	9.06
12.8	SMD 110-0748●	12.68	10.57	9.06
13	SMD 110-0751●	12.68	10.57	9.06
16.384	SMD 110-0752●	12.68	10.57	9.06
19.44	SMD 110-0753●	12.68	10.57	9.06
20	SMD 110-0754●	12.68	10.57	9.06
26	SMD 110-0755●	12.68	10.57	9.06
32.768	SMD 110-0756●	12.68	10.57	9.06
40	SMD 110-0757●	12.68	10.57	9.06

4-pin SMD Temperature Compensated Voltage Controlled Oscillator





A range of surface mount temperature compensated crystal oscillators providing a high degree of frequency stability over a wide temperature range.

Supply Voltage	3V±0.3V	Output Waveform	Clipped Sinewave, DC-Coupled
Supply Current	2mA	Output	0.8V pk-pk
Ageing	±1ppm/ year typical in 1st year @ 25°C		

419601

Frequency MHz	Order Code	Price Each 1+	10+	100+
19.2	SMD 110-0765●	12.68	10.57	9.06
26	SMD 110-0767●	12.68	10.57	9.06

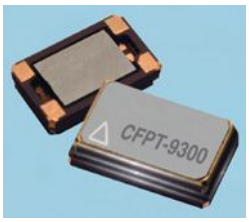
RL Re-reeling available

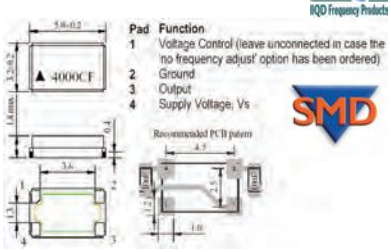
Farnell

Crystal Oscillator Modules - continued

4-pin SMD Temperature Compensated Voltage Controlled Oscillator

CFPT-9300 Series





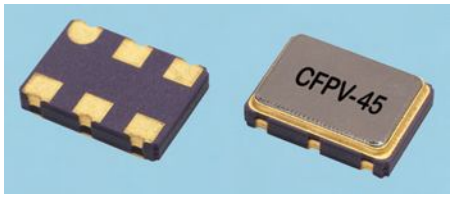
A range of surface mount temperature compensated crystal oscillators providing a high degree of frequency stability over a wide temperature range.

Supply Voltage 3.3 to V — Output Waveform Clipped Sinewave, DC-Coupled
Supply Current 3mA — Output Voh≥90%Vs / Vol≤10%Vs
Ageing ±1ppm/ year typical in 1st year @ 25°C

450987

Frequency MHz	Order Code	Price Each 1+	10+	100+
10	SMD127-2080●	36.71	30.59	25.50
12.8	SMD127-2082●	36.71	30.59	25.50
16	SMD127-2085●	36.71	30.59	25.50
16.384	SMD127-2086●	36.71	30.59	25.50
20	SMD127-2088●	36.71	30.59	25.50
24.5535	SMD127-2089●	36.71	30.59	25.50
26	SMD127-2090●	36.71	30.59	25.50
32.768	SMD127-2091●	35.57	32.37	29.71
40	SMD127-2095●	58.89	49.08	40.89
50	SMD127-2096●	58.89	49.08	40.89

CFPV-45 Voltage Controlled Oscillators



- **Output Compatibility & Load:**
  - Tri-state HCMOS
  - Drive Capability: 15pF max
- **Tri-state Operation:**
  - Logic '1' (>2.5V) to pad 2 enables oscillator output
  - Logic '0' (<0.5V) to pad 2 disables oscillator output; when disabled the oscillator output goes to the high impedance state
  - No connection pad 2 enables oscillator output
- **Supply Voltage:**
  - 3.3V
- **Voltage Control (pad 1):**
  - 1.65V ±1.65V
- **Linearity:**
  - Positive < ±10%
- **Input Impedance (voltage control, pad 1):**
  - 50kW min
- **Modulation Bandwidth:**
  - >10kHz (@-3dB, Vc=2.5V)
- **Phase Jitter:**
  - 20ps max @ 1sigma

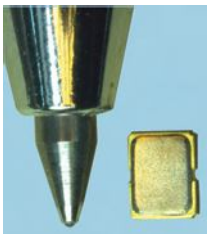
New

527256

Frequency MHz	Package	Pullability APR	Operating Temperature Range	Load Cap	Rise Time (tr)	Fall Time (tf)	Duty Cycle	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
10	7 x 5mm	±100ppm Min	-40°C to +85°C	15pF	10ns	10ns	40 / 60%	LF VCXO0021640	167-4672●	2.65	1.93	1.52
12.352	7 x 5mm	±100ppm Min	-40°C to +85°C	15pF	10ns	10ns	40 / 60%	LF VCXO0026155	167-4673●	2.65	1.93	1.52
16.384	7 x 5mm	±100ppm Min	-40°C to +85°C	15pF	10ns	10ns	40 / 60%	LF VCXO0021634	167-4674●	2.65	1.93	1.52
19.44	7 x 5mm	±100ppm Min	-40°C to +85°C	15pF	10ns	10ns	40 / 60%	LF VCXO0023978	167-4676●	2.65	1.93	1.52
20	7 x 5mm	±100ppm Min	-40°C to +85°C	15pF	10ns	10ns	40 / 60%	LF VCXO0026156	167-4677●	2.65	1.93	1.52
24.883	7 x 5mm	±100ppm Min	-40°C to +85°C	15pF	10ns	10ns	40 / 60%	LF VCXO0026157	167-4678●	2.65	1.93	1.52
25	7 x 5mm	±100ppm Min	-40°C to +85°C	15pF	10ns	10ns	40 / 60%	LF VCXO0025545	167-4679●	2.65	1.93	1.52
25.92	7 x 5mm	±100ppm Min	-40°C to +85°C	15pF	10ns	10ns	40 / 60%	LF VCXO0026158	167-4680●	2.65	1.93	1.52
27	7 x 5mm	±100ppm Min	-40°C to +85°C	15pF	10ns	10ns	40 / 60%	LF VCXO0000381	167-4681●	2.65	1.93	1.52
30.72	7 x 5mm	±100ppm Min	-40°C to +85°C	15pF	10ns	10ns	40 / 60%	LF VCXO0026159	167-4682●	2.97	2.16	1.70
32	7 x 5mm	±100ppm Min	-40°C to +85°C	15pF	10ns	10ns	40 / 60%	LF VCXO0026160	167-4683●	2.97	2.16	1.70
32.768	7 x 5mm	±100ppm Min	-40°C to +85°C	15pF	10ns	10ns	40 / 60%	LF VCXO0021914	167-4684●	2.97	2.16	1.70
33.33	7 x 5mm	±100ppm Min	-40°C to +85°C	15pF	10ns	10ns	40 / 60%	LF VCXO0026161	167-4685●	2.97	2.16	1.70
35.328	7 x 5mm	±100ppm Min	-40°C to +85°C	15pF	10ns	10ns	40 / 60%	LF VCXO0022532	167-4686●	2.97	2.16	1.70
40	7 x 5mm	±100ppm Min	-40°C to +85°C	15pF	10ns	10ns	40 / 60%	LF VCXO0025892	167-4688●	6.89	5.01	3.94

Low Current Oscillators

371-Series & 671-Series





Oscillator Type	Available Freq Range	Standard Freq Tolerance	Description
AEL 371-series	1.8MHz ~ 52MHz	±100PPM to ±25PPM - All conditions	3.2x2.5mm Low Current SMD oscillators
AEL 671-series	1.8MHz ~ 52MHz	±100PPM to ±25PPM - All conditions	5.0x3.2mm Low Current SMD oscillators

482256

Frequency (MHz)	Case Size/Style	Supply Voltage (V)	Current (mA)	Rise/Fall Time (ns)	Temp. Range °C	Mftrs. List No	Order Code	Price Each 1+	10+	100+	250+	500+
10	5x3.2mm 4-pad	3.3	3.5	12 / 12	-10 to +70	010M000000S023	SMD144-8026●	2.25	1.81	1.51	1.40	1.19
14.7456	5x3.2mm 4-pad	3.3	3.5	12 / 12	-10 to +70	014M745600S010	SMD144-8027●	2.25	1.81	1.51	1.40	1.19
32	5x3.2mm 4-pad	3.3	3.5	12 / 12	-10 to +70	032M000000S020	SMD144-8028●	2.25	1.81	1.51	1.40	1.19
40	5x3.2mm 4-pad	3.3	4.5	12 / 12	-10 to +70	040M000000S034	SMD144-8029●	2.41	1.93	1.60	1.49	1.27
12	3.2x2.5mm 4-pad	3.3	3.5	12 / 12	-10 to +70	012M000000S013	SMD144-8030●	3.26	2.61	2.18	2.00	1.72
16	3.2x2.5mm 4-pad	3.3	3.5	12 / 12	-10 to +70	016M000000S024	SMD144-8032●	3.26	2.61	2.18	2.00	1.72
18.432	3.2x2.5mm 4-pad	3.3	3.5	12 / 12	-10 to +70	018M432000S008	SMD144-8033●	3.26	2.61	2.18	2.00	1.72
25	3.2x2.5mm 4-pad	3.3	3.5	12 / 12	-10 to +70	025M000000S036	SMD144-8034●	3.46	2.76	2.31	2.13	1.83
27	3.2x2.5mm 4-pad	3.3	3.5	12 / 12	-10 to +70	027M000000S026	SMD144-8035●	3.46	2.76	2.31	2.13	1.83

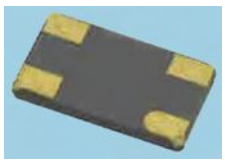
Quartz Crystals

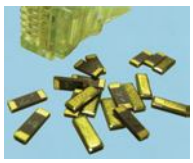
Watch Crystals


Watch A/B


MC406/90SMX


MC306


4x2.5mm


4.1x1.5mm

210572

Can Style	Mftr.	Frequency Accuracy ±ppm @ 25°C	Temperature Range °C	Order Code	Price Each 1+	10+	100+	250+
3 x 8mm Cylinder THT	SEIK	±20	-10 to +60	121-6227●	0.96	0.69	0.42	0.33
3 x 8mm Cylinder THT	AEL	±20	-10 to +60	950-9682●	0.62	0.55	0.36	0.32
Watch B	IQD	±20	-10 to +60	971-2887●	0.47	0.35	0.29	0.23
Watch B	AEL	±20	-10 to +60	950-9690●	0.81	0.67	0.40	0.32
8.7 x 3.7mm SMD	IQD	±20	-20 to +70	SMD 971-3220●	0.53	0.41	0.34	0.26
10.4 x 4mm SMD	IQD	±20	-10 to +60	SMD 971-3727●	1.42	0.94	0.82	0.71
8 x 3.7mm SMD	SEIK	±20	-40 to +85	121-6208●	1.75	1.44	0.88	0.75
10.4 x 4mm SMD	SEIK	±20	-40 to +85	SMD 121-6226●	1.75	1.44	0.88	0.75
4 x 2.5mm 4-Pad	AEL	±-120 / 10*	-20 to +70	SMD 144-8100●	3.23	2.58	2.16	1.99
4.1 x 1.5mm SMD	AEL	±20	-40 to +85	SMD 144-8101●	0.65	0.53	0.44	0.41

* Fonction de la température d'utilisation

32.768kHz Crystal Oscillator SG-3030/40 (JC,JF,LC)

EPSON TOYOCOM



JC JF LC

- Operating temperature -40 to +85°C
- Frequency tolerance 5±23ppm
- Stability +10 to 120ppm
- Output load CMOS 15pF max
- Duty cycle 45/55%

These ICs are SMD 32.768kHz crystal oscillator with built in watch crystal. Low power consumption with CMOS IC and VIO controls swing amplitude

Mftrs. List No.	Pins	Package size mm	Supply voltage min/max V	Max current consumption µA	Max rise & fall time ns
SG-3030JC	4	10.5 x 5.8 x 2.7 mm	1.5 / 5.5	2	200
SG-3030JF	4	7.1 x 5.1 x 1.5 mm	1.5 / 5.5	2	200
SG-3030LC	6	3.6 x2.8 x 1.1 mm	1.5 / 5.5	2	200
SG-3040JC	4	10.5 x 5.8 x 2.7 mm	0.9 / 3.6	3.1	100
SG-3040LC	6	3.6 x2.8 x 1.1 mm	0.9 / 3.6	3.1	100

450986

Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
SG-3030JC	SMD 127-8043●	1.78	1.54	1.36	1.36	1.11
SG-3030JF	SMD 127-8042●	2.07	1.73	1.49	1.49	1.17
SG-3030LC	SMD 127-8041●	2.64	2.21	1.90	1.90	1.51
SG-3040JC	SMD 127-8048●	1.95	1.63	1.41	1.41	1.11
SG-3040LC	127-8044●	2.64	2.21	1.90	1.90	1.51

SMD Crystals for Watch & Wireless Applications

EPSON TOYOCOM



MC-146 FC-135 MC-306

- The FC-135 & MC-146 are SMD watch crystal for small communications devices.
- The MC-306 is a SMD crystal for small wireless devices and clocks.
- Temperature range is -40 to 85°C

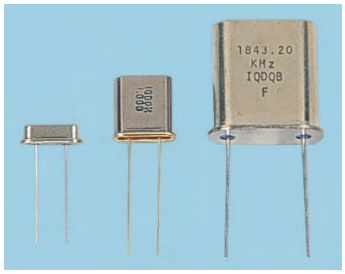
450982

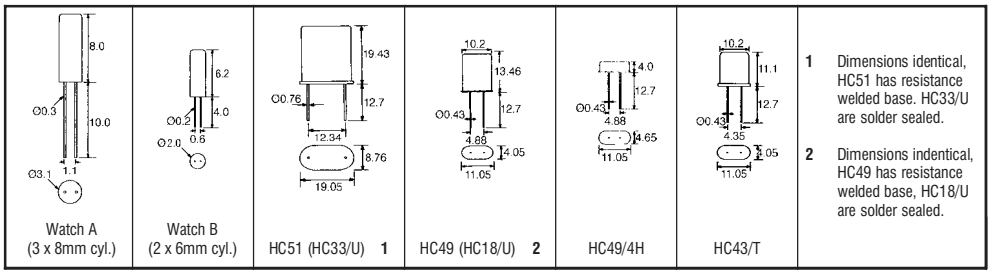
Mftrs. List No Accuracy/Capacitance Load	Order Code	Price Each 1+	10+	100+
FC-135 32.768KHZ ±20PPM,12.5PF	SMD 127-8036●	1.03	0.87	0.75
FC-135 32.768KHZ ±20PPM,9.0PF	SMD 127-8037●	1.03	0.87	0.75
MC-146 32.768KHZ ±20PPM,12.5PF	SMD 127-8038●	0.81	0.67	0.58
MC-146 32.768KHZ ±20PPM,7.0PF	SMD 127-8039●	0.81	0.67	0.58
MC-306 60.0KHZ ±100PPM ,12.5PF	SMD 127-8040●	0.90	0.76	0.64

For **Crystal Oscillator Sockets and Hardware** see page 762

For use with ICs and Microprocessors

IQD Frequency Products





Watch A (3 x 8mm cyl.) | Watch B (2 x 6mm cyl.) | HC51 (HC33/U) 1 | HC49 (HC18/U) 2 | HC49/4H | HC43/T

1 Dimensions identical, HC51 has resistance welded base. HC33/U are solder sealed.

2 Dimensions indentical, HC49 has resistance welded base, HC18/U are solder sealed.

A range of wire extended crystals of popular frequencies in standard can styles for use in general industrial and microprocessor applications. All types are parallel resonant unless otherwise stated under 'Load Cap' column.

* These are 3rd overtone devices

210832

Frequency MHz	Can Style	Frequency Accuracy ±ppm @ 25°C	Temp. Stability ±ppm	Temperature Range °C	Load Cap	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+
1.8432	HC49/U	±20	±50ppm	-10 to +60	30pF	LF A113B	971-2682●	1.850	1.170	0.810	0.700
2.000	HC49/U	±50	±100ppm	0 to +50	20pF	LF A114E	971-2690●	1.700	1.360	1.180	0.860
2.4576	HC49/U	±20	±50ppm	-10 to +60	30pF	LF A116C	971-2704●	1.930	1.610	1.420	1.080
3.2768	HC49/U	±20	±30ppm	-10 to +60	12pF	LF A118B	971-2275●	1.530	0.940	0.750	0.490
3.579545	HC49/S	±30	±50ppm	-20 to +70	20pF	LF A119K	971-2895●	1.270	1.000	0.960	0.750
3.579545	HC49/U	±20	±50ppm	-10 to +60	20pF	LF A119C	971-2712●	1.370	1.160	1.010	0.880
3.6864	HC49/S	±30	±50ppm	-20 to +70	30pF	LF A169K	971-2909●	1.430	0.830	0.550	0.440
3.6864	HC49/U	±20	±50ppm	-10 to +60	30pF	LF A169A	971-2364●	2.340	1.820	1.440	0.980
4.000	HC49/S	±20	±50ppm	-10 to +60	30pF	LF A120K	971-2917●	1.110	0.730	0.540	0.340
4.000	HC49/U	±20	±10ppm	-20 to +70	30pF	LF A120A	971-2283●	4.130	3.350	2.990	2.330
4.000	HC49/U	±20	±50ppm	-10 to +60	30pF	LF A120B	971-2720●	1.920	1.400	1.120	0.720
4.096	HC49/U	±20	±20ppm	-20 to +70	30pF	LF A122A	971-2771●	1.880	1.250	0.930	0.710
4.194304	HC49/U	±20	±30ppm	-10 to +60	12pF	LF A123A	971-2291●	0.740	0.490	0.360	0.270
4.433619	HC49/U	±20	±30ppm	-10 to +60	20pF	LF A124D	971-2739●	0.680	0.400	0.290	0.200
4.608	HC49/U	±20	±50ppm	-10 to +60	30pF	LF A125C	971-2836●	0.790	0.730	0.450	0.350
4.9152	HC49/S	±30	±50ppm	-20 to +70	30pF	LF A127K	971-2925●	0.560	0.370	0.360	0.330
4.9152	HC49/U	±20	±50ppm	-10 to +60	30pF	LF A127A	971-2305●	0.950	0.790	0.710	0.560
6.5536	HC49/U	±20	±30ppm	-10 to +60	12pF	LF A135A	971-2348●	1.160	0.640	0.490	0.330
5.000	HC49/U	±20	±50ppm	-10 to +60	30pF	LF A128B	971-2372●	0.720	0.490	0.390	0.280
5.0688	HC49/U	±20	±50ppm	-10 to +60	Series	LF A129A	971-2313●	0.790	0.550	0.510	0.460
6.000	HC49/S	±30	±50ppm	-10 to +60	30pF	LF A132K	971-2933●	1.150	0.950	0.860	0.620
6.000	HC49/U	±20	±50ppm	-10 to +60	30pF	LF A132A	971-2321●	0.850	0.660	0.590	0.470
6.144	HC49/U	±20	±50ppm	-10 to +60	30pF	LF A133A	971-2330●	0.800	0.530	0.450	0.330

RL Re-reeling available

Farnell

Quartz Crystals - continued

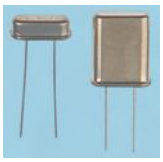
For use with ICs and Microprocessors - continued

Frequency MHz	Can Style	Frequency Accuracy ±ppm @ 25°C	Temp. Stability ±ppm	Temperature Range °C	Load Cap	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+
6.5536	HC49/U	±20	±30ppm	-10 to +60	12pF	LF A135A	971-2348●	1.160	0.640	0.490	0.330
7.3728	HC49/U	±20	±50ppm	-10 to +60	30pF	LF A194A	971-2828●	0.700	0.410	0.300	0.230
7.3728	HC49/S	±15	±30ppm	-10 to +60	18pF	LF A194L	971-3719●	0.760	0.520	0.490	0.450
8.000	HC49/U	±20	±50ppm	-10 to +60	30pF	LF A140A	971-2380●	1.780	1.380	1.060	0.820
8.000	HC49/S	±30	±50ppm	-20 to +70	30pF	LF A140K	971-2844●	0.690	0.460	0.350	0.230
9.8304	HC49/U	±20	±50ppm	-10 to +60	30pF	LF A173A	971-2798●	0.610	0.360	0.260	0.200
10.000	HC49/U	±20	±10ppm	-20 to +70	30pF	LF A143A	971-2356●	2.970	2.350	1.950	1.400
10.000	HC49/U	±20	±50ppm	-10 to +60	30pF	LF A143E	971-2747●	1.480	1.150	0.880	0.660
10.000	HC49/S	±30	±50ppm	-20 to +70	30pF	LF A143K	971-3697●	0.600	0.400	0.300	0.220
11.000	HC49/U	±20	±30ppm	-10 to +60	30pF	LF A193A	971-2399●	0.660	0.400	0.290	0.240
11.0592	HC49/U	±20	±30ppm	-10 to +60	20pF	LF L108A	971-3107●	2.090	1.150	1.030	0.620
11.0592	HC49/S	±30	±50ppm	-20 to +70	30pF	LF L108K	971-3115●	0.580	0.390	0.290	0.200
12.000	HC49/S	±30	±50ppm	-20 to +70	30pF	LF A158K	971-2950●	0.860	0.590	0.530	0.370
12.000	HC49/U	±20	±30ppm	-10 to +60	30pF	LF A158A	971-2763●	1.480	0.890	0.660	0.450
14.31818	HC49/U	±20	±50ppm	-10 to +60	Series	LF A153A	971-2780●	0.650	0.380	0.280	0.230
14.7456	HC49/U	±20	±30ppm	-10 to +60	30pF	LF A159A	971-2852●	1.180	1.100	0.960	0.770
16.000	HC49/U	±20	±30ppm	-10 to +60	30pF	LF A161A	971-2860●	1.380	0.960	0.780	0.500
16.000	HC49/S	±30	±50ppm	-20 to +70	30pF	LF A161K	971-3700●	0.680	0.450	0.340	0.250
20.000	HC49/U	±20	±30ppm	-10 to +60	Series	LF A147C	971-2755●	0.840	0.500	0.390	0.280
20.000	HC49/S	±30	±50ppm	-20 to +70	12pF	LF A147K	971-2879●	0.710	0.410	0.280	0.196
24.000	HC49/U	±20	±50ppm	-10 to +60	Series	LF A189A	971-2801●	0.920	0.590	0.540	0.440
32.000	HC49/U	±20	±30ppm	-10 to +60	Series	LF A166A	971-2810●*	1.010	0.660	0.500	0.350

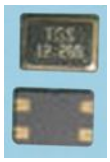
AEL CRYSTALS LIMITED

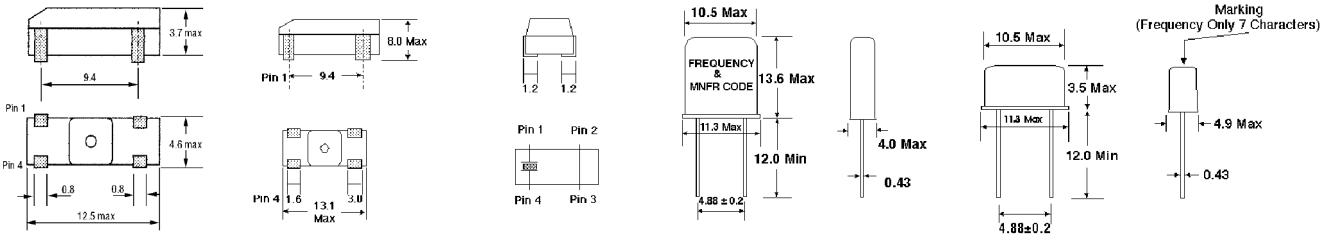

CM309S


86SMX

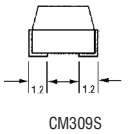

HC49/4H HC33/U, HC49/U

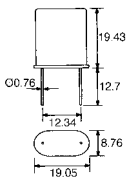

HC49/S


SXG

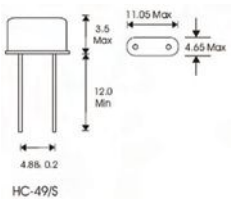


CM309S 86SMX HC49/U HC49/4H

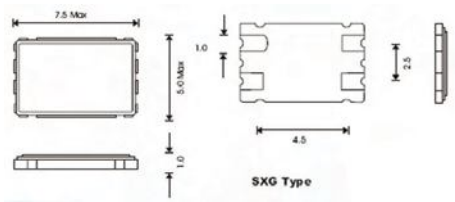




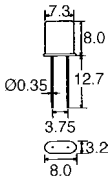
HC33/U



HC-49/S



SXG Type



UM1

210570

Frequency MHz	Can Style	Frequency Accuracy ±ppm @ 25°C	Temp. Stability ± ppm	Temperature Range °C	Load Cap	Order Code	Price Each 1+	10+	100+
0.3072	HC33/U	◆±100		-10 to +60	30pF	950-9429●	11.38	9.61	8.92
1.8432	HC49/U	20	50ppm	-10 to +60	30pF	950-9623●	2.05	1.58	1.35
2.4576	HC49/U	30	50ppm	-10 to +60	30pF	950-9631●	1.49	1.13	0.97
3.2768	HC49/S	30	50ppm	-10 to +60	12pF	950-9445●	2.45	1.61	1.17
3.579545	HC49/U	30	50ppm	-20 to +70	30pF	950-9569●	0.77	0.48	0.43
3.6864	13 x 5mm SMD	50	100ppm	-10 to +70	30pF	SMD 950-9933●	3.26	2.39	1.74
3.6864	HC49/U	30	50ppm	-20 to +70	30pF	950-9518●	0.77	0.48	0.43
4.000	13 x 5mm SMD	50	100ppm	-10 to +70	30pF	SMD 950-9941●	3.26	2.39	1.74
4.000	HC49/U	30	50ppm	-20 to +70	30pF	950-9534●	0.77	0.48	0.43
4.096	HC49/U	30	50ppm	-20 to +70	30pF	950-9593●	0.77	0.48	0.43
4.194304	HC49/U	30	50ppm	-20 to +70	12pF	950-9585●	0.77	0.48	0.43
4.194304	HC49/S	30	50ppm	-10 to +60	30pF	950-9801●	1.02	0.82	0.64
4.433619	HC49/S	30	50ppm	-10 to +60	20pF	950-9810●	1.44	1.08	0.76
4.608	HC49/S	50	50ppm	-10 to +60	30pF	950-9879●	1.06	0.83	0.65
4.9152	HC49/U	30	50ppm	-20 to +70	30pF	950-9550●	0.77	0.48	0.43
5.000	HC49/U	20	50ppm	-10 to +60	30pF	950-9909●	1.04	0.76	0.62
6.000	HC49/U	30	50ppm	-20 to +70	30pF	950-9577●	0.78	0.47	0.41
7.3728	HC49/U	30	50ppm	-20 to +70	30pF	950-9542●	0.77	0.48	0.43
7.680	HC49/S	30	50ppm	-10 to +60	30pF	950-9828●	1.44	1.08	0.76
8.000	13 x 5mm SMD	50	100ppm	-10 to +70	30pF	SMD 950-9950●	3.26	2.39	1.74
8.000	HC49/U	30	50ppm	-20 to +70	30pF	950-9526●	0.77	0.48	0.43
8.192	UM1	20	50ppm	-10 to +60	30pF	950-9453●	3.01	2.18	1.78
9.8304	HC49/S	30	50ppm	-10 to +60	30pF	950-9836●	1.44	1.08	0.76
9.8304	HC49/U	20	50ppm	-10 to +60	30pF	950-9917●	1.14	0.82	0.64
10.752	HC49/S	30	50ppm	-10 to +60	30pF	950-9844●	1.44	1.08	0.76
12.000	13 x 5mm SMD	50	100ppm	-10 to +70	30pF	SMD 950-9968●	3.26	2.39	1.74
12.000	HC49/U	30	50ppm	-20 to +70	30pF	950-9500●	0.77	0.48	0.43
12.288	HC49/U	20	50ppm	-10 to +60	30pF	950-9607●	1.61	1.00	0.72
12.288	UM1	20	50ppm	-10 to +60	30pF	950-9470●	3.15	2.22	1.78
14.000	HC49/U	20	50ppm	-10 to +60	30pF	950-9488●	0.76	0.44	0.27
14.31818	HC49/U	20	50ppm	-10 to +60	30pF	950-9615●	1.93	1.23	0.88
14.7456	HC49/S	30	50ppm	-10 to +60	30pF	950-9852●	1.44	1.08	0.76

RL Re-reeling available

Farnell

Frequency MHz	Can Style	Frequency Accuracy ±ppm @ 25°C	Temp. Stability ± ppm	Temperature Range °C	Load Cap	Order Code	Price Each 1+	10+	100+
15.000	HC49/U	20	50ppm	-10 to +60	30pF	950-9437●	1.59	0.84	0.55
16.000	13 x 5mm SMD	50	100ppm	-10 to +70	30pF	SMD 950-9976●	3.26	2.39	1.74
18.000	HC49/S	50	50ppm	-10 to +60	30pF	950-9887●	1.13	0.85	0.59
16.000	HC49/U	20	30ppm	-10 to +60	30pF	950-9925●	1.14	0.82	0.64
18.432	HC49/S	30	50ppm	-10 to +60	30pF	950-9860●	1.44	1.08	0.76
19.6608	HC49/U	20	50ppm	-10 to +60	30pF	950-9402●	1.40	0.94	0.63
20.000	HC49/U	20	50ppm	-10 to +60	30pF	950-9674●	0.89	0.70	0.58
22.1184	HC49/U	20	50ppm	-10 to +60	30pF	950-9410●	1.93	1.23	0.88
24.000	HC49/S	50	50ppm	-10 to +60	30pF	950-9895●	1.18	0.96	0.86
24.000	HC49/S	30	50ppm	-10 to +60	30pF	950-9640●	1.14	0.91	0.76
24.000	13 x 5mm SMD	50	100ppm	-10 to +70	30pF	SMD 950-9658●	2.09	1.74	1.39
30.000	HC49/U	20	50ppm	-10 to +60	30pF	950-9496●	2.41	1.74	1.48
32.000	HC49/S	30	50ppm	-10 to +60	30pF	950-9666●	2.63	2.00	1.62
40.000	HC49/S	30	50ppm	-10 to +60	30pF	144-8116●	0.31	0.25	0.20
50.000	HC49/U	30	50ppm	-10 to +60	30pF	144-8119●	0.50	0.40	0.33

*3rd overtone device

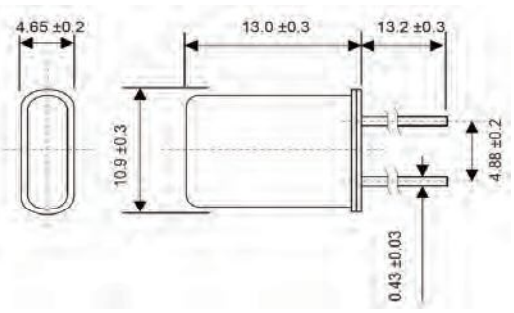
◆ The frequency accuracy is expressed as an overall tolerance including initial calibration over the operating temperature range.

HC49 Crystal Units

New

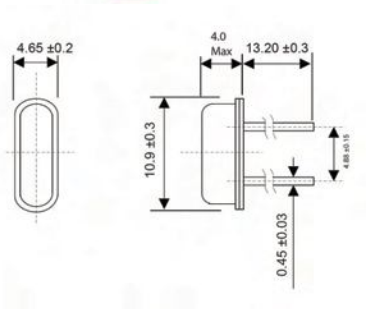
multicomp





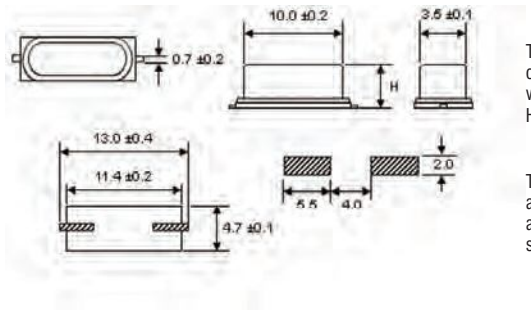
HC49/U





HC49/S





HD49/SM

The **HC-49/U** is for use with general and industrial microcontrollers. It is a well established, cost effective product with a wide frequency range and superior resistance weld HC-49/U metal case.

The **HC49/S** and **HC49/SM** are also for use with general and industrial microcontrollers, but have been designed for applications where board height is critical. Their low profile stands at just 4mm in height.

525344

Frequency MHz	Can Style	Frequency Tolerance @25°C	Temp. Stability	Temperature Range	Load Capacitance	Order Code	Price Each 1+	10+	100+
1.8432	HC49/U	±20ppm	±50ppm	-10°C to +60°C	30pF	166-6944●	1.900	1.430	1.190
2.0	HC49/U	±50ppm	±100ppm	-10°C to +60°C	20pF	166-6945●	1.600	1.270	1.100
2.4576	HC49/U	±20ppm	±50ppm	-10°C to +60°C	30pF	166-6946●	1.440	1.180	1.050
3.2768	HC49/U	±20ppm	±30ppm	-10°C to +60°C	12pF	166-6947●	1.280	0.600	0.430
3.579545	HC49/U	±20ppm	±50ppm	-10°C to +60°C	20pF	166-6948●	1.280	0.600	0.430
3.6864	HC49/U	±20ppm	±50ppm	-10°C to +60°C	30pF	166-6949●	1.610	1.230	0.970
3.6864	HC49/U	±30ppm	±50ppm	-20°C to +70°C	30pF	166-6950●	0.610	0.330	0.280
4.0	HC49/U	±20ppm	±10ppm	-20°C to +70°C	30pF	166-6951●	3.020	2.430	2.180
4.0	HC49/U	±20ppm	±50ppm	-10°C to +60°C	30pF	166-6953●	1.300	0.910	0.730
4.0	HC49/U	±30ppm	±50ppm	-20°C to +70°C	30pF	166-6954●	0.610	0.330	0.280
4.096	HC49/U	±20ppm	±20ppm	-20°C to +70°C	30pF	166-6955●	1.820	1.170	0.870
4.096	HC49/U	±30ppm	±50ppm	-20°C to +70°C	30pF	166-6956●	0.610	0.330	0.280
4.194304	HC49/U	±20ppm	±30ppm	-10°C to +60°C	12pF	166-6957●	0.560	0.340	0.250
4.608	HC49/U	±20ppm	±50ppm	-10°C to +60°C	30pF	166-6958●	0.690	0.630	0.370
4.9152	HC49/U	±20ppm	±50ppm	-10°C to +60°C	30pF	166-6959●	0.690	0.560	0.510
4.9152	HC49/U	±30ppm	±50ppm	-20°C to +70°C	30pF	166-6960●	0.610	0.330	0.280
5.0	HC49/U	±20ppm	±50ppm	-10°C to +60°C	30pF	166-6961●	0.890	0.600	0.470
5.0688	HC49/U	±20ppm	±50ppm	-10°C to +60°C	Series	166-6962●	0.660	0.430	0.410
6.0	HC49/U	±20ppm	±50ppm	-10°C to +60°C	30pF	166-6963●	0.760	0.560	0.510
6.0	HC49/U	±30ppm	±50ppm	-20°C to +70°C	30pF	166-6965●	0.620	0.320	0.260
6.144	HC49/U	±20ppm	±50ppm	-10°C to +60°C	30pF	166-6966●	0.700	0.430	0.370
6.5536	HC49/U	±20ppm	±30ppm	-10°C to +60°C	12pF	166-6967●	1.060	0.540	0.410
7.3728	HC49/U	±20ppm	±50ppm	-10°C to +60°C	30pF	166-6968●	0.490	0.250	0.173
8.0	HC49/U	±20ppm	±50ppm	-10°C to +60°C	30pF	166-6969●	1.390	1.050	0.810
8.0	HC49/U	±30ppm	±50ppm	-20°C to +70°C	30pF	166-6970●	0.610	0.330	0.280
10.0	HC49/U	±10ppm	±20ppm	-20°C to +70°C	30pF	166-6971●	2.890	2.250	1.880
10.0	HC49/U	±10ppm	±20ppm	-10°C to +60°C	30pF	166-6972●	1.390	1.050	0.810
11.0	HC49/U	±20ppm	±30ppm	-10°C to +60°C	30pF	166-6973●	0.570	0.310	0.210
11.0592	HC49/U	±20ppm	±30ppm	-10°C to +60°C	20pF	166-6974●	1.500	0.780	0.700
12.0	HC49/U	±20ppm	±30ppm	-10°C to +60°C	30pF	166-6975●	1.150	0.650	0.480
12.288	HC49/U	±20ppm	±50ppm	-10°C to +60°C	30pF	166-6977●	1.460	0.850	0.570
14.31818	HC49/U	±20ppm	±50ppm	-10°C to +60°C	Series	166-6978●	0.560	0.290	0.200
14.7456	HC49/U	±20ppm	±30ppm	-10°C to +60°C	30pF	166-6979●	0.900	0.840	0.730
16.0	HC49/U	±20ppm	±30ppm	-10°C to +60°C	30pF	166-6980●	1.040	0.660	0.540
19.6608	HC49/U	±20ppm	±50ppm	-10°C to +60°C	30pF	166-6981●	1.300	0.790	0.530
20.0	HC49/U	±20ppm	±30ppm	-10°C to +60°C	Series	166-6982●	0.750	0.400	0.310
22.1184	HC49/U	±20ppm	±50ppm	-10°C to +60°C	30pF	166-6983●	1.830	1.080	0.780

RL Re-reeling available

Farnell

Quartz Crystals - continued

HC49 Crystal Units - continued

Frequency MHz	Can Style	Frequency Tolerance @25°C	Temp. Stability	Temperature Range	Load Capacitance	Order Code	Price Each 1+	10+	100+
24.0	HC49/U	±20ppm	±50ppm	-10°C to +60°C	Series	166-6984●	0.830	0.490	0.460
32.0	HC49/U	±20ppm	±30ppm	-10°C to +60°C	Series	166-6985●	0.830	0.490	0.460
3.579545	HC49/S	±30ppm	±50ppm	-20°C to +70°C	20pF	166-6986●	1.170	0.900	0.890
3.6864	HC49/S	±30ppm	±50ppm	-20°C to +70°C	30pF	166-6987●	1.170	0.640	0.410
4.0	HC49/S	±20ppm	±50ppm	-10°C to +60°C	30pF	166-6989●	0.900	0.560	0.410
4.194304	HC49/S	±30ppm	±50ppm	-10°C to +60°C	30pF	166-6991●	0.870	0.660	0.490
4.433619	HC49/S	±30ppm	±50ppm	-10°C to +60°C	20pF	166-6992●	1.290	0.930	0.600
4.1952	HC49/S	±30ppm	±50ppm	-20°C to +70°C	30pF	166-6993●	0.400	0.280	0.240
6.0	HC49/S	±30ppm	±50ppm	-10°C to +60°C	30pF	166-6994●	0.920	0.750	0.680
7.3728	HC49/S	±15ppm	±30ppm	-10°C to +60°C	18pF	166-6995●	0.660	0.420	0.410
7.68	HC49/S	±30ppm	±50ppm	-10°C to +60°C	30pF	166-6996●	1.290	0.930	0.600
8.0	HC49/S	±30ppm	±50ppm	-20°C to +70°C	30pF	166-6997●	0.520	0.320	0.240
9.8304	HC49/S	±30ppm	±50ppm	-10°C to +60°C	30pF	166-6998●	1.290	0.930	0.600
10.0	HC49/S	±30ppm	±50ppm	-20°C to +70°C	30pF	166-6999●	0.510	0.310	0.220
11.0592	HC49/S	±30ppm	±50ppm	-20°C to +70°C	30pF	166-7000●	0.490	0.300	0.210
12.0	HC49/S	±30ppm	±50ppm	-20°C to +70°C	30pF	166-7001●	0.660	0.420	0.390
16.0	HC49/S	±30ppm	±50ppm	-20°C to +70°C	30pF	166-7003●	0.510	0.310	0.220
18.432	HC49/S	±30ppm	±50ppm	-10°C to +60°C	30pF	166-7004●	1.290	0.930	0.600
20.0	HC49/S	±30ppm	±50ppm	-20°C to +70°C	12pF	166-7005●	0.540	0.270	0.173
24.0	HC49/S	±50ppm	±50ppm	-10°C to +60°C	30pF	166-7006●	1.030	0.810	0.700
3.579545	HC49/SM	±30ppm	±50ppm	-10°C to +60°C	16pF	SMD 166-7007●	1.100	0.640	0.460
3.6864	HC49/SM	±30ppm	±50ppm	-10°C to +60°C	16pF	SMD 166-7008●	0.840	0.630	0.540
4.0	HC49/SM	±30ppm	±50ppm	-10°C to +60°C	16pF	SMD 166-7009●	1.100	0.640	0.460
4.9152	HC49/SM	±30ppm	±50ppm	-10°C to +60°C	16pF	SMD 166-7010●	0.390	0.240	0.220
6.0	HC49/SM	±30ppm	±50ppm	-10°C to +60°C	30pF	SMD 166-7011●	0.390	0.240	0.220
8.0	HC49/SM	±30ppm	±50ppm	-10°C to +60°C	16pF	SMD 166-7012●	0.620	0.350	0.240
10.0	HC49/SM	±30ppm	±50ppm	-10°C to +60°C	16pF	SMD 166-7013●	0.390	0.240	0.220
10.0592	HC49/SM	±30ppm	±50ppm	-10°C to +60°C	16pF	SMD 166-7015●	0.390	0.240	0.220
12.0	HC49/SM	±30ppm	±50ppm	-10°C to +60°C	16pF	SMD 166-7016●	0.410	0.260	0.250
16.0	HC49/SM	±30ppm	±50ppm	-10°C to +60°C	16pF	SMD 166-7017●	0.670	0.380	0.260
20.0	HC49/SM	±30ppm	±50ppm	-10°C to +60°C	16pF	SMD 166-7018●	0.450	0.310	0.270

HC49SFWB (HC-49/U-S) Leaded Crystal Units



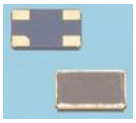
A range of Crystals ideal for consumer products like Car Audio Applications and Digial Electronics. The devices are suitable for high density assembly and mass production.

Load Capacitance 12pF
Frequency Stability ±50ppm
Frequency Temperature Stability ±50ppm
Operating Temperature Range -10°C to 70°C
Package HC-49/U-S

494610

Mftrs. List No.	Frequency (kHz)	Order Code	Price Each 1+	10+	100+
HC49SFWB04000H0PESZZ	4.000	136-8786●	0.79	0.51	0.46
HC49SFWB06000H0PESZZ	6.000	136-8787●	0.70	0.46	0.41
HC49SFWB08000H0PESZZ	8.000	136-8789●	0.79	0.51	0.46
HC49SFWB10000H0PESZZ	10.000	136-8790●	0.79	0.51	0.46
HC49SFWB12000H0PESZZ	12.000	136-8791●	0.79	0.51	0.46
HC49SFWB16000H0PESZZ	16.000	136-8792●	0.79	0.51	0.46
HC49SFWB20000H0PESZZ	20.000	136-8793●	0.79	0.51	0.46
HC49SFWB24000H0PESZZ	24.000	136-8794●	0.79	0.51	0.46
HC49SFWB27000H0PESZZ	27.000	136-8796●	0.79	0.51	0.46

CX5032SB (CX-96F) SMD Crystal Units



A range of Crystals ideal for Mobile Comms, Bluetooth and Wireless LAN applications. These devices feature a reference frequency for telecommunication systems and are available in a ceramic package. They are reflow compatible.

Load Capacitance 10pF
Frequency Stability ±10ppm
Frequency Temperature Stability ±15ppm
Operating Temperature Range -30°C to 85°C
Package Size 4.9 x 3.1mm

494543

Mftrs. List No.	Frequency (kHz)	Order Code	Price Each 1+	10+	100+
CX5032SB12000F0FLJZZ	12.000	136-8777●	3.14	2.09	1.79
CX5032SB13000F0FLJZZ	13.000	136-8778●	3.14	2.09	1.79
CX5032SB16000F0FLJZZ	16.000	136-8779●	3.14	2.09	1.79
CX5032SB19200F0FLJZZ	19.200	136-8780●	3.14	2.09	1.79
CX5032SB26000F0FLJZZ	26.000	136-8781●	3.14	2.09	1.79
CX5032SB32000F0FLJZZ	32.000	136-8782●	3.14	2.09	1.79
CX5032SB40000F0FLJZZ	40.000	136-8784●	3.14	2.09	1.79
CX5032SB48000F0FLJZZ	48.000	136-8785●	3.14	2.09	1.79

CX5032GB (CX-53F) SMD Crystal Units



A range of Crystals ideal for audio-visual, office equipment and digital electronics applications. They come in a ceramic package and are reflow compatible.

Load Capacitance 12pF
Frequency Stability ±50ppm
Frequency Temperature Stability ±50ppm
Operating Temperature Range -10°C to 70°C
Package Size 5 x 3.2mm

494498

Mftrs. List No.	Frequency (kHz)	Order Code	Price Each 1+	10+	100+
CX5032GB10000H0PESZZ	10.000	136-8768●	1.19	0.65	0.48
CX5032GB12000H0PESZZ	12.000	136-8769●	1.19	0.65	0.48
CX5032GB24000H0PESZZ	24.000	136-8770●	1.23	0.83	0.63
CX5032GB24576H0PESZZ	24.576	136-8772●	1.19	0.65	0.48
CX5032GB27000H0PESZZ	27.000	136-8773●	1.19	0.65	0.48
CX5032GB36000H0PESZZ	36.000	136-8774●	1.23	0.83	0.63
CX5032GB48000H0PESZZ	48.000	136-8775●	1.23	0.83	0.63
CX5032GB54000H0PESZZ	54.000	136-8776●	1.23	0.83	0.63

CX49GFWB (CX-49G) SMD Leaded Crystal Units



A range of Crystals ideal for consumer products like Car Audio Applications and Digial Electronics. The devices are suitable for high density assembly and mass production.

Load Capacitance 12pF
Frequency Stability ±50ppm
Frequency Temperature Stability ±50ppm
Operating Temperature Range -10°C to 70°C
Package 10.8 x 4.5mm

494633

Mftrs. List No.	Order Code	Price Each 1+	10+	100+
CX49GFWB04000H0PESZZ	136-8797●	0.89	0.50	0.34
CX49GFWB06000H0PESZZ	136-8798●	0.82	0.54	0.41
CX49GFWB08000H0PESZZ	136-8799●	0.80	0.45	0.31
CX49GFWB10000H0PESZZ	136-8800●	0.82	0.54	0.41
CX49GFWB12000H0PESZZ	136-8802●	0.73	0.48	0.37
CX49GFWB16000H0PESZZ	136-8803●	0.82	0.54	0.41
CX49GFWB20000H0PESZZ	136-8804●	0.89	0.50	0.34
CX49GFWB24000H0PESZZ	136-8805●	0.80	0.45	0.31
CX49GFWB27000H0PESZZ	136-8806●	0.89	0.50	0.34

HCM49 Crystals



A range of Crystals suitable for various applications such as communication devices, AV devices, automotive devices and measuring instruments.

Load Capacitance 18pF
Frequency Tolerance @ 25°C ±30ppm
Operating Temperature Range -40°C to 85°C

505055

Mftrs. List No.	Frequency (MHz)	Order Code	Price Each 1+	10+	100+
HCM49 7.3728MABJ-UT	7.3728	SMD 145-7107●	0.35	0.34	0.31
HCM49 10.000MABJ-UT	10.000	SMD 145-7103●	0.35	0.34	0.31
HCM49 14.7456MABJ-UT	14.7456	SMD 145-7104●	0.35	0.34	0.31
HCM49 25.000MABJ-UT	25.000	SMD 145-7105●	0.35	0.34	0.31
HCM49 27.000MABJ-UT	27.000	SMD 145-7106●	0.35	0.34	0.31

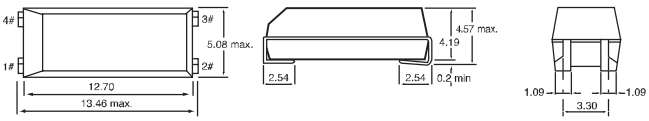
Surface Mount Crystals

SEIKO EPSON



A range of plastic encapsulated surface mount crystals.

- Drive level:
- Standard fequency tolerance:
- Standard frequency stability:
- Operating temperature range:
- Can style:



Mftrs. List No. MA506 + Frequency in MHz

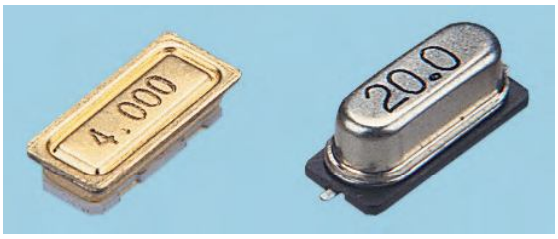
210571

Frequency MHz	Load Cap	Order Code	Price Each 1+	10+	100+	250+
4.000	10pF	SMD 121-6209	3.78	2.86	2.25	1.66
6.000	10pF	SMD 121-6210	2.58	1.58	1.26	0.90
8.000	10pF	SMD 121-6212	2.58	1.58	1.26	0.94
12.000	10pF	SMD 121-6213	1.85	1.13	0.95	0.74
14.31818	10pF	SMD 121-6224	1.85	1.13	0.95	0.74
16.000	10pF	SMD 121-6214	2.36	1.44	1.15	0.83
20.000	10pF	SMD 121-6225	2.36	1.44	1.15	0.83

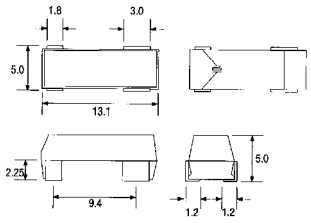
Surface Mount Crystals



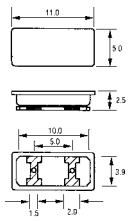
86SMX/CFPX86



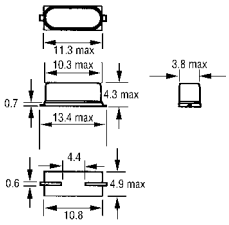
5SMX HC49/4HSMX



86SMX/CFPX86



5SMX



HC49/4HSMX

A range of quality surface mount crystals.

210477

Frequency MHz	Can Style	Frequency Accuracy ±ppm @ 25°C	Temp. Stability ± ppm	Temperature Range °C	Load Cap	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
32.768	2 x 6mm SMD	±100	20ppm	-10 to +60	12.5pF	LF XTAL025159	110-0758	0.64	0.53	0.38
32.768	8.1 x 3.56mm SMD	±30	30ppm	-40 to +85	9pF	LF XTAL003426	110-0760	2.82	2.54	2.12
3.579545	13 x 5mm SMD	±50	100ppm	-20 to +70	20pF	LF A119D	SMD 971-3123	1.60	1.25	0.87
3.579545	HC49/SMD	±30	50ppm	-10 to +60	16pF	LF A119E	SMD 971-3816	1.08	0.69	0.50
3.6864	13 x 5mm SMD	±50	100ppm	-20 to +70	16pF	LF A169B	SMD 971-3131	2.68	1.62	1.37
3.6864	HC49/SMD	±30	50ppm	-10 to +60	16pF	LF A169E	SMD 971-3824	1.05	0.83	0.70
4.000	13 x 5mm SMD	±50	100ppm	-20 to +70	30pF	LF A120C	SMD 971-3140	2.46	1.62	1.16
4.000	HC49/SMD	±30	50ppm	-10 to +60	16pF	LF A120E	SMD 971-3786	1.31	0.81	0.59
4.9152	13 x 5mm SMD	±50	100ppm	-20 to +70	16pF	LF A127C	SMD 971-3158	1.82	1.37	1.00
4.9152	HC49/SMD	±30	50ppm	-10 to +70	16pF	LF A127E	SMD 971-3301	0.49	0.34	0.31
6.000	HC49/SMD	±30	50ppm	-10 to +70	30pF	LF A132S	SMD 971-3310	0.49	0.34	0.31
8.000	13 x 5mm SMD	±50	100ppm	-20 to +70	16pF	LF A140C	SMD 971-3166	1.87	1.32	0.98
8.000	HC49/SMD	±30	50ppm	-10 to +60	16pF	LF A140E	SMD 971-3794	0.77	0.48	0.34
10.000	HC49/SMD	±30	50ppm	-10 to +60	16pF	LF A143G	SMD 971-3328	0.58	0.40	0.37
11.0592	HC49/SMD	±30	50ppm	-10 to +70	16pF	LF L108E	SMD 971-3336	0.62	0.46	0.40
12.000	13 x 5mm SMD	±50	100ppm	-20 to +70	16pF	LF A158D	SMD 971-3174	1.87	1.32	0.98
12.000	HC49/SMD	±30	50ppm	-10 to +60	16pF	LF A158E	SMD 971-3344	0.58	0.43	0.38
16.000	13 x 5mm SMD	±50	100ppm	-20 to +70	Series	LF A161E	SMD 971-3182	1.87	1.34	0.98
16.000	HC49/SMD	±30	50ppm	-10 to +60	16pF	LF A161G	SMD 971-3808	0.84	0.52	0.37
20.000	HC49/SMD	±30	50ppm	-10 to +60	16pF	LF A147E	SMD 971-3352	0.61	0.46	0.39

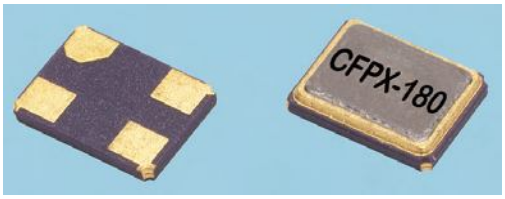
451010

Frequency MHz	Can Style	Frequency Accuracy ±ppm @ 25°C	Temp. Stability ±ppm	Temperature Range °C	Load Cap	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
8.000	7 x 5mm SMD	±100	±100ppm	-10 to +60	7pF	12SMX (B) 30/5020/16 8.0 MHZ	127-6690	0.770	0.600	0.500
11.0592	7 x 5mm SMD	±100	±100ppm	-10 to +60	7pF	12SMX (B) 30/5020/16 11.0592MHZ	127-6691	0.650	0.510	0.420
12.000	7 x 5mm SMD	±100	±100ppm	-10 to +60	7pF	12SMX (B) 30/5020/16 12.0 MHZ	127-6692	0.650	0.510	0.420
12	CFPX-104	±50	±50ppm	-10 to +60	18pF	CFPX-104 50/50/10/18 12.0 MHZ	127-6628	1.620	1.270	1.030
14.31818	7 x 5mm SMD	±100	±100ppm	-10 to +60	7pF	12SMX (B) 30/5020/16 14.31818 MHZ	127-6693	0.650	0.510	0.420
14.31818	CFPX-104	±50	±50ppm	-10 to +60	18pF	CFPX-104 50/50/10/18 14.31818MHZ	127-6630	1.300	1.020	0.820
14.7456	7 x 5mm SMD	±100	±100ppm	-10 to +60	7pF	12SMX (B) 30/5020/16 14.74546 MHZ	127-6695	0.650	0.510	0.420
14.7456	CFPX-104	±50	±50ppm	-10 to +60	18pF	CFPX-104 50/50/10/18 14.7456MHZ	127-6631	1.620	1.270	1.030
16.000	7 x 5mm SMD	±100	±100ppm	-10 to +60	7pF	12SMX (B) 30/5020/16 16.0 MHZ	127-6696	0.650	0.510	0.420
16	CFPX-104	±50	±50ppm	-10 to +60	18pF	CFPX-104 50/50/10/18 16.0 MHZ	127-6632	1.620	1.270	1.030
20.000	7 x 5mm SMD	±100	±100ppm	-10 to +60	7pF	12SMX (B) 30/5020/16 20 MHZ	127-6697	0.650	0.510	0.420
20	CFPX-104	±50	±50ppm	-10 to +60	18pF	CFPX-104 50/50/10/18 20.0MHZ	127-6634	1.620	1.270	1.030
24	CFPX-104	±50	±50ppm	-10 to +60	18pF	CFPX-104 50/50/10/18 24.0MHZ	127-6635	1.620	1.270	1.030
24.576	7 x 5mm SMD	±100	±100ppm	-10 to +60	7pF	12SMX (B) 30/5020/16 24.576 MHZ	127-6698	0.650	0.510	0.420
24.576	CFPX-104	±50	±50ppm	-10 to +60	18pF	CFPX-104 50/50/10/18 24.576MHZ	127-6636	1.620	1.270	1.030
25	CFPX-104	±50	±50ppm	-10 to +60	18pF	CFPX-104 50/50/10/18 25.0MHZ	127-6637	1.620	1.270	1.030
30	CFPX-104	±50	±50ppm	-10 to +60	18pF	CFPX-104 50/50/10/18 30.0MHZ	127-6638	1.620	1.270	1.030
30.000	HC49/SMD	±50	±50ppm	-10 to +60	18pF	HC49/4HSMX 30/50/20/18 30 MHZ	127-6686	0.220	0.175	0.144
32.768	7 x 5mm SMD	±100	±100ppm	-10 to +60	7pF	12SMX (B) 30/5020/16 32.768 MHZ	127-6701	0.770	0.600	0.500
40	CFPX-104	±50	±50ppm	-10 to +60	18pF	CFPX-104 50/50/10/18 40.0MHZ	127-6639	1.620	1.270	1.030
40.000	HC49/SMD	±50	±50ppm	-10 to +60	18pF	HC49/4HSMX 30/50/20/SR 40.0MHZ	127-6687	0.220	0.175	0.144
50.000	7 x 5mm SMD	±100	±100ppm	-10 to +60	7pF	12SMX (B) 30/5020/16 50.0MHZ	127-6702	0.940	0.740	0.610
50.000	HC49/SMD	±50	±50ppm	-10 to +60	18pF	HC49/4HSMX 30/50/20/SR 50.0MHZ	127-6688	0.220	0.175	0.144
60.000	7 x 5mm SMD	±100	±100ppm	-10 to +60	7pF	12SMX (B) 30/5020/16 60.0MHZ	127-6703	0.940	0.740	0.610
60.000	HC49/SMD	±50	±50ppm	-10 to +60	18pF	HC49/4HSMX 30/50/20/SR 60.0MHZ	127-6689	0.220	0.175	0.144

RL Re-reeling available

Quartz Crystals - continued

CFPX-180 Crystals



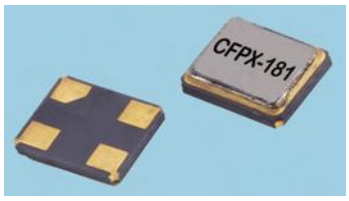
- **Holder Style:**
- Ceramic package with a seam sealed metal lid
- **General Specifications:**
- Drive Level: 100µW max
- Ageing: ±5ppm max per year @ 25°C
- Shunt Capacitance (C0): 7pF max
- Storage Temperature Range: -30 to 85°C

New

527196

Frequency MHz	Package	Frequency Tolerance @25°C	Frequency Stability @ Op. Temp	Operating Temperature Range	Load Cap	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
16	3.2 x 2.5mm	±50ppm	±50ppm	-10°C to +60°C	16pF	LF XTAL035264	SMD 167-4649	1.30	0.95	0.75
16.384	3.2 x 2.5mm	±50ppm	±50ppm	-10°C to +60°C	16pF	LF XTAL035503	SMD 167-4650	1.30	0.95	0.75
20	3.2 x 2.5mm	±50ppm	±50ppm	-10°C to +60°C	16pF	LF XTAL035265	SMD 167-4652	1.21	0.88	0.69
24	3.2 x 2.5mm	±50ppm	±50ppm	-10°C to +60°C	16pF	LF XTAL035266	SMD 167-4653	1.21	0.88	0.69
24.576	3.2 x 2.5mm	±50ppm	±50ppm	-10°C to +60°C	16pF	LF XTAL035267	SMD 167-4654	1.21	0.88	0.69
25	3.2 x 2.5mm	±50ppm	±50ppm	-10°C to +60°C	16pF	LF XTAL035268	SMD 167-4655	1.21	0.88	0.69
30	3.2 x 2.5mm	±50ppm	±50ppm	-10°C to +60°C	16pF	LF XTAL035269	SMD 167-4656	1.21	0.88	0.69
40	3.2 x 2.5mm	±50ppm	±50ppm	-10°C to +60°C	16pF	LF XTAL035270	SMD 167-4657	1.34	0.97	0.77

CFPX-181 Crystals



- **Holder Style:**
- Hermetically sealed ceramic package with a seam sealed metal lid
- **General Specifications:**
- Drive Level: 10mW typical, 100mW max
- Ageing: ±1ppm max per year at 25°C

New

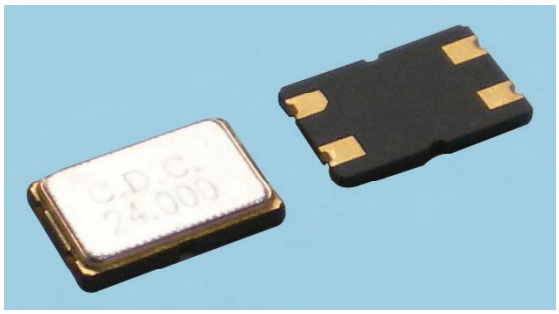
527252

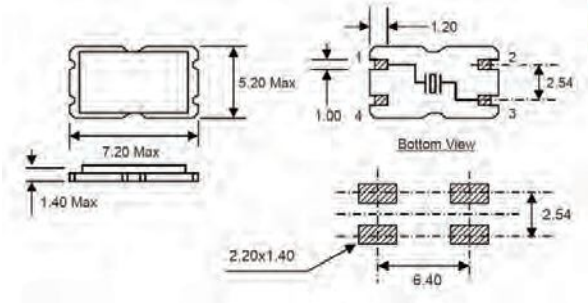
Frequency MHz	Package	Frequency Tolerance @25°C	Frequency Stability @ Op. Temp	Operating Temperature Range	Load Cap	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
16	2.5 x 2mm	±50ppm	±50ppm	-10°C to +60°C	18pF	LF XTAL035612	SMD 167-4696	3.83	3.13	2.46
20	2.5 x 2mm	±50ppm	±50ppm	-10°C to +60°C	18pF	LF XTAL035613	SMD 167-4697	3.83	3.13	2.46
24	2.5 x 2mm	±50ppm	±50ppm	-10°C to +60°C	18pF	LF XTAL035614	SMD 167-4698	3.83	3.13	2.46
24.576	2.5 x 2mm	±50ppm	±50ppm	-10°C to +60°C	18pF	LF XTAL035615	SMD 167-4700	3.83	3.13	2.46
25	2.5 x 2mm	±50ppm	±50ppm	-10°C to +60°C	18pF	LF XTAL035616	SMD 167-4701	3.83	3.13	2.46
32	2.5 x 2mm	±50ppm	±50ppm	-10°C to +60°C	18pF	LF XTAL035617	SMD 167-4702	3.83	3.13	2.46
40	2.5 x 2mm	±50ppm	±50ppm	-10°C to +60°C	18pF	LF XTAL035618	SMD 167-4703	3.83	3.13	2.46
50	2.5 x 2mm	±50ppm	±50ppm	-10°C to +60°C	18pF	LF XTAL035619	SMD 167-4704	3.83	3.13	2.46

DX-57 Crystal Units

multicomp

New





The DX-57 is for use in Communication equipment, PDA's and Wireless security systems. It is a cost effective, ultra thin surface mount device. It is available in a small 5 x 7mm Size 5 x 7mm, with a Maximum height of just 1.4mm.

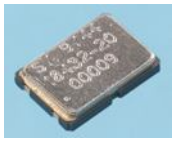
525373

Frequency MHz	Can Style	Frequency Tolerance @25°C	Temp. Stability	Temperature Range	Load Capacitance	Order Code	Price Each 1+	10+	100+
10.0	DX57	±30ppm	±50ppm	-20°C to +70°C	20pF	166-7019	3.52	2.63	2.18
11.0592	DX57	±30ppm	±50ppm	-20°C to +70°C	20pF	166-7020	3.52	2.63	2.18
12.0	DX57	±30ppm	±50ppm	-20°C to +70°C	20pF	166-7021	3.52	2.63	2.18
18.432	DX57	±30ppm	±50ppm	-20°C to +70°C	20pF	166-7022	3.52	2.63	2.18
19.6608	DX57	±30ppm	±50ppm	-20°C to +70°C	20pF	166-7023	3.52	2.63	2.18
24.0	DX57	±30ppm	±50ppm	-20°C to +70°C	20pF	166-7024	3.52	2.63	2.18
27.0	DX57	±30ppm	±50ppm	-20°C to +70°C	20pF	166-7025	3.52	2.63	2.18
32.0	DX57	±30ppm	±50ppm	-20°C to +70°C	20pF	166-7027	3.52	2.63	2.18

Surface Mount Crystals

NKS7 Series

SaRonix



Frequency Range:	8.000MHz to 30MHz (Fundamental) 30MHz to 83MHz (3rd Overtone)
Operating temperature:	-20°C to +70°C
Temperature Stability:	±50ppm
Load Capacitance:	8 to 32pF, or Series Resonant
Drive Level:	500µW max.
Shunt Capacitance:	7pF max.

A series of miniature crystals in a standard 5 x 7mm ceramic package.

211012

Frequency	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
8.000	NKS7-080-20	120-9998	4.10	3.12	2.57
8.192	NKS7-082-20	120-9999	4.10	3.12	2.57
9.8304	NKS7-098-20	121-0000	4.10	3.12	2.57
10.000	NKS7-100-20	121-0001	4.10	3.12	2.57
11.0592	NKS7-111-20-E	121-0003	4.10	3.12	2.57
12.000	NKS7-120-20-E	121-0004	4.10	3.12	2.57
14.31818	NKS7-143-20	121-9010	4.08	3.12	2.57
16.384	NKS7-163-20-E	121-0005	2.92	2.22	1.83
18.432	NKS7-184-20-E	121-0006	4.10	3.12	2.57

Frequency	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
19.6608	NKS7-196-20-E	**121-0007●**	4.10	3.12	2.57
24.000	NKS7-240-20-E	**121-0008●**	4.10	3.12	2.57
27.000	NKS7-270-20-E	**121-0009●**	4.10	3.12	2.57
32.000	NKS7-320-20-E	**121-0010●**	4.10	3.12	2.57
40.000	NKS7-400-20-E	**121-0011●**	2.74	2.09	1.72

Low Jitter SAW Oscillator

EPSON TOYOCOM



This family of ICs are very low jitter / low phase noise LVDS & LVPECL SAW based oscillator with high fundamental frequencies for communications applications, with output enable feature.

- Supply voltage 3V3±0.3
- Operating temperature: 0 to +70°C
- Stability: ±100ppm
- Output Loads: LHPA LVDS 100 Ω & PHPA LVPECL 50Ω
- Output rise & fall time: 400pS max
- Output enable/disable
- Current consumptions: LHPA 45mA & PHPA 100mA max.
- Duty Cycle 45/55%

450969

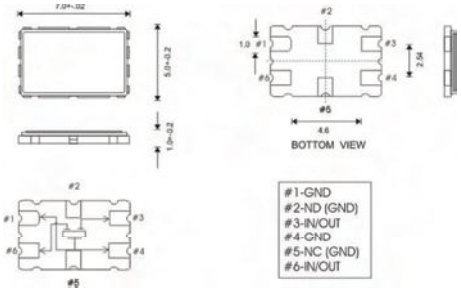
Mftrs. List no.	Frequency MHz	Order Code	Price Each 1+	10+	100+
EG-2102CA LHPA 106.25MHZ	106.25	SMD**127-8072●**	11.57	10.06	8.89
EG-2102CA LHPA 125.0MHZ	125	SMD**127-8073●**	11.57	10.06	8.89
EG-2102CA LHPA 156.25MHZ	156.25	SMD**127-8074●**	14.97	13.03	11.52
EG-2102CA PHPA 106.25MHZ	106.25	SMD**127-8075●**	11.57	10.06	8.89
EG-2102CA PHPA 125.0MHZ	125	SMD**127-8077●**	11.57	10.06	8.89
EG-2102CA PHPA 156.25MHZ	156.25	SMD**127-8078●**	14.97	13.03	11.52

Resonators and Filters

Monolithic Crystal Filters

AEL CRYSTALS LIMITED





Applications:
- UHF & VHF Radio
- Wireless Telemetry
- Wireless LAN
- Pagers

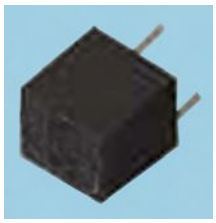
Features:
- Small Size
- Surface Mounted
- Low Insertion Loss

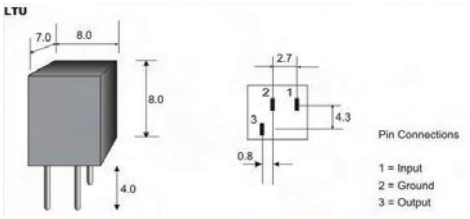
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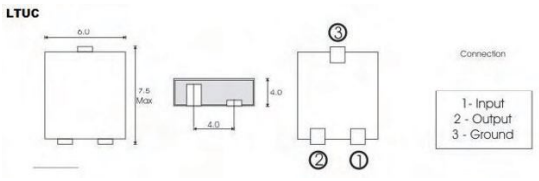
Description	Mftrs. List No	Order Code	Price Each 1+	10+	100+	250+	500+
21.400MHz 2-Pole Monolithic Crystal Filter, 3dB BW ±3.75kHz	F21M400000S015	SMD**144-8094●**	3.23	2.58	2.16	1.99	1.70
21.400MHz 4-Pole Monolithic Crystal Filter, 3dB BW ±3.75kHz	F21M400000S004	SMD**144-8095●**	6.51	5.20	4.34	4.01	3.43
21.400MHz 2-Pole Monolithic Crystal Filter, 3dB BW ±15kHz	F21M400000S014	SMD**144-8096●**	2.50	2.00	1.66	1.54	1.32
21.400MHz 4-Pole Monolithic Crystal Filter, 3dB BW ±15kHz	F21M400000S016	SMD**144-8097●**	5.46	4.37	3.63	3.36	2.88
45.000MHz 2-Pole Monolithic Crystal Filter, 3dB BW ±3.75kHz	F45M000000S015	SMD**144-8098●**	6.55	5.23	4.37	4.03	3.45
45.000MHz 2-Pole Monolithic Crystal Filter, 3dB BW ±15kHz	F45M000000S012	SMD**144-8099●**	5.19	4.16	3.47	3.20	2.74

LTU Series Ceramic Filters

AEL CRYSTALS LIMITED







Features:
- High Selectivity
- Wide Range of Bandwidths
- Industry Standard Outline & Pinout

Applications:
- Communications Equipment

484815

Description	Passband Ripple dB Max	Insertion Loss dB Max	6dB Bandwidth kHz Min	40dB Bandwidth kHz Min	Impedance	Mftrs. List No	Order Code	Price Each 1+	10+	100+
455kHz LTU Series Ceramic Filter	2	4	±17.5	±40	1kohm	F455K000L026	**144-8136●**	0.78	0.62	0.52
455kHz LTU Series Ceramic Filter	2	6	±3	±9	2kohm	F455K000L025	**144-8137●**	0.78	0.62	0.52
455kHz LTUC Series Ceramic Filter	2	4	±15	±25	1kohm	F455K000S014	**144-8138●**	0.78	0.62	0.52
455kHz LTUC Series Ceramic Filter	2	6	±3	±7.5	1.5kohm	F455K000S011	**144-8139●**	0.78	0.62	0.52

Surface Acoustic Wave (SAW) Resonators and Filters

EPCOS





Surface Acoustic Wave (SAW) resonators and front-end filters are key components in Remote Control Applications, which transmit in Europe at 433.92 MHz or 868-870 MHZ.
In a transmitter, an oscillator controlled by a SAW resonator oscillates to generate an RF carrier signal, modulated by turning the oscillator on and off.
This coded signal is transmitted out via the antenna and received by the antenna at the receiver to a distance of up to 300 ft. The receiver picks up the coded carrier with some environmental noise. The noise can be filtered out by a narrow band, high selectivity, SAW front-end filter.
The filtered RF carrier is converted down by a mixer with a stable signal from an oscillator, controlled by another SAW resonator, to an IF (typ. 10.7 MHZ or 500kHz), which is fed into a decoder IC.

Typical applications:
- Keyless entry (RKE, wireless operation of a central locking system in a car)
- Wireless Tyre air pressure management (TAPM)
- Short range data transmission
- Garage door openers
- Alarm systems
- Electronic toll

Features:
- Source Power, OdBm
- Terminating source / load impedence, 50 Ohms
- Temperature Coeff. of frequency, 0.03ppm / k^2
- Terminals, Ni - gold plated

Resonators

Type	Centre Freq. fc	Insertion Attenuation, min	Insertion Loss	Phase @ fc	Pass Band	Quality factor loaded / unloaded	Voltage V dc	Operating Temp. Min. / Max.	Mftrs. List No.
R2701	433.92MHz	9.2dB	-	160°	-	7800 / 11200	12	-45°C / 85°C	B39431R2701U310
R2709	868.3MHz	7.0dB	-	130°	-	3600 / 6600	-	-45°C / 85°C	B39871R2709U310
R727	433.92MHz	1.0dB	-	160°	-	- / 14500	12	-45°C / 120°C	B39431R727U310

RL Re-reeling available

Resonators and Filters - continued

Surface Acoustic Wave (SAW) Resonators and Filters - continued

Filters									
N1477	1472MHz	-	0.9dB	-	40MHz min	-	-	-40°C / 90°C	B69812N1477A540
N2457	2441.5MHz	-	0.6dB	-	83MHz	-	-	-20°C / 85°C	B69812N2457D501
B3550	433.96MHz	-	2.0dB	-	0.73MHz	-	-	45°C / 95°C	B39431B3550U310
B3555	433.96MHz	-	2.2dB	-	0.57MHz	-	-	45°C / 120°C	B39431B3555U310
B3570	868.30MHz	-	2.7dB	-	0.78MHz	-	-	-45°C / 90°C	B39871B3570U310

344481

Type	Pins/Pkg	Description	Order Code	Price Each 1+	10+	100+
Resonators						
R2701	8 / QCC8C	2-port Resonator with 180° nominal phase at resonance	SMD 745-5461●	1.70	1.27	1.08
R2709	8 / QCC8C	2-port Resonator with 180° nominal phase at resonance	SMD 745-5445●	1.70	1.27	1.08
R727	8 / QCC8C	1-port Resonator	SMD 745-5437●	2.13	1.58	1.21
Filters						
N1477	8 / QCC8C	RF 2-pole SMD Filter for DAB 1472 MHz	SMD 745-5372●	2.89	2.12	1.67
N2457	8 / QCC8C	2-pole SMD Filter for W-LAN	SMD 745-5470●	3.20	2.36	1.86
B3550	8 / QCC8C	RF low-loss SMT 8-pin filter for remote control receivers	SMD 745-5399●	3.20	2.36	1.86
B3555	8 / QCC8C	RF low-loss SMT 8-pin filter for remote control receivers	SMD 745-5402●	2.32	1.70	1.46
B3570	8 / QCC8C	RF low-loss SMT 8-pin filter for remote control receivers	SMD 745-5429●	2.98	2.75	2.67

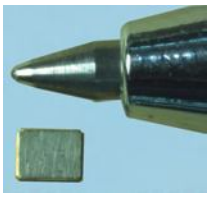
Type	Centre Freq. fc	Insertion Attenuation, min	Insertion Loss	Phase @ fc	Pass Band	Quality factor loaded / unloaded	Voltage V dc	Operating Temp. Min. / Max.	Mftrs. List No.
Resonators									
R801	315MHz	1.3dB	-	-	-	- / 17000	12	-40°C / 125°C	B39321R801H210
R820	433.92MHz	1.2dB	-	-	-	- / 11500	12	-40°C / 125°C	B39431R820H210
R850	433.92MHz	1.2dB	-	-	-	- / 13800	12	-40°C / 125°C	B39431R850H210
R880	433.92MHz	1.2dB	-	-	-	- / 11500	12	-40°C / 125°C	B39431R880H210
R804	868.35MHz	1.2dB	-	-	-	- / 8900	12	-40°C / 125°C	B39871R804H210
Filters									
B3751	315MHz	-	2.1dB	-	0.57MHz min	-	6	-45°C / 120°C	B39321B3751U310
B3750	433.92MHz	-	2.0dB	-	0.64MHz min	-	6	-45°C / 120°C	B39431B3750U310
B3761	315MHz	-	1.9dB	-	0.54MHz min	-	6	-45°C / 120°C	B39321B3761Z810
B3760	433.92MHz	-	1.9dB	-	0.62MHz min	-	6	-45°C / 120°C	B39431B3760Z810

422922

Type	Order Code	Pins/Pkg	Description	Price Each 1+	10+	100+
Resonators						
R801	SMD 972-0219●	4 / QCC4A	1-port Resonator with quartz frequency stabilisation	1.16	0.88	0.68
R820	SMD 972-0235●	4 / QCC4A	1-port Resonator with quartz frequency stabilisation	2.04	1.66	1.55
R880	SMD 972-0251●	4 / QCC4A	1-port Resonator with quartz frequency stabilisation	1.94	1.88	1.83
R804	SMD 972-0278●	4 / QCC4A	1-port Resonator with quartz frequency stabilisation	0.85	0.64	0.49
Filters						
B3750	SMD 972-0294●	8 / QCC8C	RF Low-Loss Filter for remote control receivers	2.75	2.54	2.46
B3761	SMD 972-0308●	8 / QCC8B	RF Low-Loss Filter for remote control receivers	2.66	2.59	2.14
B3760	SMD 972-0316●	8 / QCC8B	RF Low-Loss Filter for remote control receivers	2.81	2.59	2.51

SMD Crystal Resonators

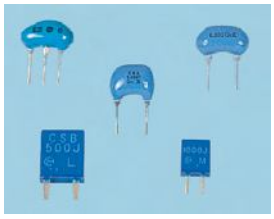
AEL CRYSTALS LIMITED



Parameter	Condition	Specification
Freq. Range (MHz)	–	16.00 ~ 50.00
Freq. Tolerance	at 25°C	±10PPM ~ ±50PPM
Freq. Stability	Over Op. Temp.	±10PPM ~ ±50PPM
Op. Temp Range	–	-10oC to +60oC
Storage Temp. Range	–	-40oC to +85oC
Drive-Level	–	0.1mW Max.
Shunt Capacitance	–	7.0pF Max
Ageing	per year at 25°C	±2.0PPM
Case Style	–	4 x 2.5mm - 4 Pad

484728

Freq. (MHz)	Mftrs. List No	Order Code	Price Each 1+	10+	100+
16.000	X16M000000S104	SMD 144-8102●	3.61	2.90	2.42
19.6608	X19M660800S017	SMD 144-8103●	3.61	2.90	2.42
20.000	X20M000000S053	SMD 144-8104●	3.61	2.90	2.42
24.000	X24M000000S029	SMD 144-8105●	3.61	2.90	2.42
25.000	X25M000000S054	SMD 144-8106●	3.61	2.90	2.42
26.000	X26M000000S019	SMD 144-8107●	3.61	2.90	2.42
30.000	X30M000000S012	SMD 144-8108●	3.61	2.90	2.42
32.000	X32M000000S027	SMD 144-8111●	3.61	2.90	2.42
40.000	X40M000000S016	SMD 144-8112●	3.61	2.90	2.42
50.000	X50M000000S005	SMD 144-8113●	3.61	2.90	2.42



A range of small, lightweight, ultra low cost resonators designed for use in oscillator circuits. These components are made of high stability piezoelectric ceramics and have been developed to function as a reference signal generator (the frequency is primary adjusted by the size and thickness of the ceramic element). Typical applications include TVs, VCRs, automotive electronic devices, telephones, copiers, cameras, voice synsthesisers, communication equipment, remote control units, etc.

Ceramic resonators may also be used as the timing element in most microprocessor based equipment.

Initial tolerance ±0.5%.

muRata innovator in Electronics

Freq. MHz	W	H	D	Lead Spacing	Mftrs. List No.	Order Multiple = 5 Order Code	Price Each 5+	10+	100+	250+
0.455	7.5	8.5	3.3	5	CSBLA455KJ58-B0	445-514●	0.75	0.57	0.41	0.29
0.5	7.5	8.5	3.3	5	CSBLA500KJ58-B0	117-0421●	0.59	0.47	0.38	0.21
0.56	7.5	7.2	2.8	5	CSBLA560KJ58-B0	117-0437●	0.93	0.70	0.50	0.36
1	5	6	2.2	2.5	CSBLA1M00J58-B0	117-0422●	0.88	0.67	0.51	0.43
2	10	10	5	5	CSALF2M00G55-B0	116-1711●	1.03	0.77	0.59	0.33
2.45	10	7.5	5	5	CSALF2M45G55-B0	116-1707●	0.86	0.64	0.48	0.30
3.58	10	7.5	5	5	CSALF3M58G55-B0	116-1692●	0.62	0.46	0.35	0.20
3.69	10	7.5	5	5	CSALF3M69G55-B0	116-1709●	0.86	0.64	0.48	0.30
4	10	7.5	5	5	CSALF4M00G55-B0	116-1694●	0.76	0.55	0.42	0.22
4.19	10	7.5	5	5	CSALF4M19G55-B0	116-1695●	0.62	0.46	0.35	0.20
5	10	7.5	5	5	CSALF5M00G55-B0	116-1697●	0.86	0.64	0.48	0.30
6	10	7.5	5	5	CSALF6M00G55-B0	116-1698●	0.76	0.55	0.42	0.22
8	10	10	5	5	CSALF8M00T55-B0	116-1699●	0.75	0.55	0.44	0.24
12	10	10	5	5	CSALF12M0T55-B0	116-1700●	0.77	0.56	0.45	0.25
16	10	10	5	5	CSALF16M0X55-B0	116-1701●	0.66	0.50	0.38	0.20

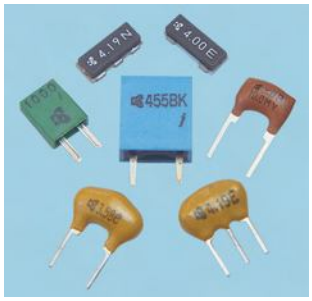
The following 3 lead Ceramic Resonators can make up oscillation circuits without load capacitance.

210479

Freq. MHz	W	H	D	Lead Spacing	Mftrs. List No.	Order Multiple = 5 Order Code	Price Each 5+	10+	100+	250+
3.58	10	6	5	2.5	CSTLF3M58G55-B0	116-1703●	0.380	0.280	0.210	0.163
4	10	6	5	2.5	CSTLF4M00G55-B0	116-1704●	0.470	0.350	0.270	0.200
4.19	10	6	5	2.5	CSTLF4M19G55-B0	116-1705●	0.470	0.350	0.270	0.200
6	10	6	5	2.5	CSTLF6M00G55-B0	116-1706●	0.470	0.350	0.270	0.200
8	10	8	5	2.5	CSTLF8M00T55-B0	116-1712●	0.650	0.480	0.370	0.330

RL Re-reeling available

Farnell



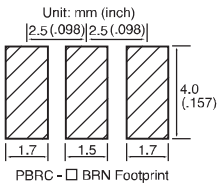
A range of high quality, leaded and surface mount, Ceramic Resonators for oscillator circuit designs. Frequency tolerance ±0.5%.

Freq. MHz	W	H	D	Lead Spacing	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+
2.0	7.4	2.0	3.4	5.0	PBRC2.00GR50X000	SMD 120-9934	1.45	0.96	0.80	0.46
4.0	7.4	2.0	5.0	5.0	PBRC4.00GR50X000	SMD 120-9937	2.72	1.85	1.41	0.67
4.19	7.4	2.0	3.4	5.0	PBRC4.19GR50X000	SMD 121-8527	0.60	0.45	0.39	0.25
6.0	7.4	2.0	3.4	5.0	PBRC6.00GR50X000	SMD 121-8528	0.83	0.64	0.53	0.34
8.0	7.4	2.0	5.0	5.0	PBRC8.00GR50X000	SMD 120-9938	1.38	0.99	0.74	0.42

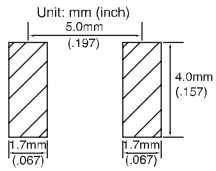
The following 3 lead Ceramic Resonators can make up oscillation circuits without load capacitance. These are Resonators with built-in capacitor.

210589

Freq. MHz	W	H	D	Lead Spacing	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+
2.0	7.4	2.0	3.4	2.5	PBRC2.00HR50X000	SMD 121-8531	1.66	1.25	1.10	0.67
3.58	7.4	2.0	3.4	2.5	PBRC3.58HR50X000	SMD 120-9940	0.51	0.39	0.34	0.29
4.0	7.4	2.0	3.4	2.5	PBRC4.00HR50X000	SMD 120-9941	0.51	0.39	0.34	0.29
4.19	7.4	2.0	3.4	2.5	PBRC4.19HR50X000	SMD 121-8532	0.51	0.39	0.34	0.27
6.0	7.4	2.0	3.4	2.5	PBRC6.00HR50X000	SMD 120-9939	0.46	0.35	0.31	0.26
8.0	7.4	2.0	3.4	2.5	PBRC8.00HR50X000	SMD 120-9943	0.51	0.39	0.34	0.29
10.0	7.4	2.0	3.4	2.5	PBRC10.00HR50X0RZ	SMD 121-8533	0.86	0.65	0.57	0.47
12.0	7.4	2.0	3.4	2.5	PBRC12.00HR50X0RZ	SMD 121-8535	0.77	0.58	0.51	0.42
16.0	7.4	2.0	3.4	2.5	PBRC16.00HR50X0RZ	SMD 121-8536	0.86	0.65	0.57	0.47
20.0	7.4	2.0	3.4	2.5	PBRC20.00HR50X000	SMD 121-8537	0.86	0.65	0.57	0.48



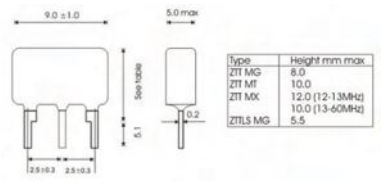
PBRC - ☐ BRN Footprint



PBRC - ☐ ARN Footprint

ZTT Series Ceramic Resonators





Features:
- Built-In Capacitor
- Low Cost
- Industry Standard Dimensions
- Good Stability

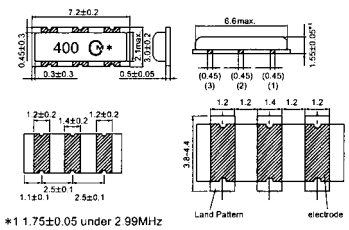
Applications:
- Microprocessor Systems
- Datacommunications
- Consumer Electronics
- Automotive Electronics

484738

Frequency (MHz)	Freq. Accuracy @25°C	Temp. Stability -20 to 80°C	Temp. Range °C	Max. Voltage	Mftrs. List No	Order Code	Price Each 1+	10+	100+	250+	500+
3.58	±0.5%	±0.3%	-20 to +70	100V DC	C3M580000L002	144-8124	0.260	0.200	0.175	0.165	0.143
4	±0.5%	±0.3%	-20 to +70	100V DC	C4M000000L001	144-8125	0.260	0.200	0.175	0.165	0.143
8	±0.5%	±0.3%	-20 to +70	100V DC	C8M000000L004	144-8126	0.260	0.200	0.175	0.165	0.143
10	±0.5%	±0.3%	-20 to +70	100V DC	C10M000000L002	144-8127	0.260	0.200	0.175	0.165	0.143
12	±0.5%	±0.3%	-20 to +70	100V DC	C12M000000L003	144-8128	0.260	0.200	0.175	0.165	0.143
16	±0.5%	±0.3%	-20 to +70	100V DC	C16M000000L003	144-8129	0.260	0.200	0.175	0.165	0.143
20	±0.5%	±0.3%	-20 to +70	100V DC	C20M000000L001	144-8130	0.260	0.200	0.175	0.165	0.143
25	±0.5%	±0.3%	-20 to +70	100V DC	C25M000000L001	144-8131	0.260	0.200	0.175	0.165	0.143
30	±0.5%	±0.3%	-20 to +70	100V DC	C30M000000L001	144-8132	0.260	0.200	0.175	0.165	0.143
40	±0.5%	±0.3%	-20 to +70	100V DC	C40M000000L001	144-8133	0.260	0.200	0.175	0.165	0.143
48	±0.5%	±0.3%	-20 to +70	100V DC	C48M000000L001	144-8135	0.260	0.200	0.175	0.165	0.143

CSTCC Ceramic Resonators





*1 1.75±0.05 under 2.99MHz

- The CSTCC/CR series of SMD Resonators offer an alternative to quartz crystal as a clock source for ICs
- Three terminal design includes built in loading capacitors which reduces external circuitry and cost of design
- Smaller than equivalent quartz crystal
- Rise time for ceramic resonator is approx. 1/100th that for quartz crystal
- Total tolerance as low as ±0.5%

227473

Order Multiple=5

Freq. MHz	W	H	D	Lead Spacing	Mftrs. List No.	Order Code	Price Each 5+	10+	100+	250+
2	7.2	1.55	3	2.5	CSTCC2M00G53-R0	117-0423	0.61	0.43	0.35	0.32
3.58	7.2	1.55	3	2.5	CSTCC3M58G53-R0	117-0424	0.49	0.35	0.29	0.26
3.64	7.2	1.55	3	2.5	CSTCC3M64G53-R0	117-0425	0.62	0.48	0.35	0.24
3.68	7.2	1.55	3	2.5	CSTCC3M68G53-R0	117-0426	0.62	0.48	0.35	0.24
3.84	7.2	1.55	3	2.5	CSTCC3M84G53-R0	117-0427	0.62	0.48	0.35	0.24
8	7.2	1.55	3	2.5	CSTCC8M00G53-R0	117-0435	0.62	0.48	0.35	0.24
10	7.2	1.55	3	2.5	CSTCC10M0G53-R0	117-0436	0.69	0.53	0.39	0.26

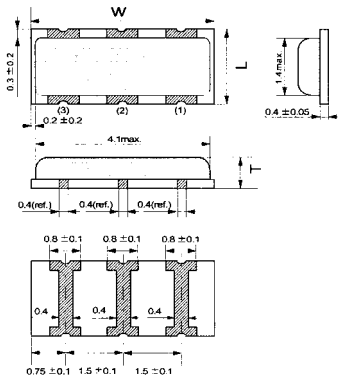
RL Re-reeling available

Resonators and Filters - continued

CSTCR Ceramic Resonators



CSTCR Series



- The CSTCR range are the world's smallest resonators at these frequencies
- The gold terminals are compatable with conductive adhesive based Pb free process
- Three terminal design includes built in loading capacitors which reduces external circuitry and cost of design
- Smaller than equivalent quartz crystal
- Rise time for ceramic resonator is approx. 1/100th that for quartz crystal
- Total tolerance as low as ±0.5%

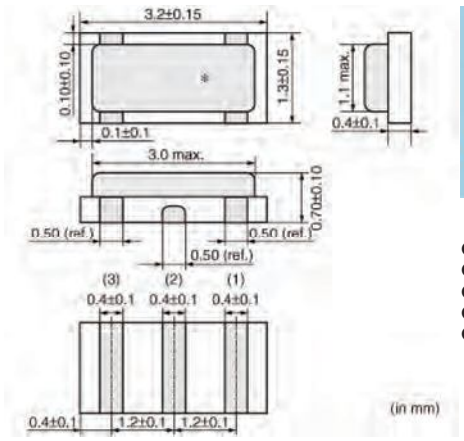
227474

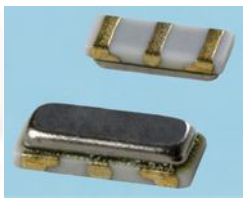
Order Multiple=5

Freq. MHz	W	H	D	Lead Spacing	Mftrs. List No.	Order Code	Price Each 5+	10+	100+	250+
4	4.5	1.15	2	1.5	CSTCR4M00G53-R0	117-0428●	0.49	0.37	0.27	0.21
4.19	4.5	1.15	2	1.5	CSTCR4M19G53-R0	117-0431●	0.49	0.37	0.27	0.21
4.91	4.5	1.15	2	1.5	CSTCR4M91G53-R0	117-0432●	0.53	0.41	0.29	0.22
5	4.5	1.15	2	1.5	CSTCR5M00G53-R0	117-0433●	0.49	0.37	0.27	0.22
6	4.5	1.15	2	1.5	CSTCR6M00G53-R0	117-0434●	0.49	0.37	0.27	0.21

Ceramic Resonators - CERALOCK®

New





CSTCE-G Series

Murata's ceramic processing technology and unique piezo-electric material has led to the development of a range of small and thin ceramic resonators (CERALOCK) that offer high oscillation frequency and remarkable oscillation tolerance. These products are designed for use as a stable timing source for microprocessors.

- High reliability
- wide temperature range
- Oscillation circuits do not require external load capacitors
- The resonators are extremely small and have a low profile
- No adjustment is necessary for oscillation circuits

515180

Nominal Freq.	Built-in Load Capacitance	Initial Tolerance	Temp. Stability	Temperature Range	Mftrs. List No.	Order Code	Price Each 5+	10+	100+	250+
8MHz	33pF	±0.5%	±0.2%	-40 to 125°C	CSTCE8M00G55Z-R0	SMD 161-5352●	0.390	0.310	0.220	0.153

ZTTxx Series SMD Ceramic Resonators



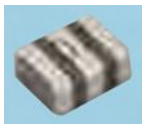
ZTTCC



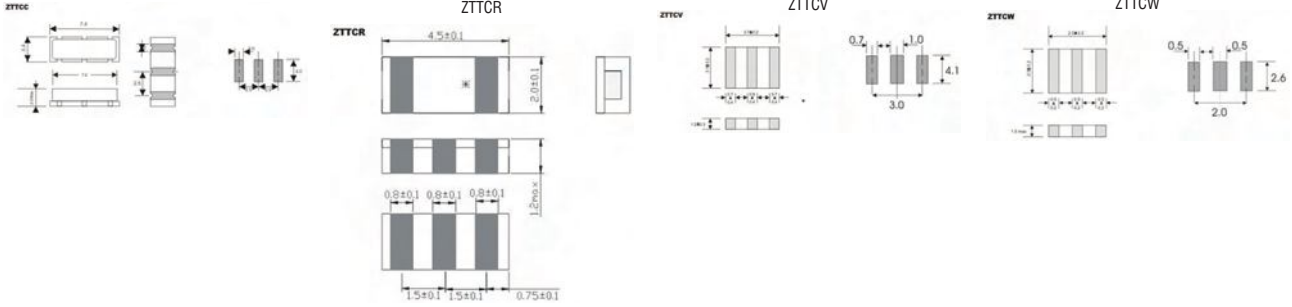
ZTTCR



ZTTCV



ZTTCW



484753

Frequency (MHz)	Series	Freq. Accuracy @25°C	Temp. Stability -20 to 80°C	Temp. Range °C	Mftrs. List No	Order Code	Price Each 1+	10+	100+	250+	500+
3.58	ZTTCC	±0.5%	±0.3%	-20 to +70	C3M580000S005	SMD 144-8140●	0.260	0.200	0.175	0.165	0.143
4	ZTTCC	±0.5%	±0.3%	-20 to +70	C4M000000S004	SMD 144-8141●	0.260	0.200	0.175	0.165	0.143
8	ZTTCR	±0.5%	±0.3%	-20 to +70	C8M000000S014	SMD 144-8142●	0.260	0.200	0.175	0.165	0.143
10	ZTTCV	±0.5%	±0.3%	-20 to +70	C10M000000S006	SMD 144-8143●	0.260	0.200	0.175	0.165	0.143
12	ZTTCV	±0.5%	±0.3%	-20 to +70	C12M000000S004	SMD 144-8144●	0.260	0.200	0.175	0.165	0.143
16	ZTTCV	±0.5%	±0.3%	-20 to +70	C16M000000S004	SMD 144-8145●	0.260	0.200	0.175	0.165	0.143

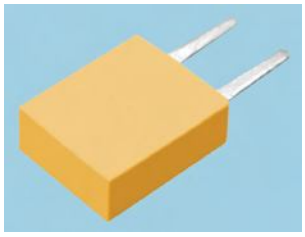
RL Re-reeling available

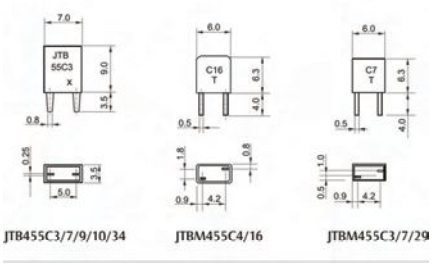
Frequency (MHz)	Series	Freq. Accuracy @25°C	Temp. Stability -20 to 80°C	Temp. Range °C	Mftrs. List No	Order Code	Price Each 1+	10+	100+	250+	500+
20	ZTTCW	±0.5%	±0.3%	-20 to +70	C20M000000S005	SMD 144-8147●	0.260	0.200	0.175	0.165	0.143
25	ZTTCW	±0.5%	±0.3%	-20 to +70	C25M000000S001	SMD 144-8148●	0.260	0.200	0.175	0.165	0.143
30	ZTTCW	±0.5%	±0.3%	-20 to +70	C30M000000S001	SMD 144-8149●	0.260	0.200	0.175	0.165	0.143
40	ZTTCW	±0.5%	±0.3%	-20 to +70	C40M000000S002	SMD 144-8150●	0.260	0.200	0.175	0.165	0.143
48	ZTTCW	±0.5%	±0.3%	-20 to +70	C48M000000S002	SMD 144-8151●	0.260	0.200	0.175	0.165	0.143

Ceramic Discriminators - JTB Series

ROSON ROSON ELECTRONICS CO., LTD. GLORY IN ENTERPRISES LIMITED

New





524868

Mftrs. List No.	Demodulation 3dB Bandwidth (Min)	Demodulation Output (455KHz)	Distortion Factor (455KHz) (Max)	Impedance Characteristics Resonant Freq.	Antiresonant Freq.	ΔF (Fa-Fr)	Resonant Resistance (Max)	Capacitance	Order Code	Price Each 1+	10+	100+
JTB455C3	–	–	–	–	455 ± 2KHz	48 ± 5KHz	70Ω	600pf ± 20%	166-1626●	0.07	0.05	0.04
JTB455C7	± 4KHz	340 ± 60mV	2.5%	–	–	–	–	–	166-1635●	0.09	0.06	0.05
JTB455C9	± 5KHz	100mV Min	1.5%	–	–	–	–	–	166-1636●	0.12	0.08	0.07
JTB455C10	–	–	–	429 ± 2KHz	–	46KHz Min	70Ω	580pf ± 20%	166-1637●	0.12	0.08	0.07
JTB455C34	± 4KHz	65 ± 20mV	2.5%	–	–	–	–	–	166-1638●	0.09	0.06	0.05
JTB455C4	–	–	–	–	470 ± 1KHz	43 ± 2KHz	300Ω	140pf ± 20%	166-1639●	0.12	0.08	0.07
JTB455C16	± 4KHz	190 ± 50mV	2.0%	–	–	–	–	–	166-1640●	0.09	0.06	0.05
JTB455C18	± 3KHz	180 ± 40mV	2.0%	–	–	–	–	–	166-1641●	0.09	0.06	0.05
JTB455C29	± 4KHz	125 ± 30mV	2.5%	–	–	–	–	–	166-1642●	0.12	0.08	0.07
JTB455C28	± 4KHz	40 ± 20mV	30%	–	–	–	–	–	166-1643●	0.07	0.05	0.04

Delay Lines

DS1000 - 5 Tap Silicon Delay Line

MAXIM

A TTL/CMOS compatible series with 5 equally spaced taps providing precise delays from 4ns to 500ns, with nominal accuracy of ±5% or ±2ns. Reproduces the input logic state at the output after a fixed delay as specified by the part number, with equal precision at both leading and trailing edges.

210862

	Pins	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
20ns per tap, 100ns overall	8	DS1100Z-100+	SMD 972-3722●	3.77	2.51	1.86
0.25ns per tap, 73.75ns overall	16	DS1021S-25+	SMD 130-6314●	14.46	10.81	8.01
100ns per tap, 500ns overall	8	DS1000Z-500	SMD 117-365▲	4.22	3.06	2.26
10ns per tap, 50ns overall	8	DS1100Z-50+	NEW SMD 160-6596●	5.16	4.13	3.76

DS1021 - Programmable 8-bit Silicon Delay Line

MAXIM

A TTL/CMOS compatible series consisting of 8-bit user programmable CMOS integrated circuit. Delay values are programmed using either the 3-wire serial port or the 8-bit parallel port. The input logic state is reproduced at the output without inversion, after the user-determined delay.

210863

	Pins	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
0.5ns per tap,137.5ns overall	16	DS1021S-50+	SMD 125-7836●	14.13	10.81	8.01
9ns per tap,84ns overall	16	DS1045S-3+	SMD 137-9746●	22.40	16.29	11.35
	16	DS1023S-100+	SMD 137-9797●	11.71	8.13	6.15
	12	DS1804C	SMD 149-4702●	7.63	6.92	6.35

A/D and D/A Converters

A/D Converters

New

TEXAS INSTRUMENTS

499819

	Mftr.	Pins	Pkg	Linearity Error ± LSB	Features	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
12-Bit A/D												
6122	TI	32	QFN	1	12-bit ADC 65MSPS With DDR LVDS/CMOS O/P	ADS6122IRHBTG4	SMD 154-3739●	15.67	14.25	13.09	12.06	11.20
6123	TI	32	QFN	1	12-bit ADC 80MSPS With DDR LVDS/CMOS O/P	ADS6123IRHBTG4	SMD 154-3742●	21.55	19.60	17.95	16.58	15.39
6124	TI	32	QFN	1	12-bit ADC 105MSPS With DDR LVDS/CMOS O/P	ADS6124IRHBTG4	SMD 154-3744●	29.71	27.02	24.75	22.87	21.23
6125	TI	32	QFN	1	12-bit ADC 125MSPS With DDR LVDS/CMOS O/P	ADS6125IRHBTG4	SMD 154-3746●	35.93	32.65	29.96	27.62	25.66
14-Bit A/D												
850	TI	48	TQFP	0.75	14 Bit 10 MSPS ADC	ADS850Y/250	SMD 154-4008●	24.17	21.97	20.14	18.58	17.26

414034

	Mftr.	Pins	Pkg	Linearity Error ± LSB	Conversion Time ± ½ LSB, µs	Features	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
6-Bit A/D													
105	MAX	80	TQFP	0.25		Dual, 6-Bit, 800 MSPS ADC	MAX105ECS+	SMD 143-3183●	70.90	50.05	42.07	36.66	33.74
107	MAX	80	TQFP	0.25		Dual, 6-Bit, 400 MSPS ADC	MAX107ECS+	SMD 143-3184●	52.25	36.88	31.02	27.02	24.86
8-Bit A/D													
8	NSC	24	TSSOP			8Bit 10/60MSPS ADC	ADC08L060CIMT/NOPB	NEW SMD 167-3972●	8.45	6.03	4.40	3.64	3.26
8	NSC	24	TSSOP			8Bit 10/60MSPS ADC	ADC08060CIMT/NOPB	NEW SMD 167-3973●	4.81	3.43	2.50	2.07	1.85
08	NSC	128	LQFP	0.6		8 Bit ADC, Dual, 500MSPS	ADC08D500CIYB	SMD 128-6725●	138.31	– –	– –	– –	– –
81	NSC	6	TSOT-23			8Bit I2C I/O ADC with with Alert Pin	ADC081C021CIMK/NOPB	NEW SMD 167-4010●	2.40	1.71	1.25	1.03	0.93
81	NSC	6	TSOT-23			8Bit I2C I/O ADC with with Alert Pin	ADC081C027CIMK/NOPB	NEW SMD 167-4011●	2.40	1.71	1.25	1.03	0.93
081	NSC	6	SOT-23	0.4	5	Single Channel, 50 to 200 KSPS, 8-Bit A/D Converter	ADC081S021CIMF	SMD 125-0030●	1.62	1.31	1.07	1.01	0.94
081	NSC	6	SOT-23	0.4	2	Single Channel, 200 to 500 KSPS, 8-Bit A/D Converter	ADC081S051CIMF	SMD 125-0031●	1.89	1.61	1.32	1.24	1.16
81	NSC	6	LLP	0.03		Single Channel, 50 to 200 ksps, 8-Bit A/D Converter	ADC081S021CISD	SMD 131-2525●	0.80	0.74	0.69	0.65	0.61
81	NSC	6	LLP	0.045		Single Channel, 200 to 500 ksps, 8-Bit A/D Converter	ADC081S051CISD	SMD 131-2526●	0.98	0.91	0.85	0.79	0.74

RL Re-reeling available

A/D and D/A Converters - continued

	Mftr.	Pins	Pkg	Linearity Error ± LSB	Conversion Time ± ½ LSB, µs	Features	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
81	NSC	6	LLP	0.07		1Msps, 8-Bit A/D Converter	ADC081S101CISD	SMD 131-2527	1.53	1.41	1.19	1.09	0.92
082	NSC	8	MSOP	0.04	5	2 Channel, 200 KSPS, 8-Bit A/D Converter	ADC082S021CIMM	SMD 100-7978	1.93	1.47	1.20	– –	– –
082	NSC	8	MSOP	0.09	2	2 Channel, 500 KSPS, 8-Bit A/D Converter	ADC082S051CIMM	SMD 100-7979	2.57	1.97	1.61	– –	– –
84	NSC	10	MSOP			8Bit ADC 4 Channel 50 ksps to 200 Ksps	ADC084S021CIMM/NOPB	NEW SMD 167-3976	2.82	2.01	1.46	1.21	1.09
084	NSC	10	MSOP	0.09	2	4 Channel, 500 KSPS, 8-Bit A/D Converter	ADC084S051CIMM	SMD 100-7983	1.53	1.33	1.01	– –	– –
084	NSC	10	MSOP	0.1	1	4 Channel, 1 MSPS, 8-Bit A/D Converter	ADC084S101CIMM	SMD 100-7984	1.80	1.57	1.17	– –	– –
088	NSC	16	TSSOP	0.04	5	8-Channel, 50 KSPS to 200 KSPS, 8-Bit A/D Converter	ADC088S022CIMT	SMD 125-0037	1.31	1.14	0.93	– –	– –
088	NSC	16	TSSOP	0.05	2	8-Channel, 200 KSPS to 500 KSPS, 8-Bit A/D Converter	ADC088S052CIMT	SMD 125-0038	1.60	1.42	1.25	– –	– –
088	NSC	16	TSSOP	0.06		8 Bit ADC, 8 Channel, 0.5-1MSPS	ADC088S102CIMT	SMD 128-6724	2.39	1.81	1.39	– –	– –
200	NSC	48	TQFP	0.4		8 Bit ADC	ADC08B200CIVS	SMD 137-0034	27.55	21.96	18.32	15.62	14.23
510	MAX	16	WSOIC	1		Quad, Serial, 8-Bit DACs with Rail-to-Rail Outputs	MAX510BCWE+	SMD 137-9981	10.78	7.19	5.95	4.57	– –
518	MAX	8	NSOIC	1		2-Wire, Serial, 8-Bit DACs with Rail-to-Rail Outputs	MAX518BCSA+	SMD 137-9983	5.89	3.78	3.13	2.32	– –
540	TI	20	PDIP	0.5	9	8-Bit A-D Converter, 75 KSPS	TLC540IN	845-4337	3.52	2.40	1.79	– –	– –
541	TI	20	SOIC	0.5	17	8-Bit, 40 kSPS ADC Serial-Out, On-Chip 12-Ch. Analog Mux, 11 Ch.	TLC541IDW	SMD 145-9368	3.01	2.05	1.53	1.45	1.35
541	TI	20	PLCC	0.5	17	8-Bit, 40 KSPS ADC Serial-Out, On-Chip 12-Ch. AnaLog Mux, 11 Ch.	TLC541IFNG3	SMD 123-4925	2.08	1.57	1.27	1.23	1.20
541	TI	20	PDIP	1	17	8-Bit, 40 KSPS ADC Serial-Out, On-Chip 12-Ch. AnaLog Mux, 11 Ch.	TLC541INE4	123-4716	2.06	1.56	1.27	1.15	1.10
542	TI	20	SOIC	0.5	16	8-Bit, 25 KSPS ADC Serial-Out, On-Chip 12-Ch. AnaLog Mux, 11 Ch.	TLC542CDWG4	SMD 123-5032	2.08	1.56	1.28	1.18	1.12
542	TI	20	PDIP	0.5	20	8-Bit, 25 KSPS ADC Serial-Out, On-Chip 12-Ch. AnaLog Mux, 11 Ch.	TLC542INE4	123-4910	1.64	1.23	1.11	1.08	1.05
548	TI	8	SOIC	0.5	17	8-Bit, 45.5 kSPS ADC Serial Out, Low Power, Compatible to TLC540/545/1540, Single Ch.	TLC548CD	SMD 145-9376	2.40	1.64	1.22	1.16	1.08
548	TI	8	PDIP	0.5	17	8-Bit A-D Converter, 45.5 KSPS	TLC548CP	845-4345	1.67	1.42	1.20	– –	– –
549	TI	8	SOIC	0.5	17	8-Bit A-D Converter, 40 KSPS	TLC549CD	SMD 845-4353	1.63	1.28	0.98	– –	– –
549	TI	8	PDIP	0.5	17	8-Bit A-D Converter, 40 KSPS	TLC549CP	845-4361	1.80	1.44	1.04	– –	– –
549	TI	8	SOIC	0.5	17	8 Bit ADC With Serial Control	TLC549IDG4	SMD 123-4665	1.47	1.11	0.88	0.85	0.83
549	TI	8	DIP	0.5	17	C, S, S/A	TLC549IP	110-6008	2.11	1.44	1.07	– –	– –
571	TI	24	SOIC	0.5		8-Bit A-D Converter	TLV571IDW	SMD 845-5864	4.50	3.21	2.39	– –	– –
757	ADI	18	PDIP	0.75	15	MC, P, C, S/A	AD7574JNZ	143-8533	12.46	9.55	8.10	– –	– –
803	NSC	20	DIP	0.5	100	C, MC, P, S/A	ADC0803LCN	948-6577	3.82	3.22	2.96	2.85	2.62
804	NSC	20	DIP	1	100	C, MC, P, S/A	ADC0804LCN	948-6593	2.61	1.54	1.23	1.06	0.94
804	NSC	20	SOIC	1	100	C, MC, P, S/A	ADC0804LCWM	SMD 948-6585	2.20	1.81	1.65	1.61	1.51
808	NSC	16	MDIP			8-Bit D/A Converter	DAC0808LCN/NOPB	NEW 156-4695	1.15	0.95	0.79	0.71	0.63
808	NSC	28	PLCC			8Bit ADC with 8-Channel Multiplexer	ADC0808CCV/NOPB	NEW SMD 167-3957	7.03	5.02	3.66	3.03	2.71
808	NSC	28	DIP	0.5	100	8-Channel, MC, P, S/A	ADC0808CCN	948-6674	5.64	4.61	4.24	4.14	3.86
809	NSC	28	DIP	1	100	8-Channel, MC, P, S/A	ADC0809CCN	948-6682	3.69	3.01	2.77	2.70	2.52
816	NSC	40	DIL	0.5	100	8-Bit µP Compatible A/D Converter with 16-Channel Multiplexer I/P	ADC0816CCN/NOPB	NEW 156-4674	15.23	12.58	10.45	9.53	8.37
817	NSC	40	DIP	1	100	16-Channel, MC, P, S/A	ADC0817CCN	948-6690	11.35	7.69	6.29	5.93	5.50
820	NSC	20	SOIC			8Bit High Speed ADC with Track/Hold	ADC0820BCWM/NOPB	NEW SMD 167-3974	6.93	4.96	3.61	2.99	2.67
820	NSC	20	DIP			8Bit Serial I/O ADC	ADC0820CCN/NOPB	NEW 167-3948	4.74	3.39	2.47	2.05	1.83
820	NSC	20	WSOIC	1	1.5	8Bit High Speed Microp. Compatible A/D Converter with Track/Hold Function	ADC0820CCWM/NOPB	NEW SMD 156-4768	3.10	2.56	2.14	1.93	1.70
820	TI	20	PDIP	1	2.5	8-Bit A-D Converter, 392 KSPS	TLC0820ACN	845-3691	3.55	2.60	1.93	– –	– –
820	TI	20	SOIC	1	2.5	8-Bit, 392 KSPS ADC Parallel Out, Microprocessor Peripheral, On-Chip Track-And-Hold, 8 Channels	TLC0820AIDWG4	SMD 123-4970	2.84	2.15	1.76	1.60	1.53
831	NSC	8	DIP			8Bit Serial I/O ADC	ADC0831CCN/NOPB	NEW 167-3947	3.29	2.35	1.71	1.42	1.27
831	BB	20	SOIC	2	100	C, P, R, T/H	ADS831E	SMD 332-3626	2.25	1.86	1.58	– –	– –
831	TI	20	SOIC	2	100	C, P, R, T/H	ADS831EG4	SMD 121-4357	5.62	3.83	3.09	2.97	2.77
831	TI	8	SOIC	0.4	32	8-Bit, 31 KSPS ADC SERIAL OUT, MICROPROCESSOR PERIPHERAL/STANDALONE, Single CHANNELS	TLC0831CDG4	SMD 123-4947	1.35	1.02	0.93	0.91	0.88
831	TI	8	PDIP	0.4	32	8-Bit A-D Converter, 31KSPS	TLC0831CP	845-3721	2.42	1.86	1.45	– –	– –
832	TI	8	SOIC	0.4	32	8-Bit, 22 KSPS ADC Serial Out, Uprocessor Periph./Standalone, Mux Option W/Se Or Differential, 2 Ch.	TLC0832CDG4	SMD 123-4828	1.94	1.47	1.17	1.14	1.11
832	TI	8	PDIP	0.4	32	8-Bit, 22 KSPS ADC Serial Out, Uprocessor Periph./Standalone, Mux Option W/Se Or Differential, 2 Ch.	TLC0832CPE4	128-7645	1.68	1.45	1.17	1.13	1.10
832	TI	8	SOIC	0.4	32	8-Bit, 22 KSPS ADC Serial Out, Uprocessor Periph./Standalone, Mux Option W/Se Or Differential, 2 Ch.	TLC0832IDG4	SMD 123-4949	1.54	1.16	0.98	0.96	0.93
834	NSC	14	SOIC			8Bit Serial I/O ADC	ADC0834CCWM/NOPB	NEW SMD 167-3949	3.53	2.52	1.84	1.52	1.36
834	NSC	14	DIP			8Bit Serial I/O ADC	ADC0834BCN/NOPB	NEW 167-3950	4.03	2.88	2.10	1.74	1.55
838	NSC	20	SOIC			8Bit Serial I/O ADC with Multiplexer Option	ADC0838CCWM/NOPB	NEW SMD 167-3975	3.38	2.41	1.76	1.46	1.30
838	TI	20	SOIC	0.4	32	8-Bit, 20 kSPS ADC Serial Out, uProcessor Periph./Standalone, Rem. Op w/Ser. Data Link, Mux option	TLC0838IDW	SMD 145-9331	2.09	1.64	1.34	1.22	1.17
838	NSC	20	DIP	1	32	8-Channel, MC, S, S/A	ADC0838CCN	948-6615	2.99	2.26	1.78	1.74	1.63
838	TI	20	SOIC	0.4	32	8-Bit, 20 KSPS ADC Serial Out, Uprocessor Periph./Standalone, Rem. Op W/Ser. Data Link, Mux Option	TLC0838CDWG4	SMD 123-4887	2.02	1.53	1.25	1.14	1.09
844	NSC	20	DIP	1	40	4-Channel, C, MC, P, S/A	ADC0844CCN	948-6623	4.59	2.92	2.44	2.23	2.13
848	NSC	24	DIP	1	40	8-Channel, C, MC, P, S/A	ADC0848CCN	948-6631	5.08	4.15	3.82	– –	– –
848	NSC	28	PLCC	1	40	8-Channel, C, MC, P, S/A	ADC0848CCV	SMD 949-4308	6.72	4.55	3.72	– –	– –
931	TI	28	SSOP			8Bits ADC 30MSPS	ADS931E..	NEW SMD 164-8611	3.36	2.68	2.23	2.02	1.97
1038	MAX	16	QSOP	1	5.3	12 Channel 2 Wire Serial 8-Bit ADCs	MAX1038AEEE+	SMD 142-2279	3.15	2.49	2.19	2.01	1.79
1039	MAX	16	QSOP		6.1	2.7V to 5.5V, Low-Power, 4-/12-Channel 2-Wire Serial 8-Bit ADCs	MAX1039AEEE+	SMD 137-9845	4.23	3.00	2.52	2.12	– –
1044	MAX	8	NSOIC			Switched Capacitor Voltage Converters	MAX1044CSA+	SMD 137-9846	2.72	1.93	1.63	1.37	– –
1096	LT	8	SOIC	0.5	0.6	ADC, 8-Bit	LTC1096CS8#PBF	SMD 133-0787	5.20	2.98	2.23	2.16	2.12
1098	LT	8	SOIC	0.5	0.71	ADC, 8-Bit	LTC1098CS8#PBF	SMD 133-0788	3.36	2.00	1.90	1.85	1.80
1098	LT	8	SOIC	0.5	0.71	ADC, 8-Bit	LTC1098LCS8#PBF	SMD 133-0789	5.36	4.23	3.46	3.02	2.69
1099	LT	20	DIP	1	1.4	ADC, 8-Bit	LTC1099CN#PBF	133-0790	14.05	7.97	6.35	6.17	6.02
1111	MAX	16	QSOP	1	55	(4 channel), C, R, S/A, T/H	MAX1111CEE+	SMD 972-5237	3.60	3.16	2.82	– –	– –
1112	MAX	20	SSOP		25	+5V, Low-Power, Multichannel, Serial 8-Bit ADCs	MAX1112EAP+	SMD 137-9848	5.00	3.54	2.98	2.50	– –
1112	MAX	20	SSOP	1	55	8-Channel, C, R, S/A, T/H	MAX1112CAP+	SMD 118-7989	5.39	4.41	3.54	– –	– –
1173	NSC	24	TSSOP	0.8	0.018	R, S/H	ADC1173CIMTC	SMD 977-8179	3.66	2.58	2.10	– –	– –
1196	LT	8	SOIC	0.5	16	ADC, 8-Bit	LTC1196-2ACS8#PBF	SMD 133-0793	3.31	2.62	2.13	1.85	1.80
1196	LT	8	SOIC	0.5	16	ADC, 8-Bit	LTC1196-2BCS8#PBF	SMD 133-0794	4.54	2.56	1.92	1.84	1.80
1197	MAX	48	TQFP	0.3		Dual 8-Bit 60Msps 3.0V ADC	MAX1197ECM+D	SMD 143-3194	14.73	10.45	8.78	7.41	7.04
1198	LT	8	SOIC	0.5	16	ADC, 8-Bit	LTC1198-2BCS8#PBF	SMD 133-0798	4.97	2.82	2.31	2.05	2.01
1198	MAX	48	TQFP	1		Duel, 8-Bit, Low Power ADC	MAX1198ECM+D	SMD 143-3195	22.81	16.10	13.54	11.79	10.86
1198	MAX	48	TQFP	1		Duel, 8-Bit, Low Power ADC	MAX1198ECM+D	SMD 143-3195	22.81	16.10	13.54	11.79	10.86
1406	LT	24	SSOP	0.5		ADC, 8-Bit	LTC1406CGN#PBF	SMD 133-0833	5.80	4.59	3.73	3.29	2.93
5535	TI	28	TSSOP	0.7		8-Bit, 35 MSPS, Low Power ADC	TLV5535IPW	NEW SMD 156-0651	4.44	3.88	2.83	2.59	2.18
5540	TI	24	SOIC	1	40	C, L, P, R, S/H	TLC5540INS	SMD 110-2961	4.90	4.20	3.45	– –	– –
5540	TI	24	SOIC	1	40	C, L, P, R, S/H	TLC5540INS.	SMD 334-9779	2.82	2.42	1.98	– –	– –
7116	MCHIP	40	DIP			ADC,3-1/2 DIGIT W/ HOLD	TC7116CPL	129-2290	3.11	2.26	1.94	– –	– –
7135	TI	28	TSSOP	0.5		4.5-Bits, 0.003 KSPS ADC, Muxed BCD Output, True Differential Input, 1 Ch.	TLC7135CDW	SMD 128-7650	2.52	1.78	1.34	1.28	1.24
7278	ADI	8	MSOP	1	291	3 MSPS,8-Bit ADC	AD7278BRMZ	SMD 111-7900	2.55	2.13	1.92	1.81	1.76
7478	ADI	8	MSOP	0.3	600	MC, S/A, T/H	AD7478AARMZ	SMD 942-6353	2.27	1.54	1.15	– –	– –
7478	NSC	6	SOT-23	0.5	1	C, S/A, T/H	ADCS7478AIMF	SMD 977-9736	2.59	2.13	1.74	– –	– –

RL Re-reeling available

	Mftr.	Pins	Pkg	Linearity Error ± LSB	Conversion Time ± ½ LSB, µs	Features	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
7575	ADI	18	DIP	1	5	C, P, S/A, S/H	AD7575JNZ	107-9349	8.50	6.21	5.29	– –	– –
7813	ADI	16	DIP	1	2.3	C, P, R, S/A, T/H	AD7813YNZ	107-9302	6.70	4.54	3.11	– –	– –
7819	ADI	16	DIP	1	4.5	C, P, R, S/A, T/H	AD7819YNZ	107-9303	5.12	3.49	2.81	– –	– –
7820	ADI	20	DIP	1	1.6	C, P, S/H	AD7820KNZ	107-9350	14.23	10.51	7.73	– –	– –
7821	ADI	20	PDIP	1	0.66	1 MSPS, P, MC, T/H	AD7821KNZ	143-8546	13.93	10.69	9.07	– –	– –
7822	ADI	20	DIP	0.75	0.42	3V/5V Flash C, P, R, T/H	AD7822BNZ	107-9304	6.20	4.93	3.67	– –	– –
7823	ADI	8	DIP	0.5	4.5	S, S/A, T/H	AD7823YNZ	158-1912	4.05	3.23	2.45	– –	– –
7824	ADI	24	DIP	1	2	4-Channel, C, P, S/H	AD7824KNZ	107-9351	13.17	9.83	7.33	– –	– –
7825	ADI	24	DIP	0.75	0.42	4-Channel, 3V/5V Flash C, P, R, T/H	AD7825BNZ	107-9305	9.20	6.18	3.73	– –	– –
7828	ADI	28	DIP	1	2	8-Channel, C, P, S/H	AD7828KNZ	107-9352	15.27	11.37	9.31	– –	– –
7829	ADI	28	SOIC	0.75	0.42	8-Ch, 2 MSPS, P, R, MC, T/H	AD7829BRWZ-1	SMD 149-8673	8.06	5.82	4.62	– –	– –
7830	TI	16	TSSOP	0.1	5	8 Bit AnaLog to Digital Converter	ADS7830IPWTG4	SMD 118-0129	2.31	2.04	1.83	1.67	1.53
7868	TI	6	SOT-23	1.5		8-Bit ADC 200 KSPS	ADS7868IDBVTG4	SMD 132-9579	1.34	1.18	1.07	0.95	0.89
7904	ADI	16	TSSOP	0.2	800	4-Channel, MS, S/A, T/H	AD7904BRUZ	SMD 158-1904	2.94	2.19	1.63	– –	– –
7908	ADI	20	TSSOP	0.2	0.8	4-Channel, MS, S/A, T/H	AD7908BRUZ	SMD 158-1943	3.60	2.61	1.95	– –	– –
7958	TI	30	TSSOP			8bit 1MSPS 4 Channel Single Ended ADC	ADS7958SDBT	NEW SMD 164-5395	2.20	1.72	1.28	1.19	1.10
7959	TI	30	TSSOP			8bit 1MSPS 8 Channel Single Ended ADC	ADS7959SDBT	NEW SMD 164-5398	2.91	2.27	1.69	1.56	1.46
7960	TI	38	TSSOP			8bit 1MSPS 12 Channel Single Ended ADC	ADS7960SDBT	NEW SMD 164-5401	3.60	2.81	2.10	1.94	1.81
7961	TI	38	TSSOP			8bit 1MSPS 16 Channel Single Ended ADC	ADS7961SDBT	NEW SMD 164-5404	4.24	3.30	2.47	2.29	2.12
7999	ADI	8	SOT-23	0.5	1	8Bit ADC 4 Channel with I2C-Compatible Interface	AD7999YRJZ-1500RL7	NEW SMD 160-7238	2.54	2.04	1.86	1.70	1.46
8100	NSC	24	TSSOP	0.4		A/D Converter, 8-Bit, 20 MSPS to 100 MSPS, 1.3 mW/MSPS	ADC08100CIMTC	SMD 818-0679	6.43	5.30	4.52	– –	– –
8200	NSC	24	TSSOP	0.4		A/D Converter, 8-Bit, 20 MSPS to 200 MSPS, 1.05 mW/MSPS	ADC08200CIMT	SMD 820-6805	7.80	6.58	5.66	– –	– –
8591	NXP	16	DIP-16	1.5	90	ADC & DAC	PCF8591P	396-412	3.56	2.59	1.96	1.94	– –
8831	NSC	8	SOIC			8Bit Serial I/O CMOS ADC with Multiplexer and S/H	ADC08831IM/NOPB	NEW SMD 167-3977	2.40	1.71	1.26	1.04	0.93
9280	ADI	28	SSOP	0.5	0.03	C, R, S/H	AD9280ARSZ	SMD 960-3727	4.59	3.13	2.33	– –	– –
9281	ADI	28	SOIC	0.1	0.031	2-Channel, C, R, S/H	AD9281ARSZ	SMD 158-1894	6.15	4.35	3.51	– –	– –
9288	ADI	48	LQFP	0.5		Dual 100 MSPS, P, T/H, C	AD9288BSTZ-100	SMD 143-8563	16.59	13.28	11.80	– –	– –
9480	ADI	44	TQFP	0.26	0.004	250MSPS, C, P, R, T/H	AD9480ASUZ-250	SMD 107-8245	29.48	24.67	20.67	– –	– –
9480	ADI	44	TQFP	0.5		3.3V, R, T/H	AD9480BSUZ-250	SMD 839-8283	54.66	44.71	37.84	– –	– –
9481	ADI	44	TQFP	0.26	0.004	250MSPS, C, P, R, T/H	AD9481BSUZ-250	SMD 107-8244	29.48	24.67	20.67	– –	– –
9704	ADI	32	LFCSP	0.08		8 Bit ,175 MSPS TxDAC® D/A Converters	AD9704BCPZ	SMD 130-6147	3.74	2.65	2.14	1.98	1.93
9708	ADI	28	SOIC			8Bit 100MSPS A/D Converter	AD9708ARZ	NEW SMD 165-1258	5.50	4.27	3.50	3.20	3.07
83000	NSC	128	LQFP	0.2		8-Bit 3 GSPS A/D Converter from the PowerWise® Family	ADC083000CIYB	SMD 147-1251	570.32	528.40	513.14	499.63	486.82

Key to Features: C = CMOS, D/B = Double-Buffered, L = Latches, M = Multiplying, MC = Microprocessor Compatible, MP = Micropower, P = Parallel O/P, R = Internal Reference, R2R = Rail-to-Rail output, S = Serial O/P, S/A = Successive Approximation, S/H = Sample and Hold, T = Temp. Sensor, T/H = Track and Hold, V = Voltage O/P

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	Mftr.	Pins	Pkg	Linearity Error ± LSB	Conversion Time ± ½ LSB, µs	Features	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
10-Bit A/D													
10	NSC	64	TQFP			10 Bit ADC,65 MSPS, 3.3V	ADC10DL065CIVS	SMD 128-6727	9.54	8.25	6.52	5.96	5.81
101	NSC	6	TSOT-23			10Bit I2C I/O ADC with with Alert Pin	ADC101C021CIMK/NOPB	NEW SMD 167-4012	2.82	2.01	1.46	1.21	1.09
101	NSC	6	TSOT-23			10Bit I2C I/O ADC with with Alert Pin	ADC101C027CIMK/NOPB	NEW SMD 167-4013	2.82	2.01	1.46	1.21	1.09
101	NSC	6	SOT-23	1	5	Single Channel, 50 to 200 KSPS, 10-Bit A/D Converter.	ADC101S021CIMF	SMD 125-0028	2.16	1.58	1.29	1.22	1.12
101	NSC	6	SOT-23	1	2	Single Channel, 200 to 500 KSPS, 10-Bit A/D Converter	ADC101S051CIMF	SMD 125-0029	1.35	1.03	0.86	– –	– –
101	NSC	6	SOT-23	0.3	1	1MSPS, 10-Bit A/D Converter in SOT-23	ADC101S101CIMF	SMD 100-7985	1.94	1.47	1.13	– –	– –
101	NSC	6	LLP	0.16		Single Channel, 50 to 200 ksps, 10-Bit A/D Converter	ADC101S021CISD	SMD 131-2528	1.30	1.20	1.01	0.93	0.77
101	NSC	6	LLP	0.15		Single Channel, 200 to 500 ksps, 10-Bit A/D Converter	ADC101S051CISD	SMD 131-2529	1.57	1.44	1.22	1.11	0.94
101	NSC	6	LLP	0.3		1Msps, 10-Bit A/D Converter	ADC101S101CISD	SMD 131-2530	1.96	1.79	1.54	1.40	1.17
102	NSC	8	MSOP	0.26	1	2 Channel, 1 MSPS, 10-Bit A/D Converter	ADC102S101CIMM	SMD 100-7988	3.50	2.54	1.94	– –	– –
104	NSC	10	MSOP	0.13	5	4 Channel 200 KSPS, 10-Bit A/D Converter	ADC104S021CIMM	SMD 100-7989	3.51	2.38	1.94	– –	– –
108	NSC	16	TSSOP	0.1	5	8-Channel, 50 KSPS to 200 KSPS, 10-Bit A/D Converter	ADC108S022CIMT	SMD 125-0034	3.61	2.96	2.31	– –	– –
108	NSC	16	TSSOP	0.1	2	8-Channel, 200 KSPS to 500 KSPS, 10-Bit A/D Converter	ADC108S052CIMT	SMD 125-0035	5.06	3.67	2.90	– –	– –
108	NSC	16	TSSOP			10 Bit ADC, 8 Channel, 0.5-1MSPS	ADC108S102CIMT	SMD 128-6726	2.92	2.50	2.18	2.14	2.09
440	ADI	8	MSOP	0.5	0.888	1 MSPS, S, S/A, T/H	AD7440BRMZ	SMD 143-8841	3.81	2.86	2.45	– –	– –
504	MAX	14	SOIC		25	5V, Low-Power, Voltage-Output, Serial, 10-Bit ADC	MAX504CSD+	SMD 137-9980	7.67	4.93	4.09	3.03	– –
515	MAX	8	SOIC	1		5V, Low-Power, Voltage-Output, Serial, 10-Bit DACs	MAX515ESA+	SMD 137-9982	7.36	5.18	4.38	3.67	– –
820	TI	28	SOIC	1	0.05–	C, R, T/H	ADS820UG4	SMD 121-4452	9.85	7.87	6.42	– –	– –
822	TI	28	SSOP	2		10-Bit, 40 MSPS ADC SE/DIFF InputS, INT/EXT ReferenceS W/PowerDOWN, PIN COMPATIBLE TO ADS823/6/8	ADS822EG4	SMD 123-4930	8.05	6.12	5.00	4.57	4.34
828	TI	28	SSOP			10Bits ADC 75MSPS	ADS828E.	NEW SMD 164-8609	12.34	10.60	8.84	7.99	7.78
1090	LT	20	DIP	0.5	22	ADC, 10-Bit	LTC1090CN#PBF	133-0784	14.21	8.37	7.34	7.15	6.97
1091	LT	8	DIP			2 Channel, 10Bit Serial I/O ADC	LTC1091CN8#PBF	NEW 166-3596	16.02	12.42	9.93	8.27	7.41
1093	LT	16	DIP	1	20	ADC, 10-Bit	LTC1093CN#PBF	133-0785	16.52	9.37	7.62	7.25	7.09
1094	LT	20	DIP	1	20	ADC, 10-Bit	LTC1094CN#PBF	133-0786	16.52	9.37	7.62	7.25	7.09
1197	LT	8	MSOP	1	1.4	ADC, 10-Bit	LTC1197CMS8#PBF	SMD 133-0795	3.53	3.06	2.70	2.42	2.18
1197	LT	8	MSOP	1	1.4	ADC, 10-Bit	LTC1197LCMS8#PBF	SMD 133-0796	4.92	3.89	3.17	2.78	2.46
1197	LT	8	SOIC	1	1.4	ADC, 10-Bit	LTC1197LCS8#PBF	SMD 133-0797	4.60	2.61	2.00	1.93	1.89
1199	LT	8	SOIC	1	1.4	ADC, 10-Bit	LTC1199CS8#PBF	SMD 133-0800	3.97	2.16	1.78	1.74	1.69
1199	LT	8	MSOP	1	1.4	ADC, 10-Bit	LTC1199LCMS8#PBF	SMD 133-0801	3.31	2.62	2.43	2.37	2.30
1199	LT	8	SOIC	1	1.4	ADC, 10-Bit	LTC1199LCS8#PBF	SMD 133-0802	4.36	3.44	2.82	2.46	2.18
1243	MAX	8	SOIC	1	7.5	R, S, S/A, T/H	MAX1243BCSA+	SMD 118-7991	4.54	3.60	2.99	– –	– –
1444	MAX	32	TQFP	0.6		10Bit 40Msps CMOS ADC Differential I/P	MAX1444EHJ+	NEW SMD 160-9584	8.03	7.23	6.58	6.03	5.16
1446	MAX	32	TQFP	0.6		10Bit 60Msps CMOS ADC Differential I/P	MAX1446EHJ+	NEW SMD 160-9583	10.70	8.56	7.78	7.14	6.12
1504	TI	16	SOIC	0.5	3.86	10-Bit A-D Converter, 200KSPS	TLV1504ID	SMD 845-4892	3.21	2.64	2.23	– –	– –
1541	TI	20	DIP	1	21	11-Channel, C, MC, S, S/A	TLC1541IN	110-6009	6.51	4.43	3.58	– –	– –
1543	TI	20	SOIC	1	21	10 Bit ADC, 38 KSPC, 11 Channels	TLC1543CDWG4	SMD 123-4645	2.64	2.01	1.58	1.54	1.50
1543	TI	20	PDIP	1	21	10-Bit A-D Converter, 38KSPS	TLC1543CN	845-3756	3.81	2.60	1.93	– –	– –
1543	TI	20	PDIP	1	21	10-Bit, 38 KSPS ADC SERIAL OUT, ON-CHIP SYSTEM CLOCK, 11 CH.	TLC1543INE4	123-4971	2.09	1.59	1.56	1.52	1.48
1543	TI	20	SOIC	1	21	10-Bit 200 KSPS ADC SER. OUT, BUILT-IN SELF-TEST MODES, INHERENT S&H, PIN COMPAT. W/TLC1543, 11 CH.	TLV1543CDWG4	SMD 123-4832	2.99	2.27	1.84	1.69	1.59
1549	TI	8	SOIC	1	21	10-Bit A-D Converter, 38KSPS	TLC1549CD	SMD 845-3764	3.46	2.46	1.83	– –	– –
1549	TI	8	PDIP	1	21–	10-Bit A-D Converter, 38KSPS	TLC1549CP	845-3772	3.39	2.60	1.93	– –	– –
1549	TI	8	PDIP	1	21	10-Bit, 38 KSPS ADC SERIAL OUT, ON-CHIP SYSTEM CLOCK, Single CH.	TLC1549IPE4	123-4979	3.15	2.39	1.96	1.78	1.71
1850	LT	48	TSSOP	1	4.8	ADC, 10-Bit	LTC1850CFW#PBF	SMD 133-0877	11.46	6.48	5.00	4.61	4.29
1852	LT	48	TSSOP	1	7	ADC, 10-Bit	LTC1852CFW#PBF	SMD 133-0879	10.78	7.00	6.12	5.64	5.24
3008	MCHIP					8-Channel 10-Bit ADC	MCP3008-I/P	NEW 162-7174	2.07	1.57	1.23	– –	– –
3008	MCHIP	16	SOIC		230	10 Bit ADC, 8 CH, SPI	MCP3008-I/SL	SMD 129-2241	1.96	1.09	0.95	– –	– –
3021	MCHIP	5	SOT-23A	1	45.4	10-Bit ADC, I2C, 1Ch	MCP3021A5T-E/OT	SMD 133-2097	0.95	0.79	0.54	– –	– –
5120	TI	257	BGA Microstar	1		8 channel, 10 Bit, 40MSPS ADC, 1.8V	ADS5120CGHK	SMD 145-9256	43.14	37.26	34.15	31.45	29.88
5767	INTS	28	TSSOP	0.75	60	C, R	HI5767/6CB	SMD 302-5524▲	15.85	11.62	9.32	– –	– –
5767	INTS	28	TSSOP	0.75	60	C, R	HI5767/6CBZ	SMD 966-3487	13.58	12.22	10.19	– –	– –
7273	ADI	8	MSOP	0.5	250	3 MSPS 10-Bit ADC.	AD7273BRMZ	SMD 111-7904	4.16	4.05	3.94	3.84	3.74
7277	ADI	10	MSOP	1.5	291	3 MSPS,10-Bit ADC.	AD7277BRMZ	SMD 111-7901	4.96	4.12	3.72	3.47	3.25

RL Re-reeling available

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A/D and D/A Converters - continued

	Mftr.	Pins	Pkg	Linearity Error ± LSB	Conversion Time ± ½ LSB, µs	Features	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
10-Bit A/D													
7470	ADI	24	TSSOP	0.9	1.75	MC, P, S/A, T/H	AD7470ARUZ	SMD 942-5985●	6.33	4.34	3.50	– –	– –
7477	NSC	6	SOT-23	0.5	1	1MSPS, C, S/A, T/H	ADCS7477AIMF	SMD 977-9728●	2.92	2.41	1.88	– –	– –
7579	ADI	24	DIP	1	18.5	C, MC, P, S/A, S/H	AD7579JNZ	107-9354●	17.64	13.46	11.52	– –	– –
7811	ADI	16	DIP	1	2.3	4-Channel, C, R, S/A, T/H	AD7811YNZ	107-9299●	7.63	5.17	3.53	– –	– –
7812	ADI	20	DIP	1	2.3–	8-Channel, C, R, S/A, T/H	AD7812YNZ	107-9301●	8.70	5.88	4.03	– –	– –
7817	ADI	16	SOIC	2	9–	4-Channel, C, R, S/A, T, T/H	AD7817ARZ	SMD 942-5683●	7.43	5.10	4.12	– –	– –
7867	TI	6	SOT-23	1.5		10 Bit ADC 200 KSPS	ADS7867IDBVTG4	SMD 132-9578●	2.31	2.04	1.83	1.67	1.53
7911	ADI	8	MSOP	0.5	2.8–	2-Channel, 250KSPS, S/A, T/H	AD7911ARMZ	SMD 839-7686●	4.05	3.25	2.42	– –	– –
7912	ADI	8	MSOP	0.5	1	2-Channel, 1MSPS, MC, S, S/A	AD7912ARMZ	SMD 107-8325●	3.79	3.16	2.71	– –	– –
7933	ADI	28	TSSOP	1	0.666	4-Channel, 1.5MSPS, MC, P, R, S/A, T/H	AD7933BRUZ	SMD 107-8322●	7.37	5.06	4.09	– –	– –
7939	ADI	32	TQFP	1	0.666	8-Channel, 1.5MSPS, MC, P, R, S/A, T/H	AD7939BSUZ	SMD 107-8314●	6.15	5.14	4.32	– –	– –
7993	ADI	16	TSSOP	0.5	2	4-Channel, S, S/A, T/H	AD7993BRUZ-0	SMD 107-8309●	4.47	3.07	2.29	– –	– –
7993	ADI	16	TSSOP	0.5	2–	4-Channel, S, S/A, T/H	AD7993BRUZ-1	SMD 107-8310●	2.73	2.28	1.95	– –	– –
7995	ADI	8	SOT-23	0.5	1–	10Bit ADC 4 Channel with I2C-Compatible Interface	AD7995YRJZ-0500RL7	NEW SMD 160-7237●	3.70	2.97	2.69	2.47	2.13
7997	ADI	20	TSSOP	0.5	2–	8-Channel, S, S/A, T/H	AD7997BRUZ-0	SMD 107-8304●	2.87	2.39	2.06	– –	– –
7997	ADI	20	TSSOP	0.5	2–	8-Channel, S, S/A, T/H	AD7997BRUZ-1	SMD 107-8305●	3.09	2.57	2.21	– –	– –
9201	ADI	28	SOIC	0.4	0.05–	2-Channel, C, R, S/H	AD9201ARSZ	SMD 107-9291●	8.76	6.72	5.70	– –	– –
9212	ADI	64	LFCSP	0.3		Octal, 10-Bit, 40/65 MSPS Serial LVDS 1.8 V A/D Converter	AD9212BCPZ-40	SMD 131-6447●	25.61	21.43	19.52	19.01	18.52
9215	ADI	32	LFCSP	0.25	12.5	3V, 80MSPS, S/H	AD9215BCPZ-80	SMD 839-8160●	16.07	12.39	10.01	– –	– –
9215	ADI	28	TSSOP	0.25		3V, 105MSPS, S/H	AD9215BRUZ-105	SMD 158-1961●	10.36	8.26	6.99	– –	– –
9215	ADI	28	TSSOP	0.25		3V, 65MSPS, S/H	AD9215BRUZ-65	SMD 158-1962●	7.51	6.28	5.38	– –	– –
9215	ADI	28	TSSOP	0.25		3V, 80MSPS, S/H	AD9215BRUZ-80	SMD 158-1963●	10.70	8.44	7.22	– –	– –
9216	ADI	64	LFCSP	0.5	0.00952	2-Channel, 105MSPS, P, R, S/H	AD9216BCPZ-105	SMD 107-8256●	27.79	22.00	17.60	– –	– –
9216	ADI	64	LFCSP	0.5	0.01538	2-Channel, 65MSPS, P, R, S/H	AD9216BCPZ-65	SMD 107-8257●	13.26	10.17	8.62	– –	– –
9218	ADI	48	LQFP	0.3		Dual 40 MSPS, T/H, R, P	AD9218BSTZ-40	SMD 143-8557●	12.28	10.29	8.81	– –	– –
9218	ADI	48	LQFP	1		Dual 65 MSPS, T/H, R, P	AD9218BSTZ-65	SMD 143-8558●	17.56	14.06	12.49	– –	– –
9705	ADI	32	LFCSP	0.08		10 Bit ,175 MSPS TxDAC® D/A Converters	AD9705BCPZ	SMD 130-6148●	6.43	5.16	4.90	4.72	4.40
10040	NSC	28	TSSOP	0.3	–	3V, 40MSPS, C, S/H	ADC10040CIMT.	SMD 757-6870	3.71	2.83	2.32	– –	– –
10065	NSC	28	TSSOP	0.3		3V, 65MSPS, C, S/H	ADC10065CIMT.	SMD 757-6862	3.30	2.58	2.58	– –	– –
10080	NSC	28	TSSOP	0.25		3V, 80MSPS, C, S/H	ADC10080CIMT.	NEW SMD 757-6854	1.56	– –	– –	– –	– –
10154	NSC	24	SOIC			10Bit Plus Sign 4 microseconds ADC with 4 Channel	ADC10154CIWM/NOPB	NEW SMD 167-3978●	7.83	5.60	4.08	3.37	3.02
10158	NSC	28	DIP			10Bit Plus Sign 216 kHz 8 Channel	ADC10158CIN/NOPB	167-3952●	7.83	5.60	4.08	3.37	3.02
10158	NSC	28	DIP			10Bit Plus Sign 216 kHz 8 Channel	ADC10158CIN/NOPB	NEW 167-3952●	7.83	5.60	4.08	3.37	3.02
10664	NSC	28	SOIC			10Bit 360 ns ADC with Input Multiplexer	ADC10664CIWM/NOPB	NEW SMD 167-3979●	7.32	5.23	3.82	3.15	2.82
12048	NSC	44	QFP			10Bit ADC with Programmable 4 or 8 Channel Multiplexer	ADC12048CIVF/NOPB	NEW SMD 167-3951●	14.50	10.36	7.55	6.25	5.58
19515	MAX	48	TQFN			Dual-Channel, 10-Bit, 65Msps ADC	MAX19515ETM+	NEW SMD 167-3085●	12.75	9.92	8.11	7.44	6.45
19516	MAX	48	TQFN			Dual-Channel, 10-Bit, 100Msps ADC	MAX19516ETM+	NEW SMD 167-3090●	19.13	14.88	12.18	11.15	9.68
19517	MAX	48	TQFN			Dual-Channel, 10-Bit, 130Msps ADC	MAX19517ETM+	NEW SMD 167-3082●	28.75	22.36	18.29	16.77	14.54

Key to Features: C = CMOS, D/B = Double-Buffered, L = Latches, M = Multiplying, MC = Microprocessor Compatible, MP = Micropower, P = Parallel O/P, R = Internal Reference, R2R = Rail-to-Rail output, S = Serial O/P, S/A = Successive Approximation, S/H = Sample and Hold, T = Temp. Sensor, T/H = Track and Hold, V = Voltage O/P

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	Mftr.	Pins	Pkg	Linearity Error ± LSB	Conversion Time ± ½ LSB, µs	Features	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
12-Bit A/D													
2	ADI	44	LQFP	0.3		12-Bit R/D Converter with Reference Oscillator	AD2S1200YSTZ	SMC 158-1913●	22.18	18.52	15.24	– –	– –
2	ADI	20	PLCC			12Bit Resolver to Digital Converter	AD2S90APZ	NEW SMC 165-1248●	44.94	36.97	30.24	27.71	23.77
3	INTS	28	PDIP	0.5	20	12-Bit A/D Converters with Microprocessor Interface	HI3-574AKN-5Z	NEW 156-1937●	15.49	13.78	11.28	9.54	8.85
12	NSC	44	PLCC			12Bit Data Acquisition System with Self-Calibration	LM12H458CIV/NOPB	NEW SMC 167-3953●	40.64	29.02	21.16	17.51	15.63
12	NSC	60	LLP	0.5		12-Bit 80 MSPS Dual ADC with Serial LVDS O/P	ADC12DS080CISQ	NEW SMC 158-9527●	43.00	38.23	31.28	28.66	24.57
12	NSC	48	LLP			12Bit 170MSPS 1.1GHz ADC with CMOS Output	ADC12C170CISQ/NOPB	NEW SMC 167-3960●	111.21	88.97	64.88	53.69	47.91
12	NSC	48	LLP			12Bit 170MSPS 1.1GHz ADC with CMOS Output	ADC12V170CISQ/NOPB	NEW SMC 167-3961●	111.21	88.97	64.88	53.69	47.91
12	NSC	32	LLP			12Bit 105 MSPS ADC	ADC12C105CISQE/NOPB	NEW SMC 167-3962●	67.62	48.30	35.22	29.14	26.00
12	NSC	64	TQFP			Dual 12Bit 65 MSPS ADC	ADC12DL065CIVS/NOPB	NEW SMC 167-3964●	48.05	34.32	25.02	20.71	18.48
12	NSC	60	LLP			Dual 12Bit 105 MSPS ADC with Serial LVDS O/P	ADC12DS105CISQ/NOPB	NEW SMC 167-4014●	98.76	70.54	51.43	42.57	37.99
12	NSC	64	TQFP	0.4		Dual 12-Bit, 40 MSPS, 600 mW ADC With Internal/External Reference	ADC12D040CIVS	SMC 818-0695●	19.30	16.40	13.12	– –	– –
12	NSC	64	TQFP	0.3		Dual 12-Bit, 40 MSPS, 3V, 210mW ADC	ADC12DL040CIVS	SMC 100-8000●	20.75	15.10	11.53	– –	– –
12	NSC	32	LLP			12 Bit Quad ADC 65 MSPS	ADC12QS065CISQ	SMC 128-6812●	32.46	27.79	24.31	21.59	19.94
105	NSC	32	LLP	0.35	0.35	12-Bit, 105 MSPS A/D Converter from the PowerWise® Family	ADC12C105CISQ	SMC 143-3177●	40.20	32.15	26.80	22.78	20.82
121	NSC	8	MSOP	0.95		12-Bit, 500 kSPS to 1 MSPS, Differential Input, Micro Power A/D Converter	ADC121S705CIMM	SMC 132-0971●	2.40	2.04	2.02	1.97	1.92
121	NSC	6	SOT-23	1.5	5	Single Channel, 50 to 200 KSPS, 12-Bit ADC	ADC121S021CIMF	SMC 125-0025●	2.51	2.06	1.54	– –	– –
121	NSC	6	SOT-23	1.5	2	Single Channel, 200 to 500 KSPS, 12-Bit A/D Converter	ADC121S051CIMF	SMC 125-0027●	2.51	1.91	1.46	– –	– –
121	NSC	6	SOT-23	0.5	1	1MSPS, 12-Bit ADC	ADC121S101CIMF	SMC 100-7992●	3.75	2.23	1.77	– –	– –
121	NSC	8	Mini SOIC	0.5	5	12-Bit, 200 KSPS, Differential Input ADC	ADC121S625CIMM	SMC 125-0039●	1.92	1.59	1.36	1.20	1.17
121	NSC	6	LLP	0.45		Single Channel, 50 to 200 ksps, 12-Bit A/D Converter	ADC121S021CISD	SMC 131-2531●	1.62	1.48	1.26	1.14	0.97
121	NSC	6	LLP	0.5		Single Channel, 200 to 500 ksps, 12-Bit A/D Converter	ADC121S051CISD	SMC 131-2532●	2.09	1.93	1.64	1.49	1.26
121	NSC	6	LLP	0.5		1Msps, 12-Bit A/D Converter	ADC121S101CISD	SMC 131-2533●	2.58	2.37	2.00	1.81	1.54
122	NSC	10	MSOP			Dual 12Bit 200/500kSPS with Simultaneous Sampling	ADC122S655CIMM/NOPB	NEW SMC 167-4015●	6.88	4.91	3.59	2.97	2.65
122	NSC	8	MSOP	0.4	5–	2 Channel, 200 KSPS 12-Bit ADC	ADC122S021CIMM	SMC 100-7994●	3.12	2.21	1.82	– –	– –
122	NSC	8	MSOP	0.7	2–	2 Channel, 500 KSPS 12-Bit ADC	ADC122S051CIMM	SMC 100-7995●	3.79	2.86	2.17	– –	– –
122	NSC	8	MSOP	0.9	1–	2 Channel, 1MSPS 12-Bit ADC	ADC122S101CIMM	SMC 100-7996●	4.91	3.47	2.85	– –	– –
124	NSC	10	MSOP			4 Channel 50/200ksps 12Bit ADC	ADC124S021CIMM/NOPB	NEW SMC 167-3982●	5.07	3.62	2.64	2.18	1.95
128	NSC	16	TSSOP	0.4	5	8-Channel, 200 KSPS, 12-Bit ADC	ADC128S022CIMT	SMC 125-0032●	3.48	2.64	1.99	– –	– –
128	NSC	16	TSSOP	0.4	2	8-Channel, 500 KSPS, 12-Bit ADC	ADC128S052CIMT	SMC 125-0033●	6.03	4.38	3.46	– –	– –
128	NSC	16	TSSOP	0.4		12 Bit ADC, 8 Channel, 0.5-1 MSPS	ADC128S102CIMT	SMC 128-6732●	4.97	3.61	3.00	2.66	2.49
147	MAX	20	SSOP	1	6.0	8 Channel serial 12-Bit ADC	MAX147BCAP+	SMC 142-2282●	10.50	8.02	6.71	6.09	5.62
172	MAX	24	PDIP	1	10	Single Channel 12Bit CMOS ADC 100ksps	MAX172BCNG+	NEW 160-6622●	17.06	13.65	12.41	11.37	9.48
186	MAX	20	SOIC	1	10	8-Channel ADC, R,S ,S/A ,T/H	MAX186CCWP+	SMC 118-7982●	14.66	12.31	10.97	– –	– –
186	MAX	20	DIP	1	10	8-Channel ADC, R, S, S/A, T/H	MAX186DCPP+	118-8023●	21.02	13.51	11.18	– –	– –
219	TI	8	SOT-23			Zero-Drift, Bi-directional Current/Power Monitor	INA219AIDCNT	NEW SMC 168-4748●	4.43	3.45	2.82	2.39	2.22
328	ADI	20	TSSOP	0.9	0.8	1 MSPS, 8-Channel ADC, R, S/A, S	AD7328BRUZ	SMC 143-8836●	11.04	8.46	7.18	– –	– –
366	ADI	24	TSSOP	0.25	0.61	Simultaneous Dual-Channel ADC 500KSPS, C, S, S/A, T/H	AD7366BRUZ	SMC 143-8837●	9.95	7.49	6.43	– –	– –
476	ADI	8	MSOP	1.5	0.8	1 MSPS, S, S/A, T/H	AD7476AYRMZ	SMC 143-8842●	10.53	8.13	6.89	– –	– –
574	ADI	28	PDIP	0.5	35	P, R, S/H	AD574AKNZ	138-9153●	38.00	30.21	26.83	– –	– –
574	ADI	28	DIP	1	35	MC, P, R, S/A	AD574AJNZ	107-9356●	28.70	22.81	20.26	– –	– –

RL Re-reeling available

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	Mftr.	Pins	Pkg	Linearity Error ± LSB	Conversion Time ± ½ LSB, µs	Features	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
574	ADI	28	DIP	0.5	35	MC, P, R, S/A	AD574AKD	396-539▲	50.68	40.29	35.79	– –	– –
574	TI	28	DIP	1	25	MC, P, R, S/A	ADS574JE	121-4401●	23.79	18.70	15.26	– –	– –
574	TI	28	PDIP	0.5	25	Microprocessor-Compatible SAmpling Cmos A/D Converter	ADS574KPG4	123-4850●	35.70	27.15	21.53	20.97	20.42
574	INTS	28	DIP	1	25	12-Bit ADC With microprocessor interface.	HI3-574AJN-5Z	966-3878●	12.22	11.00	9.17	– –	– –
574	ADI	28	PDIP	0.5	35	P, R, S/H.	AD574AKNZ	138-9153●	38.00	30.21	26.83	– –	– –
655	NSC	8	MSOP	0.85		12 Bit ADC, 500KSPS with Differential inputs.	ADC121S655CIMM	SMD 137-0035●	3.40	2.73	2.29	1.94	1.75
674	ADI	28	SOIC	0.5	8	R, CMOS, Three-state O/P Buffers	AD674BBRZ	SMD 143-8346●	52.14	43.38	38.52	– –	– –
678	ADI	28	PDIP	1	4.4	200 kSPS, P, S/H, MC, R	AD678JNZ	143-8349●	42.23	39.96	35.89	– –	– –
774	ADI	28	SOIC	1	8	S/A, MC, R	AD774BARZ	SMD 138-9156●	36.63	27.60	23.64	23.21	21.73
774	TI	28	PDIP	1	8.5	Microprocessor-Compatible SAmpling Cmos A/D Converter	ADS774JP	128-7416●	33.86	26.61	21.71	19.88	18.88
774	TI	28	SOIC	0.5	3.5	Microprocessor-Compatible SAmpling Cmos A/D Converter	ADS774JU	SMD 128-7417●	24.39	19.39	17.22	16.89	15.81
774	TI	28	SOIC	1	8.5	Microprocessor-Compatible SAmpling Cmos A/D Converter	ADS774JUE4	SMD 123-4883●	27.95	21.26	16.88	16.43	16.01
774	TI	28	SOIC	0.5	8.5	Microprocessor-Compatible SAmpling Cmos A/D Converter	ADS774KUE4	SMD 123-4884●	33.55	25.51	20.81	20.12	19.61
774	ADI	28	SOIC	1	8	S/A, MC, R	AD774BARZ	SMD 138-9156●	36.63	27.60	23.64	23.21	21.73
786	TI	24	SSOP	0.5	1.625	Dual, 500kHz, 12-Bit, 2+2 Ch, Simultaneous Sampling Analog-To-Digital Converter	ADS7861EB	SMD 145-9286●	8.73	5.95	4.80	4.63	4.31
801	TI	28	SOIC	0.3		12-Bit, 25 Msps ADC Se/Diff Inputs. Internal References, Pin Compatible To Ads800/2	ADS801UG4	SMD 123-4977●	19.24	14.62	11.60	11.30	11.01
803	BB	28	SSOP	2	100000	P, R, T/H.	ADS803E	SMD 109-7455●	10.99	8.43	7.15	– –	– –
805	TI	28	SSOP			12Bits ADC 20MSPS	ADS805E	NEW SMD 164-8608●	12.85	10.60	9.74	9.10	8.87
805	TI	28	SOIC	2	100	P, R, T/H.	ADS805EG4	SMD 121-4353●	9.99	8.98	8.15	– –	– –
807	TI	28	SOIC	2	100	P, R, T/H.	ADS807EG4	SMD 121-4356●	16.74	13.15	10.73	– –	– –
1000	TI	6	SOT-23	1		12Bit ADC 128sps with I2C Interface & 4 Programmable Gains	ADS1000A0IDBVT	NEW SMD 160-3416●	1.83	1.47	1.22	1.13	1.06
1000	TI	6	SOT-23	1		12Bit ADC 128sps with I2C Interface & 4 Programmable Gains	ADS1000A1IDBVT	NEW SMD 160-3417●	1.83	1.47	1.22	1.13	1.06
1112	TI	10	SON	1		16 Bit AnaLog to Digital Converter	ADS1112IDRCT	SMD 118-0126●	3.36	2.88	2.52	2.12	2.06
1206	TI	32	TSSOP			12Bits ADC 6MSPS	THS1206CDA.	NEW SMD 164-8614●	10.11	8.65	7.92	7.16	6.98
1236	MAX	8	MicroMax	1	10.6	12Bit Quad Single Ended or Dual Fully Differential Channels 94.4ksps ADC	MAX1236EUA+	NEW SMD 160-6617●	8.06	6.46	5.87	5.38	4.49
1239	MAX	16	QSOP		7.5	2.7V to 3.6V and 4.5V to 5.5V, Low-Power, 4-/12-Channel, 2-Wire Serial, 12-Bit ADCs	MAX1239EEE+	SMD 137-9849●	9.38	6.62	5.57	4.70	– –
1241	MAX	8	SOIC	1	7.5	S, S/A, T/H	MAX1241BCSA+	SMD 118-7990●	11.50	7.39	6.11	– –	– –
1246	MAX	16	QSOP	1	7.5	4-Channel, R, S, S/A, T/H	MAX1246BCEE+	SMD 118-7992●	14.10	9.94	8.36	– –	– –
1247	MAX	16	QSOP	1	7.5	4-Channel, R, S, S/A, T/H	MAX1247BCEE+	SMD 118-7993●	9.38	6.61	5.85	– –	– –
1272	LT	24	DIP	1	3	ADC, 12-Bit, 250kHz Sampling Rate	LTC1272-3CCN#PBF	133-0803●	13.21	9.61	8.38	8.16	7.95
1272	LT	24	SOIC	1	8	ADC, 12-Bit, 250kHz Sampling Rate	LTC1272-8CCSW#PBF	SMD 133-0804●	14.47	9.39	8.22	7.57	7.04
1273	LT	24	DIP	1	2.7	ADC, 12-Bit, 300ksps Sample Rate	LTC1273BCN#PBF	133-0806●	22.19	12.59	9.66	9.25	9.08
1274	LT	24	SOIC	1	6	ADC, 12-Bit, 100ksps Sample Rate	LTC1274CSW#PBF	SMD 133-0807●	9.07	5.33	5.13	5.00	4.87
1275	LT	24	DIP	1	2.7	ADC, 12-Bit, 300ksps Sample Rate	LTC1275BCN#PBF	133-0811●	15.65	11.41	9.86	9.51	9.18
1276	LT	24	DIP	1	2.7	ADC, 12-Bit, 300ksps Sample Rate	LTC1276BCN#PBF	133-0813●	15.65	11.41	9.86	9.51	9.18
1277	LT	24	SOIC	1	6	ADC, 12-Bit, 100ksps Sample Rate	LTC1277CSW#PBF	SMD 133-0814●	13.89	9.01	7.88	7.26	6.75
1278	LT	24	DIP	1	2.3	ADC, 12-Bit, 500ksps Sampling Rate with Shutdown	LTC1278-4CN#PBF	133-0815●	13.70	8.63	8.27	8.06	7.85
1285	LT	8	DIP	2	100	ADC, 12-Bit, 7.5ksps Sampling Rate	LTC1285CN8#PBF	133-0820●	11.99	6.79	5.00	4.67	4.59
1288	LT	8	DIP	2	100	ADC, 12-Bit, 6.6ksps Sampling Rate	LTC1288CN8#PBF	133-0821●	8.95	6.12	5.00	4.87	4.74
1285	LT	8	SOIC	0.25	100	3V, 7.5KSPS, S/A, S/H, Shutdown.	LTC1285CS8#PBF	SMD 956-0980●	9.41	5.56	5.35	– –	– –
1286	TI	8	DIP	1	50	C, S, S/A, S/H	ADS1286PA	121-4453●	6.44	4.38	3.54	3.41	– –
1286	BB	8	SOIC	1	50	C, S, S/A, S/H	ADS1286U	SMD 110-6203●	6.04	4.31	3.35	– –	– –
1286	TI	8	SOIC	2	50	C, S, S/A, S/H	ADS1286UAG4	SMD 932-4100●	4.14	3.25	2.66	– –	– –
1286	LT	8	DIP	0.75	60	C, MC, S, S/A, S/H	LTC1286CN8#PBF	956-0998●	9.33	5.31	4.04	– –	– –
1286	LT	8	SOIC	0.75	60	MC, S, S/A, S/H	LTC1286CS8#PBF	SMD 956-1005●	10.04	5.71	4.35	– –	– –
1288	LT	8	SOIC	0.25	100	2-Channel, MC, S, S/A, S/H.	LTC1288CS8#PBF	SMD 956-1013●	12.74	7.21	5.35	– –	– –
1290	LT	20	DIP	0.5	13	8-Channel, MC, S, S/A, S/H.	LTC1290CCN#PBF	956-1021●	29.85	16.88	12.27	– –	– –
1290	LT	20	SOIC	0.5	13	8-Channel, MC, S, S/A, S/H.	LTC1290CCSW#PBF	SMD 956-1030●	35.79	20.25	14.74	– –	– –
1290	LT	20	DIP	0.75	13	ADC, 12-Bit, 50kHz Max Throughput Rate	LTC1290DCN#PBF	133-0823●	12.46	7.05	5.22	5.08	4.95
1293	LT	16	SOIC			12-Bit ADC	LTC1293DCSW#PBF	NEW SMD 166-3608●	19.92	15.44	12.35	10.29	9.22
1293	LT	16	DIP	0.75	12	ADC, 12-Bit, 46.5kHz Max Throughput Rate.	LTC1293DCN#PBF	133-0824●	11.04	6.53	6.25	6.08	5.93
1294	LT	20	DIP	0.75	12	ADC, 12-Bit, 46.5kHz Max Throughput Rate.	LTC1294CCN#PBF	133-0825●	18.09	11.46	11.16	10.87	10.60
1294	LT	20	DIP	0.75	12	ADC, 12-Bit, 46.5kHz Max Throughput Rate.	LTC1294DCN#PBF	133-0826●	17.13	9.74	7.31	7.11	6.94
1296	LT	20	DIP	0.75	12	ADC, 12-Bit, 46.5kHz Max Throughput Rate.	LTC1296BCN#PBF	133-0827●	23.02	13.07	10.00	9.58	9.41
1296	LT	20	DIP	0.75	12	ADC, 12-Bit, 46.5kHz Max Throughput Rate.	LTC1296DCN#PBF	133-0829●	15.00	8.53	6.50	6.21	6.09
1298	LT	8	DIP	0.75	60	2-Channel, C, MC, S, S/A, S/H	LTC1298CN8#PBF	956-1048●	9.33	5.31	4.04	– –	– –
1298	LT	8	SOIC	0.75	60–	MC, S, S/A, S/H	LTC1298CS8#PBF	SMD 956-1056●	10.04	5.71	4.35	– –	– –
1377	MAX	20	TQFN			Dual 12Bit 1.25Msps Simultaneous-Sampling ADCs with SPI	MAX1377ATP+	NEW SMD 167-3074●	8.82	6.29	4.89	4.41	4.01
1379	MAX	20	TQFN			Dual 12Bit 1.25Msps Simultaneous-Sampling ADCs with SPI	MAX1379ATP+	NEW SMD 167-3076●	8.82	6.29	4.89	4.41	4.01
1400	LT	8	SOIC	1	2.1–	C, R, S/H.	LTC1400CS8#PBF	SMD 956-1129●	9.45	5.34	4.04	– –	– –
1403	LT	10	MSOP	0.5	0.072	ADC, 12-Bit, 2.8Msps Conversion Rate	LTC1403CMSE#PBF	SMD 133-0832●	7.56	4.59	3.63	3.17	2.82
1407	LT	10	MSOP	0.5		12-Bit Serial ADC with Shutdown.	LTC1407CMSE#PBF	SMD 133-0835●	7.56	4.59	3.63	3.44	3.35
1407	LT	10	MSOP	0.5		12-Bit Serial ADC with Shutdown.	LTC1407CMSE-1#PBF	SMD 133-0836●	7.56	4.59	3.63	3.17	2.86
1409	LT	28	SOIC	1	1.25	12-Bit, 800ksps Sampling, ADC with Shutdown.	LTC1409CSW#PBF	SMD 133-0837●	15.12	11.03	9.53	9.19	8.88
1410	LT	28	SOIC	1	0.75	12-Bit, 1.25Msps Sampling, ADC with Shutdown.	LTC1410CSW#PBF	SMD 133-0838●	20.07	11.35	8.20	7.99	7.78
1415	LT	28	SOIC	1	0.7	12-Bit, 1.25Msps, 55mW Sampling ADC	LTC1415CSW#PBF	SMD 133-0839●	20.07	11.35	8.20	7.99	7.78
1421	MAX	48	TQFP	0.5		12-Bit 40Msps 3.3V ADC	MAX1421ECM+	SMD 143-3200●	11.98	8.45	7.11	6.19	5.70
1594	LT	16	SOIC	3	3.1	4-Channel, C, MC, S, S/A, S/H	LTC1594CS	SMD 790-930▲	5.97	5.12	4.37	– –	– –
1594	LT	16	SOIC	3	3.1	4-Channel, C, MC, S, S/A, S/H	LTC1594CS#PBF	SMD 956-1293●	10.63	6.01	4.62	– –	– –
1598	LT	24	SSOP			8 Channel 12Bit ADC.	LTC1598LCG#PBF	NEW SMD 166-3649●	10.64	8.24	6.59	5.49	4.93
1674	ADI	28	SOIC	0.5	9	100 kSPS, S/H, MC, P.	AD1674BRZ	SMD 143-8321●	32.24	25.63	22.76	– –	– –
1674	ADI	28	PDIP	0.5	9	100 kSPS, S/H, MC, P.	AD1674KNZ	143-8334●	28.70	22.81	20.26	– –	– –
1674	ADI	28	SOIC	0.5	9	100 kSPS, S/H, MC, P.	AD1674KRZ	SMD 143-8336●	27.86	22.16	19.68	– –	– –
1674	ADI	28	DIP	1	10	MC, P, R, S/A, S/H	AD1674JNZ	960-3697●	20.52	16.31	14.49	– –	– –
1851	LT	48	TSSOP	1	4.8	ADC, 12-Bit, 1.25Msps Sampling Rate	LTC1851CFW#PBF	SMD 133-0878●	8.67	6.31	6.14	5.97	5.82
1853	LT	48	TSSOP	1	7	ADC, 12-Bit, Flexible 8-Channel Multiplexer	LTC1853CFW#PBF	SMD 133-0880●	11.02	7.53	6.04	5.88	5.73
1860	LT	8	MSOP	1	7	ADC, 12-Bit, 250ksps, 1-Channel	LTC1860CMS8#PBF	SMD 133-0881●	4.60	2.61	2.04	1.96	1.91
1860	LT	8	MSOP	1	2.7	ADC, 12-Bit, 150ksps, 1-Channel	LTC1860LCMS8#PBF	SMD 133-0882●	3.38	2.68	2.19	2.03	1.98
1861	LT	10	MSOP	1	2.7	ADC, 12-Bit, 250ksps, 2-Channel	LTC1861CMS#PBF	SMD 133-0884●	5.91	3.34	2.69	2.63	2.57
1861	LT	10	MSOP	1	7	ADC, 12-Bit, 150ksps, 2-Channel	LTC1861LCMS#PBF	SMD 133-0885●	5.32	3.01	2.35	2.23	2.14
1863	LT	16	SSOP			9 Channel 12Bit Serial I/O ADC	LTC1863LIGN#PBF	NEW SMD 166-3671●	8.48	6.57	5.26	4.38	3.93
2308	LTC	24	QFN			12 Bit ADC 8 Channel 500kSPS.	LTC2308CUF#PBF	NEW SMD 160-9772●	4.79	3.84	3.47	3.18	2.74
2308	LTC	24	QFN			12 Bit ADC 8 Channel 500kSPS.	LTC2308IUF#PBF	NEW SMD 160-9773●	5.74	4.59	4.18	3.83	3.28
2309	LTC	24	QFN		1.3	12 Bit ADC 8 Channel with I2C Interface	LTC2309CUF#PBF	NEW SMD 160-9770●	4.95	3.97	3.60	3.31	2.83
2309	LTC	24	QFN		1.3	12 Bit ADC 8 Channel with I2C Interface	LTC2309IUF#PBF	NEW SMD 160-9771●	5.94	4.76	4.32	3.95	3.39
2366	LTC	8	TSOT-23			3MSPS 12 Bits Serial Sampling ADC	LTC2366CTS8#PBF	NEW SMD 160-9738●	8.24	7.37	6.30	5.78	4.94
2366	LTC	8	TSOT-23			3MSPS 12 Bits Serial Sampling ADC	LTC2366HTS8#PBF	NEW SMD 160-9739●	10.37	9.27	7.92	7.26	6.22
2366	LTC	8	TSOT-23			3MSPS 12 Bits Serial Sampling ADC	LTC2366ITS8#PBF	NEW SMD 160-9740●	9.47	8.46	7.23	6.63	5.68
2366	LTC	6	TSOT-23			3MSPS 12 Bits Serial Sampling ADC	LTC2366CS6#PBF	NEW SMD 160-9741●	7.98	7.14	6.11	5.58	4.79
2366	LTC	6	TSOT-23			3MSPS 12 Bits Serial Sampling ADC	LTC2366HS6#PBF	NEW SMD 160-9742●	10.06	8.99	7.68	7.05	6.04

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A/D and D/A Converters - continued

	Mftr.	Pins	Pkg	Linearity Error ± LSB	Conversion Time ± ½ LSB, µs	Features	Mftrs. List No.	Order Code	1+	10+	Price Each 100+	250+	500+
2366	LTC	6	TSOT-23			3MSPS 12 Bits Serial Sampling ADC	LTC2366IS6#PBF	NEW SMC 160-9743●	9.18	8.22	7.01	6.42	5.51
2542	TI	8	SOIC			12Bits ADC 200kSPS	TLV2542ID.	NEW SMC 164-8616●	6.26	5.00	4.17	3.77	3.67
2542	TI	8	VSSOP	1	3.5	12-Bit A-D Converter, 200KSPS	TLV2542IDGK	SMC 845-5198●	7.30	4.98	4.02	– –	– –
2543	TI	20	SOIC	1	8	12-Bit 66 kSPS ADC Serial O/P	TLC2543IDW	NEW SMC 156-4976●	9.12	7.52	6.69	5.48	4.63
2543	TI	20	SOIC	1	10	12 Bit ADC	TLC2543CDWG4	SMC 123-4634●	6.14	4.67	3.82	3.68	3.59
2543	TI	20	PLCC	1	10	12-Bit 66 KSPS ADC SER. OUT, PGRmABLE MSB/LSB FIRST, PGRmABLE Power DOWN/OUTPUT DATA LENGTH, 11 CH.	TLC2543CFNG3	SMC 123-5001●	4.26	3.24	2.92	2.84	2.77
2543	TI	20	PDIP	1	10	12-Bit A-D Converter	TLC2543CN	845-4108●	7.53	5.14	4.15	– –	– –
2543	TI	20	SOIC	1	10	12 Bit ADC With Serial Control & 11 AnaLog Inputs	TLC2543IDWG4	SMC 123-4672●	6.56	4.99	4.06	3.73	3.53
2543	TI	20	PDIP	1	10	12-Bit A-D Converter	TLC2543IN	845-4116●	8.03	5.48	4.42	– –	– –
2548	TI	20	SOIC	1	3.86	12-Bit 200 KSPS ADC SER. OUT, AUTO PWRDN (S/W AND H/W), Low Power W/8 X FIFO W/8 CH.	TLV2548CDWG4	SMC 123-5037●	7.44	5.66	4.61	4.22	4.01
2548	TI	20	TSSOP	1	3.86	12-Bit A-D Converter, 200KSPS	TLV2548IPWG4	SMC 120-7293●	5.35	4.21	3.60	– –	– –
2552	TI	8	SOIC	1	1.5–	C, S, S/A, S/H	TLC2552IDGKG4	SMC 121-4393●	5.62	4.42	3.59	– –	– –
2553	TI	20	SOIC	1	5.54–	12-Bit A-D Converter, 200KSPS	TLV2553IDW	SMC 845-5210●	4.99	3.95	3.23	– –	– –
2556	TI	20	TSSOP			12Bits ADC 200kSPS	TLV2556IPW.	NEW SMC 164-8617●	5.41	4.32	3.61	3.26	3.18
2556	TI	20	SOIC	1	5.54	12-Bit A-D Converter, 200KSPS	TLV2556IDW	SMC 845-5228●	6.33	4.31	3.48	– –	– –
3201	MCHIP					Single 2.7V 12-Bit ADC with SPI Serial Interface	MCP3201-BI/P	NEW 162-7197●	2.48	1.88	1.48	– –	– –
3201	MCHIP	8	SOIC	1	12	2.7V, 100KSPS, C, S, S/H	MCP3201-BI/SN	SMC 108-4338●	1.83	1.32	1.14	– –	– –
3201	MCHIP	8	DIP	1	10	C, L, R2R, S, S/A, S/H	MCP3201-CI/P	975-8577●	1.58	1.14	0.99	0.83	0.75
3201	MCHIP	8	SOIC	1	10	C, L, R2R, S, S/A, S/H	MCP3201-CI/SN	SMC 119-6793●	2.03	1.14	0.99	0.86	0.75
3202	MCHIP	8	SOIC	1	10	2-Channel, C, L, R2R, S, S/A, S/H	MCP3202-BI/SN	SMC 119-6803●	2.56	1.44	1.25	– –	– –
3202	MCHIP	8	DIP	2	10	2-Channel, C, L, R2R, S, S/A, S/H	MCP3202-CI/P	119-6794●	2.25	1.27	1.10	0.96	0.84
3202	MCHIP	8	SOIC	2	10	2-Channel, C, L, R2R, S, S/A, S/H	MCP3202-CI/SN	SMC 975-8585●	2.25	1.27	1.10	0.96	0.83
3204	MCHIP	14	DIP	2	10	4-Channel, C, L, R2R, S, S/A, S/H	MCP3204-CI/P	975-8593●	2.19	1.58	1.38	1.16	1.05
3204	MCHIP	14	SOIC	2	10	4-Channel, C, L, R2R, S, S/A, S/H	MCP3204-CI/SL	SMC 119-6795●	2.80	1.87	1.53	– –	– –
3208	MCHIP	16	DIP	1	10	8-Channel, C, L, R2R, S, S/A, S/H	MCP3208-CI/P	108-4269●	2.41	1.74	1.51	1.27	1.15
3208	MCHIP	16	SOIC	1	10	8-Channel, C, L, R2R, S, S/A, S/H	MCP3208-CI/SL	SMC 108-4270●	2.41	1.74	1.51	1.27	1.15
3221	MCHIP	5	SOT-23A	2	45.4	12-Bit ADC, I2C, 1Ch	MCP3221A5T-E/OT	SMC 133-2098●	1.28	1.07	0.73	– –	– –
5231	TI	64	TQFP	2.5		12-Bit Dual low power ADC, 40MSPS	ADS5231IPAGG4	SMC 139-0667●	18.29	14.90	12.42	10.57	10.30
5232	TI	64	TQFP	2.5		12-Bit Dual ADC, 65MSPS, + 3.3V	ADS5232IPAGG4	SMC 139-0668●	24.53	20.81	16.94	14.41	14.03
5270	TI	80	HTQFP	0.5		8-Channel Analog-to-Digital Converter	ADS5270IPFP	SMC 145-9257●	58.81	46.75	41.53	40.73	38.12
5271	TI	80	HTQFP	0.5		8-Channel, 12-Bit, 40/50MSPS ADC with Serialized LVDS Interface	ADS5271IPFP	SMC 145-9258●	64.15	51.01	45.30	44.43	41.58
5463	TI	80	HTQFP	1.5		12-Bit ADC with Buffered Input, 200MSPS	ADS5463IPFPG4	SMC 139-0662●	193.89	158.25	132.03	112.49	109.62
5522	TI	64	HTQFP	5	80	80MSPS, C, P, R, S/H	ADS5522IPAPG4	SMC 996-8962●	28.79	25.51	22.91	20.79	19.03
5616	TI	8	SOIC	4		12-Bit, 3 Us DAC, Serial Input, PgrmAble Settling Time/Power Consump., Voltage O/P Range=2x Vref.	TLV5616CDG4	SMC 123-4913●	4.01	3.05	2.45	2.36	2.17
5812	INTS	24	DIP	2	20	C, L, S/A, T/H	HI5812JIPZ	966-4076●	4.79	4.32	3.60	– –	– –
5934	ADI	16	SSOP	1		250 KSPS 12-Bit Impedance Converter Network Analyzer	AD5934YRSZ	SMC 111-7905●	14.72	11.70	10.39	10.19	9.54
6425	TI	64	QFN	2.5		12-Bit Quad ADC with serialized LVDS output, 125MSPS	ADS6425IRGCTG4	SMC 139-0660●	121.77	97.42	80.19	68.72	66.47
7109	MAX	40	DIP	1	3333	C, MC, P, R	ICL7109CPL+	128-7223●	11.62	7.47	6.18	– –	– –
7109	MCHIP	40	DIP	1		C, MC	TC7109CPL	119-6816●	4.28	3.61	3.15	– –	– –
7266	ADI	32	LFCSP	1	0.5–	2-Channel, 2MSPS, MC, R, S, S/A	AD7266BCPZ	SMC 107-8342●	13.24	10.24	8.68	– –	– –
7266	ADI	32	TQFP	1	0.5	2-Channel, 2MSPS, MC, R, S, S/A	AD7266BSUZ	SMC 107-8344●	13.24	10.24	8.68	– –	– –
7274	ADI	8	MSOP	1	291	3 MSPS 12-Bit A/D Converter	AD7274BRMZ	SMC 111-7903●	8.89	7.44	6.68	6.26	5.86
7276	ADI	8	MSOP	3.25	291	3 MSPS,12-Bit ADC	AD7276BRMZ	SMC 111-7902●	8.31	6.92	6.25	6.08	5.93
7294	ADI	64	TQFP	1	3	12Bit Multichannel ADC, DACs, Temperature Sensor & Current Sense Monitor and Control System	AD7294BSUZ	NEW SMC 160-7230●	15.96	12.77	11.61	10.64	9.11
7321	ADI	14	TSSOP	9	1.6	500 KSPS, Software Selectable True Bipolar Input, 2-Channel, 12-Bit Plus Sign SAR A/D Converter	AD7321BRUZ	SMC 127-4250●	6.33	4.34	3.50	3.37	3.14
7322	ADI	14	TSSOP	9	800	Software Selectable True Bipolar Input, 2-Channel, 12-Bit Plus Sign ADC	AD7322BRUZ	SMC 127-4249●	8.40	6.44	5.47	5.24	4.90
7323	ADI	16	TSSOP	9	1.6–	500 KSPS, 4-Channel, Software Selectable True bipolar Input, 12-Bit Plus Sign ADC	AD7323BRUZ	SMC 127-4248●	7.61	5.23	4.22	4.07	3.79
7324	ADI	16	TSSOP	8	800	Software Selectable True Bipolar Input, 4-Channel, 12-Bit Plus Sign ADC	AD7324BRUZ	SMC 127-4246●	10.08	7.79	6.61	6.33	5.93
7327	ADI	20	TSSOP	8	1.6	500 KSPS, 8-Channel, Software Selectable True bipolar Input, 12-Bit Plus Sign A/D Converter	AD7327BRUZ	SMC 127-4245●	8.30	5.71	4.61	4.44	4.14
7329	ADI	24	TSSOP	8	800	1 MSPS , 8-Channel, Software Selectable True Bipolar Input, 12-Bit Plus Sign ADC	AD7329BRUZ	SMC 127-4244●	10.96	8.47	7.18	6.89	6.45
7366	ADI	24	TSSOP	0.5	1.25	Dual, 500 kSPS, S, C, R, T/H, S/A,	AD7366BRUZ-5	SMC 149-8671●	11.04	7.69	5.89	– –	– –
7450	ADI	8	MSOP	2	1.07	1MSPS, S/A, T/H	AD7450ARMZ	SMC 107-9395●	5.48	4.57	3.94	– –	– –
7472	ADI	24	SOIC	1.8	1.5	MC, P, S/A, T/H	AD7472ARZ	SMC 107-9343●	8.52	7.11	6.08	– –	– –
7476	ADI	6	SOT-23			12-Bit 1MSPS A/D Converter	AD7476ARTZ-500RL7.	NEW SMC 165-1242●	6.24	4.85	3.97	3.65	3.48
7476	ADI	8	MSOP	1.5	800	1MSPS, R, S/A, T/H	AD7476ABRMZ	SMC 158-1903●	8.00	5.65	4.56	– –	– –
7476	NSC	6	SOT-23	0.5	1	1MSPS, C, S/A	ADCS7476AIMF	SMC 977-9710●	2.18	1.91	1.71	– –	– –
7490	ADI	28	TSSOP	1	800	16-Channel, 1MSPS, MC, S/A, T/H	AD7490BRUZ	SMC 960-5231●	10.45	8.06	6.84	– –	– –
7492	ADI	24	SOIC	1.5	1	MC, P, S/A, T/H, R	AD7492ARZ	SMC 942-5993●	7.79	6.64	5.79	– –	– –
7495	ADI	8	SOIC	1.5	1.2	MC, S, S/A, T/H, R	AD7495ARZ	SMC 107-9345●	7.13	5.93	5.09	– –	– –
7572	ADI	24	DIP	1	10	C, MC, P, R, S/A	AD7572AJNZ10	107-9357●	19.66	16.32	13.80	– –	– –
7578	ADI	24	DIP	1	100	C, MC, P, S/A	AD7578KNZ	960-4413●	29.30	24.18	21.49	– –	– –
7582	ADI	28	DIP	1	100	4-Channel, C, MC, P, S/A	AD7582KNZ	960-4421●	35.68	28.37	25.20	– –	– –
7658	ADI	64	LQFP		3.1	250 KSPS, 6-Channel, Simultaneous SAmpling, Bipolar 12-Bit ADC	AD7658BSTZ	SMC 127-4230●	16.75	13.41	11.91	11.68	10.93
7658	ADI	64	LQFP		3.1	250 KSPS, 6-Channel, Simultaneous SAmpling, Bipolar 12-Bit A/D Converter	AD7658YSTZ	SMC 127-4229●	18.59	14.87	13.20	12.95	12.12
7800	TI	24	PDIP			12Bit ADC 333kSPS	ADS7800JP	164-8599●	39.00	32.15	29.57	27.61	26.90
7800	TI	24	PDIP			12Bit ADC 333kSPS	ADS7800JP	NEW 164-8599●	39.00	32.15	29.57	27.61	26.90
7804	TI	28	SOIC	0.45	10	12-Bit 10US SAmpLING CMOS ANALog-TO-DIGITAL CONVERTER	ADS7804UBE4	SMC 123-4943●	28.88	21.97	17.45	16.99	16.55
7804	TI	28	SOIC	0.45	8	12-Bit 10US SAmpLING CMOS ANALog-TO-DIGITAL CONVERTER	ADS7804UE4	SMC 123-4703●	21.53	16.38	13.00	12.67	12.34
7806	TI	28	DIP	0.5	25	C, L, P, R, S, S/A, S/H	ADS7806PG4	117-8440●	18.95	14.89	12.15	– –	– –
7806	BB	28	SOIC	0.5	25	C, L, P, R, S, S/A, S/H	ADS7806U	SMC 110-6202●	24.46	19.57	16.30	– –	– –
7808	TI	20	SOIC			12Bits ADC 100KHz	ADS7808U.	NEW SMC 164-8600●	14.12	11.64	10.69	9.99	9.74
7810	TI	28	SOIC	1	1020	12-Bit, 800 KHz SAmpling A-D Converter	ADS7810UE4	SMC 120-6865●	41.20	32.38	26.41	– –	– –
7812	TI	16	SOIC	1	20	Low-Power, Serial 12-Bit Sampling Analog-To-Digital Converter	ADS7812U	SMC 145-9274●	14.09	12.16	11.16	10.28	9.75
7816	BB	8	DIP	0.5	5	C, S, S/A, S/H	ADS7816P	109-7576●	3.71	2.53	1.88	1.79	– –
7816	BB	8	SOIC	0.5	5	C, S, S/A, S/H	ADS7816U	SMC 110-6201●	3.71	2.53	1.88	– –	– –
7816	TI	8	SOIC	1	1.5	12-Bit High Speed Low Power SAmpling AnaLog-To-Digital Converter	ADS7816UBG4	SMC 123-4819●	3.27	2.46	2.02	1.84	1.75
7817	TI	8	SOIC	0.75	12	12-Bit Differential Input Micro Power SAmpling Ana-Log-To-Digital Converter	ADS7817UG4	SMC 123-5026●	3.00	2.28	1.85	1.71	1.60
7818	TI	8	PDIP			12Bits ADC 500kHz	ADS7818P.	NEW 164-8601●	3.82	3.05	2.54	2.30	2.24
7818	TI	8	MSOP	2	1.625	P, S, S/A, S/H	ADS7818E/250G4	SMC 932-4119●	4.08	3.21	2.63	– –	– –

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Farnell

	Mftr.	Pins	Pkg	Linearity Error ± LSB	Conversion Time ± ½ LSB, µs	Features	Mftrs. List No.	Order Code	1+	10+	Price Each 100+	250+	500+
7822	TI	8	PDIP			12Bits ADC 200kHz.	ADS7822P	NEW 164-8602●	2.14	1.72	1.43	1.29	1.26
7822	TI	8	MSOP	0.75	12	12-Bit, 200KSPS Micro Power SAmpling AnaLog-To-Digital Converter.	ADS7822E/250G4	SMD 123-4760●	2.35	1.84	1.50	1.38	1.35
7822	BB	8	SOIC	0.5	13	C, S, S/A, S/H	ADS7822U	SMD 110-6199●	2.94	2.01	1.49	– –	– –
7822	TI	8	SOIC	1	12	12-Bit, 200KSPS Micro Power SAmpling AnaLog-To-Digital Converter.	ADS7822UBG4	SMD 123-4697●	2.42	1.84	1.50	1.45	1.42
7822	TI	8	SOIC	0.75		12-Bit, 200KSPS Micro Power SAmpling AnaLog-To-Digital Converter.	ADS7822UCG4	SMD 123-4917●	2.64	2.01	1.58	1.54	1.50
7823	TI	8	MSOP	3	8	12-Bit A-D Converter w/I²C Interface	ADS7823E/250G4	SMD 120-7896●	3.06	2.78	2.55	2.36	2.19
7824	TI	28	PDIP			12Bits ADC 40kHz.	ADS7824P.	NEW 164-8604●	17.91	14.77	13.58	12.68	12.35
7824	TI	28	SOIC	0.5	20	4-Channel, 12-Bit Sampling CMOS A/D Converter	ADS7824UB	SMD 145-9282●	17.25	14.90	13.35	13.00	12.68
7824	BB	28	SOIC	1	25	4-Channel, C, L, P, S, R, S/A, S/H	ADS7824U	SMD 110-6198●	17.51	13.92	12.36	– –	– –
7828	TI	16	TSSOP	1	6	12-Bit, 50KSPS, 8-Channel A-D Converter	ADS7828E/250G4	SMD 120-6868●	5.49	4.85	4.37	3.95	3.62
7828	TI	16	TSSOP	2–	6–	12-Bit, 50KSPS, 8-Channel A-D Converter	ADS7828EB/250G4	SMD 120-6869●	6.07	5.05	4.05	– –	– –
7829	TI	8	SON	2		12-Bit High Speed 2.7V microPower Sampling Ana-log-to-Digital Converter	ADS7829IDRBT	SMD 145-9285●	2.44	1.92	1.56	1.44	1.37
7835	TI	8	VSSOP	1	1.625	12-Bit, High-Speed, Low Power SAmpling AnaLog-To-Digital Converter.	ADS7835E/250G4	SMD 123-4992●	4.52	3.56	2.82	2.75	2.68
7835	TI	8	VSSOP	1	1.625	A-D Converter, 12-Bit, 500 KHZ BIPOLAR	ADS7835EB/250G4	SMD 120-6870●	4.49	3.74	3.00	– –	– –
7841	TI	16	SSOP	1		4-Channel, C, R, S, S/A, S/H	ADS7841EG4	SMD 932-4127●	3.33	2.95	2.65	2.40	2.19
7841	BB	16	DIP	1	0.5	4-Channel, C, R, S, S/A, S/H	ADS7841P	109-7415▲	4.50	3.06	2.47	– –	– –
7841	TI	16	SSOP			12Bits ADC 16kHz.	ADS7841EB.	NEW SMD 164-8605●	4.12	3.29	2.74	2.48	2.41
7842	TI	28	SSOP			124Bits ADC 200kHz.	ADS7842EB.	NEW SMD 164-8606●	5.64	4.51	3.76	3.40	3.31
7842	TI	28	SSOP	1	12	4-Channel, C, R, S/H	ADS7842EG4	SMD 932-4135●	3.40	2.97	2.64	– –	– –
7843	TI	16	SSOP	2		A-D Converter,12-Bit,S	ADS7843EG4	SMD 120-6871●	2.27	1.78	1.46	– –	– –
7844	TI	20	SSOP	1	12	12-Bit, 8-Channel Serial Output SAmpling AnaLog-To-Digital Converter.	ADS7844EBG4	SMD 123-4867●	4.83	4.68	4.55	4.43	4.32
7844	TI	20	QSOP	1	0.5	8-Channel, C, MC, R, S	ADS7844EG4	SMD 121-4383●	4.91	3.35	2.71	2.61	2.43
7844	TI	20	SSOP	1		8-Channel, C, MC, R, S	ADS7844N/1KG4	SMD 932-4143●	3.87	3.04	2.48	– –	– –
7845	TI	16	SSOP			12Bits ADC 125kSPS for Touch Screen Controller	ADS7845E.	NEW SMD 164-8607●	5.97	5.13	4.28	3.67	3.58
7846	TI	16	SSOP	2		A-D Converter, Touch Screen Controller.	ADS7846EG4	SMD 120-6872●	2.74	2.15	1.76	– –	– –
7846	TI	16	TSSOP	2		A-D Converter, Touch Screen Controller.	ADS7846NG4	SMD 120-6873●	2.74	2.15	1.76	– –	– –
7852	TI	32	TQFP	1	1.75	8CH,12-Bit Parallel A-D Converter.	ADS7852Y	SMD 840-9331	4.67	3.74	3.18	– –	– –
7859	ADI	44	PLCC	1	4.5	200 kSPS, P, C, R	AD7859APZ	SMD 143-8547●	9.60	8.02	6.87	– –	– –
7859	ADI	44	MQFP	1	4.5	200 kSPS, P, C, R	AD7859ASZ	SMD 143-8548●	12.31	9.51	8.06	– –	– –
7861	TI	24	SSOP	0.75	1.63	4-Channel, C, S, S/H	ADS7861E	SMD 121-4350●	7.22	4.92	3.97	– –	– –
7861	TI	32	QFN	1		12 Bit ADC Simultaneous Sampling	ADS7861IBRHBTG4	SMD 132-9572●	7.85	6.17	5.04	– –	– –
7862	TI	32	QFN	1		12 Bit ADC Simultaneous Sampling	ADS7862Y/250G4	SMD 132-9573●	9.35	7.34	5.99	– –	– –
7862	TI	32	TQFP	1	1.75	12 Bit ADC Simultaneous Sampling	ADS7862YB/250	SMD 132-9574●	11.06	8.48	7.19	– –	– –
7864	TI	48	TQFP	0.4		500kHz, 12-Bit ADC, 6-Channel Simultaneous Sampling Converter	ADS7864Y/250G4	SMD 132-9575●	10.90	8.56	6.99	– –	– –
7864	TI	48	TQFP	0.4		12-Bit ADC, 500Khz, 6Ch	ADS7864YB/250G4	SMD 132-9576●	12.38	9.73	7.93	– –	– –
7864	ADI	44	LQFP	1	1.65	4-Channel, MC, P, R, S/A, S/H, T/H, V	AD7864ASZ-1	SMD 960-3611●	21.49	17.20	15.28	– –	– –
7864	TI	48	TQFP	1–	1.75–	A-D Converter, 500KHZ, 12-Bit, 6 Channel.	ADS7864Y	SMD 121-2287●	9.65	7.59	6.18	– –	– –
7866	ADI	20	TSSOP	1.5–	800–	2-Channel, 1MSPS, S/A, T/H	AD7866ARUZ	SMD 960-5240●	10.35	8.00	6.79	– –	– –
7866	TI	6	SOT-23	1.5		12 Bit ADC 200 KSPS	ADS7866IDBVTG4	SMD 132-9577●	3.04	2.69	2.41	2.19	2.02
7870	ADI	24	DIP	0.5	10	C, MC, P, R, S, S/A, S/H	AD7870JNZ	107-9358●	30.20	24.00	21.32	– –	– –
7874	ADI	28	PDIP	1	8	4-Ch, 116 kSPS, P, C, R, MC	AD7874ANZ	143-8551●	48.97	39.51	35.09	– –	– –
7880	ADI	24	DIP	1	12	C, S/A, T/H	AD7880BNZ	107-9289●	25.80	20.65	18.34	– –	– –
7888	ADI	16	TSSOP			12-Bit 125kSPS A/D Converter	AD7888ARUZ	NEW SMD 165-1244●	6.83	5.31	4.34	3.98	3.81
7888	ADI	16	SOIC	2	8	C, MC, R, S, T/H	AD7888ARZ	SMD 942-5691●	8.24	5.66	4.57	– –	– –
7889	NSC	16	TSSOP	1	13	7-Channel, 500KSPS, C, S/A, T/H	ADC78H89CIMT	SMD 977-9752●	3.44	2.86	2.25	– –	– –
7890	ADI	24	PDIP			LC2MOS 8-Channel 12Bit ADC	AD7890ANZ-10	NEW 166-0957●	18.86	15.08	12.56	11.60	10.47
7890	NSC	16	TSSOP	1	13	8-Channel, 500KSPS, C, S/A, T/H	ADC78H90CIMT	SMD 977-9744●	3.59	3.13	2.50	– –	– –
7890	ADI	24	SOIC	0.5	5.9	8-Ch, 117 kSPS, S, T/H, R, C	AD7890BRZ-10	SMD 143-8552●	21.24	16.99	15.09	14.80	13.85
7891	ADI	44	MQFP	1	1.6	8-Ch. 500 kSPS. MC. P. S. C	AD7891ASZ-1	SMD 143-8553●	23.53	18.82	16.72	16.39	15.34
7892	ADI	24	SOIC	1.5	1.6	500 kSPS, T/H, S/A, MC, S, P, C	AD7892ARZ-1	SMD 143-8555●	22.18	17.75	15.76	15.46	14.47
7892	ADI	24	DIP	1	1.3	C, MC, R, S/A, T/H	AD7892ANZ-1	107-9424●	22.78	19.52	16.14	– –	– –
7896	ADI	8	DIP	1	8	C, S, S/A, T/H	AD7896ANZ	107-9420●	11.18	8.77	7.50	– –	– –
7921	ADI	8	MSOP	1.5	4	2-Channel, 250KSPS, MC, S, S/A	AD7921ARMZ	SMD 107-8324●	4.89	3.33	2.69	– –	– –
7922	ADI	8	MSOP	1.5	1	2-Channel, 1MSPS, MC, S, S/A.	AD7922ARMZ	SMD 107-8323●	7.51	5.76	4.89	– –	– –
7923	ADI	16	TSSOP	1	0.8	4-Channel, 200KSPS, S/A, T/H, Sequencer	AD7923BRUZ	SMD 839-7740●	3.61	2.97	2.89	– –	– –
7924	ADI	16	TSSOP	1	0.8	4-Channel, 1MSPS, S/A, T/H, Sequencer	AD7924BRUZ	SMD 839-7759●	5.62	4.59	3.87	– –	– –
7927	ADI	20	TSSOP	1	0.8	8-Channel, 200KSPS, S/A. T/H, Sequencer	AD7927BRUZ	SMD 158-1944●	4.97	3.51	2.83	– –	– –
7928	ADI	8	TSSOP	1–	0.8–	8-Channel, 1MSPS, S/A. T/H, Sequencer	AD7928BRUZ	SMD 158-1945●	8.45	5.98	4.82	– –	– –
7934	ADI	28	TSSOP	1	0.525	4-Channel, 1.5 MSPS, 12-Bit, Parallel ADC With a Sequencer	AD7934BRUZ	SMD 945-3040●	11.24	9.38	7.51	– –	– –
7934	ADI	28	TSSOP	1	1.6	4-Channel, 625KSPS, MC, P, R, S/A, T/H	AD7934BRUZ-6	SMD 107-8321●	6.30	5.26	4.49	– –	– –
7938	ADI	32	LFCSP	1	0.666	8-Channel, 1.5MSPS, MC, P, R, S/A, T/H	AD7938BCPZ	SMD 107-8317●	7.43	6.22	5.22	– –	– –
7938	ADI	32	LFCSP	1	1.6	8-Channel, 625KSPS, MC, P, R, S/A, T/H	AD7938BCPZ-6	SMD 107-8315●	7.15	5.98	5.03	– –	– –
7938	ADI	32	TQFP	1	0.666	8-Channel, 1.5MSPS, MC, P, R, S/A, T/H	AD7938BSUZ	SMD 107-8319●	12.07	10.10	8.48	– –	– –
7938	ADI	32	TQFP	1	1.6	8-Channel, 625KSPS, MC, P, R, S/A, T/H	AD7938BSUZ-6	SMD 107-8316●	6.63	5.55	4.76	– –	– –
7991	ADI	8	SOT-23	0.5	1	12Bit ADC 4 Channel with I2C-Compatible Interface	AD7991YRJZ-0500RL7	NEW SMD 160-7235●	5.22	4.18	3.81	3.48	3.00
7992	ADI	10	MSOP	1	2	2-Channel, S, S/A, T/H	AD7992BRMZ-0	SMD 107-8311●	4.12	3.44	2.94	– –	– –
7992	ADI	10	MSOP	1	2	2-Channel, S, S/A, T/H	AD7992BRMZ-1	SMD 107-8312●	4.79	4.00	3.42	– –	– –
7994	ADI	16	TSSOP	1	2	4-Channel, S, S/A, T/H	AD7994BRUZ-0	SMD 107-8307●	4.47	3.72	3.18	– –	– –
7994	ADI	16	TSSOP	1	2	4-Channel, S, S/A, T/H	AD7994BRUZ-1	SMD 107-8308●	4.82	4.01	3.44	– –	– –
7998	ADI	20	TSSOP	1	2	8-Channel, S, S/A, T/H	AD7998BRUZ-0	SMD 107-8302●	4.82	4.01	3.44	– –	– –
7998	ADI	20	TSSOP	1	2	8-Channel, S, S/A, T/H	AD7998BRUZ-1	SMD 107-8303●	7.90	5.42	4.37	– –	– –
8137	ADI	8	LFCSP			Low Power 12-Bit Differential ADC Driver	AD8137YCPZ-R2	SMD 107-8298●	1.86	1.66	1.52	– –	– –
8137	ADI	8	SOIC			Low Power Differential ADC Driver.	AD8137YRZ	SMD 839-7856●	2.19	1.78	1.32	– –	– –
8504	TI	28	SOIC	0.45	2.2	12 Bit AnaLog to Digital Converter	ADS8504IBDWG4	SMD 118-0107●	11.67	10.35	9.35	9.10	8.86
9220	ADI	28	SOIC			12-Bit 10MSPS A/D Converter	AD9220ARZ	NEW SMD 165-1241●	9.22	8.20	6.70	6.15	5.90
9224	ADI	28	SSOP			12-Bit 40MSPS A/D Converter	AD9224ARSZ	NEW SMD 165-1243●	18.38	16.32	13.36	12.25	11.73
9765	ADI	48	LQFP			12Bit 125MSPS A/D Converter	AD9765ASTZ	NEW SMD 165-1245●	18.29	14.22	11.63	10.67	10.23
9222	ADI	64	LFCSP	0.3		Octal, 12-Bit, 40/50 MSPS Serial LVDS 1.8 V A/D Converter	AD9222BCPZ-50	NEW SMD 130-6153●	63.54	53.17	48.52	– –	– –
9228	ADI	48	LFCSP	0.4		Quad 12-Bit, 40 MSPS Serial LVDS 1.8 V A/D Converter	AD9228BCPZ-40	SMD 127-4207●	22.98	19.80	19.25	18.74	18.24
9229	ADI	48	LFCSP	0.6	0.02	4-Channel, 50MSPS, R, S, S/H, T/H	AD9229BCPZ-50	SMD 107-8254●	35.28	29.52	25.30	– –	– –
9235	ADI	32	LFCSP	0.7		65 MSPS, P, S/H.	AD9235BCPZ-65	SMD 143-8559●	16.38	13.71	11.76	– –	– –
9235	ADI	28	TSSOP	0.5		40 MSPS, P, S/H.	AD9235BRUZ-40	SMD 143-8560●	13.88	10.71	9.09	– –	– –
9235	ADI	28	TSSOP	0.7		65 MSPS, P, S/H.	AD9235BRUZ-65	SMD 143-8561●	18.97	15.19	13.49	– –	– –
9237	ADI	32	LFCSP	1.2	0.05	20MSPS, P, R, S/H	AD9237BCPZ-20	SMD 107-8250●	9.30	7.77	7.09	– –	– –
9237	ADI	32	LFCSP	1.2	0.025	40MSPS, P, R, S/H	AD9237BCPZ-40	SMD 107-8251●	10.82	9.03	7.76	– –	– –
9237	ADI	32	LFCSP	1.2	0.01538	65MSPS, P, R, S/H	AD9237BCPZ-65	SMD 107-8253●	19.68	16.48	13.80	– –	– –
9238	ADI	64	LQFP	0.5		Dual 40 MSPS, P, S/H, C.	AD9238BSTZ-40	SMD 143-8562●	18.97	15.19	13.49	– –	– –
9238	ADI	64	LQFP	0.35		2-Channel, 3V, 65MSPS, C, R, S/H	AD9238BSTZ-65	SMD 158-1964●	28.21	23.29	20.69	– –	– –
9430	ADI	100	TQFP	0.5		170 MSPS, P, T/H, C, LVDS	AD9430BSVZ-170	SMD 143-8564●	62.45	50.00	44.41	43.55	40.76
9432	ADI	52	LQFP	0.5		105 MSPS, P, T/H, R, C	AD9432BSTZ-105	SMD 143-8565●	51.31	41.07	36.48	35.78	33.48
9432	ADI	52	LQFP	0.5		105 MSPS, P, T/H, R, C	AD9432BSTZ-80	SMD 143-8567●	41.31	33.07	29.37	28.81	26.96
9706	ADI	32	LFCSP	0.08		12 Bit ,175 MSPS TxDAC® D/A Converters.	AD9706BCPZ	SMD 130-6149●	10.45	8.06	6.84	6.55	6.13
12010	NSC	32	LQFP			12 Bit ADC, 10 MSPS	ADC12010CIVY	SMD 128-6728●	8.26	6.87	5.42	4.73	4.54
12020	NSC	32	LQFP			12 Bit ADC, 20 MSPS	ADC12020CIVY	SMD 128-6731●	12.09	10.05	7.93	6.94	6.63

RL Re-reeling available

A/D and D/A Converters - continued

Mftr.	Pins	Pkg	Linearity Error ± LSB	Conversion Time ± ½ LSB, µs	Features	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
12038NSC	28	SOIC			Self Calibrating 12Bit Serial I/O ADC	ADC12038CIWM/NOPB	NEW SMC 167-3980	9.20	6.57	4.79	3.96	3.54
12138NSC	28	DIP	0.5	8.8	8-Channel, S, S/A, S/H	ADC12138CIN	949-3824	6.91	5.66	5.19	5.06	4.74
97593NSC	128	PQFP			Dual ADC Digital Tuner AGC	LM97593VH	NEW SMC 166-7421	65.75	51.13	41.84	35.40	32.88
13-Bit A/D												
3221 MCHIP	5	SOT-23A	0.75	8.96	C, S , S/A, S/H	MCP3221A5T-I/OT	SMC 143-9734	1.57	1.12	0.80	– –	– –
3301 MCHIP					13-Bit Differential Input ADC	MCP3301-BI/SN	NEW 162-7179	2.45	1.85	1.46	– –	– –
3301 MCHIP	8	SOIC	1		100kSPS, S/A, MC	MCP3301-CI/SN	SMC 143-9392	1.66	1.19	0.94	– –	– –
3301 MCHIP	8	DIP	1	10	13-Bit ADC, 1Ch	MCP3301-CI/P	133-2099	1.55	1.29	0.86	– –	– –
3302 MCHIP	14	PDIP	1		4-ch or 2 differential ch, 100kSPS, S/A	MCP3302-CI/P	143-9393	2.71	1.56	1.35	– –	– –
3302 MCHIP	14	SOIC	1		4-ch or 2 differential ch, 100kSPS, S/A	MCP3302-CI/SL	SMC 143-9394	2.71	1.56	1.35	– –	– –
3304 MCHIP	16	PDIP	1		8-ch or 4 differential ch, 100kSPS, S/A	MCP3304-CI/P	143-9395	2.98	1.73	1.50	– –	– –
3304 MCHIP	16	SOIC	1		8-ch or 4 differential ch, 100kSPS, S/A	MCP3304-CI/SL	SMC 143-9397	2.98	1.73	1.50	– –	– –

Key to Features: C = CMOS, D/B = Double-Buffered, L = Latches, M = Multiplying, MC = Microprocessor Compatible, MP = Micropower, P = Parallel O/P, R = Internal Reference, R2R = Rail-to-Rail output, S = Serial O/P, S/A = Successive Approximation, S/H = Sample and Hold, T = Temp. Sensor, T/H = Track and Hold, V = Voltage O/P

414037

Mftr.	Pins	Pkg	Linearity Error ± LSB	Conversion Time ± ½ LSB, µs	Features	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
14-Bit A/D												
14 NSC	60	LLP			Dual 14-Bit, 105 MSPS A/D Converter with CMOS Outputs	ADC14DC105CISQE	NEW SMD 167-9652	79.94	66.62	57.10	– –	– –
14 NSC	60	LLP			Dual 14Bit 80MSPS ADC with Serial LVDS O/P	ADC14DS080CISQ/NOPB	NEW SMD 167-3966	101.42	72.45	52.83	43.72	39.01
14 NSC	32	LLP			14Bit 105 MSPS ADC	ADC14C105CISQE/NOPB	NEW SMD 167-3963	115.66	82.62	60.24	49.86	44.49
105 NSC	32	LLP	0.5	0.5	14-Bit, 105 MSPS A/D Converter from the PowerWise® Family	ADC14C105CISQ	SMD 143-3178	68.76	55.00	45.83	38.98	35.60
121 MAX	16	SOIC	2	2.9	14-BitADC With DSP	MAX121CWE+	SMD 972-5334	23.41	19.12	15.32	– –	– –
155 NSC	48	LLP	0.55	0.55	14-Bit, 155 MSPS, 1.1 GHz Bandwidth A/D Converter with LVDS Outputs from the PowerWise® Family	ADC14V155CISQ	SMD 147-1252	91.22	76.78	62.03	57.64	56.15
367 ADI	24	TSSOP	0.25	0.61	1 MSPS, Dual 2-Channel. C. S. S/A. T/H	AD7367BRUZ	SMD 143-8838	10.32	8.64	7.40	– –	– –
679 ADI	28	DIP	2	6.3	C, P, S, S/H	AD679JNZ	107-9326	37.70	34.31	31.48	29.08	– –
748 ADI	48	LQFP	0.5	0.3	3 MSPS, S/A, P, T/H, R	AD7484BSTZ	SMD 143-8350	18.97	15.19	13.49	– –	– –
1146 MAX	20	TSSOP	2	7.2	14-Bit, 4-Channel, Serial ADC	MAX1146BCUP+	SMD 143-3185	15.83	11.19	9.41	8.19	7.54
1147 MAX	20	TSSOP	2	7.2	4 Channel True-Differential Serial 14-Bit ADCs	MAX1147BCUP+	SMD 143-3186	15.83	11.19	9.41	7.93	7.54
1147 MAX	20	TSSOP	2	7.2	4 Channel True-Differential Serial 14-Bit ADCs	MAX1147BEUP+	SMD 143-3187	18.56	13.10	11.02	9.29	8.84
1148 MAX	20	TSSOP	2	7.2	8 Channel True-Differential Serial 14-Bit ADCs	MAX1148BCUP+	SMD 143-3188	17.41	12.29	10.34	8.71	8.29
1148 MAX	20	TSSOP	2	7.2	8 Channel True-Differential Serial 14-Bit ADCs	MAX1148BEUP+	SMD 143-3189	19.20	13.56	11.40	9.60	9.14
1149 MAX	20	TSSOP	2	7.2	Multichannel True-Differential Serial 14-Bit ADCs	MAX1149BCUP+	SMD 143-3190	17.41	12.29	10.34	8.71	8.29
1149 MAX	20	TSSOP	2	7.2	Multichannel True-Differential Serial 14-Bit ADCs	MAX1149BEUP+	SMD 143-3191	20.42	14.43	12.13	10.22	9.72
1403 TI	48	HTQFP	1.5		14-Bit, 3 Msps ADC Single Ch., Diff. Input, Dsp/Up If, PgmAble Gain Amp, Internal S&H	THS1403QPHP	SMD 123-6503	14.43	11.92	10.59	10.38	9.72
1418 LT	28	DIP	0.5	3.4	ADC, 14-Bit, 200ksps, with Serial and Parallel I/O	LTC1418ACN#PBF	133-0840	15.49	11.28	9.76	9.41	9.09
1418 LT	28	DIP	0.5	3.4	ADC, 14-Bit	LTC1418CN#PBF	133-0841	15.82	8.95	6.46	6.30	6.14
1419 LT	28	SSOP	0.8	1.15	800KSPS, S/H, P, Shutdown	LTC1419CG#PBF	SMD 956-1137	30.70	17.36	12.51	– –	– –
3541 TI	8	SOIC	1	2.67	14-Bit A-D Converter, 200KSPS	TLC3541ID	SMD 845-4230	7.43	5.69	4.83	– –	– –
3544 TI	20	SOIC	1	2.895	14-Bit A-D Converter, 200KSPS	TLC3544IDW	SMD 845-4248	9.19	7.34	6.23	– –	– –
3548 TI	24	SOIC	1	2.895	14-Bit A-D Converter, 200KSPS	TLC3548IDW	SMD 845-4256	10.17	7.80	6.61	– –	– –
3578 TI	24	SOIC	1	2.895	14-Bit A-D Converter, 200KSPS	TLC3578IDW	SMD 845-4272	12.84	9.85	8.35	– –	– –
5424 TI	52	QFP	1.5		14-Bit Bipolar ADC, 105 MSPS	ADS5424IPJYG4	SMD 139-0665	91.85	73.48	60.47	50.40	49.11
5433 TI	52	QFP	1.5		14-Bi ADC, 80 MSPS	ADS5433IPJYG3	SMD 139-0666	78.72	62.98	51.83	43.20	42.09
5544 MAX	8	SOIC	1		Serial-Input, Voltage-Output, 14-Bit DAC	MAX5544CSA+	SMD 145-5630	9.62	8.60	7.70	6.88	4.53
5544 MAX	8	SOIC	1		Serial-Input, Voltage-Output, 14-Bit DAC	MAX5544ESA+	SMD 145-5632	9.42	8.43	7.54	6.74	4.44
5545 TI	48	QFN	3		14-Bit ADC With User-Selectable DDR LVDS or CMOS Parallel Outputs, 170MSPS	ADS5545IRGZTG4	SMD 139-0663	95.39	78.35	65.65	56.25	54.80
5546 TI	48	QFN	3		14 Bit, 190 MSPS ADC with DDR LVDS/CMOS Outputs	ADS5546IRGZTG4	SMD 132-9570	102.19	78.63	72.11	– –	– –
5547 TI	48	QFN	3.5		14-Bit ADC with LVDS/CMOS Outputs, 210MSPS	ADS5547IRGZTG4	SMD 139-0664	142.10	113.68	93.56	77.98	75.98
5553 TI	80	HTQFP	2.5	65	65MSPS, C, P, R, S/H	ADS5553IPFPG4	SMD 996-9004	51.14	45.33	40.71	36.94	33.81
6149 TI	48	QFN			Single 14Bit 250 MSPS ADC	ADS6149IRGZT	NEW SMD 167-9759	141.34	128.49	113.98	– –	– –
6442 TI	64	QFN	2		14-Bit Quad ADC with serialized LVDS output, 65MSPS	ADS6442IRGCT	SMD 139-0656	109.06	87.26	71.82	61.55	59.54
6443 TI	64	QFN	4.5		14-Bit Quad ADC with serialized LVDS output, 80MSPS	ADS6443IRGCT	SMD 139-0657	116.86	93.49	76.94	65.95	63.78
6644 ADI	52	LQFP	0.25		40 MSPS, C, T/H, P	AD6644ASTZ-40	SMD 143-8341	50.54	40.45	35.93	35.24	32.98
6644 ADI	52	LQFP	0.25		65 MSPS, C, T/H, P	AD6644ASTZ-65	SMD 143-8342	67.82	54.30	48.23	47.30	44.27
6445 TI	64	QFN	5		14-Bit Quad ADC with serialized LVDS output, 125MSPS	ADS6445IRGCT	SMD 139-0659	216.98	173.59	142.88	122.46	118.44
6645 ADI	52	LQFP	0.5		80 MSPS, T/H, C, P	AD6645ASQZ-80	SMD 143-8343	69.08	55.29	49.11	48.16	45.07
7367 ADI	24	TSSOP	0.5	1.25	Dual, 500 kSPS, S. R. MC, T/H, C	AD7367BRUZ-5	SMD 149-3925	10.32	8.64	7.40	– –	– –
7657 ADI	64	LQFP		3.1	250 KSPS, 6-Channel, Simultaneous SAmpling, Bipolar, 14-Bit ADC	AD7657BSTZ	SMD 127-4232	13.97	13.68	13.30	12.94	12.60
7657 ADI	64	LQFP		3.1	250 KSPS, 6-Channel, Simultaneous SAmpling, Bipolar, 14-Bit ADC	AD7657YSTZ	SMD 127-4231	20.61	16.05	15.60	15.17	14.78
7856 ADI	24	DIP	2	3.5	8-Channel, C, MC, R, S, T/H, V	AD7856ANZ	107-9292	16.31	12.56	10.00	– –	– –
7871 ADI	28	DIP	0.5	12	C, MC, P, R, S, S/A, S/H	AD7871JNZ	107-9361	66.53	56.37	48.90	– –	– –
7872 ADI	16	PDIP	0.5	10	83 kSPS, S, C, S/A, T/H, R	AD7872JNZ	143-8549	44.51	35.92	31.90	– –	– –
7872 ADI	16	PDIP	0.5	10	83 kSPS, S, C, S/A, T/H, R	AD7872KNZ	143-8550	53.22	42.32	37.59	– –	– –
7899 ADI	28	SSOP	2	2.2	400 kSPS, S/A, T/H, R, P, MC	AD7899ARSZ-1	SMD 143-8556	15.66	12.53	11.13	– –	– –
7940 ADI	8	MSOP	1	8	100KSPS, MC, S/A, T/H	AD7940BRM	SMD 839-7783▲	8.36	5.93	4.78	– –	– –
7942 ADI	10	MSOP	0.4	2.2	14-Bit, 250 KSPS PulSAR Pseudo Differential ADC	AD7942BRMZ	SMD 111-7894	5.60	5.25	4.95	4.67	4.43
7946 ADI	10	MSOP	0.4	1.6	500 kSPS, S, S/A, T/H	AD7946BRMZ	SMD 143-8865	12.24	9.39	7.97	– –	– –
7951 ADI	48	LFCSP	1		14-Bit, 1 MSPS, Unipolar/Bipolar Programmable Input PulSAR® ADC	AD7951BCPZ	SMD 131-6442	16.15	13.08	11.62	11.40	10.66
7951 ADI	48	LFCSP	1		14-Bit, 1 MSPS, Unipolar/Bipolar Programmable Input PulSAR® ADC	AD7951BSTZ	SMD 131-6449	16.46	13.08	11.62	11.40	10.66
7952 ADI	48	LQFP	0.3	0.85	1 MSPS, S/A, P, S, C,	AD7952BSTZ	SMD 149-8674	12.81	12.47	11.62	– –	– –
9240 ADI	44	MQFP			14Bit 10MSPS A/D Converter	AD9240ASZ	NEW SMD 165-1251	27.67	24.60	20.12	18.45	17.67
9244 ADI	48	LQFP	0.7–	–	65MSPS, R. S/H	AD9244BSTZ-65	SMD 158-1965	38.96	32.15	28.58	– –	– –
9246 ADI	48	LFCSP	1.3		14-Bit, 105 MSPS, 1.8 V A/D Converter	AD9246BCPZ-105	SMD 127-4203	59.58	45.67	39.13	38.42	35.98
9246 ADI	48	LFCSP	1.5		14-Bit, 125 MSPS, 1.8 V A/D Converter	AD9246BCPZ-125	SMD 127-4202	72.32	55.45	52.42	51.00	49.66
9248 ADI	64	LQFP	2.7–	0.05	2-Channel, 20MSPS, P. R, S/H	AD9248BSTZ-20	SMD 107-8247	29.62	23.72	21.07	– –	– –
9248 ADI	64	LQFP	2.7	0.025–	2-Channel, 40MSPS, P, R, S/H	AD9248BSTZ-40	SMD 107-8248	37.53	30.05	26.69	– –	– –
9248 ADI	64	LQFP	2.8	0.01538	2-Channel, 65MSPS, P, R, S/H	AD9248BSTZ-65	SMD 107-8249	74.18	55.65	43.74	– –	– –
9254 ADI	48	LFCSP	0.4		14-Bit, 150 MSPS, 1.8 V Analog-to-Digital Converter	AD9254BCPZ-150	SMD 131-6446	57.06	47.11	41.85	41.05	38.41
9259 ADI	48	LFCSP	1.0		Quad 14-Bit, 50 MSPS A/D Converter	AD9259BCPZ-50	SMD 127-4201	71.55	56.89	50.53	49.56	46.38
14155 NSC	48	LLP			14 Bit ADC,155 MSPS Pipelined	ADC14155CISQ	SMD 128-6733	79.56	– –	– –	– –	– –

RL Re-reeling available

	Mftr.	Pins	Pkg	Linearity Error ± LSB	Conversion Time ± ½ LSB, µs	Features	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
16-Bit A/D													
161	NSC	10	MSOP			16Bit 50-250 kSPS Differential Input, MicroPower ADC	ADC161S626CIMM	NEW! SMD 166-7420●	8.51	6.62	5.42	4.58	4.25
500	MCHIP	16	DIP			A/D with integrator, zero crossing comparator and processor interface logic	TC500CPE	143-9733●	2.09	1.13	0.98	– –	– –
500	TS	16	DIP			Integrating Converter AnaLogue Processor. Resolution and conversion speed controllable through software	TC500ACPE	976-2663●	4.36	3.48	2.84	– –	– –
650	ADI	48	LQFP	6	1.5	570 kSPS, C, S, P, S/A	AD7650ASTZ	SMD 143-8845●	9.65	8.07	6.92	– –	– –
660	ADI	48	LQFP	3	2	100 kSPS, S, P, S/A	AD7660ASTZ	SMD 143-8846●	12.95	10.83	9.18	– –	– –
664	ADI	48	LQFP	2.5	1.5	570 kSPS, S, P, S/A	AD7664ASTZ	SMD 143-8847●	27.72	22.19	19.71	– –	– –
675	ADI	48	LQFP	1.5	1.25	100 kSPS, S, P, S/A	AD7675ASTZ	SMD 143-8848●	15.41	12.90	11.05	10.86	10.16
976	ADI	28	PDIP	3	8	100 kSPS, P, R, S/A	AD976ANZ	138-9157●	33.87	27.10	24.07	23.60	22.09
976	ADI	28	SOIC	3	8	100 kSPS, P, R, S/A	AD976ARZ	SMD 138-9158●	32.86	26.31	23.37	22.92	21.45
976	ADI	28	PDIP	2	8	100 kSPS, P, R, S/A	AD976BNZ	138-9159●	40.66	30.63	26.23	25.76	24.13
677	ADI	16	PDIP	1	10	100 kSPS, S, S/H	AD677JNZ	143-8348●	44.89	35.94	31.92	31.31	29.30
677	ADI	48	LQFP	1	0.75	1 MSPS, S, P, S/A	AD7677ASTZ	SMD 143-8849●	48.98	39.20	34.82	– –	– –
693	ADI	10	MSOP	0.25	1.6	500 kSPS, S, S/A	AD7693BRMZ	SMD 143-8850●	26.73	21.41	19.02	– –	– –
694	ADI	8	MSOP	4	3.2	250 kSPS, S, S/A, T/H	AD7694BRMZ	SMD 143-8851●	9.65	8.07	6.92	– –	– –
976	ADI	28	PDIP	3	3.8	200 kSPS, P, S/A, C, R	AD976AANZ	143-8568●	42.31	33.89	30.10	29.52	27.63
976	ADI	28	PDIP	2	3.8	200 kSPS, P, S/A, C, R	AD976ABNZ	143-8569●	52.92	42.36	37.62	36.90	34.53
976	ADI	28	SSOP	2		200 kSPS, P, S/A, C, R	AD976ABRSZ	SMD 143-8570●	51.38	41.12	36.53	35.82	33.52
977	ADI	28	SSOP	3	3.8	200 kSPS, S, S/A, R	AD977AARSZ	SMD 143-8571●	41.38	34.22	30.39	29.78	27.90
977	ADI	28	SSOP	2	3.8	200 kSPS, S, S/A, R	AD977ABRSZ	SMD 143-8572●	51.37	41.41	40.30	39.23	38.22
977	ADI	20	PDIP	3	7.6	100 kSPS, S, S/A, R	AD977CNZ	143-8573●	25.99	20.81	18.48	18.12	16.96
977	ADI	20	DIP	2	5	C, R, S, S/A	AD977AANZ	107-9310●	38.65	28.27	23.60	– –	– –
977	ADI	20	DIP	2	10	C, R, S, S/A	AD977ANZ	107-9312●	19.12	15.96	15.55	– –	– –
1100	TI	6	SOT-23	1	7.8	C, R, S	ADS1100A0IDBVT.	SMD 113-5959●	2.97	2.64	2.37	2.14	1.98
1100	TI	6	SOT-23	1		AD Converter, 16-bit	ADS1100A1IDBVT.	SMD 932-4062●	2.97	2.64	2.37	2.14	1.98
1100	TI	6	SOT-23	1		A-D Converter,16-Bit	ADS1100A2IDBVT.	SMD 120-6858●	2.97	2.64	2.37	2.14	1.98
1110	TI	6	SOT-23	1		A-D Converter,16-Bit, SigmA-Delta	ADS1110A0IDBVT..	SMD 120-6859●	3.20	2.83	2.54	2.31	2.11
1110	TI	6	SOT-23	1		A-D Converter,16-Bit, SigmA-Delta	ADS1110A1IDBVT.	SMD 120-6860●	3.20	2.83	2.54	2.31	2.11
1110	TI	6	SOT-23	1		A-D Converter,16-Bit, SigmA-Delta	ADS1110A2IDBVT.	SMD 120-6861●	3.20	2.83	2.54	2.31	2.11
1112	TI	10	MSOP	8	1	16-Bit 240SPS ADC, 2 CH. DIFF/3 Single-END Input, Low Power COMPLETE SYSTEM IN MSOP-10	ADS1112IDGST.	SMD 123-4811●	4.37	3.87	3.49	3.15	2.90
1174	TI	64	HTQFP			16Bit Quad ADC with Simultaneous Sampling	ADS1174IPAPT	NEW! SMD 160-3389●	14.19	12.91	11.83	10.92	10.14
1178	TI	64	HTQFP			16Bit Octal ADC with Simultaneous Sampling	ADS1178IPAPT	NEW! SMD 160-3390●	22.74	20.68	18.95	17.49	16.25
1303	MAX	20	TSSOP	1		4 Channel Multirange Inputs Serial 16-Bit ADCs	MAX1303BEUP+	SMD 143-3196●	65.10	45.96	38.64	33.66	30.98
1407	MAX	28	SSOP		1.6	16Bit 4 Channel DAS with 1.25V Internal Reference & RTC	MAX1407CAI+	NEW! SMD 160-9601●	11.82	10.58	9.04	8.01	7.10
1601	TI	48	TQFP	0.75	800	1.25MSPS, C, Delta SigmA	ADS1601IPFBT	SMD 996-8881●	12.41	12.06	11.74	11.43	11.14
1602	TI	48	TQFP	0.75	400	2.5MSPS, C, Delta SigmA	ADS1602IPFBT	SMD 996-8903●	37.95	36.06	34.26	32.54	30.91
1605	LT	28	DIP	2.0	8	5V, 100KSPS, MC, P, S/A, S/H	LTC1605CN#PBF	956-1307●	34.13	19.30	14.29	– –	– –
1605	TI	64	HTQFP	0.25		16Bit Single ADC Programmable 5/10Msps Data Rate	ADS1605IPAPT..	NEW! SMD 160-3392●	21.31	19.37	17.76	16.39	15.21
1606	TI	64	HTQFP	0.25		16Bit Single ADC Programmable 5/10Msps Data Rate Adjustable FIFO O/P Data	ADS1606IPAPT.	NEW! SMD 160-3393●	22.10	20.08	18.41	17.00	15.78
1608	LT	36	SSOP			16Bit 500kSPS ADC with Shutdown.	LTC1608CG#PBF	NEW! SMD 166-3650●	32.04	24.83	19.86	16.55	14.82
1610	TI	64	HTQFP	0.5		16Bit Single ADC 10Msps	ADS1610IPAPT.	NEW! SMD 160-3394●	28.44	25.85	23.70	21.88	20.32
1864	LT	8	MSOP	8	7	ADC, 16-Bit, 1-Channel 150ksps Sample Rate	LTC1864LCMS8#PBF	SMD 133-0886●	10.68	6.94	6.05	5.60	5.19
1864	LT	8	MSOP			Single Channel 16Bit 250kSPS ADC.	LTC1864CMS8#PBF	NEW! SMD 166-3672●	11.79	9.14	7.31	6.10	5.46
1865	LT	8	SOIC			Dual Channel 16Bit 250kSPS ADC	LTC1865CS8#PBF	NEW! SMD 166-3673●	11.79	9.14	7.31	6.10	5.46
1865	LT	10	MSOP			Dual Channel 16Bit 150kSPS ADC	LTC1865LACMS#PBF	NEW! SMD 166-3674●	14.07	10.91	8.73	7.28	6.52
1865	LT	10	MSOP			Dual Channel 16Bit 150kSPS ADC	LTC1865LAIMS#PBF	NEW! SMD 166-3675●	14.64	11.35	9.08	7.57	6.78
1865	LT	10	MSOP			Dual Channel 16Bit 150kSPS ADC	LTC1865LCMS#PBF	NEW! SMD 166-3676●	12.25	9.49	7.59	6.33	5.66
2209	LTC	64	QFN			16 Bit ADC 160MSPS	LTC2209CUP#PBF	NEW! SMD 160-9777●	101.75	91.57	83.25	73.85	65.42
2209	LTC	64	QFN			16 Bit ADC 160MSPS	LTC2209IUP#PBF	NEW! SMD 160-9778●	122.09	99.89	91.57	84.52	78.49
2217	LTC	64	QFN			16 Bit ADC Single Channel 105MSPS	LTC2217CUP#PBF	NEW! SMD 160-9775●	101.40	82.96	76.05	70.20	65.19
2217	LTC	64	QFN			16 Bit ADC Single Channel 105MSPS	LTC2217IUP#PBF	NEW! SMD 160-9776●	109.51	99.55	91.25	84.24	78.22
2436	LT	16	SSOP			16 Bit Dual Channel Differential Input ADC	LTC2436-1IGN#PBF	NEW! SMD 166-3686●	5.04	3.90	3.12	2.60	2.33
2451	LTC	8	DFN			16-Bit Ultra-Tiny Differential ADC with I2C Interface	LTC2451CDDB#PBF	NEW! SMD 160-9761●	1.92	1.73	1.46	1.35	1.16
2451	LTC	8	DFN			16-Bit Ultra-Tiny Differential ADC with SPI Interface	LTC2451IDDB#PBF	NEW! SMD 160-9763●	2.27	2.04	1.74	1.59	1.37
2452	LTC	8	DFN			16-Bit Ultra-Tiny Differential ADC with SPI Interface	LTC2452CDDB#TRMPBF	NEW! SMD 160-9759●	2.08	1.86	1.58	1.45	1.25
2452	LTC	8	DFN			16-Bit Ultra-Tiny Differential ADC with SPI Interface	LTC2452IDDB#TRMPBF	NEW! SMD 160-9760●	2.47	2.23	1.90	1.75	1.49
3425	MCHIP	6	SOT-23	–	–	Programmable 16,14,12-Bit ADC with I2C Interface and On-Board 2.048V Reference	MCP3425A0T-E/CH	NEW! SMD 157-8433●	2.13	1.61	1.27	– –	– –
3548	TI	24	TSSOP			14Bits ADC 200kSPS	TLC3548IPW.	NEW! SMD 164-8618●	10.46	8.36	6.97	6.30	6.13
4541	TI	8	SOIC	2.5	2.94	C, R, S	TLC4541ID	SMD 110-3111●	10.17	7.80	6.61	– –	– –
4541	TI	8	SOIC	2.5	2.94	C, R, S, Psuedo Differential Input	TLC4545ID	SMD 110-3112●	10.51	8.42	6.60	– –	– –
4541	TI	8	SOIC	2.5	2.94	C, R, S, Psuedo Differential Input	TLC4545ID.	SMD 501-2090	6.06	4.85	3.80	– –	– –
5361	ADI	56	LFCSP	1		14 Bit 16 Channel DAC	AD5361BCPZ	NEW! SMD 158-9548●	90.20	65.76	57.39	48.57	43.85
5361	ADI	52	LQFP	1		14 Bit 16 Channel DAC	AD5361BSTZ	NEW! SMD 158-9549●	90.20	65.76	57.39	48.57	43.85
5362	ADI	56	LFCSP	4		16 Bit DAC Serial I/P 8 Voltage O/P	AD5362BCPZ	NEW! SMD 158-9545●	78.90	57.54	50.21	42.49	38.35
5362	ADI	52	LQFP	4		16 Bit DAC Serial I/P 8 Voltage O/P	AD5362BSTZ	NEW! SMD 158-9546●	78.90	57.54	50.21	42.49	38.35
5500	TI	64	HTQFP			14Bit ADC 125MSPS	ADS5500IPAP.	NEW! SMD 164-8598●	63.60	52.43	48.20	45.02	43.87
5501	CIR	20	SOIC			16 Bit Non-aliasing CMOS Delta-Sigma ADC	CS5501-BSZ	NEW! SMD 155-7467●	21.16	18.80	15.39	14.11	12.09
5505	CIR	24	SOIC			16 Bit 4 Channel ADC	CS5505-ASZ	NEW! SMD 155-7460●	20.74	18.43	15.08	13.82	11.85
5507	CIR	20	SOIC			16 Bit CMOS Single Channel ADC	CS5507-ASZ	NEW! SMD 155-7465●	15.25	13.72	12.48	11.44	9.80
5511	CIR	8	SOIC			16 Bit 4th OrderDelta Sigma ADC with Ocillator	CS5511-ASZ	NEW! SMD 155-7466●	3.78	3.37	2.75	2.52	2.16
5581	CIR	24	SSOP			16Bit ADC 200kSPS	CS5581-ISZ	NEW! SMD 165-9351●	11.63	9.04	7.40	6.79	6.26
7610	ADI	48	LQFP	1.5		16-Bit, 250 kSPS, Unipolar/Bipolar Programmable Input PulSAR® ADC	AD7610BSTZ	SMD 131-6445●	19.31	15.34	13.63	13.37	12.51
7612	ADI	48	LFCSP	1.5		16-Bit, 750 kSPS, Unipolar/Bipolar Programmable Input PulSAR® ADC	AD7612BCPZ	SMD 130-6152●	26.36	21.77	19.33	18.97	17.74
7621	ADI	48	LQFP	1	0.333	3MSPS, P, R, S, S/A	AD7621ASTZ	SMD 107-8341●	44.82	35.63	31.65	– –	– –
7622	ADI	48	LQFP	1.5	485	16-Bit, 1.5 LSB INL, 2 MSPS PulSAR ADC	AD7622BSTZ	SMD 127-4240●	40.32	30.89	26.47	25.99	24.36
7623	ADI	48	LFCSP	1	560	16-Bit, 1.33 MSPS PulSAR A/D Converter	AD7623ACPZ	SMD 111-7899●	19.77	16.51	14.82	13.89	13.01
7623	ADI	48	LQFP	1	560	16-Bit, 1.33 MSPS PulSAR A/D Converter	AD7623ASTZ	SMD 111-7898●	31.13	25.69	25.01	24.35	23.73
7651	ADI	48	LQFP	6	1.25	5V, 100KSPS, C, P, R, S, S/A, S/H	AD7651ASTZ	SMD 158-1929●	10.36	8.26	7.00	– –	– –
7653	ADI	48	LQFP	6	1	5V, 1MSPS, C, P, R, S, S/A, S/H	AD7653AST	SMD 839-7376▲	16.24	13.60	11.65	– –	– –
7654	ADI	48	LQFP	3.5	1.75	2-Channel, 5V, 500KSPS, P, S, S/A, S/H, T/H	AD7654ASTZ	SMD 158-1930●	19.16	15.82	14.06	– –	– –
7655	ADI	48	LQFP	6	2	2-Channel, 5V, 1MSPS, S/A, T/H	AD7655ASTZ	SMD 945-3059●	14.14	11.24	9.99	– –	– –
7656	ADI	64	LQFP		3.1	250 KSPS, 6-Channel, Simultaneous SAmpling Bipolar 16-Bit A/D Converter	AD7656BSTZ	SMD 127-4234●	27.05	21.51	19.10	18.74	17.53
7656	ADI	64	LQFP		3.1	250 KSPS, 6-Channel, Simultaneous SAmpling Bipolar 16-Bit A/D Converter	AD7656YSTZ	SMD 127-4233●	27.89	21.37	18.31	16.90	16.85
7661	ADI	48	LQFP	2.5	1.25	5V, 100KSPS, P, R, S, S/A	AD7661ASTZ	SMD 158-1931●	12.46	9.93	8.41	– –	– –
7665	ADI	48	LQFP	2.5	0.75	570 kSPS, P, S, C, S/A	AD7665ASTZ	SMD 143-8534●	28.22	22.59	20.07	19.68	18.42
7667	ADI	48	LQFP	2	1	5V, 1MSPS, P, R, S, S/A	AD7667ASTZ	SMD 158-1932●	29.20	24.11	21.42	– –	– –
7680	ADI	8	MSOP	4	8	100KSPS, R, S/A, T/H	AD7680ARMZ	SMD 158-1935●	7.43	6.21	5.12	– –	– –
16	ADI	8	MSOP	4	8	100KSPS, R, S/A, T/H	AD7680BRMZ	SMD 158-1936●	8.35	6.65	5.63	– –	– –
7683	ADI	8	MSOP	1	10	100KSPS, S, S/A, T/H	AD7683BRMZ	SMD 107-8339●	10.75	8.29	7.03	– –	– –
7683	ADI	8	MSOP	3		100 kSPS, S, S/A, T/H	AD7683ARMZ	SMD 138-9155●	9.49	7.33	6.22	5.96	5.58
7684	ADI	8	MSOP	1	10	100KSPS, S, S/A, T/H	AD7684BRMZ	SMD 107-8338●	9.92	8.29	7.03	– –	– –
7685	ADI	10	MSOP	1	4	250KSPS, S, S/A, T/H	AD7685BRMZ	SMD 107-8337●	13.22	10.20	8.65	– –	– –
7686	ADI	10	MSOP	1	2	500KSPS, S, S/A, T/H	AD7686BRMZ	SMD 107-8335●	17.97	14.28	12.69	– –	– –
7686	ADI	10	MSOP	0.6	2	500KSPS, S, S/A, T/H	AD7686CRMZ	SMD 107-8336●	17.96	15.00	12.84	– –	– –

RL Re-reeling available

A/D and D/A Converters - continued

	Mftr.	Pins	Pkg	Linearity Error ± LSB	Conversion Time ± ½ LSB, µs	Features	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
16-Bit A/D													
7687	ADI	10	MSOP	0.4	4	250KSPS, S, S/A, T/H	AD7687BRMZ	SMD 107-8334	11.51	9.63	8.23	– –	– –
7688	ADI	10	MSOP	0.4	1.6	500 KSPS 16- Bit Differential PulSAR® A/D Converter in µSOIC/QFN	AD7688BRMZ	SMD 111-7897	22.21	17.79	15.80	15.50	14.50
7701	ADI	20	SOIC			16Bit 4kSPS A/D Converter	AD7701ARZ	NEW SMD 165-1253	22.25	19.77	16.18	14.83	12.71
7701	ADI	20	DIP	0.125	250	C, MC, S, S/H, SigmA Delta	AD7701ANZ	960-4430	20.79	16.53	14.69	– –	– –
7701	ADI	20	PDIP	0.125		4 kSPS, S, C, MC	AD7701BNZ	143-8536	27.20	22.47	19.97	– –	– –
7705	ADI	16	DIP		1	2-Channel, C, R, S, SigmA Delta	AD7705BNZ	960-3620	7.51	5.76	4.89	– –	– –
7706	ADI	16	DIP		1	3-Channel, C, R, S, SigmA Delta	AD7706BNZ	107-9294	7.51	5.76	4.89	– –	– –
7707	ADI	20	SOIC		1	3-Channel, C, MC, S, SigmA Delta	AD7707BRZ	SMD 960-4251	10.12	5.56	4.38	– –	– –
7708	ADI	28	TSSOP			16Bit 1.365kSPS A/D Converter	AD7708BRUZ	NEW SMD 165-1254	6.92	5.39	4.40	4.04	3.88
7708	ADI	28	SOIC			1.365 kSPS, 8-/10-Channel, S	AD7708BRZ	SMD 143-8853	8.45	5.76	4.65	– –	– –
7709	ADI	28	TSSOP			105 SPS, S	AD7709BRUZ	SMD 143-8854	7.88	6.05	5.13	– –	– –
7715	ADI	16	SOIC			16Bit 0.5kSPS A/D Converter	AD7715ARZ-5	NEW SMD 165-1252	9.85	7.67	6.27	5.75	5.50
7715	ADI	16	PDIP			500 SPS. S. MC. C	AD7715ANZ-5	143-8543	10.22	7.89	6.69	– –	– –
7715	ADI	16	DIP		2.5	3V, C, R, S, SigmA Delta	AD7715ANZ-3	107-9423	8.34	6.65	5.70	– –	– –
7790	ADI	10	MSOP			120 SPS, S	AD7790BRMZ	SMD 143-8545	6.21	4.26	3.44	– –	– –
7791	ADI	10	MSOP			S	AD7791BRMZ	SMD 158-1942	6.69	4.81	3.87	– –	– –
7792	ADI	16	TSSOP		2000	2-Channel, 500SPS, R, S, SigmA-Delta	AD7792BRUZ	SMD 107-8330	8.41	5.77	4.66	– –	– –
7795	ADI	24	TSSOP			6-Channel, Low Noise, Low Power, 16-Bit SigmA-Delta A/D Converter With On-Chip In-Amp and Reference	AD7795BRUZ	SMD 127-4227	7.80	5.99	5.08	4.87	4.56
7796	ADI	16	TSSOP			Low Power, 16 Bit Sigma-Delta ADC	AD7796BRUZ	SMD 130-6150	5.83	4.00	3.23	3.11	2.90
7798	ADI	16	TSSOP		2000	3-Channel, 500SPS, S, SigmA-Delta	AD7798BRUZ	SMD 107-8328	8.01	5.49	4.43	– –	– –
7805	TI	28	PDIP	4	8	16 Bit 100KHz SAmpling A-D Converter	ADS7805P	121-2283	29.08	23.12	20.54	– –	– –
7805	TI	28	SOIC	3	10	16 Bit ADC	ADS7805UE4	SMD 123-4653	31.48	24.76	20.20	19.52	19.02
7807	BB	28	DIP	1.5	25	C, L, P, R, S, S/A, S/H	ADS7807P	109-7549 ▲	52.52	42.03	35.02	– –	– –
7807	TI	28	PDIP	1.5	20	16 Bit, 40 KHz SAmpling A-D Converter	ADS7807PB	121-2284	45.78	36.39	32.33	– –	– –
7807	TI	28	SOIC	1.5	25	Low-Power 16-Bit SAmpling Cmos AnaLog-To-Digital Converter	ADS7807UBE4	SMD 123-4874	50.39	38.43	30.50	29.69	28.93
7807	TI	28	SOIC	1.5	20	16-Bit ADC LO Power	ADS7807UE4	SMD 120-2021	40.53	31.91	26.04	– –	– –
7809	TI	20	SOIC	2	8	16-Bit, 100KHz SAmpling A-D Converter	ADS7809UBE4	SMD 120-6864	38.37	30.17	24.60	– –	– –
7809	TI	20	SOIC	1.5	10	C, L, R, S, S/A, S/H	ADS7809UE4	SMD 121-4386	28.40	22.58	20.06	– –	– –
7811	TI	28	SOIC	2	–	16-Bit 250kHz Sampling CMOS Analog-to-Digital Converter	ADS7811U	SMD 145-9270	43.14	37.26	34.15	33.21	32.36
7813	TI	16	SOIC	2	20	Low-Power, Serial 16-Bit Sampling Analog-To-Digital Converter	ADS7813UB	SMD 145-9277	30.55	26.39	23.66	23.04	22.45
7813	TI	16	PDIP	3	20	A-D Converter.16-Bit 35MW Serial Output	ADS7813P	121-2285	32.66	26.09	21.28	– –	– –
7813	TI	16	SOIC	3	20	A-D Converter. 16-Bit 35mW Serial Output	ADS7813UE4	SMD 120-6866	31.08	24.82	20.24	– –	– –
7815	TI	28	SOIC	2	3.3	A-D Converter, 16-Bit	ADS7815UE4	SMD 120-6867	31.08	24.82	20.24	– –	– –
7825	BB	28	SOIC	1	250	4-Channel. C. L. P. S. R. S/A. S/H	ADS7825U	SMD 109-7512	39.50	31.40	27.89	– –	– –
7825	TI	28	PDIP	1	20	4 Channel, 16-Bit Sampling CMOS A/D Converter	ADS7825PB	145-9283	42.37	36.60	32.81	31.96	31.14
7825	TI	28	SOIC	2	25	4 CHANNEL, 16-Bit SAmpLING CMOS A/D CONVERTER	ADS7825UBE4	SMD 123-4783	54.40	41.37	33.74	30.89	29.34
7980	ADI	10	MSOP	0.6		16Bit 1Msps PulSAR ADC Integral Nonlinearity ±2.5 LSB Max	AD7980ARMZ	NEW SMD 160-7233	18.47	14.78	13.44	12.32	10.95
7980	ADI	10	MSOP	0.6		16Bit 1Msps PulSAR ADC Integral Nonlinearity ±1.25 LSB Max	AD7980BRMZ	NEW SMD 160-7234	24.65	19.71	17.93	16.43	14.21
8318	TI	10	MSOP			16Bit ADC 500kSPS Serial Out, Unipolar Diff Input	ADS8318IBDGST	NEW SMD 168-4743	26.30	21.03	18.45	15.70	14.61
8320	BB	8	SOIC	2	16	C, S	ADS8320E/250	SMD 109-7448	8.05	6.17	5.23	4.71	4.59
8320	TI	8	VSSOP	2	–	A-D Converter 16-Bit UNI-InputS/SER-OUTPUT	ADS8320EB	SMD 121-2288	8.61	7.64	6.86	6.23	5.69
8321	TI	8	VSSOP	2		A-D Converter, 16-Bit, 100KHz BIPOLAR	ADS8321E/250G4	SMD 120-6877	8.46	7.48	6.72	6.10	5.58
8322	TI	32	TQFP	2	1.6	16-Bit, 500 KHZ A-D Converter	ADS8322Y	SMD 121-2289	10.64	8.84	7.08	– –	– –
8323	TI	32	TQFP	2	1.6	A-D Converter ADS BIPOLAR Input 500Kh2	ADS8323Y	SMD 121-2290	10.06	7.91	6.45	– –	– –
8326	TI	8	MSOP	1.5	666.7	16 Bits ADC 250kSPS Serial Out	ADS8326IBDGKT	SMD 137-9263	11.06	8.48	7.19	6.85	6.67
8327	TI	16	TSSOP	0.6		30MHz Single 16Bit 500KSPS Serial ADC with 2:1 Multiplexer	ADS8327IPW	NEW SMD 156-4928	17.19	14.18	12.61	10.31	8.73
8327	TI	16	TSSOP	2	1500	16-Bit Serial ADC, 2.7-5.5V, 500KSPS	ADS8327IBPWG4	SMD 139-0678	19.60	15.69	12.88	11.01	9.84
8328	TI	16	TSSOP	2	1500	16-Bit Serial ADC with 2-to-1 MUX, 2.7-5.5V, 500KSPS	ADS8328IBPWG4	SMD 139-0679	20.91	16.73	13.71	11.76	10.52
8329	TI	16	QFN	1.75	1500	16-Bit Serial ADC, 2.7-5.5V, 1MSPS	ADS8329IBRSATG4	SMD 139-0680	24.29	19.93	16.46	13.99	13.63
8330	TI	16	QFN	1.75	1500	16-Bit Serial ADC with 2-to-1 MUX, 2.7-5.5V, 1MSPS	ADS8330IBRSATG4	SMD 139-0681	26.83	21.46	17.66	15.14	14.64
8341	TI	16	SSOP	2		A-D Converter; 16-Bit 4-Channel 200KHZ Serial	ADS8341E	SMD 121-2292	10.99	8.43	7.15	– –	– –
8341	BB	16	SSOP	6	16	C, R, S	ADS8341EB	SMD 110-0946	9.81	8.18	6.88	– –	– –
8343	TI	16	SSOP	6	6	C, R, S, S/A	ADS8343EBG4	SMD 121-4425	12.75	10.02	8.18	– –	– –
8344	TI	20	QSOP	2		A-D Converter, 16-Bit, 8-Channel	ADS8344E	SMD 121-2293	11.88	9.11	7.73	– –	– –
8344	BB	20	SSOP	6	16	C, R, S	ADS8344EBG4	SMD 110-0947	14.01	11.66	9.83	– –	– –
8344	TI	20	SSOP	2		A-D Converter, 16-Bit, 8-Channel	ADS8344NB	SMD 121-2294	14.24	10.93	9.27	– –	– –
8344	TI	20	SSOP	2		A-D Converter, 16-Bit, 8-Channel	ADS8344NG4	SMD 120-7897	11.86	9.34	7.61	– –	– –
8345	TI	20	QSOP	6		C, R, S, S/A	ADS8345EB	SMD 121-4426	14.23	11.19	9.13	– –	– –
8345	TI	20	SSOP	2		16-Bit, 8 Channel, 100KHZ Serial A-D Converter	ADS8345NBG4	SMD 120-6878	14.23	11.19	9.13	– –	– –
8361	TI	24	SSOP	1.5	1.6	Dual 250KHZ, 16-Bit, 2+2 Channel	ADS8361IDBQG4	SMD 120-6879	12.97	11.50	10.32	9.37	8.57
8365	TI	64	TQFP	1.5	100	16 Bit, 250kSPS, 6-Channel, Simultaneous Sampling Converters	ADS8365IPAGG4	SMD 132-9580	25.12	22.27	19.99	18.14	16.61
8505	TI	28	SOIC	2	2.2	16 Bit AnaLog to Digital Converter	ADS8505IDWG4	SMD 118-0108	18.60	15.09	12.32	11.27	10.70
8507	TI	28	SOIC	1.5	20	16-Bit ADC with Serial Interface and Reference Parallel, 40KSPS	ADS8507IBDWG4	SMD 139-0676	29.53	23.62	19.44	17.40	16.96
8509	TI	20	SOIC			16Bits ADC 250kHz	ADS8509IDW.	NEW SMD 164-8610	12.91	10.65	9.78	9.14	8.91
8509	TI	20	SOIC	2	2.2	16-Bit CMOS ADC with Serial Interface 2.5V Internal Reference, 250kHz	ADS8509IBDWG4	SMD 139-0677	41.01	32.80	27.00	23.05	20.75
8515	TI	28	SSOP	1	4	16-Bit 250kHz CMOS Analog-to-Digital Converter w/ Parallel Interface 4.096V Internal Reference	ADS8515IDBG4	SMD 143-9620	16.24	12.76	10.40	9.54	9.06
8515	TI	28	SSOP	1	4	16-Bit 250kHz CMOS Analog-to-Digital Converter w/ Parallel Interface 4.096V Internal Reference	ADS8515IBDBRG4	SMD 149-4883	18.81	16.25	14.88	13.71	13.39
8517	TI	28	SOIC			16-Bit ADC 200kSPS Bipolar Input with S/P Interface	ADS8517IBDW	NEW SMD 168-4744	34.99	27.99	24.55	20.90	19.44
8552	TI	8	MSOP	1		16-Bit DAC, Dual W SPI I/F	DAC8552IDGKTG4	SMD 132-9584	8.93	7.82	6.97	6.28	5.71
8831	TI	14	SOIC			Single Channel 16 Bit DAC with Volatge O/P	DAC8831IBD	NEW SMD 162-4421	11.78	10.65	9.23	8.52	7.69
8832	TI	14	QFN			Single Channel 16 Bit DAC with Volatge O/P	DAC8832ICRGYT	NEW SMD 162-4420	13.73	11.89	10.31	9.52	8.71
9460	ADI	100	TQFP	0.85		16-Bit, 105 MSPS ADC	AD9460BSVZ-105	SMD 127-4198	84.52	64.80	55.50	54.50	51.04
9460	ADI	100	TQFP	0.8		16-Bit, 80 MSPS ADC	AD9460BSVZ-80	SMD 127-4197	69.86	54.46	52.94	51.50	50.16
9461	ADI	100	TQFP	0.6		16-Bit, 130 MSPS A/D Converter	AD9461BSVZ	SMD 127-4196	93.94	73.25	71.20	69.28	67.45
11043	MAX	40	TQFN			Quad 16Bit Simultaneous Sampling ADCs with PGA Filter	MAX11043ATL+	NEW SMD 167-3077	14.11	10.98	8.98	8.23	7.14

Key to Features: C = CMOS, D/B = Double-Buffered, L = Latches, M = Multiplying, MC = Microprocessor Compatible, MP = Micropower, P = Parallel O/P, R = Internal Reference, R2R = Rail-to-Rail output, S = Serial O/P, S/A = Successive Approximation, S/H = Sample and Hold, T = Temp. Sensor, T/H = Track and Hold, V = Voltage O/P

RL Re-reeling available

414038

Mftr.	Pins	Pkg	Linearity Error ± LSB	Conversion Time ± ½ LSB, µs	Features	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
18-Bit A/D												
132 MAX	24	DIP	–	63	C, S.	MAX132CNG+	118-7950●	19.60	12.60	10.43	– –	– –
631 ADI	48	LQFP	2.5–	1.68	250 kSPS, C, P, R, S, S/A	AD7631BSTZ	SMD 143-8843●	43.77	35.03	31.12	– –	– –
634 ADI	48	LQFP	2.5–	1.18	670 kSPS, C, P, R, S, S/A	AD7634BSTZ	SMD 143-8844●	46.97	39.31	33.67	– –	– –
1625 TI	64	HTQFP	0.5–		18Bit Single ADC 1.25Msps 615kHz BW	ADS1625IPAPT.	NEW SMD 160-3396●	21.31	19.37	17.76	16.39	15.21
3421 MCHIP	6	SOT-23	–		18Bit ADC with I2C Interface and On-Board 2.048V Reference with Address 000	MCP3421A0T-E/CH	NEW SMD 160-5567●	2.34	1.77	1.39	– –	– –
3421 MCHIP	6	SOT-23	–		18Bit ADC with I2C Interface and On-Board 2.048V Reference with Address 001	MCP3421A1T-E/CH	NEW SMD 160-5568●	2.34	1.77	1.39	– –	– –
3421 MCHIP	6	SOT-23A	10–		18-Bit ADC, 1Ch	MCP3421A0T-E/OT	SMD 133-2100●	1.68	1.40	0.91	– –	– –
5330 CIR	8	SOIC	–		18 Bit Programmable up to 50KHz Stereo ADC for Digital Audio	CS5330A-KSZ	NEW SMD 155-7475●	6.55	5.83	4.76	4.36	3.75
7641 ADI	48	LQFP	2	520	18-Bit, 2 MSPS SAR ADC	AD7641BSTZ	SMD 127-4238●	48.98	39.20	34.82	34.15	31.96
7643 ADI	48	LQFP	1.5	550	18-Bit, 1.25 MSPS PulSAR A/D Converter	AD7643BSTZ	SMD 127-4236●	44.81	34.95	33.98	33.06	32.17
7674 ADI	48	LQFP	2.5	1.25	5V, 800KSPS, P, S, S/A, S/H	AD7674ASTZ	SMD 839-7490●	41.82	33.25	29.53	– –	– –
7678 ADI	48	LQFP	2.5	1.5–	5V, 100KSPS, P, S, S/A, S/H	AD7678ASTZ	SMD 158-1933●	23.87	19.71	17.51	– –	– –
7679 ADI	48	LQFP	2.5–	1.5	570 kSPS, P, S, S/A	AD7679ASTZ	SMD 143-8535●	38.30	30.45	27.05	26.53	24.83
7690 ADI	10	MSOP	0.75	2–	18-Bit, 400 KSPS PulSAR A/D Converter	AD7690BRMZ	SMD 127-4228●	29.19	23.20	20.60	20.21	18.91
7691 ADI	10	MSOP	–		18-Bit, 1.5 LSB INL, 250 kSPS PulSAR® Differential ADC in MSOP/QFN	AD7691BRMZ	SMD 130-6146●	21.69	17.25	15.32	15.02	14.06
7982 ADI	10	MSOP	1–		1 MSPS, S/A, S	AD7982BRMZ	SMD 149-8675●	27.03	24.88	23.07	– –	– –
8139 ADI	8	SOIC		–	Differential ADC Driver, R2R, Up to 18-Bit	AD8139ARDZ	SMD 839-7864●	7.29	5.19	4.19	– –	– –
20-Bit A/D												
112 TI	28	SOIC	–		20Bits ADC 3kHz	DDC112U.	NEW SMD 164-8612●	15.71	13.42	12.31	11.12	10.84
112 TI	28	SOIC	1		20-Bit,2 Chan- Current Input A-D Converter	DDC112UK	SMD 121-2387●	20.84	16.58	14.72	– –	– –
1213 TI	28	SSOP	1	2.9	4-Channel, 5V, MC, S, S/A	ADS1213E	SMD 932-4089●	15.47	12.53	10.50	– –	– –
1230 TI	16	TSSOP	–	12.5	20-Bit Delta Sigma ADC for Bridge Sensors	ADS1230IPW.	SMD 139-0672●	4.11	3.28	2.70	2.32	2.15
1365 MAX	16	SOIC			Digital Panel Meter, 4.5-Digit Resolution	MAX1365ECM+	SMD 143-3197●	18.66	13.17	11.08	9.64	8.88
1367 MAX	48	TQFP		200	Digital Panel Meter, 3.5-Digit Resolution	MAX1367ECM+	SMD 143-3198●	14.17	10.01	8.40	7.34	6.73
5506 CIR	24	SOIC	–		20 Bit 4 Channel ADC	CS5506-BSZ	NEW SMD 155-7461●	24.20	21.50	17.59	16.13	13.82
22-Bit A/D												
1213 TI	24	SOIC	1		22-Bit ANALog-TO-DIGITAL CONVERTER	ADS1213U.	SMD 123-4905●	11.77	8.95	8.07	7.87	7.66
3550 MCHIP			–		Single 22-Bit Delta-Sigma ADC	MCP3550-50E/MS	NEW 162-7198●	3.93	2.97	2.34	– –	– –
3550 MCHIP	8	SOIC		80	Single-Channel 22-Bit Delta-Sigma ADC.	MCP3550-50E/SN	NEW SMD 155-7411●	4.28	3.24	2.55	– –	– –
3551 MCHIP	8	MSOP	6	72.73	13.75SPS, Delta-SigmA.	MCP3551-E/MS	SMD 108-4624●	3.72	2.00	1.77	– –	– –
3551 MCHIP	8	SOIC	6	72.73	13.75SPS, Delta-SigmA.	MCP3551-E/SN	SMD 108-4625●	3.68	1.98	1.76	– –	– –
3553 MCHIP	8	SOIC	–		22Bit Delta-Sigma ADC 60SPS Sample Rate Serial Interface	MCP3553-E/SN	NEW SMD 160-5569●	3.89	2.95	2.32	– –	– –
3553 MCHIP	8	MSOP	–		6 ppm max INL, 60SPS	MCP3553-E/MS	SMD 143-9515●	3.61	2.00	1.74	– –	– –
24-Bit A/D												
1201 TI	16	SOIC	1	–	A-D Converter, 24-Bit, SigmA-Delta,R	ADS1201U	SMD 840-8947	10.17	7.80	6.61	– –	– –
1210 TI	18	PDIP	–		24Bit ADC 16kSPS	ADS1210P.	NEW 164-8594●	16.74	14.31	13.11	11.85	11.55
1210 BB	18	SOIC	1	1.2	C, L, S, R	ADS1210U	SMD 109-7511●	20.04	16.92	14.63	12.90	11.53
1211 TI	24	DIP	1	1.2	C, L, S, R	ADS1211P.	121-9430●	18.58	14.77	13.12	– –	– –
1211 TI	24	SOIC	1	1.2	4-Channel, 5V, MC, S, S/A.	ADS1211U..	SMD 932-4070●	13.05	11.59	10.42	– –	– –
1216 TI	48	TQFP	–		24Bit ADC 780SPS	ADS1216Y/250	NEW SMD 164-8595●	7.81	6.71	5.60	5.06	4.93
1217 TI	48	TQFP	1–	1000	8-Channel, 24-Bit Analog-To-Digital Converter	ADS1217IPFBT	SMD 145-9253●	8.17	6.26	5.31	4.68	4.56
1217 TI	48	TQFP	1	1	C, D/B, R, S	ADS1217IPFB	SMD 121-4419●	6.04	5.55	5.15	4.79	4.48
1224 TI	20	TSSOP		8.32	24 Bit AnaLog to Digital Converter With 4 Channel MUX	ADS1224IPWT	SMD 118-0130●	4.01	3.42	3.33	3.24	3.15
1225 TI	16	QFN	1–		24Bit ADC with One Differential Inputs and Internal Oscillator	ADS1225IRGVT	NEW SMD 160-3414●	5.08	4.08	3.40	3.13	2.92
1226 TI	16	QFN	1–		24Bit ADC with Two Multiplexed Differential Inputs and Internal Oscillator	ADS1226IRGVT	NEW SMD 160-3415●	5.42	4.34	3.61	3.33	3.09
1232 TI	24	TSSOP	–		Dual Channel 24-Bit Ultra Low-Noise ADC for Bridge Sensors	ADS1232IPW	NEW SMD 156-4907●	7.89	6.51	5.79	4.74	4.01
1232 TI	24	TSSOP	–	12.5	24-Bit Ultralow Noise ADC	ADS1232IPW..	SMD 139-0671●	6.13	5.12	4.22	3.58	3.29
1234 TI	28	TSSOP	–	12.5	24-Bit Ultra Low Noise ADC	ADS1234IPW.	SMD 139-0674●	7.38	5.91	4.86	4.15	3.76
1240 TI	24	SSOP	1	1	C, D/B, R, S	ADS1240E..	SMD 121-4420●	4.05	3.60	3.59	3.49	3.40
1241 TI	28	SSOP	1		C, D/B, R, S	ADS1241E	SMD 121-4422●	7.48	5.10	4.12	– –	– –
1242 BB	16	TSSOP	1		C, D/B, R, S	ADS1242IPW	SMD 110-6056●	6.85	5.77	5.03	4.40	3.94
1243 BB	20	TSSOP	1	1–	C, D/B, R, S	ADS1243IPW	SMD 110-6057●	6.33	5.34	4.62	4.07	3.64
1244 TI	10	MSOP	140–	66.667	24-Bit Delta Sigma ADC with 50 & 60Hz rejection, 15SPS	ADS1244IDGSTG4	SMD 139-0675●	5.33	4.25	3.51	3.00	2.75
1251 BB	8	SOIC	1		C, R, S	ADS1251U	SMD 110-3104●	8.32	6.38	5.41	– –	– –
1251 TI	8	SOIC	1	–	C, R, S	ADS1251UG4	SMD 932-4097●	8.29	6.53	5.33	– –	– –
1252 TI	8	SOIC	1	0.4–	C, R	ADS1252UG4	SMD 120-2022●	8.33	6.39	5.42	– –	– –
1253 TI	16	SSOP	1		C, R, S	ADS1253EG4	SMD 121-4423●	9.94	8.81	7.91	7.17	6.56
1254 TI	20	SSOP	–		24Bit ADC 20kSPS	ADS1254E.	NEW SMD 164-8596●	9.50	8.18	6.82	6.16	6.00
1256 TI	28	SSOP		–	24 Bit, 30KSPS VERY Low Noise DELTA-SIGmA ADC With MULTIPLEXER	ADS1256IDBTG4	SMD 123-4759●	11.32	10.04	9.03	8.19	7.50
1258 TI	48	QFN	1–		24 Bit ADC, 16 Channel	ADS1258IRTCTG4	SMD 123-0452●	12.97	11.50	10.32	9.37	8.57
1271 TI	16	TSSOP	–	9.52–	105KSPS, Delta-SigmA	ADS1271IPW	SMD 996-8865●	6.16	5.94	5.72	5.50	5.28
1271 TI	16	TSSOP		–	24 Bit AnaLog to Digital Converter	ADS1271IPWG4	SMD 118-0117●	8.75	6.87	5.61	5.13	4.88
1271 TI	16	TSSOP	1–	105	24Bit ADC 105ksps	ADS1271IBPW.	NEW SMD 160-3402●	11.38	9.30	7.88	7.32	6.83
1274 TI	64	HTQFP	1–		24Bit Quad Simultaneous Sampling ADC 128kSPS	ADS1274IPAPT	NEW SMD 160-3418●	25.62	20.48	17.07	15.75	14.62
1278 TI	64	HTQFP	1–		24Bit Octal Simultaneous Sampling ADC 128kSPS	ADS1278IPAPT	NEW SMD 160-3419●	43.94	35.15	29.30	27.04	25.11
1281 TI	24	TSSOP	–		24Bit Single ADC 4kSPS	ADS1281IPW	NEW SMD 160-3388●	46.92	43.31	40.22	38.05	35.64
1808 TI	14	TSSOP	–		24-Bit Stereo ADC, Single-ended Analog Input, 96-kHz	PCM1808PWG4	SMD 139-0705●	1.59	1.28	1.08	0.92	0.83
2400 LT	8	SOIC	–		24Bit ADC Micropower	LTC2400CS8#PBF	NEW SMD 166-3682●	9.72	7.54	6.03	5.02	4.50
2410 LT	16	SSOP	–		24Bit ADC with Differential Input &I Reference	LTC2410CGN#PBF	NEW SMD 166-3683●	9.72	7.54	6.03	5.02	4.50
2413 LT	16	SSOP	–		24Bits ADC with Simultaneous 50Hz/60Hz Rejection	LTC2413IGN#PBF	NEW SMD 166-3684●	11.09	8.60	6.88	5.73	5.13
2440 LT	16	SSOP	–		24Bit ADC with Selectable Speed/Resolution	LTC2440CGN#PBF.	NEW SMD 166-3687●	10.18	7.89	6.31	5.26	4.71
2440 LT	16	SSOP	–		24Bit ADC with Selectable Speed/Resolution	LTC2440IGN#PBF	NEW SMD 166-3688●	11.55	8.96	7.16	5.97	5.35
2492 LT	14	DFN	–		24Bit 4 Channel ADC	LTC2492CDE#PBF	NEW SMD 166-3691●	5.55	4.30	3.44	2.86	2.57
2498 LT	38	QFN	–	–	ADC,24Bit,DELTA SIGmA,8/16-CH	LTC2498CUHF#PBF	SMD 129-6549●	6.68	4.06	3.20	3.01	2.99
2498 LT	38	QFN	–	–	ADC,24Bit,DELTA SIGmA,8/16-CH	LTC2498IUHF#PBF	SMD 129-6550●	5.10	3.00	2.92	2.84	2.77
2499 LT	38	QFN	–		24Bit 4 Channel ADC	LTC2499CUHF#PBF	NEW SMD 166-3692●	6.48	5.02	4.02	3.35	3.00
4202 TI	28	SSOP	–	–	Stereo Audio AnaLog-to-Digital Converter	PCM4202DBTG4	SMD 118-0153●	8.08	7.16	6.43	5.83	5.34
4222 TI	48	TQFP	–		24-Bit Stereo Audio ADC, 216kHz, 124dB	PCM4222PFBG4	SMD 139-0708●	24.52	19.61	16.15	13.85	13.38
5360 CIR	20	SSOP	–		24 Bit Programmable up to 50KHz Stereo DAC for Digital Audio	CS5360-BS	NEW SMD 155-7481▲	13.27	11.80	9.65	8.85	7.59
5566 CIR	24	SSOP	–		24Bit ADC 50 kSPS	CS5566-ISZ	NEW SMD 165-9350●	11.63	9.04	7.40	6.79	6.26
7190 INTS	20	SOIC	–		24-Bit Fully Differential Sigma Delta ADC Programmable Gain 1-128	HI7190IBZ	NEW SMD 156-2045●	20.70	18.40	15.06	12.74	11.82
7711 ADI	24	PDIP	–		2-CH, 1.028 kSPS, S, MC, C, R, Signal Conditioning ADCwith RTD Excitation Currents	AD7711ANZ	143-8537●	30.73	24.59	21.84	21.42	20.05
7711 ADI	24	SOIC	–		1.028 kSPS, C, S, MC, R	AD7711ARZ	SMD 143-8855●	28.57	24.59	21.84	– –	– –
7712 ADI	24	SOIC	–		1.028 kSPS, C, S, MC, R	AD7712ARZ	SMD 143-8856●	24.57	21.18	18.81	– –	– –
7712 ADI	24	PDIP	–		2-CH, 1.028 kSPS, S, MC, C, R, Signal Conditioning ADC with 2 Analog Input Channels	AD7712ANZ	143-8538●	26.46	21.18	18.81	18.45	17.26
7713 ADI	24	PDIP	–		3-CH, 205 SPS, S, MC, C, Signal Conditioning ADC with Matched RTD Current Sources	AD7713ANZ	143-8539●	32.43	25.97	23.07	22.62	21.17

RL Re-reeling available

A/D and D/A Converters - continued

	Mftr.	Pins	Pkg	Linearity Error ± LSB	Conversion Time ± ½ LSB, µs	Features	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
24-Bit A/D													
7713	ADI	24	SOIC	–		3-CH, 205 SPS, S, MC, C, Signal Conditioning ADC with Matched RTD Current Sources	AD7713ARZ	SMD 143-8540	32.67	25.97	23.07	22.62	21.17
7714	ADI	24	DIP	–		24Bit 1kSPS A/D Converter	AD7714ANZ-5	NEW 165-1257	14.73	13.11	10.72	9.82	9.42
7714	ADI	24	PDIP	–		5-CH, 1 kSPS, S, MC, C, Signal Conditioning ADC	AD7714YNZ	143-8541	13.57	10.79	9.58	– –	– –
7714	ADI	24	TSSOP	–		1 kSPS, C, S, MC, R	AD7714YRUZ	SMD 143-8857	14.54	11.23	9.52	– –	– –
7714	ADI	24	SOIC	–		1 kSPS, C, S, MC, R	AD7714YRZ	SMD 143-8858	11.32	9.47	8.12	– –	– –
7718	ADI	28	SOIC	–		1.365 kSPS, 8-/10-Channel, S	AD7718BRZ	SMD 143-8859	9.21	7.09	6.02	– –	– –
7719	ADI	28	SOIC	–		105 SPS, S, 16- and 24-Bit	AD7719BRZ	SMD 143-8860	13.93	11.07	9.83	– –	– –
7732	ADI	28	TSSOP	4–	500–	2-Channel, MC, S	AD7732BRUZ	SMD 158-1937	12.56	10.02	8.49	– –	– –
7734	ADI	28	TSSOP	4	500	4-Channel, MC	AD7734BRUZ	SMD 158-1938	12.56	10.02	8.49	– –	– –
7738	ADI	28	TSSOP	–	117	8-Channel, MC	AD7738BRUZ	SMD 158-1939	11.49	9.15	7.77	– –	– –
7760	ADI	64	TQFP	1–		2.5 MSPS, 24-Bit SigmA-Delta A/D Converter	AD7760BSVZ	SMD 111-7896	57.67	45.85	40.73	39.94	37.38
7762	ADI	64	TQFP	1–		Parallel Interface, 625 KSPS, 24-Bit SigmA-Delta A/D Converter	AD7762BSVZ	SMD 111-7895	18.22	17.08	16.07	15.19	14.39
7763	ADI	64	TQFP	–		625 kSPS, S	AD7763BSVZ	SMD 143-8861	24.65	20.39	19.83	19.32	18.82
7764	ADI	28	TSSOP	–		312 kSPS, 109 dB, Sigma Delta, S	AD7764BRUZ	SMD 143-5603	17.93	15.00	12.84	– –	– –
7765	ADI	28	TSSOP	–		156 kSPS, 112 dB, Sigma Delta, S	AD7765BRUZ	SMD 144-0770	11.49	9.63	8.23	– –	– –
7766	ADI	16	TSSOP	–		24Bit 128ksps ADC	AD7766BRUZ	NEW SMD 160-7231	9.20	7.36	6.69	6.14	5.26
7767	ADI	16	TSSOP	–		24Bit 128ksps ADC	AD7767BRUZ	NEW SMD 160-7232	13.13	10.51	9.56	8.75	7.57
7782	ADI	16	TSSOP	–		19.79 SPS, S, R2R	AD7782BRUZ	SMD 143-8862	6.47	4.87	4.16	– –	– –
7783	ADI	16	TSSOP	–		19.79 SPS, S, R2R	AD7783BRUZ	SMD 143-8863	7.51	5.76	4.89	– –	– –
7787	ADI	10	MSOP	–	–	2-Channel, S, SigmA Delta	AD7787BRMZ	SMD 158-1940	5.40	4.52	3.87	– –	– –
7788	ADI	10	MSOP	–	–	Differential Input, SigmA Delta	AD7788BRMZ	SMD 158-1941	4.52	3.19	2.59	– –	– –
7789	ADI	10	MSOP	–	–	S, SigmA Delta	AD7789BRMZ	SMD 114-3278	6.21	4.26	3.44	– –	– –
7793	ADI	16	TSSOP	15		3-Channel, R, SigmA-Delta	AD7793BRUZ	SMD 945-3067	8.96	6.91	5.86	– –	– –
7794	ADI	24	TSSOP	–	2000	6-Channel, 500SPS, R, S, SigmA-Delta	AD7794BRUZ	SMD 107-8329	10.18	7.86	6.66	– –	– –
7797	ADI	16	TSSOP	–		Low Power, 24 Bit Sigma-Delta ADC	AD7797BRUZ	SMD 130-6151	7.07	4.86	3.92	3.78	3.52
7799	ADI	16	TSSOP	–	2000	3-Channel, 500SPS, S, SigmA-Delta	AD7799BRUZ	SMD 107-8327	7.70	5.90	5.00	– –	– –
74111	ADI	16	TSSOP	–		Low Power Mono Audio Code, SigmA Delta ADC	AD74111YRUZ	SMD 158-1927	3.95	3.15	2.60	– –	– –

Key to Features: C = CMOS, D/B = Double-Buffered, L = Latches, M = Multiplying, MC = Microprocessor Compatible, MP = Micropower, P = Parallel O/P, R = Internal Reference, R2R = Rail-to-Rail output, S = Serial O/P, S/A = Successive Approximation, S/H = Sample and Hold, T = Temp. Sensor, T/H = Track and Hold, V = Voltage O/P

16/20/24-Bit Analog-to-Digital Converters

LINEAR TECHNOLOGY

492358

Mftrs. List No.	Pins/ Package	Number of Bits	Number of Channels	Time (µs)	Description	Temperature (°C)	Order Code	Price Each 1+	10+	100+
LTC2433-1CMS#PBF	10/MSOP	16	1	146700	Differential Input No Latency Delta-Sigma ADC	0 to 70	SMD 133-0933	3.66	2.09	1.69
LTC2436-1CGN#PBF	16/SSOP	16	2	146700	Differential Input No Latency Delta-Sigma ADC	0 to 70	SMD 133-0934	4.60	2.61	2.05
LTC2480CDD#PBF	10/DFN	16	1	133600	Delta-Sigma ADC with Easy Drive Input Current Cancellation	0 to 70	SMD 133-0938	3.50	2.12	1.68
LTC2481CDD#PBF	10/DFN	16	1	66900	ADC with Easy Drive Input Current Cancellation and I2C Interface	0 to 70	SMD 133-0939	3.50	2.12	1.68
LTC2482CDD#PBF	10/DFN	16	1	146900	Delta-Sigma ADC with Easy Drive Input Current Cancellation	0 to 70	SMD 133-0940	1.99	1.58	1.28
LTC2483CDD#PBF	10/DFN	16	1	146900	ADC with Easy Drive Input Current Cancellation and I2C Interface	0 to 70	SMD 133-0941	1.99	1.58	1.28
LTC2421CMS#PBF	10/MSOP	20	1	133530	µPower No Latency Delta-Sigma ADC	0 to 70	SMD 133-0928	5.04	4.00	3.26
LTC2422CMS#PBF	10/MSOP	20	2	133530	µPower No Latency Delta-Sigma ADC	0 to 70	SMD 133-0929	6.41	4.19	3.69
LTC2428CG#PBF	28/SSOP	20	8	133530	µPower No Latency Delta-Sigma ADC	0 to 70	SMD 133-0931	9.57	5.41	4.31
LTC2431CMS#PBF	10/MSOP	20	1	133530	No Latency Delta-Sigma ADC with Differential Input/Reference	0 to 70	SMD 133-0932	4.73	4.04	3.53
LTC2401CMS#PBF	10/MSOP	24	1	133530	µPower No Latency Delta-Sigma ADC	0 to 70	SMD 133-0920	6.15	4.01	3.50
LTC2402CMS#PBF	10/MSOP	24	2	133530	µPower No Latency Delta-Sigma ADC	0 to 70	SMD 133-0921	10.27	5.81	4.58
LTC2404CG#PBF	28/SSOP	24	4	133330	µPower No Latency Delta-Sigma ADC	0 to 70	SMD 133-0922	7.42	4.84	4.21
LTC2408CG#PBF	28/SSOP	24	8	133330	µPower No Latency Delta-Sigma ADC	0 to 70	SMD 133-0923	11.46	6.52	5.35
LTC2411-1CMS#PBF	10/MSOP	24	1	146710	No Latency Delta-Sigma ADC with Differential Input and Reference	0 to 70	SMD 133-0924	6.37	4.14	3.66
LTC2411CMS#PBF	10/MSOP	24	1	160230	No Latency Delta-Sigma ADC with Differential Input and Reference	0 to 70	SMD 133-0926	6.79	4.42	3.85
LTC2414CGN#PBF	28/SSOP	24	4	133530	No Latency Delta-Sigma ADC	0 to 70	SMD 133-0927	9.59	5.82	4.78
LTC2424CG#PBF	28/SSOP	24	4	133530	µPower No Latency Delta-Sigma ADC	0 to 70	SMD 133-0930	5.57	4.42	3.60
LTC2442CG#PBF	36/SSOP	24	2	1130	High Speed Delta-Sigma ADC with Integrated Amplifier	0 to 70	SMD 133-0936	14.07	8.56	6.74
LTC2484CDD#PBF	10/DFN	24	1	66900	Delta-Sigma ADC with Easy Drive Input Current Cancellation	0 to 70	SMD 133-0942	4.63	2.82	2.22
LTC2485CDD#PBF	10/DFN	24	2	66900	ADC with Easy Drive Input Current Cancellation and I2C Interface	0 to 70	SMD 133-0943	4.63	2.82	2.22

414039

	Mftr.	Pins	Pins	Features	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
3, 3½, 3¾, 4½ Digit A/D											
7106	INTS	40	DIP	3.5 Digits, Integrating, CMOS, Single chip, Drives LCD Display	ICL7106CPLZ	966-3550	2.88	1.72	1.22	– –	– –
7107	INTS	40	PDIP	3.5 Digit LED Display Driver & A/D Converter	ICL7107RCPLZ	NEW 156-1988	4.99	4.36	3.50	2.92	2.50
7107	INTS	40	DIP	3.5 Digits, Integrating, CMOS, Single chip, Drives LED Display	ICL7107CPLZ	966-3568	3.44	1.82	1.29	– –	– –
7107	MCHIP	40	DIP	3½ Digits, Integrating, CMOS, Single chip, Drives LED Display	TC7107CPL	119-6783	2.48	2.03	1.59	– –	– –
7117	MCHIP	44	PQFP	3.5 Digit ADC Converter with Hold	TC7117CKW	NEW SMD 155-7416	3.26	2.47	1.94	– –	– –
7126	INTS	40	DIP	3.5 Digits, Integrating, CMOS, Single chip, Low Power, Drives LCD Display	ICL7126CPLZ	966-3576	5.02	3.34	2.13	– –	– –
7126	MCHIP	40	DIP	3½ Digits, Integrating, CMOS, Single chip, Low Power, Drives LCD Display	TC7126CPL	119-6784	3.11	2.63	2.29	– –	– –
7135	TI	28	DIP	4½ Digits, Integrating, CMOS, multiplexed BCD output	ICL7135CNG4	135-8140	5.50	4.14	3.04	– –	– –
7135	INTS	28	DIP	4.5 Digits, Integrating, CMOS, multiplexed BCD output	ICL7135CPIZ	966-3584	3.54	2.35	1.50	– –	– –
7136	INTS	44	PQFP	3.5 Digits, Integrating, CMOS, Single chip, Low Power, Drives LCD Display	ICL7136CM44Z	SMD 966-3592	3.01	2.68	2.19	– –	– –
7136	INTS	40	DIP	3.5 Digits, Integrating, CMOS, Single chip, Low Power, Drives LCD Display	ICL7136CPLZ	966-3606	5.12	3.42	2.18	– –	– –

414054

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A/D Converters

MAXIM

New

501831

Mftr.	Pins	Pkg	Linearity Error ± LSB	Features	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
8-Bit A/D											
1193 MAX	28	TQFN	0.16	Dual 8-Bit ADC 45MSPS Ultra-Low-Power	MAX1193ETI+	SMD 155-2851●	7.09	6.29	5.68	4.73	4.06
1196 MAX	48	TQFP	0.3	Dual 8-Bit, 40MSPS ADC with Internal Reference & Multiplexed Parallel O/P	MAX1196ECM+D	SMD 155-2852●	8.55	7.60	6.83	5.70	4.88
10-Bit A/D											
1181 MAX	48	TQFP	0.6	Dual 10-Bit, 80MSPS ADC with Internal Reference & Parallel O/P	MAX1181ECM+D	SMD 155-2847●	25.09	21.96	17.56	14.64	12.54
1182 MAX	48	TQFP	0.6	Dual 10-Bit, 65MSPS ADC with Internal Reference & Parallel O/P	MAX1182ECM+D	SMD 155-2848●	22.08	19.34	15.46	12.88	11.04
1183 MAX	48	TQFP	0.5	Dual 10-Bit, 40MSPS ADC with Internal Reference & Parallel O/P	MAX1183ECM+D	SMD 155-2849●	16.86	14.76	11.80	9.83	8.42
1186 MAX	48	TQFP	0.5	Dual 10-Bit, 40MSPS ADC with Internal Reference & Multiplexed Parallel O/P	MAX1186ECM+D	SMD 155-2850●	16.86	14.76	11.80	9.83	8.42
12-Bit A/D											
1276 MAX	12	TQFN	1.25	12-Bit ADC 1.8MSPS Single Supply True Differential	MAX1276ETC+	SMD 155-2853●	6.40	5.69	5.11	4.25	3.60
1279 MAX	12	TQFN	1.5	12-Bit ADC 1.5MSPS Single Supply True Differential	MAX1279BETC+	SMD 155-2854●	6.40	5.69	5.11	4.25	3.60
1393 MAX	10	TDFN	1	12-Bit Single ADC 312.5KSPS True-Differential	MAX1393ETB+T	SMD 155-2856●	3.97	3.54	3.19	2.66	2.25
1396 MAX	10	TDFN	1	12-Bit Dual ADC 312.5KSPS Single-Ended	MAX1396ETB+T	SMD 155-2857●	3.97	3.54	3.19	2.66	2.25
1421 MAX	48	TQFP	1	12-Bit 40MSPS Low-Power ADC with Internal Reference	MAX1421ECM+D	SMD 155-2858●	11.09	9.86	8.88	7.39	6.25

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A/D Converters

National Semiconductor

New

508890

Mftr.	Pins	Pkg	Linearity Error ± LSB	Conversion Time ± ½ LSB, µs	Features	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
12-Bit A/D												
121 NSC	6	TSOT	1	1	12-Bit A/D 11MHz with I2C Compatible & Alert O/P	ADC121C021CIMK	SMD 155-2428●	2.32	2.02	1.62	1.37	1.15
121 NSC	6	TSOT	1	1	12-Bit A/D 11MHz with I2C Compatible & Address I/P	ADC121C027CIMK	SMD 155-2431●	2.32	2.02	1.62	1.37	1.15
5957 NSC	48	TSSOP	1.5	–	12-Bit A/D Converter 70 MSPS	CLC5957MTD	SMD 155-4777●	42.25	35.60	27.52	23.04	19.50
14-Bit A/D												
14 NSC	32	LQFP	1.4	–	14-Bit A/D Converter 20 MSPS 150 mW	ADC14L020CIVY	SMD 155-4775●	26.47	22.69	17.65	14.43	12.21
14 NSC	32	LQFP	1.5	–	14-Bit A/D Converter 40 MSPS 235 mW	ADC14L040CIVY	SMD 155-4776●	33.81	28.50	22.01	18.44	15.60

A/D Converters

New

LINEAR TECHNOLOGY

515193

Mftr.	Pins	Pkg	Linearity Error ± LSB	Features	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
14-Bit A/D											
2355 LT	11	MSOP	0.5	14Bit 3.5MSPS Differential Inputs ADC	LTC2355IMSE-14	NEW SMD 155-6260●	18.46	16.41	14.77	12.30	10.54
2356 LT	11	MSOP	0.5	14Bit 3.5MSPS Differential Inputs ADC	LTC2356IMSE-14	NEW SMD 155-6262●	18.46	16.41	14.77	12.30	10.54
16-Bit A/D											
1865 LT	10	MSOP	8	16-bit ADC Dual Channel 250kbps	LTC1865IMS#PBF	NEW SMD 155-6256●	15.23	11.85	9.69	8.88	7.62

414040

Mftr.	Pins	Pkg	Linearity Error ± LSB	Conversion Time ± ½ LSB, µs	Features	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
8-Bit D/A												
08 ADI	16	DIP	1	0.15	M	DAC08CPZ	960-4448●	2.16	1.47	1.06	– –	– –
08 ADI	16	SOIC	1	0.15	M	DAC08CSZ	SMD 942-6116●	2.16	1.47	1.06	– –	– –
08 ADI	16	DIP	0.25	0.135	M	DAC08HPZ	960-4464●	3.66	2.49	1.85	– –	– –
81 NSC	6	TSOT	–	3	8Bit DAC R/R O/P	DAC081S101CIMK/NOPB	NEW SMD 168-5344●	1.69	1.31	1.07	0.98	0.88
81 NSC	6	TSOT	–	3	8Bit Micro Power DAC with I2C	DAC081C081CIMK/NOPB	NEW SMD 168-5396●	10.01	7.78	6.36	5.84	5.23
81 NSC	8	MSOP	–	3	8Bit Micro Power DAC with I2C	DAC081C085CIMM/NOPB	NEW SMD 168-5397●	11.33	8.81	7.21	6.62	5.92
081 NSC	8	MSOP	0.04	3	R2R, µWire	DAC081S101CIMM	SMD 110-1194●	1.93	1.35	1.10	1.03	0.97
82 NSC	10	MSOP	0.18	3	8-Bit Micro Power DUAL Digital-to-Analog Converter with Rail-to-Rail Output	DAC082S085CIMM	SMD 131-2535●	2.63	2.02	1.65	1.56	1.40
84 NSC	10	MSOP	0.18	3	8-Bit Micro Power QUAD Digital-to-Analog Converter with Rail-to-Rail Output	DAC084S085CIMM	SMD 131-2536●	3.29	2.53	2.07	1.96	1.72
500 MAX	16	DIP	1	4.5	(Quad) C, D/B, L, V	MAX500ACPE+	972-6373●	14.89	10.43	8.55	7.02	6.83
517 MAX	8	SOIC	1	1	D/B, R, R2R, V	MAX517ACSA+	SMD 972-5644●	6.21	4.54	3.62	– –	– –
517 MAX	8	DIP	1	1	D/B, R, R2R, V	MAX517BCPA+	972-6420●	5.48	3.52	2.92	– –	– –
517 MAX	8	DIP		6.0	8 Bit DAC	MAX517ACPA+	142-2333●	6.07	4.24	3.48	2.87	2.79
519 MAX	16	DIP		6.0	8 Bit DAC	MAX519ACPE+	142-2334●	6.81	4.76	3.90	3.21	3.12
519 MAX	16	NSOIC		6.0	8 Bit DAC	MAX519ACSE+	SMD 142-2335●	6.81	4.76	3.90	3.21	3.12
521 MAX	20	DIP	1	6	D/B, L, R2R, S, V	MAX521ACPP+	972-6268●	14.17	10.24	8.39	6.81	– –
534 MAX	16	QSOP	1	8	(Quad)C, R, R2R, S, V	MAX534AEEE+	SMD 972-5660●	11.01	8.90	7.13	– –	– –
557 ADI	16	DIP	1	1.5	L, MC, P, R, V	AD557JNZ	960-4472●	8.79	5.99	4.83	– –	– –
558 ADI	16	PDIP	0.5	0.8	1.25 MSPS, V, MC, C	AD558KNZ	143-8378●	16.05	12.76	11.34	– –	– –
558 ADI	16	DIP	0.5–	1.5	L, MC, P, R, V	AD558JNZ	107-9362●	11.77	9.03	7.66	– –	– –
800 NSC	16	MDIL	–	100	8-Bit DAC High Speed Current O/P	DAC0800LCN/NOPB	NEW 156-4677●	1.09	0.89	0.73	0.67	0.59
800 NSC	16	NSOIC	–	100	8-Bit DAC with Current O/P	DAC0800LCM/NOPB	NEW SMD 156-4704●	0.90	0.73	0.62	0.57	0.50
0800 NSC	16	DIP	0.5	0.15	DAC, 8-bit	DAC0800LCN	948-6640●	1.19	0.98	0.90	0.88	0.82
802 NSC	16	SOIC	–	100	8Bit DAC Single Channel	DAC0802LCM/NOPB	NEW SMD 168-5323●	1.05	0.81	0.66	0.61	0.55
0808 NSC	16	DIP	0.5	0.15	M	DAC0808LCN	948-6658●	1.66	1.22	0.96	0.90	0.84
830 NSC	20	MDIP	–	1	8-Bit [ILLEGAL CHAR:U+3bc]P Compatible DAC	DAC0830LCN/NOPB	NEW 156-4697●	5.77	4.74	3.96	3.63	3.18
0832 NSC	20	DIP	0.5	1	C, D/B, L, M	DAC0832LCN	948-6666●	2.81	2.30	2.11	2.06	1.69
0832 NSC	20	PLCC	0.5	1	C, D/B, M	DAC0832LCV	SMD 949-4316●	3.35	2.89	2.20	– –	– –
908 TI	28	TSSOP	–	30	8Bit DAC 165MSPS	DAC908E..	NEW SMD 164-8628●	3.79	3.03	2.51	2.28	2.22
908 TI	28	SOIC	0.5	30	D-A Converter, 8-Bit 125 MHZ	DAC908UG4	SMD 120-6887●	3.58	3.52	3.13	2.83	2.58
1320 MCHIP			–		8 Bit DAC with Two-Wire Interface	TC1320EOA	NEW 162-7182●	1.27	0.96	0.76	– –	– –
1329 LT	8	SOIC	0.9		DAC, 8-Bit	LTC1329CS8-10#PBF	SMD 133-0830●	2.91	1.69	1.64	1.60	1.56

RL Re-reeling available

Farnell

A/D and D/A Converters - continued

Mftr.	Pins	Pkg	Linearity Error ± LSB	Conversion Time ± ½ LSB, µs	Features	Mftrs. List No.	Order Code	1+	10+	Price Each 100+	250+	500+
1329 LT	8	SOIC	0.9		DAC, 8-Bit	LTC1329CS8-50#PBF	SMC 133-0831●	2.91	1.69	1.64	1.60	1.56
1428 LT	8	SOIC	0.9		DAC, 8-Bit	LTC1428CS8-50#PBF	SMC 133-0843●	2.94	2.27	1.86	1.60	1.56
1665 LT	16	SSOP	–	30	Octal 10Bit DAC Micropower	LTC1665CGN#PBF	NEW SMC 166-3661●	5.85	4.53	3.62	3.02	2.70
1665 LT	16	DIP	0.75	30	DAC, 8-Bit	LTC1665CN#PBF	133-0874●	5.83	4.52	3.68	3.22	2.86
2630 LT	6	SC-70	0.5	3.2	R, V, D/B, L	LTC2630CSC6-LZ8#PBF	SMC 143-2725●	1.88	1.11	0.90	– –	– –
2630 LT	6	SC-70	0.5	3.7	R, V, D/B, L	LTC2630HSC6-HZ8#PBF	SMC 143-2729●	2.27	1.35	1.10	– –	– –
2630 LT	6	SC-70	0.2	3.2	R, V, D/B, L	LTC2630HSC6-LZ8#PBF	SMC 143-2733●	2.27	1.35	1.10	– –	– –
2630 LT	6	SC-70	0.5	3.7	R, V, D/B, L	LTC2630ISC6-HZ8#PBF	SMC 143-2738●	2.10	1.24	1.01	– –	– –
2630 LT	6	SC-70	0.2	3.2	R, V, D/B, L	LTC2630ISC6-LZ8#PBF	SMC 143-2742●	2.10	1.24	1.01	– –	– –
3338 INTS	16	DIP	0.75	0.02	C, L, R2R	CA3338EZ	966-4106●	6.87	6.72	6.02	– –	– –
5189 MAX	28	QSOP	0.25–	25	Dual 8-Bit 40MHz Current/Voltage O/P DAC	MAX5189BEEI+	NEW SMC 156-9955●	5.58	4.96	4.06	3.44	3.19
5190 MAX	24	QSOP	0.25–	25	Single 8-Bit 40MHz Current/Voltage O/P DAC	MAX5190BEEG+	NEW SMC 156-9956●	4.43	3.93	3.23	2.72	2.54
5191 MAX	28	QSOP	0.25–	25	Dual 8-Bit 40MHz Current/Voltage Alternate-Phase O/P DAC	MAX5191BEEI+	NEW SMC 156-9957●	5.58	4.96	4.06	3.44	3.19
5300 ADI	6	SOT-23	–	4	2.7/ 5.5V R/R Voltage Output 8Bit DAC	AD5300BRTZ-500RL7	NEW SMC 165-1259●	2.25	1.77	1.44	1.31	1.27
5300 ADI	8	MSOP	1	4	MC, R, R2R, S, V	AD5300BRMZ	SMC 107-9290●	3.06	2.10	1.57	– –	– –
5301 ADI	8	MSOP	0.02	8	C, V, R2R, S	AD5301BRMZ	SMC 960-3956●	3.46	2.36	1.76	– –	– –
5302 ADI	10	MSOP	1	6	Dual 167 kSPS, Serial Input, V	AD5302ARMZ	SMC 143-8901●	2.65	1.82	1.35	– –	– –
5304 ADI	10	MSOP	0.02	8	4-Channel, C, D/B, R2R, S, V	AD5304BRMZ	SMC 942-5900●	6.47	4.42	3.57	– –	– –
5305 ADI	10	MSOP	0.02	6	4-Channel, C, D/B, R2R, S, V	AD5305BRMZ	SMC 960-4120●	6.47	4.42	3.57	– –	– –
5306 ADI	16	TSSOP	0.25	6	4-Channel, C, D/B, R2R, S, V	AD5306BRUZ	SMC 942-5918●	6.89	4.72	3.81	– –	– –
5308 ADI	16	TSSOP	0.75	6	8-Channel, D/B, R2R, V	AD5308BRUZ	SMC 942-6337●	8.82	6.06	4.89	– –	– –
5311 TI	6	SC-70	–	6	8Bit Single Channel DAC	DAC5311IDCKT	NEW SMC 167-9760●	2.17	1.62	1.30	1.19	1.01
5330 ADI	20	TSSOP	0.25	6	C, D/B, R2R, P, V	AD5330BRUZ	SMC 960-4170●	4.79	3.29	2.45	– –	– –
5332 ADI	20	TSSOP	0.25	6	2-Channel, C, D/B, R2R, P, V	AD5332BRUZ	SMC 107-9340●	4.39	3.62	3.04	– –	– –
5334 ADI	24	TSSOP	0.4	6	4-Channel, C, D/B, R2R, P, V	AD5334BRUZ	SMC 960-4189●	7.34	5.03	4.06	– –	– –
5346 ADI	38	TSSOP	0.15	8	8-Channel, P, V	AD5346BRUZ	SMC 158-1916●	4.83	3.87	3.18	– –	– –
5424 ADI	20	LFCSP	0.25	0.6	C, M, P, V	AD5424YCPZ	SMC 839-6990●	3.09	2.23	1.85	– –	– –
5424 ADI	16	TSSOP	0.25	0.6	C, M, P, V	AD5424YRUZ	SMC 158-1918●	3.10	2.19	1.63	– –	– –
5426 ADI	10	MSOP	0.25	1	C, M, S, V	AD5426YRMZ	SMC 158-1919●	2.09	1.72	1.45	– –	– –
5428 ADI	20	TSSOP	0.25	0.03	Dual 21.3 MSPS, L, C, M, Parallel Output	AD5428YRUZ	SMC 143-8902●	3.00	2.31	1.95	– –	– –
5429 ADI	16	TSSOP	0.5	0.03	Dual 2.47 MSPS, C, M, Serial Input	AD5429YRUZ	SMC 143-8903●	3.00	2.31	1.95	– –	– –
5548 MAX	16	TQFN	1	30	Dual, 8-Bit, Programmable DAC	MAX5548ETE+	SMC 143-3202●	6.50	4.55	3.74	3.05	2.99
5571 TI	6	SOT-23	0.25	8	D-A Converter, 8-Bit I2C Single Channel	DAC5571IDBVTG4	SMC 120-6846●	1.53	1.34	1.19	1.09	0.98
5601 ADI	6	SC-70	0.5	8	8-Bit nanoDAC D/A Converter, SPI Interface	AD5601BKSZ-500RL7	SMC 111-7913●	1.35	1.12	0.96	0.92	0.85
5620 TI	14	SOIC	0.9	10	8-Bit D-A Converter, Quad	TLC5620CD	SMC 845-4485●	2.66	2.08	1.55	– –	– –
5620 TI	14	PDIP	0.9	10	8-Bit D-A Converter, Quad	TLC5620CN	845-4493●	2.86	2.20	1.64	– –	– –
5620 TI	14	PDIP	0.9	10	8-Bit D-A Converter, Quad	TLC5620IN	845-4507●	2.15	1.54	1.17	– –	– –
5620 TI	14	SOIC	0.9	10	8-Bit D-A Converter, Quad	TLV5620CD	SMC 845-5694●	2.01	1.37	1.02	– –	– –
5620 TI	14	PDIP	0.9	10	8-Bit D-A Converter, Quad	TLV5620CN	845-5708●	2.31	1.57	1.17	– –	– –
5620 TI	14	SOIC	0.9	10	8-Bit D-A Converter, Quad	TLV5620ID	SMC 845-5716●	2.11	1.44	1.07	– –	– –
5621 TI	14	SOIC	0.9	10	8-Bit D-A Converter, Quad	TLV5621ID	SMC 845-5724●	2.28	1.86	1.54	– –	– –
5623 TI	8	SOIC	0.2	3	8-Bit D-A Converter	TLV5623ID	SMC 845-5732●	2.21	1.50	1.12	– –	– –
5625 TI	8	SOIC	0.5	3	8-Bit, 2.5 OR 12 US Dual DAC, SERIAL Input, PGRmABLE SETTLING TIME	TLV5625CDG4	SMC 123-4865●	2.63	2.01	1.59	1.54	1.53
5625 TI	8	SOIC	0.2	3	8-Bit D-A Converter, Dual	TLV5625ID	SMC 845-5740●	3.61	2.46	1.83	– –	– –
5626 TI	8	SOIC	0.5	0.8	8-Bit D-A Converter, Dual	TLV5626ID	SMC 845-5759●	4.01	2.73	2.03	– –	– –
5628 TI	16	SOIC	1	10	8 Bit Octal DAC	TLC5628CDWG4	SMC 123-4676●	3.78	2.90	2.28	2.20	2.15
5628 TI	16	PDIP	0.9	10	8-Bit D-A Converter, Quad	TLC5628CN	845-4515●	4.52	3.10	2.50	– –	– –
5628 TI	16	SOIC	0.9	10	8-Bit D-A Converter, OCTAL	TLV5628CDW	SMC 845-5767●	4.41	3.01	2.24	– –	– –
5641 TI	28	SOIC	0.25	35	C, R	THS5641AIDWG4	SMC 121-4392●	2.92	2.41	2.06	– –	– –
5660 INTS	28	SOIC	0.25	0.005	C, L, MC, R	HI5660IB	SMC 302-5548▲	7.97	6.48	5.32	– –	– –
5660 INTS	28	SOIC	0.25	0.005	C, L, R (IND TEMP)	HI5660IBZ	SMC 966-3495●	3.54	3.17	2.65	– –	– –
7111 ADI	16	PDIP			Logarithmic, M, C, L, MC	AD7111ABNZ	143-8380●	10.40	7.97	6.76	– –	– –
7125 ADI	48	LQFP	–		330MHz Triple 8Bit High Speed Video DAC	ADV7125KSTZ50	NEW SMC 166-1047●	7.38	6.06	4.97	4.56	3.80
7224 ADI	18	PDIP	1	5	143 kSPS, V, D/B, MC, C	AD7224KNZ	143-8381●	9.14	6.23	5.03	– –	– –
7225 ADI	24	PDIP	1	5	Quad, 200 kSPS, C, V, D/B, MC	AD7225KNZ	143-8382●	19.28	15.32	13.61	– –	– –
7225 ADI	24	PDIP	0.5	5	Quad, 200 kSPS, C, V, D/B, MC	AD7225LNZ	143-8383●	25.33	20.92	18.56	– –	– –
7225 TI	24	SOIC	1	5	8-Bit D-A Converter, Quad	TLC7225CDW	SMC 845-4590●	4.47	3.05	2.27	– –	– –
7226 ADI	20	DIP	1	5	4-Channel, C, L, M, MC, P, V	AD7226KNZ	107-9363●	18.06	14.37	12.76	– –	– –
7226 MAX	20	DIP	1	5	4-Channel, C, L, M, MC, P, V	MX7226KN+	118-7978●	14.77	10.51	10.23	9.96	9.71
7226 TI	20	PDIP	1		8-Bit D-A Converter, Quad	TLC7226CN	845-4604●	3.61	2.79	2.18	– –	– –
7226 TI	20	SOIC	1	5–	8-Bit D-A Converter, Quad	TLC7226IDW	SMC 845-4612●	3.97	2.99	2.23	– –	– –
7226 TI	20	PDIP	1	5	8-Bit D-A Converter, Quad	TLC7226IN	845-4620●	4.67	3.18	2.37	– –	– –
7226 ADI	20	PLCC	0.5	4	Quad, 143 kSPS, V, C, MC	AD7226KPZ	SMC 143-8385●	19.93	15.84	14.07	– –	– –
7228 ADI	24	PDIP	1	5	Octal, 200 kSPS, V, L, C, MC	AD7228ABNZ	143-8386●	21.75	17.29	15.36	– –	– –
7228 ADI	24	SOIC	1	5	Octal, 200 kSPS, V, L, C, MC	AD7228ABRZ	SMC 143-8387●	21.11	16.79	14.91	– –	– –
7228 ADI	28	PLCC	0.5	5	Octal, 200 kSPS, V, L, C, MC	AD7228ACPZ	SMC 143-8388●	24.77	19.70	17.50	– –	– –
7228 ADI	28	PLCC		5	Octal, V, L, C, MC	AD7228KPZ	SMC 143-8389●	45.04	35.81	31.81	– –	– –
7228 ADI	24	PDIP		5	Octal, V, L, C, MC	AD7228LNZ	143-8390●	47.28	37.58	33.38	– –	– –
7228 ADI	24	DIP	1	5	8-Channel, C, L, M, MC, P, V	AD7228KNZ	107-9364●	27.74	25.29	23.24	– –	– –
7302 ADI	20	TSSOP	1	1.2	833 kSPS, V, R2R, MC, R	AD7302BRUZ	SMC 143-8403●	4.63	3.16	2.55	– –	– –
7302 ADI	20	DIP	1	1.2	R, R2R, V, Dual Output	AD7302BNZ	107-9330●	4.78	3.25	2.63	– –	– –
7302 ADI	20	SOIC	–	1.2	2.7V/5.5 V Parallel Input Dual Voltage Output 8Bit DAC	AD7302BRZ.	NEW SMC 165-1261●	3.81	2.97	2.43	2.22	2.13
7303 ADI	8	DIP	1	1.2	D/B, R, R2R, S	AD7303BNZ	107-9413●	5.55	3.81	3.08	– –	– –
7304 ADI	16	WSOIC	1	1	1 MSPS, V, R2R, D/B	AD7304YRZ	SMC 143-8404●	9.10	7.03	5.96	– –	– –
7305 ADI	20	TSSOP	–	1	3V/5V R/R Quad 8Bit DAC Parallel-IN	AD7305BRUZ	NEW SMC 165-1263●	7.12	5.54	4.52	4.15	3.97
7524 ADI	16	DIP	0.5	0.4	C, L, M, MC, P	AD7524JNZ	960-5401●	6.52	4.45	3.59	– –	– –
7524 ADI	16	DIP	0.25	0.35	C, L, M, MC, P	PM7524FPZ	107-9365●	3.04	2.21	1.77	– –	– –
7524 TI	16	SOIC	0.5	5	C, L, M, MC, P	TLC7524CD	SMC 110-2951●	2.77	1.89	1.40	1.33	– –
7524 TI	16	DIP	0.5	0.1	C, L, M, MC, P	TLC7524CN	110-2997●	2.94	2.01	1.49	– –	– –
7524 TI	16	SOIC	0.5	100	8-Bit, 0.1 Us MDAC, Parallel Input, Fast Control Signalling for Dsp, Easy Micro Interface	TLC7524IDG4	SMC 123-4879●	2.15	1.66	1.32	1.27	1.17
7524 TI	16	PDIP	0.5	0.1	8-Bit D-A Converter, MULTIPLYING	TLC7524IN	845-4639●	2.05	1.52	1.12	– –	– –
7528 ADI	20	PDIP	0.5	180	5.6 MSPS, C, MC, L	AD7528LNZ	143-8603●	13.93	10.69	9.07	– –	– –
7528 ADI	20	DIP	1	0.2	2-Channel, C, L, M, MC, P	AD7528JNZ	960-4480●	8.34	6.40	5.43	– –	– –
7528 ADI	20	DIP	0.5	0.2	2-Channel, C, L, M, MC, P	AD7528KNZ	960-4499●	8.61	6.60	5.60	– –	– –
7528 MAX	20	DIP	1	0.2	2-Channel, C, L, M, MC, P	MX7528JN+	118-7979●	8.06	5.64	4.63	3.80	3.71
7528 ADI	20	DIP	0.5	0.2	2-Channel, C, L, M, MC, P	PM7528FPZ	107-9366●	4.70	3.46	2.76	– –	– –
7528 TI	20	PDIP	0.5	0.1	8-Bit D-A Converter, MULTIPLYING Dual	TLC7528CN	845-4647●	2.94	2.01	1.49	– –	– –
7628 ADI	20	WSOIC	0.5	350	2.9 MSPS, L, MC, M, C	AD7628KRZ	SMC 143-8615●	4.78	3.25	2.42	– –	– –
7801 ADI	20	SOIC	1	2	R, R2R, V	AD7801BRZ	SMC 942-5829●	4.67	3.20	2.38	– –	– –
8228 ADI	20	DIP	1	5	C, L, M, MC, V	DAC8228FPZ	107-9367●	5.38	4.34	3.67	– –	– –
8408 ADI	28	SOIC	0.5	190	Quad 5.26 MSPS, M, C, L, MC	DAC8408FSZ	SMC 143-8739●	14.41	11.48	9.73	– –	– –
8800 ADI	20	SOIC	–	0.8	Octal 8Bit D/A Converter	DAC8800FSZ	NEW SMC 165-1260●	14.95	13.28	10.88	9.97	8.55
8800 ADI	20	PDIP	0.5	0.8	Octal 1.25 MSPS, V	DAC8800FPZ	143-8740●	15.08	11.57	9.81	– –	– –
8803 ADI	16	SOIC	0.5	0.6	1.7 MSPS, V, MC	AD8803ARZ	SMC 143-8630●	6.87	4.71	3.80	– –	– –
8840 ADI	24	wideSOIC	1	40	8 Bit DAC Octal Channel with 4 Quadrant Multiplying CMOS TrimDAC	DAC8840FSZ.	NEW SMC 155-8392●	16.54	14.97	13.65	12.54	10.37
9741 ADI	72	LFCSP	0.05		Dual 250 MSPS, Parallel Input, R, C	AD9741BCPZ	SMC 143-8930●	11.46	8.79	7.45	– –	– –

RL Re-reeling available

Key to Features: C = CMOS, D/B = Double-Buffered, L = Latches, M = Multiplying, MC = Microprocessor Compatible, MP = Micropower, P = Parallel O/P, R = Internal Reference, R2R = Rail-to-Rail output, S = Serial O/P, S/A = Successive Approximation, S/H = Sample and Hold, T = Temp. Sensor, T/H = Track and Hold, V = Voltage O/P

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Mftr.	Pins	Pkg	Linearity Error ± LSB	Conversion Time ± ½ LSB, µs	Features	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
10-Bit D/A												
101 NSC	6	TSOT		4.5	10Bit Micro Power DAC with I2C	DAC101C081CIMK/NOPB	NEW SMD 168-5398●	12.66	9.85	8.05	7.38	6.62
101 NSC	6	TSOT	0.15	8	R2R, µWire	DAC101S101CIMK	SMD 110-1196●	3.06	2.14	1.75	1.65	1.53
101 NSC	8	MSOP	0.15	8	R2R, µWire	DAC101S101CIMM	SMD 110-1197●	2.21	1.66	1.38	1.34	1.31
102 NSC	10	MSOP	0.35	4.5	10-Bit Micro Power DUAL Digital-to-Analog Converter with Rail-to-Rail Output	DAC102S085CIMM	SMD 131-2537●	1.96	1.63	1.39	1.34	1.31
104 NSC	10	MSOP	0.35	4.5	10-Bit Micro Power QUAD Digital-to-Analog Converter with Rail-to-Rail Output	DAC104S085CIMM	SMD 131-2538●	3.06	2.54	2.17	2.16	2.10
108 NSC	16	TSSOP	0.35	4.5	10-Bit Micro Power OCTAL Digital-to-Analog Converter with Rail-to-Rail Outputs	DAC108S085CIMT	SMD 149-5063●	5.67	4.74	3.82	3.41	3.14
1321 MCHIP	8	NSOIC		10	10Bit DAC with Serial Interface & Voltage O/P	TC1321EOA	NEW SMD 160-5580●	1.63	1.23	0.97	– –	– –
1660 LT	16	SSOP		30	Octal 10Bit DAC Micropower	LTC1660CGN#PBF	NEW SMD 166-3656●	11.33	8.79	7.03	5.86	5.24
1660 LT	16	SSOP		30	Octal 10Bit DAC Micropower	LTC1660IGN#PBF	NEW SMD 166-3657●	12.70	9.85	7.88	6.56	5.88
1660 LT	16	DIP	0.75	30	DAC, 10-Bit	LTC1660CN#PBF	133-0867●	10.75	6.08	4.39	4.28	4.19
1661 LT	8	DIP		30	Dual 10Bit DAC Micropower	LTC1661CN8#PBF	NEW SMD 166-3658●	3.10	2.40	1.92	1.60	1.43
1661 LT	8	MSOP	0.75	30	DAC, Dual 10-Bit	LTC1661CMS8#PBF	SMD 133-0868●	3.19	1.80	1.49	1.45	1.42
1662 LT	8	MSOP	0.75	400	DAC, Dual 10-Bit	LTC1662CMS8#PBF	SMD 133-0869●	6.47	5.39	4.39	3.85	3.36
1663 LT	8	MSOP		30	10Bit R/R Micropower DAC with 2-Wire Interface	LTC1663-8IMS8#PBF	NEW SMD 166-3659●	3.77	2.93	2.34	1.95	1.75
1663 LT	5	TSOT-23		30	10Bit R/R Micropower DAC with 2-Wire Interface	LTC1663-1CS5#TRMPBF	NEW SMD 166-3854●	3.38	2.62	2.10	1.75	1.57
1663 LT	8	MSOP	0.75	30	DAC, 10-Bit	LTC1663-8CMS8#PBF	SMD 133-0870●	3.19	2.46	2.03	1.77	1.58
1663 LT	8	MSOP	0.75	30	DAC, 10-Bit	LTC1663CMS8#PBF	SMD 133-0872●	3.19	2.46	2.03	1.77	1.58
1669 LT	8	MSOP		30	10Bit R/R Micropower DAC with I²C Interface	LTC1669IMS8#PBF	NEW SMD 166-3662●	3.77	2.93	2.34	1.95	1.75
1669 LT	8	MSOP	0.75	30	DAC, 10-Bit	LTC1669-8CMS8#PBF	SMD 133-0875●	3.19	2.46	2.03	1.77	1.58
1669 LT	8	MSOP	0.75	30	DAC, 10-Bit	LTC1669CMS8#PBF	SMD 133-0876●	3.31	2.01	1.59	1.51	1.47
2630 LT	6	SC-70	1	4.4	R, V, D/B, L	LTC2630CSC6-HZ10#PBF	SMD 143-2720●	2.38	1.41	1.14	– –	– –
2630 LT	6	SC-70	1	3.9	R, V, D/B, L	LTC2630CSC6-LZ10#PBF	SMD 143-2723●	2.38	1.41	1.14	– –	– –
2630 LT	6	SC-70	1	4.4	R, V, D/B, L	LTC2630HSC6-HZ10#PBF	SMD 143-2727●	2.71	1.59	1.29	– –	– –
2630 LT	6	SC-70	1	3.9	R, V, D/B, L	LTC2630HSC6-LZ10#PBF	SMD 143-2731●	2.71	1.59	1.29	– –	– –
2630 LT	6	SC-70	1	4.4	R, V, D/B, L	LTC2630ISC6-HZ10#PBF	SMD 143-2736●	2.58	1.53	1.25	– –	– –
2630 LT	6	SC-70	1	3.9	R, V, D/B, L	LTC2630ISC6-LZ10#PBF	SMD 143-2740●	2.58	1.53	1.25	– –	– –
5183 MAX	28	QSOP	0.5	25	Dual 10-Bit 40MHz Current/Voltage O/P DACs	MAX5183BEEI+	NEW 156-9952●	7.16	6.35	5.20	4.41	4.10
5184 MAX	24	QSOP	0.5	25	Single 10-Bit 40MHz Current/Voltage O/P DAC	MAX5184BEEG+	NEW SMD 156-9953●	5.16	4.58	3.76	3.19	2.95
5185 MAX	28	QSOP	0.5	25	Dual 10-Bit 40MHz Current/Voltage Alternate-Phase O/P DAC	MAX5185BEEI+	NEW SMD 156-9954●	7.16	6.35	5.20	4.41	4.10
5310 ADI	8	MSOP	1	6	MC, R, R2R, S, V	AD5310BRMZ	SMD 942-5543●	4.16	2.86	2.12	– –	– –
5311 ADI	8	MSOP	0.5	7	C, D/B, MC, R2R, S, V	AD5311BRMZ	SMD 960-4146●	4.79	3.29	2.45	– –	– –
5312 ADI	10	MSOP	0.5	7	R, R2R, S, V	AD5312BRMZ	SMD 942-5667●	5.25	3.61	2.91	– –	– –
5314 ADI	10	MSOP	0.5	7	4-Channel, C, D/B, MC, R2R, S, V	AD5314BRMZ	SMD 942-5926●	7.74	5.32	4.29	– –	– –
5315 ADI	10	MSOP	0.5	7	4-Channel, C, D/B, MC, R2R, S, V	AD5315BRMZ	SMD 960-4154●	7.74	5.32	4.23	– –	– –
5316 ADI	16	TSSOP	0.5	7	4-Channel, C, D/B, MC, R2R, S, V	AD5316BRUZ	SMD 107-9338●	8.17	5.61	4.53	– –	– –
5317 ADI	16	TSSOP	0.5	7	4-Channel, C, D/B, MC, R2R, S, V	AD5317BRUZ	SMD 942-5934●	4.92	4.08	3.48	– –	– –
5331 ADI	20	TSSOP	0.5	7	C, D/B, MC, R2R, P, V	AD5331BRUZ	SMD 942-5950●	4.62	3.15	2.54	– –	– –
5333 ADI	24	TSSOP	0.5	7	2-Channel, C, D/B, MC, R2R, P, V	AD5333BRUZ	SMD 942-5969●	5.66	4.35	3.63	– –	– –
5336 ADI	24	TSSOP	0.5	7	4-Channel, C, D/B, MC, R2R, P, V	AD5336BRUZ	SMD 942-5977●	8.75	6.00	4.84	– –	– –
5338 ADI	8	MSOP	0.5	7	2-Channel, 2.5-to-5V, 250µA, 2 Wire Interface, Dual Voltage Output, Double-Buffered 10-Bit DAC	AD5338ARMZ	SMD 158-1915●	3.96	2.80	2.09	– –	– –
5347 ADI	40	TSSOP (RU 38)	0.5	7	8-Channel, P, V	AD5347BRUZ	SMD 158-1917●	8.79	6.43	5.27	– –	– –
5433 ADI	20	LFCSP	0.5	0.035	C, M, P	AD5433YCP	SMD 839-7040▲	3.98	3.26	2.76	– –	– –
5433 ADI	20	TSSOP	0.5	0.035	C, M, P	AD5433YRUZ	SMD 158-1920●	3.98	3.18	2.60	– –	– –
5439 ADI	16	TSSOP	0.5	0.03	Dual, 2.47 MSPS, S, D/B, L	AD5439YRUZ	SMD 143-8373●	6.13	4.20	3.39	3.27	3.05
5440 ADI	24	TSSOP	0.5	0.035	Dual 21.3 MSPS, C, M, Parallel Input	AD5440YRUZ	SMD 143-8904●	4.47	3.48	2.94	– –	– –
5583 ADI	48	WTSSOP	1	5	200 kSPS, V, Parallel Input, D/B, C, R2R	AD5583YRVZ	SMD 143-8377●	10.27	7.92	6.72	– –	– –
5604 TI	16	TSSOP		3	10Bit DAC 102kSPS	TLV5604IPW.	NEW SMD 164-8632●	6.03	4.83	4.02	3.63	3.54
5604 TI	16	SOIC	1	9	10-Bit D-A Converter, Quad	TLV5604CD	SMD 845-5570●	6.59	4.49	3.63	– –	– –
5606 TI	8	SOIC		3	10Bit DAC 102kSPS	TLV5606CD.	NEW SMD 164-8633●	1.99	1.58	1.32	1.22	1.17
5606 TI	8	SOIC	1	3	10-Bit D-A Converter	TLV5606ID	SMD 845-5589●	2.81	1.91	1.42	– –	– –
5608 TI	20	SOIC	1	1	10-Bit D-A Converter	TLV5608IDW	SMD 845-5597●	8.73	5.95	4.80	– –	– –
5611 ADI	6	SC-70	4	10	10-Bit nanoDAC D/A Converter. SPI Interface	AD5611AKSZ-500RL7	SMD 111-7912●	1.67	1.37	1.20	1.14	1.05
5615 TI	8	SOIC	0.5	12.5	10 Bit DAC With Low Power	TLC5615CDG4	SMD 123-4666●	2.64	2.02	1.60	1.55	1.44
5615 TI	8	PDIP	0.5	12.5	10-Bit D-A Converter	TLC5615CP	845-4469●	3.39	2.47	1.84	– –	– –
5615 TI	8	SOIC	1	12.5	10-Bit, 12.5 US DAC, SERIAL Input, Low Power	TLC5615IDG4	SMD 123-4938●	2.76	2.11	1.71	1.57	1.53
5615 TI	8	PDIP	0.5	12.5	10-Bit D-A Converter	TLC5615IP	845-4477●	3.81	2.60	1.93	– –	– –
5617 TI	8	SOIC		3	10Bit DAC 93kSPS	TLV5617ACD.	NEW SMD 164-8634●	3.42	2.74	2.29	2.06	2.01
5617 TI	8	SOIC	0.5	2.5	10-Bit D-A Converter, Dual	TLV5617AID	SMD 845-5651●	4.52	3.28	2.44	– –	– –
5631 TI	20	SOIC	1	3	10-Bit D-A Converter	TLV5631IDW	SMD 845-5791●	8.32	6.38	5.41	– –	– –
5637 TI	8	SOIC	0.5	0.8	10-Bit D-A Converter	TLV5637CD	SMD 845-5813●	5.70	3.89	3.14	– –	– –
5637 TI	8	SOIC	0.5	0.8	10-Bit D-A Converter	TLV5637ID	SMD 845-5830●	6.06	4.13	3.33	– –	– –
5760 INTS	28	SOIC	1	0.02	C, R	HI5760BIB	SMD 302-5561▲	7.96	6.43	5.82	– –	– –
5760 INTS	28	SOIC	1	0.02	C, R (IND TEMP)	HI5760BIBZ	SMD 966-3509●	5.59	5.04	4.20	– –	– –
6311 TI	6	SC-70		6	10Bit Single Channel DAC	DAC6311IDCKT	NEW SMD 167-9762●	2.74	2.06	1.65	1.50	1.27
6571 TI	6	SOT-23	0.5	9	D-A Converter, 10-Bit I²C Single Channel	DAC6571IDBVT	SMD 121-2268●	3.11	2.12	1.58	1.36	1.21
6574 TI	10	VSSOP	0.5	9	D-A Converter, 10-Bit Quad I²C	DAC6574IDGSG4	SMD 120-6851●	4.70	3.59	2.88	– –	– –
7391 ADI	8	PDIP	1.6	60	17 kSPS, C, V, D/B, MC, MP	AD7391ANZ	149-8719●	6.32	4.57	3.61	– –	– –
7391 ADI	8	SOIC	1.6	60	17 kSPS, C, V, D/B, MC, MP	AD7391ARZ	SMD 149-8720●	6.14	4.43	3.58	– –	– –
7533 ADI	16	PDIP		600	1.7 MSPS, C, M	AD7533KNZ	143-8604●	6.91	4.71	3.80	– –	– –
7533 ADI	16	PDIP		600	1.7 MSPS, C, M	AD7533LNZ	143-8605●	8.29	5.65	4.56	– –	– –
7533 ADI	16	DIP	2	0.6	C, M	AD7533JNZ	960-5410●	6.39	4.35	3.51	– –	– –
7805 ADI	28	SSOP	3	1.5	667 kSPS, V, D/B	AD7805BRSZ	SMD 143-8617●	10.39	8.26	7.01	– –	– –
7808 ADI	24	DIP	3	4	C, D/B, R, S	AD7808BNZ	158-1895●	17.85	14.36	12.12	– –	– –
7954 TI	30	TSSOP			10Bit 1MSPS 4 Channel Single Ended ADC	ADS7954SDBT	NEW SMD 164-5394●	3.68	2.87	2.15	1.99	1.84
7955 TI	30	TSSOP			10Bit 1MSPS 8 Channel Single Ended ADC	ADS7955SDBT	NEW SMD 164-5397●	4.70	3.66	2.74	2.52	2.36
7957 TI	38	TSSOP			10bit 1MSPS 16 Channel Single Ended ADC	ADS7957SDBT	NEW SMD 164-5403●	6.73	5.24	3.93	3.62	3.37
7960 TI	38	TSSOP			10bit 1MSPS 12 Channel Single Ended ADC	ADS7956SDBT	NEW SMD 164-5400●	5.72	4.45	3.34	3.09	2.87
9743 ADI	72	LFCSP	0.1		Dual 250 MSPS, Parallel Input, R, C	AD9743BCPZ	SMD 143-8932●	13.81	10.99	9.32	– –	– –
9761 ADI	28	SSOP	0.5	0.035	2-Channel, C, R	AD9761ARSZ	SMD 942-5632●	13.85	11.01	9.78	– –	– –
9958 ADI	56	LFCSP	0.5		2-Channel 500 MSPS DDS With 10-Bit DACs	AD9958BCPZ	SMD 111-7878●	32.20	25.60	22.74	22.30	20.87
9959 ADI	56	LFCSP	0.5		4 Channel 500 MSPS DDS With 10-Bit DACs	AD9959BCPZ	SMD 111-7876●	33.12	27.35	27.14	26.43	25.75

Erklärung: C = CMOS, D/B = Double-Buffered, L = Latches, M = Multiplying, MC = Microprocessor Compatible, MP = Micropower, P = Parallel O/P, R = Internal Reference, R2R = Rail-to-Rail output, S = Serial O/P, S/A = Successive Approximation, S/H = Sample and Hold, T = Temp. Sensor, T/H = Track and Hold, V = Voltage O/P

RL Re-reeling available

A/D and D/A Converters - continued

414042

	Mftr.	Pins	Pkg	Linearity Error ± LSB	Conversion Time ± ½ LSB, µs	Features	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
12-Bit D/A													
101	NSC	6	TSOT	0.25	8	R2R, µWire	DAC121S101CIMK	SMC 110-1198	3.48	2.45	2.00	1.88	1.74
121	NSC	8	MSOP		6	12Bit DAC with R/R O/P & I2C Interface	DAC121C085CIMM/NOPB	NEW SMC 168-5356	3.05	2.38	1.94	1.78	1.59
121	NSC	8	MSOP		8	12Bit DAC with R/R O/P	DAC121S101CIMM/NOPB	NEW SMC 168-5394	7.36	5.72	4.68	4.30	3.85
122	NSC	10	MSOP	0.7	6	12-Bit Micro Power DUAL Digital-to-Analog Converter with Rail-to-Rail Output	DAC122S085CIMM	SMC 131-2539	4.71	3.61	2.96	2.78	2.47
124	NSC	10	MSOP	0.7	6	12-Bit Micro Power QUAD Digital-to-Analog Converter with Rail-to-Rail Output	DAC124S085CIMM	SMC 131-2540	7.91	6.06	4.95	4.68	4.14
128	NSC	16	TSSOP	0.75	6	12BIT 8CHANNEL D/A	DAC128S085CIMT	SMC 149-5073	10.10	8.06	6.72	5.76	5.39
312	ADI	20	DIP	1	0.5	M	DAC312HPZ	107-9368	7.78	5.30	4.27	– –	– –
514	MAX	24	DIP	0.5	0.25	C, MC, P, R	MAX514ACNG+	129-0867	26.56	18.58	15.23	14.55	14.18
531	MAX	14	SOIC	1	25	C, R, S, V	MAX531BCSD+	SMC 972-5652	13.84	8.90	7.37	– –	– –
532	MAX	16	DIP		2.5	12 Bit Daul MDAC	MAX532BCPE+	142-2337	20.13	13.81	11.44	8.48	8.28
532	MAX	16	SOIC	0.5	2.5	(Dual) M, S, V	MAX532ACWE+	SMC 972-6071	24.65	17.25	14.14	11.60	11.32
664	ADI	28	PDIP	0.5	8	125 kSPS, V, D/B	AD664JNZ-BIP	143-8344	70.36	66.56	59.77	– –	– –
667	ADI	28	DIP	0.5	4	D/B, L, MC, P, R, V	AD667JNZ	960-4502	16.12	12.82	11.38	– –	– –
762	TI	20	SSOP	1	7	12-Bit, Parallel Input Digital-To-Analog Converter	DAC7621E	SMC 141-7408	4.35	3.56	3.01	– –	– –
767	ADI	24	PDIP	0.125	3	500 kSPS, V, MC, L, R	AD767KNZ	143-8616	21.82	17.34	15.40	– –	– –
767	ADI	24	DIP	0.5	4	L, MC, P, R, V	AD767JNZ	960-4510	16.55	13.16	11.68	– –	– –
811	TI	28	CDIP	0.5	3	12 Bit DAC R/R with Microprocessor Interface Voltage O/P	DAC811AH	NEW 156-4877	81.18	66.97	59.53	48.72	41.21
813	TI	28	SOIC		4	12Bit DAC 167kSPS	DAC813JU....	NEW SMC 164-8626	16.35	13.49	12.80	11.58	11.28
811	TI	28	PDIP		3	Microprocessor-Compatible 12-Bit Digital-to-Analog Converter	DAC811KP	146-0248	19.37	16.73	15.30	14.14	13.50
813	TI	28	PDIP		4.5	Microprocessor-Compatible 12-Bit D/A Converter	DAC813KP	146-0256	20.80	17.97	16.42	15.18	14.50
1257	LT	8	SOIC		6	12Bit Voltage Output DAC Single Supply	LTC1257CS8#PBF	NEW SMC 166-3607	8.13	6.30	5.04	4.20	3.76
1257	LT	8	DIP	0.5	6	MC, S, V	LTC1257CN8#PBF	956-0963	7.91	4.51	3.43	– –	– –
1446	LT	8	SOIC		14	Dual 12Bit R/R Micropower DAC	LTC1446LCS8#PBF	NEW SMC 166-3627	12.25	9.49	7.59	6.33	5.66
1446	LT	8	DIP	0.5–	14	2-Channel, R, R2R	LTC1446CN8#PBF	956-1153	11.34	6.44	5.04	– –	– –
1446	LT	8	SOIC	0.5	14	2-Channel, MP, R, R2R	LTC1446CS8#PBF	SMC 956-1161	11.46	6.52	5.12	– –	– –
1448	LT	8	SOIC		14	Dual 12Bit R/R Micropower DAC	LTC1448CS8#PBF	NEW SMC 166-3629	11.09	8.60	6.88	5.73	5.13
1448	LT	8	DIP	0.5	14	DAC, Dual 12-Bit	LTC1448CN8#PBF	133-0844	10.68	6.94	6.05	5.60	5.19
1450	LT	24	DIP	0.5	14	DAC, 12-Bit	LTC1450CN#PBF	133-0845	9.23	6.00	5.24	4.84	4.51
1451	LT	8	DIP	0.5	14	C, MP, R, R2R	LTC1451CN8#PBF	956-1170	8.15	4.63	3.79	– –	– –
1451	LT	8	SOIC	0.5	14–	C, MP, R, R2R	LTC1451CS8#PBF	SMC 956-1188	8.63	4.89	4.01	– –	– –
1451	LT	8	SOIC	0.5	14–	C, MP, R, R2R	LTC1451IS8#PBF	SMC 956-1196	9.33	5.29	4.34	– –	– –
1452	LT	8	DIP	0.5	14–	C, M, R2R	LT1452CN8#PBF	956-0521	6.98	5.40	4.34	– –	– –
1452	LT	8	DIP	0.5	14	M, MP, R2R	LTC1452CN8#PBF	956-1200	7.21	4.07	3.35	– –	– –
1453	LT	8	SOIC		14	Dual 12Bit R/R Micropower DAC	LTC1453CS8#PBF	NEW SMC 166-3631	8.88	6.88	5.51	4.59	4.11
1453	LT	8	DIP	4	14	DAC, 12-Bit	LTC1453CN8#PBF	133-0847	8.69	4.92	3.69	3.61	3.52
1454	LT	16	DIP	0.5	14	DAC, Dual 12-Bit	LTC1454CN#PBF	133-0848	11.69	6.64	5.46	5.15	5.02
1454	LT	16	DIP	0.5	14	DAC, Dual 12-Bit	LTC1454LCN#PBF	133-0850	11.75	10.69	9.32	8.60	7.85
1456	LT	8	DIP	0.5	4	DAC, 12-Bit	LTC1456CN8#PBF	133-0851	8.15	4.63	3.77	3.59	3.50
1458	LT	28	SOIC	0.5	14	4-Channel, 5V, MP, R, S	LTC1458CSW#PBF	SMC 956-1218	21.61	12.27	9.50	– –	– –
1590	LT	16	SOIC		0.3	Dual Serial 12Bit Multiplying DAC	LTC1590CS#PBF	NEW SMC 166-3647	11.33	8.79	7.03	5.86	5.24
1590	LT	16	DIP	0.5		DAC, Dual 12-Bit	LTC1590CN#PBF	133-0852	11.46	6.48	5.12	5.04	4.92
1594	LT	16	SOIC	3		12-Bit ADC, 4-Ch 3V	LTC1594LCS#PBF	SMC 133-0855	10.02	6.50	5.68	5.24	4.88
1659	LT	8	MSOP	0.5		DAC, 12-Bit	LTC1659CMS8#PBF	SMC 133-0866	8.47	6.54	5.32	4.68	4.17
2620	LT	16	SSOP		7	Octal 12Bit R/R DAC	LTC2620CGN#PBF	NEW SMC 166-3697	14.19	11.00	8.80	7.33	6.56
2621	LT	10	DFN	1	7	DAC, 12-Bit	LTC2621CDD#PBF	SMC 133-0952	3.67	2.83	2.30	2.03	1.79
2621	LT	10	DFN	1	7	DAC, 12-Bit	LTC2621CDD-1#PBF	SMC 133-0953	3.78	2.14	1.69	1.61	1.58
2622	LT	8	MSOP	1	7	DAC, Dual 12-Bit	LTC2622CMS8#PBF	SMC 133-0954	5.20	3.16	2.49	2.03	1.98
2626	LT	10	DFN	1	2.7	DAC, 12-Bit	LTC2626CDD#PBF	SMC 133-0955	3.97	2.25	1.85	1.61	1.43
2626	LT	10	DFN	1	2.7	DAC, 12-Bit	LTC2626CDD-1#PBF	SMC 133-0956	2.59	2.00	1.63	1.41	1.37
2627	LT	12	DFN	1	7	DAC, Dual 12-Bit	LTC2627CDE#PBF	SMC 133-0957	5.81	3.53	2.79	2.60	2.52
2627	LT	12	DFN	1	7	DAC, Dual 12-Bit	LTC2627CDE-1#PBF	SMC 133-0958	5.81	3.53	2.79	2.45	2.21
2630	LT	6	SC-70	1	4.4	R, R2R, D/B, L, S, V	LTC2630CSC6-LM12#PBF	SMC 143-2693	2.71	1.59	1.29	– –	– –
2630	LT	6	SC-70	1	4.8	R, V, D/B, L	LTC2630ACSC6-HM12#PBF	SMC 143-2706	3.63	2.13	1.75	– –	– –
2630	LT	6	SC-70	1	4.8	R, V, D/B, L	LTC2630ACSC6-HZ12#PBF	SMC 143-2707	3.63	2.13	1.75	– –	– –
2630	LT	6	SC-70	1	4.8	R, V, D/B, L	LTC2630AHSC6-HM12#PBF	SMC 143-2711	4.11	2.43	1.96	– –	– –
2630	LT	6	SC-70	1	4.8	R, V, D/B, L	LTC2630AHSC6-HZ12#PBF	SMC 143-2712	4.11	2.43	1.96	– –	– –
2630	LT	6	SC-70	1	4.4	R, V, D/B, L	LTC2630AHSC6-LM12#PBF	SMC 143-2713	4.11	2.43	1.96	– –	– –
2630	LT	6	SC-70	1	4.4	R, V, D/B, L	LTC2630AHSC6-LZ12#PBF	SMC 143-2714	4.11	2.43	1.96	– –	– –
2630	LT	6	SC-70	1	4.8	R, V, D/B, L	LTC2630AISC6-HM12#PBF	SMC 143-2715	3.94	2.33	1.90	– –	– –
2630	LT	6	SC-70	1	4.8	R, V, D/B, L	LTC2630AISC6-HZ12#PBF	SMC 143-2716	3.94	2.33	1.90	– –	– –
2630	LT	6	SC-70	1	4.4	R, V, D/B, L	LTC2630AISC6-LM12#PBF	SMC 143-2717	3.94	2.33	1.90	– –	– –
2630	LT	6	SC-70	1	4.4	R, V, D/B, L	LTC2630AISC6-LZ12#PBF	SMC 143-2718	3.94	2.33	1.90	– –	– –
2630	LT	6	SC-70	2	4.8	R, V, D/B, L	LTC2630CSC6-HM12#PBF	SMC 143-2719	2.71	1.68	1.63	– –	– –
2630	LT	6	SC-70	2	4.8	R, V, D/B, L	LTC2630CSC6-HZ12#PBF	SMC 143-2721	2.71	1.59	1.29	– –	– –
2630	LT	6	SC-70	1	4.4	R, V, D/B, L	LTC2630CSC6-LZ12#PBF	SMC 143-2724	2.71	1.59	1.29	– –	– –
2630	LT	6	SC-70	2	4.8	R, V, D/B, L	LTC2630HSC6-HM12#PBF	SMC 143-2726	3.06	1.82	1.48	– –	– –
2630	LT	6	SC-70	2	4.8	R, V, D/B, L	LTC2630HSC6-HZ12#PBF	SMC 143-2728	3.06	1.82	1.48	– –	– –
2630	LT	6	SC-70	2	4.4	R, V, D/B, L	LTC2630HSC6-LM12#PBF	SMC 143-2730	3.06	1.82	1.48	– –	– –
2630	LT	6	SC-70	2	4.4	R, V, D/B, L	LTC2630HSC6-LZ12#PBF	SMC 143-2732	3.06	1.82	1.48	– –	– –
2630	LT	6	SC-70	2	4.8	R, V, D/B, L	LTC2630ISC6-HM12#PBF	SMC 143-2735	2.97	1.75	1.42	– –	– –
2630	LT	6	SC-70	2	4.8	R, V, D/B, L	LTC2630ISC6-HZ12#PBF	SMC 143-2737	2.97	1.75	1.42	– –	– –
2630	LT	6	SC-70	2	4.4	R, V, D/B, L	LTC2630ISC6-LM12#PBF	SMC 143-2739	2.97	1.75	1.42	– –	– –
2630	LT	6	SC-70	2	4.4	R, V, D/B, L	LTC2630ISC6-LZ12#PBF	SMC 143-2741	2.97	1.75	1.42	– –	– –
2641	LT	8	DFN	0.5	1	R, V	LTC2641CDD-12#PBF	SMC 143-2743	5.71	3.48	2.74	– –	– –
2641	LT	8	DFN	0.5	1	R, V	LTC2641IDD-12#PBF	SMC 143-2748	6.86	4.17	3.29	– –	– –
2642	LT	10	DFN	0.5	1	R, V	LTC2642CDD-12#PBF	SMC 143-2753	5.71	3.48	2.74	– –	– –
2642	LT	10	DFN	0.5	1	R, V	LTC2642IDD-12#PBF	SMC 143-2756	6.86	4.17	3.29	– –	– –
2755	LTC	64	QFN		2	12 Bits DAC with Quad Current O/P	LTC2755CUP-12#PBF	NEW SMC 160-9748	11.43	10.22	8.74	7.99	6.86
2755	LTC	64	QFN		2	12 Bits DAC with Quad Current O/P	LTC2755IUP-12#PBF	NEW SMC 160-9752	13.71	12.24	10.45	9.58	8.23
4725	MCHIP	6	SOT-23	0.2	6	Single 12-Bit R/R DAC with Non-volatile EEPROM Memory	MCP4725A0T-E/CH	NEW SMC 157-8449	0.95	0.72	0.56	– –	– –
4821	MCHIP	8	PDIP	3	4.5	D/B, R, R2R	MCP4821-E/P	143-9411	1.98	1.15	0.99	– –	– –
4821	MCHIP	8	SOIC	3	4.5	D/B, R, R2R	MCP4821-E/SN	SMC 143-9412	2.08	1.20	1.05	– –	– –
4822	MCHIP	8	PDIP	3	4.5	Dual, D/B, R, R2R	MCP4822-E/P	143-9413	2.59	1.50	1.30	– –	– –
4822	MCHIP	8	SOIC	3	4.5	Dual, D/B, R, R2R	MCP4822-E/SN	SMC 143-9414	2.59	1.50	1.30	– –	– –
4921	MCHIP	8	DIP	0.25	4.5	12-Bit DAC Singl W Spi I/F	MCP4921-E/P	133-2112	1.70	0.99	0.86	– –	– –
4921	MCHIP	8	SOIC	0.25	4.5	12-Bit DAC Singl W SPI I/F	MCP4921-E/SN	SMC 133-2113	1.33	1.11	0.76	– –	– –
4922	MCHIP	14	SOIC	0.25	4.5	12-Bit DAC Dual W SPI I/F	MCP4922-E/SL	SMC 133-2114	1.79	1.49	1.00	– –	– –
4922	MCHIP	14	DIP		4.5	12 Bit DAC,Dual,SPI	MCP4922-E/P	129-2244	2.33	1.31	1.13	– –	– –
5320	ADI	8	MSOP	1	8	MC, R, R2R, S, V	AD5320BRMZ	SMC 942-5551	5.45	3.75	3.03	– –	– –
5321	ADI	8	MSOP	0.02	8	C, R, V, Serial I/P	AD5321BRMZ	SMC 960-3964	6.47	4.42	3.57	– –	– –
5322	ADI	10	MSOP	1	8	R, R2R, S, V	AD5322BRMZ	SMC 942-5675	7.78	5.97	5.06	– –	– –
5324	ADI	10	MSOP	1	8	4-Channel, C, D/B, R2R, S, V	AD5324BRMZ	SMC 942-5942	12.65	9.77	8.29	– –	– –
5325	ADI	10	MSOP	1	8	4-Channel, C, D/B, R2R, S, V	AD5325BRMZ	SMC 107-9339	12.65	9.77	8.29	– –	– –
5327	ADI	16	TSSOP	1	8	4-Channel, C, D/B, R2R, S, V	AD5327BRUZ	SMC 960-4162	13.19	10.19	8.64	– –	– –

RL Re-reeling available

	Mftr.	Pins	Pkg	Linearity Error ± LSB	Conversion Time ± ½ LSB, µs	Features	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
12-Bit D/A													
5328	ADI	16	TSSOP		8	Octal Voltage Output 12Bit DAC	AD5328BRUZ	NEW SMD 166-1046●	15.20	12.16	10.12	9.35	8.44
5328	ADI	16	TSSOP	16	6	Octal, 167 kSPS, V, Serial Input, R2R	AD5328ARUZ	SMD 143-8369●	12.65	9.77	8.29	– –	– –
5339	ADI	8	MSOP	2	8	2-Channel, D/B, V, Dual Output, 2-wire interface	AD5339ARM	SMD 839-6833▲	7.03	4.80	3.87	– –	– –
5340	ADI	24	TSSOP	1	8	C, D/B, R2R, P, V	AD5340BRUZ	SMD 960-4197●	3.69	3.17	2.78	– –	– –
5341	ADI	20	TSSOP	1	8–	C, D/B, R2R, P, V	AD5341BRUZ	SMD 158-1897●	5.53	3.92	3.16	– –	– –
5343	ADI	20	TSSOP	1	8–	2-Channel C, D/B, R2R, P, V	AD5343BRUZ	SMD 107-9341●	6.99	5.74	4.85	– –	– –
5344	ADI	28	TSSOP	1	8–	4-Channel C, D/B, R2R, P, V	AD5344BRUZ	SMD 960-4200●	14.46	11.18	9.48	– –	– –
5383	ADI	100	LQFP	1	6–	32-Channel, D/B, R, R2R, V	AD5383BSTZ-5	SMD 107-8362●	46.90	38.73	34.39	– –	– –
5391	ADI	64	LFCSP	1	6	16-Ch, V, R, T, R2R	AD5391BCPZ-5	SMD 143-8370●	27.05	22.33	19.83	19.45	18.19
5391	ADI	52	LQFP	1	8–	16-Channel, D/B, R, R2R, V	AD5391BSTZ-3	SMD 107-8356●	28.55	23.45	19.78	– –	– –
5391	ADI	52	LQFP	1	8–	16-Channel, D/B, R, R2R, V	AD5391BSTZ-5	SMD 107-8357●	28.55	23.45	19.78	– –	– –
5405	ADI	40	LFCSP	1	30	Dual, 21.3 MSPS, M, C, L	AD5405YCPZ	SMD 143-8371●	8.24	5.67	4.58	– –	– –
5415	ADI	24	TSSOP	1	0.12–	2-Channel, 2.47MSPS, C, D/B, M, S	AD5415YRUZ	SMD 107-8350●	8.15	5.60	4.52	– –	– –
5441	ADI	8	MSOP	0.5	5	12-Bit Serial Input Multiplying DAC with Single Current O/P	AD5441BRMZ	NEW SMD 160-7228●	4.20	3.37	3.05	2.81	2.40
5443	ADI	10	MSOP	1	–	C, D/B, M, S	AD5443YRMZ	SMD 158-1921●	4.61	3.26	2.62	– –	– –
5444	ADI	10	MSOP	1	0.016	2.7 MSPS, C, M, D/B, Serial Input	AD5444YRMZ	SMD 143-8905●	4.10	3.18	2.68	– –	– –
5445	ADI	20	TSSOP	1	–	C, M, P	AD5445YRUZ	SMD 158-1923●	4.68	3.32	2.68	– –	– –
5445	ADI	8	MSOP	1	160–	C, D/B, M, V	AD5452YRMZ	SMD 945-3091●	4.66	3.82	3.22	– –	– –
5447	ADI	24	TSSOP	1	0.08–	2-Channel, 21.3MSPS, C, M, P	AD5447YRUZ	SMD 107-8349●	8.13	5.57	4.50	– –	– –
5449	ADI	16	TSSOP	1	0.08	Dual 2.47 MSPS, C, M, Serial Input	AD5449YRUZ	SMD 143-8907●	8.03	5.51	4.45	– –	– –
5530	ADI	16	TSSOP	1	20–	V, Serial I/P	AD5530BRUZ	SMD 107-9394●	7.78	5.97	5.06	– –	– –
5582	ADI	48	TSSOP	1	5–	4-Channel, V, Parallel I/P	AD5582YRVZ	SMD 158-1902●	15.01	12.34	10.04	– –	– –
5610	TI	20	SOIC	1	1–	12-Bit D-A Converter	TLV5610IDW	SMD 845-5600●	12.62	9.68	8.21	– –	– –
5614	TI	16	SOIC	1–	3	12-Bit D-A Converter,Quad	TLV5614CD	SMD 845-5627●	11.06	8.48	7.19	– –	– –
5614	TI	16	SOIC	1–	3	12-Bit D-A Converter,Quad	TLV5614ID	SMD 845-5635●	9.86	8.67	7.73	– –	– –
5616	TI	8	PDIP	1	3	12-Bit D-A Converter	TLV5616CP	845-5643●	4.63	3.16	2.55	– –	– –
5618	TI	8	SOIC	1	3	12-Bit D-A Converter, Dual.	TLV5618AID	SMD 845-5660●	7.75	5.28	4.26	– –	– –
5618	TI	8	PDIP	1	3	12-Bit D-A Converter, Dual.	TLV5618AIP	845-5678●	7.75	5.28	4.26	– –	– –
5619	TI	20	SOIC		1	12Bit DAC 1MSPS	TLV5619CDW.	NEW SMD 164-8635●	3.97	3.18	2.65	2.39	2.33
5619	TI	20	TSSOP		1	12Bit DAC 1MSPS	TLV5619CPW	NEW SMD 164-8636●	3.97	3.18	2.65	2.39	2.33
5619	TI	20	TSSOP		1	12Bit DAC 1MSPS	TLV5619IPW..	NEW SMD 164-8637●	4.26	3.41	2.84	2.57	2.51
5619	TI	20	SOIC	1	1	12-Bit D-A Converter	TLV5619IDW	SMD 845-5686●	5.00	3.40	2.74	– –	– –
5620	ADI	8	MSOP	1	8	125 kSPS, Serial Input, R, R2R, Serial Input, V	AD5620CRMZ-2	SMD 143-8913●	5.06	3.45	2.78	– –	– –
5621	ADI	6	SC-70	6	6	12-Bit nanoDAC D/A Converter, SPI Interface	AD5621AKSZ-500RL7	SMD 111-7911●	1.83	1.51	1.37	1.23	1.16
5623	ADI	10	MSOP	1	3	Dual, 12-Bit nanoDAC With 5ppm/°C On-Chip Reference	AD5623RBRMZ-3	SMD 127-4274●	6.33	4.35	3.51	3.38	3.15
5623	ADI	10	MSOP	1	3	Dual, 12-Bit nanoDAC With 5ppm/°C On-Chip Reference	AD5623RBRMZ-5	SMD 127-4273●	6.33	4.35	3.51	3.38	3.15
5624	ADI	10	MSOP	1	3	2.7 V to 5.5 V, 450 µA, Rail-to-Rail Output, Quad, 12-Bit nanoDACs	AD5624BRMZ.	SMD 127-4271●	9.88	7.72	6.55	6.28	5.87
5624	ADI	10	MSOP	1	3	Quad,12-Bit nanoDAC With 5ppm/°C On-Chip Reference	AD5624RBRMZ-3	SMD 127-4270●	8.61	6.86	6.49	6.32	6.16
5624	ADI	10	MSOP	1	3	Quad,12-Bit nanoDAC With 5ppm/°C On-Chip Reference	AD5624RBRMZ-5	SMD 127-4269●	11.84	9.14	7.75	7.43	6.96
5624	ADI	10	MSOP	1	3	287 kSPS, Serial Input, V, R2R	AD5624BRMZ	SMD 143-8914●	10.02	7.72	6.55	– –	– –
5625	ADI	14	TSSOP	1	3	Serial Input, R2R	AD5625BRUZ	SMD 143-8915●	10.02	7.72	6.55	– –	– –
5625	ADI	14	TSSOP	1	3	Serial Input, R2R, R	AD5625RBRUZ-2	SMD 143-8916●	12.54	9.70	8.23	– –	– –
5626	ADI	8	MSOP	1	16	12-Bit nanoDAC with Serial Interface & Single Voltage O/P FSD 4.095V	AD5626BRMZ	NEW SMD 160-7229●	2.72	2.17	1.97	1.81	1.54
5627	ADI	10	MSOP	1	3	Serial Input, V, R2R	AD5627BRMZ	SMD 143-8917●	5.17	3.52	2.84	– –	– –
5627	ADI	10	MSOP	1	3	Serial Input, V, R, R2R	AD5627RBRMZ-2	SMD 143-8919●	6.97	4.80	3.87	– –	– –
5628	ADI	16	TSSOP	1	3	Serial Input, V, R, R2R	AD5628BRUZ-2	SMD 143-8921●	13.54	11.13	9.38	– –	– –
5630	TI	20	SOIC	1	3	12-Bit D-A Converter	TLV5630IDW	SMD 845-5775●	13.14	10.08	8.55	– –	– –
5630	TI	20	TSSOP	1	3	12-Bit D-A Converter	TLV5630IPWG4	SMD 120-7302●	13.24	10.40	8.35	– –	– –
5636	TI	8	SOIC	1	1	12-Bit D-A Converter	TLV5636ID	SMD 845-5805●	6.95	4.74	3.82	– –	– –
5638	TI	8	SOIC	1	1	12-Bit D-A Converter	TLV5638CD	SMD 845-5848●	6.68	4.55	3.68	– –	– –
5638	TI	8	SOIC	1	1	12-Bit D-A Converter	TLV5638ID	SMD 845-5856●	7.13	4.86	3.92	– –	– –
5873	MAX	68	QFN	0.13	14	12-Bit, High-Dynamic Performance DAC	MAX5873EGK+D	SMD 143-3204●	20.84	14.58	11.95	9.81	9.55
7229	TI	16	TSSOP			12Bit 1MHz Single/Dual Unipolar Input ADC	ADS7229IPW	NEW SMD 164-5388●	4.01	3.05	2.35	2.15	2.01
7233	ADI	8	PDIP	1	10	100 kSPS, V, MC, C	AD7233ANZ	143-8391●	12.80	9.81	8.32	– –	– –
7237	ADI	24	DIP	1	10	2-Channel, C, D/B, L, MC, P, R, V	AD7237JNZ	960-4529●	25.12	20.10	17.86	– –	– –
7243	ADI	16	DIP	1	0.5	MC, R, S, V	AD7243ANZ	960-5380●	7.35	5.85	4.97	– –	– –
7245	ADI	24	PDIP	0.75	7	143 kSPS, V, R, C, MC, D/B, L	AD7245AANZ	143-8393●	12.46	9.56	8.11	– –	– –
7245	ADI	28	PLCC	0.75	7	143 kSPS, V, R, C, MC, D/B, L	AD7245AAPZ	SMD 143-8394●	13.89	11.04	9.81	– –	– –
7247	ADI	24	PDIP	1	8	V, C, D/B, MC, R	AD7247AANZ	143-8395●	25.12	20.10	17.86	17.51	16.39
7247	ADI	24	PDIP		8	V, C, D/B, MC, R	AD7247JNZ	143-8397●	21.61	17.82	15.86	15.55	14.54
7248	ADI	20	PDIP	0.75	7	V, R, C, MC, D/B, L	AD7248AANZ	143-8398●	13.72	10.52	8.92	– –	– –
7248	ADI	20	WSOIC	0.75	7	V, R, C, MC, D/B, L	AD7248AARZ	SMD 143-8399●	13.31	10.21	8.66	– –	– –
7248	ADI	20	DIP	1	10	C, D/B, L, MC, P, R, V	AD7248JNZ	107-9369●	10.43	8.31	7.04	– –	– –
7249	ADI	16	PDIP	1	3	125 kSPS, V, R, C, MC	AD7249ANZ	143-8400●	16.65	13.23	11.75	– –	– –
7249	ADI	16	WSOIC	1	3	125 kSPS, V, R, C, MC	AD7249ARZ	SMD 143-8401●	16.15	12.84	11.40	– –	– –
7311	TI	6	SC-70		6	12Bit Single Channel DAC	DAC7311IDCKT	NEW SMD 167-9763●	2.97	2.23	1.78	1.62	1.37
7390	ADI	8	PDIP	1.6	60	17 kSPS, C, V, D/B, MC, MP	AD7390ANZ	149-8717●	8.26	6.00	4.71	– –	– –
7390	ADI	8	SOIC	1.6	60	17 kSPS, C, V, D/B, MC, MP	AD7390ARZ	SMD 149-8718●	8.42	6.46	5.44	– –	– –
7392	ADI	20	WSOIC	1.8	60	17 kSPS, C, R2R, L	AD7392ARZ	SMD 143-8405●	8.88	6.85	5.81	– –	– –
7398	ADI	16	SOIC	1	6	4-Channel C, D/B, S, V	AD7398BRZ	SMD 960-4243●	14.54	11.56	10.27	– –	– –
7512	TI	8	VSSOP	1	10	D-A Converter, 12-Bit Buffered, Low PWR, Single	DAC7512E/250G4	SMD 120-6852●	2.30	2.01	1.78	1.60	1.47
7512	TI	6	SOT-23	1	10	12-Bit, Low-Power, Rail-to-Rail Output, Serial Input DAC	DAC7512N/250G4	SMD 932-4151●	2.02	1.55	1.24	– –	– –
7513	TI	8	VSSOP	1	10	D-A Converter, Serial, 12-Bit Low Cost	DAC7513E/250G4	SMD 120-6853●	2.54	2.22	1.99	1.78	1.63
7513	TI	8	SOT-23	1	10	12-Bit, Low-Power, Rail-to-Rail Output, Serial Input DAC	DAC7513N/250G4	SMD 932-4160●	2.47	2.17	1.93	1.75	1.58
7537	ADI	28	PLCC	0.5	1.5	Dual, 667 kSPS, M, C, MC	AD7537KPZ	SMD 143-8606●	20.63	16.40	14.56	14.28	13.37
7537	ADI	24	DIP	1	1.5	2-Channel, C, D/B, L, M, MC, P	AD7537JNZ	107-9370●	15.77	12.53	11.13	– –	– –
7541	TI	18	PDIP	1	1	D-A Converter,12 Bits,P	DAC7541AJP	121-2269●	10.44	8.00	6.79	6.51	6.09
7541	TI	18	PDIP	1	1	D-A Converter,12 Bits,P	DAC7541AJP..	840-8548	8.28	6.90	5.81	– –	– –
7541	ADI	18	PDIP	1	0.6	M, C	AD7541AJNZ	143-8607●	10.38	7.96	6.75	– –	– –
7541	ADI	18	PDIP	0.5	0.6	M, C	AD7541AKNZ	143-8609●	11.53	8.85	7.50	– –	– –
7541	LT	18	SOIC	0.5	0.6	DAC, 12-Bit	LTC7541ABSW#PBF	SMD 133-0982●	6.87	4.04	3.88	3.78	3.68
7541	LT	18	SOIC	0.5	0.6	DAC, 12-Bit	LTC7541AJSW#PBF	SMD 133-0983●	4.08	3.16	2.58	2.21	2.15
7541	LT	18	SOIC	0.5	0.6	DAC, 12-Bit	LTC7541AKSW#PBF	SMD 133-0984●	5.55	4.28	3.50	2.98	2.90
7542	ADI	16	DIP	1	2	C, D/B, L, M, MC	AD7542JNZ	960-4537●	19.01	15.11	13.42	– –	– –
7542	ADI	16	DIP	0.5	2	C, D/B, L, M, MC	AD7542KNZ	960-4545●	20.98	16.68	14.82	– –	– –
7542	MAX	16	DIP	0.5	0.375	C, D/B, L, M, MC	MX7542KN+	118-7980●	15.10	10.57	8.66	7.10	6.93
7543	MAX	16	DIP	1	1	C, D/B, L, M, MC, S	MX7543JN+	118-7981●	9.87	6.91	5.66	5.41	5.27
7543	LT	16	SOIC	0.5	0.25	DAC, 12-Bit	LTC7543KSW#PBF	SMD 133-0985●	11.23	7.30	6.37	5.87	5.46
7545	LT	20	SOIC	1	1	DAC, 12-Bit	LTC7545ABSW#PBF	SMD 133-0987●	7.56	5.82	4.77	4.18	3.70
7545	LT	20	SOIC	1	1	DAC, 12-Bit	LTC7545ACSW#PBF	SMD 133-0988●	5.31	4.11	3.35	2.89	2.82
7545	LT	20	SOIC	1	1	DAC, 12-Bit	LTC7545AKSW#PBF	SMD 133-0989●	6.74	3.82	3.16	2.83	2.74
7545	LT	20	SOIC	1	1	DAC, 12-Bit	LTC7545ALSW#PBF	SMD 133-0990●	4.62	3.56	2.92	2.50	2.43
7545	ADI	20	PDIP	2	2	M, L, C	AD7545JNZ	143-8611●	11.19	8.59	7.28	– –	– –
7545	ADI	20	DIP	0.5	1	C, L, M, MC, P	AD7545AKNZ	960-4553●	9.11	8.08	7.87	– –	– –

RL Re-reeling available

A/D and D/A Converters - continued

	Mftr.	Pins	Pkg	Linearity Error ± LSB	Conversion Time ± ½ LSB, µs	Features	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
12-Bit D/A													
7545	ADI	20	DIP	1	2	C, L, M, MC, P	AD7545KNZ	960-4561●	19.81	16.17	11.81	– –	– –
7545	ADI	20	DIP	1	1	C, L, M, MC, P	PM7545FPZ	107-9371●	6.87	5.09	3.96	– –	– –
7547	ADI	24	DIP	1	1.5	2-Channel, C, D/B, L, M, MC, P	AD7547JNZ	960-4570●	12.04	9.73	8.65	– –	– –
7547	ADI	24	PDIP	0.5	1.5	667 kSPS, M, C	AD7547KNZ	143-8612●	21.04	17.37	15.42	– –	– –
7547	ADI	28	PLCC	0.5	1.5	667 kSPS, M, C	AD7547KPZ	SMC 143-8613●	23.92	19.02	16.89	– –	– –
7548	ADI	20	PDIP	0.5	1.5	M, C, MC	AD7548KNZ	143-8614●	15.94	12.68	11.26	– –	– –
7548	ADI	20	DIP	1	1.5	C, MC, R	AD7548JNZ	107-9422●	12.14	9.67	9.14	– –	– –
7549	ADI	20	DIP	1	1.5	2-Channel, C, D/B, L, M, MC, P	AD7549JNZ	107-9373●	23.95	19.04	16.91	– –	– –
7551	TI	12	SON	0.35	5	12-Bit, Ultra-Low Glitch, Voltage Output DAC	DAC7551IDRNTG4	SMC 137-9267●	2.17	1.66	1.47	1.43	1.39
7554	TI	10	MSOP	0.08	5	12 Bit Digital to AnaLog	DAC7554IDGSG4	SMC 118-0122●	6.71	5.89	5.24	4.72	4.30
7571	TI	6	SOT-23	1	10	12 Bit D-A Converter w/I2C Interface	DAC7571IDBVTG4	SMC 120-6854●	2.69	2.37	2.10	1.89	1.73
7574	TI	10	VSSOP	1	10	12 Bit Quad D-A Converter With I2C Interface	DAC7574IDGSG4	SMC 120-6855●	8.97	7.23	5.80	– –	– –
7611	BB	8	SOIC	0.5	7	C, L, MC, R, R2R, S	DAC7611U	SMC 109-7419	3.70	3.03	2.57	– –	– –
7611	TI	8	SOIC	1	7	D-A Converter, 12-Bit Serial I/P	DAC7611UB	SMC 121-2270●	5.00	3.46	2.79	– –	– –
7612	TI	8	SOIC		10	12Bit DAC 130kSPS	DAC7612U.	NEW SMC 164-8620●	4.11	3.28	2.73	2.47	2.41
7612	TI	8	SOIC		7	Dual, 12-Bit Serial Input Digital-To-Analog Converter	DAC7612UB	SMC 146-0208●	4.80	3.67	2.90	2.82	2.74
7613	TI	24	SSOP	2	10	C, D/B, MC, R	DAC7613E	SMC 121-4349●	4.46	3.04	2.45	– –	– –
7614	TI	16	PDIP		10	12Bit DAC 89kSPS	DAC7614P.	NEW 164-8621●	12.79	10.55	9.69	9.06	8.82
7614	TI	16	SOIC		10	12Bit DAC 89kSPS	DAC7614UB.	NEW SMC 164-8622●	9.19	7.46	6.59	5.95	5.80
7614	TI	16	SOIC	1	10	D-A Converter Quad 12-Bit Serial Input	DAC7614U	SMC 121-2271●	9.45	7.25	6.15	– –	– –
7615	TI	20	SSOP		10	12Bit DAC 89kSPS	DAC7615E.	NEW SMC 164-8623●	9.09	7.72	6.82	6.16	6.00
7615	TI	16	SOIC		5	Quad, Serial Input, 12-Bit, Voltage Output Digital-To-Analog Converter	DAC7615U	SMC 146-0211●	9.12	7.35	6.32	5.85	5.70
7615	TI	16	SOIC		5	Quad, Serial Input, 12-Bit, Voltage Output Digital-To-Analog Converter	DAC7615UB	SMC 146-0212●	9.80	7.90	6.78	6.27	5.99
7616	TI	16	SOIC		5	Quad, Serial Input, 12-Bit, Voltage Output Digital-To-Analog Converter	DAC7616U	SMC 146-0215●	7.35	5.92	5.09	4.71	4.49
7624	TI	28	PDIP		5	12-Bit Quad Voltage Output Digital-to-Analog Converter	DAC7624PB	146-0217●	14.21	12.26	11.00	10.70	10.42
7624	TI	28	SOIC	1	10	D-A Converter, 12-Bit, 4-Channel, Parallel, 28Ld	DAC7624U	SMC 121-2272●	14.46	11.09	9.41	– –	– –
7625	TI	28	DIP	2	5	4-Channel, D/B + Readback, MC, P, V	DAC7625P	121-4358●	15.00	11.92	10.59	– –	– –
7625	BB	28	DIP	2	5	4-Channel, D/B + Readback, MC, P, V	DAC7625P.	332-3675	11.09	9.08	8.09	– –	– –
7625	TI	28	SOIC	1	10	D-A Converter, 12-Bit, GP Parallel, 28Ld	DAC7625U	SMC 121-2273●	14.19	10.85	8.70	– –	– –
7714	TI	16	SOIC	1	10	Quad, Serial Input, 12-Bit, Voltage Output Digital-To-AnaLog Converter	DAC7714UBG4	SMC 123-4784●	17.45	13.33	10.49	10.21	9.95
7714	TI	16	SOIC	1	10	Quad, Serial Input, 12-Bit, Voltage Output Digital-To-AnaLog Converter	DAC7714UG4	SMC 123-4918●	15.85	12.11	9.54	9.28	9.04
7715	TI	16	SOIC		8	Quad, Serial Input, 12-Bit, Voltage Output Digital-To-Analog Converter	DAC7715U	SMC 146-0223●	13.67	11.80	10.78	9.98	9.52
7724	TI	28	PLCC	1	10	D-A Converter, Quad/Parallel 12-Bit ±10V	DAC7724N	SMC 121-2275	15.82	12.57	11.17	– –	– –
7724	TI	28	SOIC	1	10	12-Bit Quad Voltage Output Digital-To-AnaLog Converter	DAC7724UBG4	SMC 123-4953●	18.13	13.86	10.91	10.61	10.35
7724	TI	28	SOIC	1	10	12-Bit Quad Voltage Output Digital-To-AnaLog Converter	DAC7724UG4	SMC 123-4804●	16.40	12.53	10.05	9.65	9.55
7725	TI	28	SOIC	1	10	D-A Converter, Quad Parallel 12-Bit ±10V	DAC7725UB	SMC 121-2276●	16.65	13.23	11.75	– –	– –
7800	TI	16	SOIC	1	0.8	12-Bit Dual D-A Converter	DAC7800LU	SMC 121-2281●	28.51	21.79	17.48	– –	– –
7800	TI	16	SOIC		0.4	Dual Monolithic CMOS 12-Bit Multiplying Digital-to-Analog Converter	DAC7800KU	SMC 146-0233●	14.55	12.57	11.06	10.77	10.49
7801	TI	24	PDIP		0.4	Dual Monolithic CMOS 12-Bit Multiplying Digital-to-Analog Converter	DAC7801KP	146-0235●	24.66	19.61	17.41	17.08	15.98
7802	TI	24	PDIP		0.4	Dual Monolithic CMOS 12-Bit Multiplying Digital-to-Analog Converter	DAC7802KP	146-0240●	19.28	16.64	15.20	14.06	13.43
7822	TI	40	QFN	1	0.2	12-Bit Multiplying DAC, Dual Channel, Parallel Input	DAC7822IRTATG4	SMC 139-0690●	6.89	5.52	4.52	3.87	3.51
7837	ADI	24	PDIP	1	3	250 kSPS, V, C, MC	AD7837ANZ	143-8619●	19.99	15.90	14.12	13.85	12.96
7837	ADI	24	SOIC	0.5	3	250 kSPS, V, C, MC	AD7837BRZ	SMC 143-8620●	22.78	18.11	16.08	15.77	14.76
7839	ADI	44	MQFP	2	30	Octal, 33 kSPS, V	AD7839ASZ	SMC 143-8622●	38.07	30.26	26.88	26.36	24.67
7845	ADI	24	DIP	1	1	C, L, M, MC, P, V	AD7845JNZ	960-4588●	9.96	7.64	6.48	– –	– –
7845	ADI	24	SOIC	1	5	200 kSPS, V, M, C, L, MC	AD7845JRZ	SMC 143-8624●	9.68	7.42	6.30	– –	– –
7847	ADI	24	PDIP	1	3	Dual 250 kSPS, V, C, MC, M, L	AD7847ANZ	143-8627●	20.79	16.53	14.69	14.40	13.48
7847	ADI	24	SOIC	0.5	3	Dual 250 kSPS, V, C, MC, M, L	AD7847BRZ	SMC 143-8628●	23.68	18.83	16.72	16.40	15.35
7943	ADI	16	DIP	0.5	0.6	M	AD7943BNZ	107-9421●	6.54	5.14	4.05	– –	– –
7945	ADI	20	DIP	0.5	0.6	M, R	AD7945BNZ	107-9425●	7.18	5.18	4.05	– –	– –
7948	ADI	20	DIP	0.5	0.6	M, R	AD7948BNZ	107-9427●	8.10	5.68	4.16	– –	– –
7950	TI	30	TSSOP			12Bit 1MSPS 4 Channel Single Ended ADC	ADS7950SBDBT	NEW SMC 164-5393●	4.40	3.41	2.57	2.37	2.19
7951	TI	30	TSSOP			12Bit 1MSPS 8 Channel Single Ended ADC	ADS7951SBDBT	NEW SMC 164-5396●	5.64	4.40	3.30	3.04	2.82
7952	TI	38	TSSOP			12Bit 1MSPS 12 Channel Single Ended ADC	ADS7952SBDBT	NEW SMC 164-5399●	6.98	5.43	4.08	3.76	3.50
7953	TI	38	TSSOP			12Bit 1MSPS 16 Channel Single Ended ADC	ADS7953SBDBT	NEW SMC 164-5402●	6.99	5.64	4.74	4.42	4.31
8043	LT	8	SOIC		0.25	Serial 12Bit Multiplying DAC	LTC8043FS8#PBF	NEW SMC 166-3751●	8.01	6.22	4.97	4.14	3.71
8043	TI	8	SOIC		0.25	CMOS 12-Bit Serial Input Mulitplying Digital-to-Analog Converter	DAC8043U	SMC 146-0244●	6.09	4.15	3.35	3.23	3.01
8043	TI	8	SOIC		0.25	CMOS 12-Bit Serial Input Mulitplying Digital-to-Analog Converter	DAC8043UC	SMC 146-0245●	7.61	5.84	4.95	4.75	4.44
8043	LT	8	DIP	1	1	DAC, 12-Bit	LTC8043EN8#PBF	133-0991●	8.63	4.91	3.85	3.36	3.23
8043	LT	8	DIP	1	1	DAC, 12-Bit	LTC8043FN8#PBF	133-0992●	8.26	4.71	3.69	3.58	3.49
8043	ADI	8	PDIP	1	1	4 MSPS, M, D/B, C	DAC8043AFPZ	143-8737●	7.82	5.33	4.30	– –	– –
8043	ADI	8	DIP	1	1	C, D/B, L, M, MC	DAC8043FPZ	960-4596●	11.19	8.59	7.28	– –	– –
8143	LT	16	SOIC	0.5	0.25	DAC, 12-Bit	LTC8143FSW#PBF	SMC 133-0993●	11.23	7.30	6.37	5.87	5.46
8222	ADI	24	SOIC	1	1	Dual 1 MSPS, M, C, D/B	DAC8222FSZ	SMC 143-8738●	28.30	22.50	19.98	– –	– –
8222	ADI	24	DIP	1	1	2-Channel, C, D/B, M	DAC8222FPZ	107-9408●	28.86	21.61	18.22	– –	– –
8248	ADI	24	DIP	1	1	2-Channel, C, D/B, MC	DAC8248FPZ	158-1906●	22.22	18.34	16.29	– –	– –
8300	ADI	8	SOIC	0.5	14	71 kSPS, V, C, D/B	AD8300ARZ	SMC 143-8629●	9.56	7.33	6.22	– –	– –
8412	ADI	28	PLCC	0.25	10	Quad, 167 kSPS, V, D/B, C	DAC8412FPCZ	SMC 138-9171●	37.92	30.15	26.78	– –	– –
8412	ADI	28	PLCC	0.25	10	Quad, 167 kSPS, V, D/B, C	DAC8412FPCZ	SMC 138-9171●	37.92	30.15	26.78	– –	– –
8412	ADI	28	DIP	1	6	4-Channel, C, D/B, R	DAC8412FPZ	107-9431●	37.67	30.15	26.78	– –	– –
8420	ADI	16	SOIC	0.75	13	Quad, 125 kSPS, V, C	DAC8420FSZ	SMC 138-9172●	40.23	32.21	28.61	28.06	26.26
8420	ADI	16	SOIC	1	8	4-Channel, C, V, Serial I/P	DAC8420ESZ	SMC 942-5810●	46.97	37.58	33.38	– –	– –
8420	ADI	16	SOIC	0.75	13	Quad, 125 kSPS, V, C	DAC8420FSZ	SMC 138-9172●	40.23	32.21	28.61	28.06	26.26
8512	ADI	8	PDIP	0.75	16	62.5 kSPS, V, R, L, R2R, C, MC	DAC8512FPZ	138-9173●	8.73	5.95	4.80	– –	– –
8512	ADI	8	SOIC	0.75	16	62.5 kSPS, V, R, L, R2R, C, MC	DAC8512FSZ	SMC 138-9174●	8.64	5.89	4.75	– –	– –
8512	ADI	8	PDIP	0.75	16	62.5 kSPS, V, R, L, R2R, C, MC	DAC8512FPZ	138-9173●	8.73	5.95	4.80	– –	– –
8512	ADI	8	SOIC	0.75	16	62.5 kSPS, V, R, L, R2R, C, MC	DAC8512FSZ	SMC 138-9174●	8.64	5.89	4.75	– –	– –
9233	ADI	48	LFCSP	0.5		12-Bit, 105 MSPS, 1.8 V A/D Converter	AD9233BCPZ-105	SMC 127-4205●	33.91	26.00	24.00	23.35	22.73
9233	ADI	48	LFCSP	0.5–	–	12-Bit, 125 MSPS, 1.8 V A/D Converter	AD9233BCPZ-125	SMC 127-4204●	40.19	30.81	27.68	26.94	26.23
9745	ADI	72	LFCSP	0.25		Dual 250 MSPS, Parallel Input, R, C	AD9745BCPZ	SMC 143-8933●	13.77	12.79	11.38	– –	– –
9752	ADI	28	SOIC	2	0.035	C, L, R	AD9752ARZ	SMC 960-3883●	10.53	8.13	6.89	– –	– –

Key to Features: C = CMOS, D/B = Double-Buffered, L = Latches, M = Multiplying, MC = Microprocessor Compatible, MP = Micropower, P = Parallel O/P, R = Internal Reference, R2R = Rail-to-Rail output, S = Serial O/P, S/A = Successive Approximation, S/H = Sample and Hold, T = Temp. Sensor, T/H = Track and Hold, V = Voltage O/P

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Mftr.	Pins	Pkg	Linearity Error ± LSB	Conversion Time ± ½ LSB, µs	Features	Mftrs. List No.		Order Code	Price Each 1+	10+	100+	250+	500+
14-Bit D/A													
TI	28	TSSOP	2.5	0.03	C, MC, P, R	DAC904E		SMD 501-1826	4.92	4.79	4.66	– –	– –
TI	28	TSSOP	2.5	0.03	C, MC, P, R	DAC904EG4		SMD 121-4430●	8.55	7.96	7.39	6.88	6.40
TI	28	SOIC	2.5	0.03	D-A Converter, 14-Bit 165MSPS	DAC904UG4		SMD 120-6885●	10.18	8.93	7.94	7.16	6.52
LT	10	DFN	1	9	14-Bit, Rail-to-Rail DAC	LTC2611CDD#PBF		SMD 133-0945●	2.85	2.20	1.79	1.55	1.51
LT	10	DFN	1	9	14-Bit, Rail-to-Rail DAC	LTC2611CDD-1#PBF		SMD 133-0946●	4.37	2.47	1.96	1.81	1.76
LT	8	MSOP	1	7	Dual, 14-Bit, Rail-to-Rail DAC	LTC2612CMS8#PBF		SMD 133-0947●	6.30	4.86	3.97	3.47	3.10
LT	10	DFN	1	4.8	14-Bit, Rail-to-Rail DAC with I^2C Interface	LTC2616CDD#PBF		SMD 133-0948●	4.45	3.44	2.80	2.45	2.18
LTC	64	QFN		2	14 Bits DAC with Quad Current O/P	LTC2755CUP-14#PBF	NEW	SMD 160-9751●	20.21	18.06	15.44	14.14	12.13
LTC	64	QFN		2	14 Bits DAC with Quad Current O/P	LTC2755IUP-14#PBF	NEW	SMD 160-9753●	24.26	21.68	18.51	16.97	14.56
LT	8	SOIC		12	14Bit R/R Micropower DAC	LTC1658CS8#PBF	NEW	SMD 166-3655●	9.39	7.28	5.82	4.86	4.35
LT	8	MSOP	1	12	14-Bit, Rail-to-Rail, Micropower DAC	LTC1658CMS8#PBF		SMD 133-0865●	10.27	5.81	4.57	4.45	4.33
TI	48	TQFP		30	Dual 14Bit 125MSPS DAC	DAC2904Y/250	NEW	SMD 165-9623●	17.37	14.22	12.61	11.67	10.86
TI	20	SOIC			14Bit 200KSPS 4 Channel Unipolar ADC	TLC3544CDW..	NEW	SMD 164-5391●	10.46	8.14	6.09	5.63	5.23
TI	20	SOIC			14Bit 200KSPS 4 Channel with 8 FIFO ADC	TLC3574IDW..	NEW	SMD 164-5392●	9.49	7.60	6.74	5.98	5.83
ADI	56	LFCSP	1	20	14Bit 8 Channel Serial I/P -10 V to +10 V Output DAC	AD5363BCPZ	NEW	SMD 160-7240●	32.04	25.65	23.31	21.36	18.31
ADI	108	CSPBGA	3	20	32-Channel, D/B, P, V, Bipolar	AD5378ABCZ		SMD 107-8371●	73.17	55.11	44.10	– –	– –
ADI	100	LQFP	4	8	32-Channel, D/B, R, R2R, V	AD5382BSTZ-5		SMD 107-8364●	63.12	52.14	46.30	– –	– –
ADI	52	LQFP	4	8	16-Channel, D/B, R, R2R, V	AD5390BSTZ-3		SMD 107-8359●	41.17	33.81	27.49	– –	– –
ADI	52	LQFP	3	8	16-Channel, D/B, R, R2R, V	AD5390BSTZ-5		SMD 107-8360●	37.77	30.24	26.86	– –	– –
ADI	10	MSOP	2	80	14-Bit High Bandwidth Multiplying DACs With Serial Interface	AD5446YRMZ		SMD 127-4275●	8.28	6.39	5.42	5.19	4.86
ADI	16	TSSOP	2	20	50 kSPS, D/B, Serial Input, V	AD5531BRUZ		SMD 143-8908●	12.64	9.76	8.28	– –	– –
ADI	74	CSPBGA	1	22	45 kSPS, S/H, Serial Input, V, O/P: 0.5R	AD5532ABCZ-1		SMD 143-8909●	55.23	45.59	40.50	– –	– –
ADI	74	CSPBGA	1	22	45 kSPS, S/H, Serial Input, V, O/P: 500R	AD5532ABCZ-3		SMD 143-8910●	47.43	44.04	41.11	– –	– –
ADI	74	CSPBGA	1	22	45 kSPS, S/H, Serial Input, V, O/P: 1kR	AD5532ABCZ-5		SMD 143-8911●	47.43	44.04	41.11	– –	– –
ADI	8	SOIC	0.15	1	D/B, MC, S, V	AD5551BRZ		SMD 960-4219●	11.48	8.86	7.51	– –	– –
ADI	8	MSOP	1	0.5	Serial Input, Current Output	AD5553CRMZ		SMD 839-7155●	8.11	6.40	5.43	– –	– –
ADI	28	SSOP	4	2	500 kSPS, Serial Input, D/B, MC	AD5554BRSZ		SMD 143-8912●	20.66	16.52	14.68	– –	– –
ADI	6	SC-70	16	6	14-Bit nanoDAC D/A Converter, SPI Interface	AD5641AKSZ-500RL7		SMD 111-7910●	3.99	3.26	3.00	2.45	2.29
ADI	10	MSOP	4	3.5	Dual, 14-Bit nanoDAC With 5ppm/°C On-Chip Reference	AD5643RBRMZ-3		SMD 127-4268●	5.86	4.16	3.43	3.34	3.25
ADI	10	MSOP	4	3.5	Dual, 14-Bit nanoDAC With 5ppm/°C On-Chip Reference	AD5643RBRMZ-5		SMD 127-4267●	8.56	6.68	5.67	5.43	5.09
ADI	10	MSOP	4	3.5	Quad, 14-Bit nanoDAC With 5ppm/°C On-Chip Reference	AD5644RBRMZ-3		SMD 127-4266●	14.46	11.18	9.48	9.09	8.51
ADI	10	MSOP	4	3.5	Quad, 14-Bit nanoDAC With 5ppm/°C On-Chip Reference	AD5644RBRMZ-5		SMD 127-4265●	14.58	11.18	9.48	9.09	8.51
ADI	16	TSSOP	8	6	95 kSPS, Serial Input, V, R, R2R	AD5648ARUZ-2		SMD 143-8922●	15.99	13.13	11.72	11.41	11.12
TI	48	TQFP	4	20	14-Bit Dual DAC, 275MSPS	DAC5672IPFBG4		SMD 139-0670●	21.73	17.39	14.31	11.93	11.62
INTS	28	SOIC	2.5	35		HI5960IBZ	NEW	SMD 156-2019●	10.88	9.66	7.92	6.69	6.22
ADI	28	SOIC	1	2.5	Dual, 250 kSPS, V, R, MC, C	AD7244JRZ		SMD 143-8392●	35.33	28.28	25.12	24.63	23.05
TI	16	TSSOP			14Bit 1MHz Single/Dual Unipolar Input ADC	ADS7279IPW	NEW	SMD 164-5387●	6.93	5.13	4.28	3.67	3.58
ADI	20	DIP	2	1.5	C, D/B, L, M, MC, P	AD7534JNZ		107-9374●	23.95	19.04	16.91	– –	– –
ADI	24	DIP	2	1.5	C, D/B, L, M, MC, P	AD7538JNZ		107-9375●	19.67	14.27	10.46	– –	– –
ADI	44	MQFP	2	10	100 kSPS, V, C, L	AD7835ASZ		SMD 143-8618●	38.85	31.11	27.63	27.10	25.36
ADI	24	PDIP	2	2	400 kSPS, V, C, R, L, MC, D/B	AD7840JNZ		143-8623●	17.19	13.67	12.14	– –	– –
ADI	44	MQFP	8	31	32 kSPS, Parallel Input, V	AD7841BSZ		SMD 143-8928●	53.41	42.75	37.97	– –	– –
TI	6	SC-70		6	14Bit Single Channel DAC	DAC8311IDCKT	NEW	SMD 167-9771●	5.10	3.96	3.25	2.97	2.62
TI	16	TSSOP	1	0.5	14-Bit DAC Dual MULTIPLYING	DAC8802IPWG4		SMD 118-0102●	10.60	8.95	7.74	6.82	6.10
TI	38	TSSOP	1	0.5	14-Bit, Dual Channel, Multiplying DAC, Parallel Interface	DAC8805QDBT		SMD 139-0684●	10.08	8.07	6.64	5.69	5.32
TI	28	SSOP	1	0.5	14-Bit, Single Channel, Multiplying DAC, Parallel Interface	DAC8806IDBG4		SMD 139-0686●	9.03	7.21	5.95	5.07	4.56
ADI	32	LFCSP	0.9	11	175 MSPS, Parallel Input, C, R	AD9707BCPZ		SMD 143-8929●	12.91	9.96	8.45	– –	– –
ADI	160	BGA	5.6		14-Bit, 1.2 GSPS, D/A Converter	AD9736BBCZ		SMD 111-7882●	34.89	28.65	28.31	27.56	26.85
ADI	72	LFCSP	1		Dual 250 MSPS, Parallel Input, R, C	AD9746BCPZ		SMD 143-8934●	19.03	15.63	13.18	12.81	11.97
ADI	28	SOIC	0.5	0.035	C, L, R	AD9754ARZ		SMD 158-1896●	17.49	13.72	10.52	– –	– –
ADI	28	SOIC	1.5	0.035	C, R	AD9764ARZ		SMD 942-5640●	13.78	10.65	9.03	– –	– –
ADI	160	BGA	3.7		14-Bit, 1.2 GSPS, D/A Converter	AD9776BSVZ		SMD 111-7881●	28.63	23.50	20.48	19.27	18.02
ADI	160	BGA	3.7		14-Bit, 1.2 GSPS, D/A Converter	AD9778BSVZ		SMD 111-7880●	34.71	27.33	26.59	25.89	25.23
ADI	100	TQFP-EP	3.7		14-Bit, 1.2 GSPS, D/A Converter	AD9779BSVZ		SMD 111-7879●	41.55	34.12	29.72	28.17	27.45
16-Bit D/A													
ADI	24	DIP		3	L, MC, R	AD420ANZ-32		960-5533●	17.52	14.02	12.45	– –	– –
ADI	24	SOIC		3	MC, S, V, Serial I/P, SigmA Delta	AD420ARZ-32		SMD 107-9391●	17.00	13.60	12.08	– –	– –
ADI	16	SOIC		8	Loop Powered 4-20 mA DAC	AD421BRZ	NEW	SMD 165-1256●	11.15	9.16	7.50	6.87	6.58
MAX	14	SOIC	4	1	C, V	MAX542CCSD+		SMD 972-5091●	27.31	19.11	15.66	– –	– –
ADI	28	PDIP	0.5	3	V, D/B, L, C	AD569JNZ		143-8379●	37.11	29.93	26.59	– –	– –
ADI	28	DIP	2	2.5	C, D/B, L, MC, R, V	AD669ANZ		960-5541●	23.46	18.66	16.57	– –	– –
ADI	28	DIP	1	2.5	C, D/B, L, MC, R, V	AD669BNZ		960-3557●	35.20	27.98	24.85	– –	– –
TI	28	PDIP		6	16-Bit Digital-to-Converter With 16-Bit Bus Interface	DAC712PB		146-0189●	22.69	19.59	17.91	16.56	15.80
TI	28	DIP	4	4	C, D/B, L, R, V	DAC712PG4		117-8435●	21.71	17.08	13.69	– –	– –
BB	28	SOIC	4	4	C, D/B, L, R, V	DAC712U		SMD 109-7510	21.15	17.63	14.86	– –	– –
TI	16	PDIP		10	16Bit DAC 86kSPS	DAC714P	NEW	164-8619●	21.67	19.99	18.31	16.63	14.95
TI	16	SOIC	1	10	16-Bit DAC SERIAL I/P	DAC714U		SMD 121-4385●	20.63	17.03	13.66	– –	– –
TI	28	PDIP		10	16-Bit Digital-to-Analog Converter with 16-Bit Bus Interface	DAC715P		146-0194●	24.49	19.47	17.29	16.96	16.40
BB	16	DIP	2	4	C, R, V	DAC716P		109-7417	20.04	16.71	16.40	– –	– –
ADI	16	DIP		1.5	L, MC, R, S, V (DSP I/F)	AD766JNZ		960-5223●	18.81	14.95	13.28	– –	– –
ADI	20	SOIC	4	0.025	C, L	AD768ARZ		SMD 942-6442●	39.99	33.31	27.00	– –	– –
LTC	16	SSOP		2	16 Bit DAC Current O/P with 3-wire SPI	LTC1592ACG#PBF	NEW	SMD 160-9783●	41.83	37.38	31.93	28.34	25.08
LTC	16	SSOP		2	16 Bit DAC Current O/P with 3-wire SPI	LTC1592AIG#PBF	NEW	SMD 160-9784●	41.29	37.55	34.40	31.77	28.68
LTC	16	SSOP		2	16 Bit DAC Current O/P with 3-wire SPI	LTC1592BCG#PBF	NEW	SMD 160-9785●	22.27	19.91	17.00	15.08	13.37
LTC	16	SSOP		2	16 Bit DAC Current O/P with 3-wire SPI	LTC1592BIG#PBF	NEW	SMD 160-9787●	22.73	20.66	18.94	17.49	15.80
LT	28	SSOP		1	16Bit Parallel Multiplying DAC with 4-Quadrant Resistor	LTC1597-1BCG#PBF	NEW	SMD 166-3648●	31.58	24.47	19.58	16.32	14.61
LT	28	DIP	1	1	16-Bit, Parallel, Low Glitch Multiplying DAC	LTC1597-1BCN#PBF		133-0856●	17.33	12.86	11.56	11.26	10.97
LT	28	DIP	1	1	16-Bit, Parallel, Low Glitch Multiplying DAC	LTC1597BCN#PBF		133-0857●	25.80	13.51	12.34	12.02	11.73
LT	28	DIP	2		16-Bit, Single Supply, 100ksps, Sampling ADC	LTC1605-1CN#PBF		133-0859●	25.71	18.72	16.20	15.62	15.06
LT	16	SOIC		4	16Bit Voltage Output DAC Low Glitch	LTC1650CS#PBF	NEW	SMD 166-3652●	22.43	17.38	13.90	11.59	10.37
LT	8	SOIC		20	16Bit R/RI Micropower DAC	LTC1655CS8#PBF	NEW	SMD 166-3654●	15.45	11.97	9.58	7.98	7.15
LT	28	DIP	1	20	16-Bit, Parallel, Rail-to-Rail, Micropower DAC	LTC1657CN#PBF		133-0863●	16.70	10.83	9.47	8.75	8.12
LTC	28	SSOP		20		LTC1668CG#PBF	NEW	SMD 160-9779●	23.10	19.65	16.80	15.39	13.20
LTC	28	SSOP		20		LTC1668IG#PBF	NEW	SMD 160-9780●	20.07	18.24	16.72	15.44	13.94
LT	16	SSOP		10	Octal 16Bit R/RI DAC	LTC2600CGN#PBF	NEW	SMD 166-3693●	25.63	19.86	15.89	13.25	11.86
LT	8	MSOP		10	Dual 16Bit R/R DAC	LTC2602IMS8#PBF	NEW	SMD 166-3694●	9.72	7.54	6.03	5.02	4.50
LT	8	MSOP	1	7	Dual, 16-Bit, Rail-to-Rail DAC	LTC2602CMS8#PBF		SMD 133-0944●	8.68	6.71	5.48	4.80	4.26
LT	16	SSOP		10	Quad 16Bit R/R DAC	LTC2604IGN#PBF	NEW	SMD 166-3695●	20.03	15.53	12.42	10.35	9.26
LT	16	SSOP		10	Quad 16Bit R/R DAC	LTC2604IGN-1#PBF	NEW	SMD 166-3696●	20.03	15.53	12.42	10.35	9.26
LT	8	SOIC		1	16-Bit Vout DAC with Fast Settling	LTC2641CS8-16#PBF	NEW	SMD 167-3521●	11.38	8.67	7.29	6.07	5.38
LT	8	SOIC		1	16-Bit Vout DAC with Fast Settling	LTC2641IS8-16#PBF	NEW	SMD 167-3522●	13.64	10.39	8.73	7.28	6.23
LT	8	DFN	2	1	R, V	LTC2641CDD-16#PBF		SMD 143-2745●	12.12	7.36	5.80	– –	– –
LT	8	MSOP	2	1	R, V	LTC2641CMS8-16#PBF		SMD 143-2747●	12.12	7.36	5.80	– –	– –
LT	8	DFN	2	1	R, V	LTC2641IDD-16#PBF		SMD 143-2750●	14.53	8.83	6.96	– –	– –
LT	8	MSOP	2	1	R, V	LTC2641IMS8-16#PBF		SMD 143-2751●	14.53	8.83	6.96	– –	– –
LT	10	DFN	2	1	R, V	LTC2642CDD-16#PBF		SMD 143-2755●	12.12	7.36	5.80	– –	– –
LT	10	DFN	2	1	R, V	LTC2642IDD-16#PBF		SMD 143-2759●	14.53	8.83	6.96	– –	– –
TI	28	SSOP			16-Bit D-A Converter With USB	PCM2702EG4		SMD 120-7085●	6.87	6.24	5.71	5.26	4.89
LT					Dual Current O/P 16Bit SoftSpan DACs with Parallel I/O	LTC2753AIUK-16#PBF		NEW 162-8763●	26.25	23.32	19.08	17.49	14.99
LTC	64	QFN		2	16 Bits DAC with Quad Current O/P	LTC2755ACUP-16#PBF	NEW	SMD 160-9744●	31.50	28.15	24.05	22.04	18.90
LTC	64	QFN		2	16 Bits DAC with Quad Current O/P	LTC2755AIUP-16#PBF	NEW	SMD 160-9745●	37.75	33.73	28.84	26.42	22.67

RL Re-reeling available

A/D and D/A Converters - continued

Mftr.	Pins	Pkg	Linearity Error ± LSB	Conversion Time ± ½ LSB, µs	Features	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
16-Bit D/A												
2755 LTC	64	QFN		2	16 Bits DAC with Quad Current O/P	LTC2755BCUP-16#PBF	NEW SMD 160-9746●	28.51	25.47	21.78	19.95	17.10
2755 LTC	64	QFN		2	16 Bits DAC with Quad Current O/P	LTC2755BIUP-16#PBF	NEW SMD 160-9747●	34.23	30.58	26.13	23.96	20.53
5063 ADI	10	MSOP	1	4	V, Nano	AD5063BRMZ	SMD 107-8400●	11.92	9.14	7.75	– –	– –
5661 MAX	64	LQFP		5.44	Single 16-Bit DAC with Current and Voltage Outputs	MAX5661GCB+	NEW SMD 167-3083●	13.15	10.23	8.36	7.67	6.65
5134 MAX	24	TQFN		5	Quad 16-Bit, Buffered Voltage-Output DAC	MAX5134AGTG+	NEW SMD 167-3086●	16.52	12.85	10.51	9.63	8.35
5320 ADI	6	SOT-23		8	2.7V/5.5V R/R Voltage Output 12Bit DAC	AD5320BRTZ-500RL7.	NEW SMD 165-1246●	3.99	3.11	2.54	2.32	2.23
5360 ADI	56	LFCSP	1	20	16Bit 16 Channel Serial I/P -10 V to +10 V Output DAC	AD5360BCPZ	NEW SMD 160-7241●	49.15	39.31	35.74	32.78	28.09
5370 ADI	64	LFCSP	4	20	16-Bit 40-Channel Serial Input Voltage Output DAC.	AD5370BCPZ	NEW SMD 160-7227●	103.39	82.71	75.19	68.92	59.08
5372 ADI	64	LQFP	1	20	32-ch, 2 MSPS, V, MC.	AD5372BSTZ	SMD 143-5602●	75.93	62.35	52.59	– –	– –
5541 MAX	8	SOIC	4	1	16Bit 1MHz BW DAC with 10MHz Serial I/P & Voltage O/P	MAX5541CSA+	NEW SMD 159-3376●	9.09	7.06	6.35	5.30	4.54
5542 ADI	14	SOIC	0.5	1	1.5 MSPS, S, V	AD5542LRZ	SMD 143-8375●	20.16	16.13	14.33	14.05	13.15
5542 ADI	14	SOIC	0.5	1	1.5 MSPS, S, V	AD5542CRZ	SMD 143-8374●	26.87	21.51	19.10	18.74	17.53
5543 ADI	8	SOIC	2	0.5	2.47 MSPS, S	AD5543BRZ	SMD 143-8376●	12.95	9.97	8.46	– –	– –
5546 ADI	28	TSSOP	2	0.5	M, Serial Input, Current Output	AD5546BRUZ	SMD 158-1924●	12.88	10.26	8.71	– –	– –
5547 ADI	38	TSSOP	2	0.5	2-Channel, 2MSPS, M, P	AD5547BRUZ	SMD 107-8348●	14.19	11.29	10.02	– –	– –
5570 ADI	16	SSOP	2	10	V, Serial I/P	AD5570WRSZ	SMD 158-1925●	23.87	19.70	17.50	– –	– –
5645 ADI	14	TSSOP	4	3.5	Quad, R, V	AD5645RBRUZ	SMD 149-8711●	11.38	9.92	8.80	– –	– –
5647 ADI	10	MSOP	4	3.5	Dual, R, V	AD5647RBRMZ	SMD 149-8712●	9.07	6.96	5.48	– –	– –
5667 ADI	10	MSOP	12	4	Dual, R2R, V	AD5667BRMZ	SMD 149-8715●	9.34	7.16	5.64	– –	– –
5667 ADI	10	MSOP	12	4	Dual, R2R, R, V	AD5667RBRMZ-2	SMD 149-8716●	11.35	8.71	6.85	– –	– –
5662 ADI	8	MSOP	16	10	2.7-5.5V, 16-Bit nanoDAC Converter	AD5662ARMZ-1	SMD 111-7909●	6.20	4.24	3.42	3.29	3.07
5662 ADI	8	MSOP	16	10	16-Bit nanoDAC Converter	AD5662BRMZ-1	SMD 111-7908●	5.28	4.32	3.97	3.22	3.02
5663 ADI	10	MSOP	16	4	2.7 V to 5.5 V, 0.25mA, Rail-to-Rail Output, Dual 16-Bit nanoDAC.	AD5663ARMZ	SMD 127-4264●	9.21	7.09	6.02	5.77	5.40
5663 ADI	10	MSOP	12	4	2.7 V to 5.5 V, 0.25mA, Rail-to-Rail Output, Dual 16-Bit nanoDAC.	AD5663BRMZ	SMD 127-4263●	5.88	4.68	3.97	3.82	3.72
5663 ADI	10	MSOP	12	4	2.7 V to 5.5 V, 0.25mA, Rail-to-Rail Output, Dual 16-Bit nanoDAC.	AD5663BRMZ-1	SMD 127-4262●	5.50	4.39	3.84	3.74	3.64
5663 ADI	10	MSOP	16	4	Dual, 16-Bit nanoDAC With 5ppm/°C On-Chip Reference	AD5663RBRMZ-3	SMD 127-4261●	10.75	8.29	7.03	6.74	6.31
5663 ADI	10	MSOP	16	4	2.7 V to 5.5 V, 450 µA, Rail-to-Rail Output, Quad, 12-/16-Bit nanoDACs	AD5663RBRMZ-5	SMD 127-4258●	10.63	8.29	7.03	6.74	6.31
5664 ADI	10	MSOP	16	7	2.7 V to 5.5 V, 450 µA, Rail-to-Rail Output, Quad, 16-Bit nanoDACs	AD5664ARMZ	SMD 127-4257●	16.43	13.06	11.60	11.38	10.65
5664 ADI	10	MSOP	12	7	2.7 V to 5.5 V, 450 µA, Rail-to-Rail Output, Quad, 16-Bit nanoDACs	AD5664BRMZ	SMD 127-4256●	16.89	13.52	12.01	11.77	11.02
5664 ADI	10	MSOP	16	7	Quad, 16-Bit nanoDAC With 5ppm/°C On-Chip Reference	AD5664RBRMZ-3	SMD 127-4255●	18.23	14.49	12.87	12.63	11.82
5664 ADI	10	MSOP	16	7	Quad, 16-Bit nanoDAC With 5ppm/°C On-Chip Reference	AD5664RBRMZ-5	SMD 127-4254●	18.23	14.49	12.87	12.63	11.82
5665 ADI	14	TSSOP	16	4	Quad, V	AD5665BRUZ	SMD 149-8713●	13.31	12.04	10.99	– –	– –
5665 ADI	14	TSSOP	16	4	Quad, V, R	AD5665RBRUZ-2	SMD 149-8714●	14.85	13.68	12.66	– –	– –
5666 ADI	14	TSSOP	16	6	95 kSPS, Serial Input, V, R:1.25V, R2R	AD5666BRUZ-1	SMD 143-8923●	16.22	13.32	11.23	10.93	10.21
5666 ADI	14	TSSOP	16	6	95 kSPS, Serial Input, V, R:2.5V, R2R	AD5666BRUZ-2	SMD 143-8924●	16.22	13.32	11.23	10.93	10.21
5668 ADI	16	TSSOP	32	6	95 kSPS, Serial Input, V, R, R2R	AD5668ARUZ-2	SMD 143-8925●	20.76	17.03	14.92	14.53	14.15
5678 ADI	14	TSSOP	16	6	95 kSPS, Serial Input, V, R:1.25V, R2R	AD5678BRUZ-1	SMD 143-8926●	20.90	16.73	14.86	– –	– –
5678 ADI	16	TSSOP	16	6	95 kSPS, Serial Input, V, R:2.5V, R2R	AD5678BRUZ-2	SMD 143-8927●	20.90	16.73	14.86	– –	– –
5687 TI	100	HTQFP	6	0.012	16-Bit 2x-8x Interpolating Dual-Channel DAC, 500MSPS.	DAC5687IPZPG4	SMD 139-0669●	36.91	29.53	24.29	20.25	19.73
5764 ADI	32	TQFP	1	10	Complete Quad, 16-Bit, High Accuracy, Serial Input, Bipolar Voltage Output DAC	AD5764CSUZ	SMD 127-4253●	47.17	37.50	33.31	32.67	30.57
5891 MAX	68	QFN	2.8	11	16-Bit, 600Msps, High-Dynamic DAC with LVDS Inputs	MAX5891EGK+D	SMD 143-3205●	68.67	49.87	40.87	33.55	32.70
7632 TI	32	LQFP	2	10	2-Channel, C, D/B, R, R2R, S, V.	DAC7632VFT	SMD 121-4429●	18.88	15.46	13.60	– –	– –
7644 TI	48	SSOP		10	16Bit DAC 100kSPS.	DAC7644EB.	NEW SMD 164-8624●	30.04	24.77	23.54	21.27	20.72
7644 TI	48	SSOP	4	10	4-Channel, D/B + Readback, MC, V, Serial I/P	DAC7644EG4	SMD 121-4360●	26.66	21.20	18.83	– –	– –
7671 ADI	48	LQFP			16Bit 1MSPS Bipolar PulSAR ADC	AD7671ASTZ	NEW SMD 165-1255●	40.08	35.62	29.14	26.72	25.59
7715 TI	16	SOIC	1	10	D-A Converter, 12-Bit Quad	DAC7715UB	SMD 121-2274●	16.84	13.39	11.89	– –	– –
7731 TI	24	SSOP	1	5	16 Bit Digital to AnaLog Converter	DAC7731EC	SMD 118-0123●	14.64	11.31	9.08	8.70	8.01
7734 TI	48	SSOP	3	10	D-A Converter, Quad/Serial 16-Bit, +10V.	DAC7734E	SMD 121-2277●	45.87	36.95	29.63	– –	– –
7734 TI	48	SSOP	1	10	D-A Converter, Quad Serial 16-Bit, +10V.	DAC7734EC	SMD 121-2279●	60.66	47.71	38.26	– –	– –
7744 TI	48	SSOP		10	16Bit DAC 100kSPS.	DAC7744E.	NEW SMD 164-8625●	40.82	33.65	31.98	28.90	28.16
7744 TI	48	SSOP	4	10	4-Channel, D/B + Readback, MC, V, Serial I/P.	DAC7744EG4	SMD 121-4361●	35.75	29.64	24.58	– –	– –
7846 ADI	28	PDIP	6	6	143 kSPS, V, MC.	AD7846JNZ	143-8625●	31.40	25.35	22.52	– –	– –
7846 ADI	28	PDIP	2	6	143 kSPS, V, MC.	AD7846KNZ	143-8626●	40.23	32.02	28.44	– –	– –
8411 TI	6	SC-70		6	16Bit Single Channel DAC	DAC8411IDCKT	NEW SMD 167-9765●	6.03	5.28	4.23	3.84	3.25
8501 TI	8	MSOP	1	8	16-Bit, Low-Power, Rail-to-Rail Output, Serial Input DAC	DAC8501E/250G4	SMD 932-4178●	5.08	4.45	3.96	3.58	3.25
8531 TI	8	VSSOP	1	10	D-A Converter, 16-Bit Serial, Low Cost.	DAC8531E/250G4	SMD 120-6856●	4.50	3.49	2.81	– –	– –
8532 TI	8	MSOP	1	10	2-Channel, R2R, Serial I/P	DAC8532IDGK	SMD 110-0950●	7.94	6.09	5.17	4.95	4.63
8532 TI	8	TSSOP	1	10	2-Channel, R2R, Serial I/P	DAC8532IDGKG4	SMD 932-4186●	8.24	7.21	6.43	5.79	5.27
8534 TI	16	TSSOP	1	10	4-Channel, R2R, Serial I/P	DAC8534IPWG4	SMD 932-4194●	13.48	11.80	10.51	9.46	8.61
8541 TI	32	TQFP	1	10	16-Bit Parallel Low Cost D-A Converter	DAC8541Y	SMD 121-2282●	4.51	3.96	3.53	3.19	2.90
8551 TI	8	MSOP	12	8	16-Bit DAC, Ultralow Glitch, Voltage Output	DAC8551IADGKTG4	SMD 139-0682●	4.84	3.86	3.19	2.72	2.64
8554 TI	16	TSSOP	0.25	10	16 Bit AnaLog to Digital Converter	DAC8554IPWG4	SMD 118-0106●	16.00	12.21	9.80	9.40	8.65
8560 TI	8	MSOP	8	8	16-Bit DAC with 2.5V, 2ppm/°C Internal Reference, Ultra-Low Glitch, Voltage Output.	DAC8560IDDGKTG4	SMD 139-0683●	9.18	7.35	6.03	5.15	4.74
8571 TI	8	VSSOP	1	10	16-Bit D-A Converter I2C Interfact	DAC8571IDGKG4	SMD 120-6883●	4.53	3.97	3.55	3.20	2.91
8574 TI	16	TSSOP	1	10	16-Bit D-A Converter W/ I2C	DAC8574IPWG4	SMD 120-6884●	14.96	12.05	9.66	– –	– –
8811 TI	8	SON	1	0.5	16 Bit Digital to AnaLog Converter	DAC8811ICDRBT	SMD 118-0116●	9.66	8.47	7.54	6.49	6.33
8812 TI	16	TSSOP	1	0.5	16-Bit Dual Serial Input Multiplying DAC with Current O/P	DAC8812IBPW	NEW SMD 156-4902●	16.98	14.00	12.45	10.19	8.63
8812 TI	16	TSSOP	1	0.5	Dual, Serial Input 16-Bit Multiplying DAC Current O/P	DAC8812ICPW	NEW SMD 156-4903●	19.71	16.27	14.46	11.83	10.01
8812 TI	16	TSSOP	1	0.3	16-Bit Multiplying DAC, Dual Serial Input	DAC8812ICPWG4	SMD 139-0687●	15.96	12.79	10.49	8.99	8.02
8820 TI	28	SSOP	1	0.5	16-Bit Multiplying DAC, Parallel Input	DAC8820ICDBG4	SMD 139-0688●	16.26	12.99	10.66	9.13	8.15
8830 TI	8	SO	0.5	1.0	16-Bit Ultra-Low Power Voltage-Output DAC	DAC8830ICD	SMD 154-4010●	12.16	10.98	10.03	9.21	8.17
88822TI	38	TSSOP	1	0.5	16-Bit High Accuracy Multiplying DAC, Dual Parallel Interface.	DAC8822QCDBTG4	SMD 139-0689●	16.33	13.05	10.75	9.20	8.60
9726 ADI	80	TQFP	0.5		16-Bit, 400 MSPS D/A Converter	AD9726BSVZ	SMD 111-7883●	36.27	29.94	26.60	26.08	24.42
9747 ADI	72	LFCSP	4		Dual 250 MSPS, Parallel Input, R, C	AD9747BCPZ	SMD 143-8935●	21.59	20.05	17.86	– –	– –
9786 ADI	80	TQFP	0.6		200MSPS, C, L, MC, S.	AD9786BSVZ	SMD 107-8237●	51.63	42.38	34.45	– –	– –
17-Bit D/A												
7111 ADI	16	PDIP			Logarithmic, M, C, L, MC	AD7111ABNZ	143-8380●	10.40	7.97	6.76	– –	– –
18-Bit D/A												
4330 CIR	8	SOIC			18 Bit Stereo DAC for Digital Audio.	CS4330-KS	NEW SMD 155-7478▲	5.46	4.86	3.98	3.64	3.12
4331 CIR	8	SOIC			18 Bit Programmable up to 50KHz Stereo DAC for Digital Audio.	CS4331-BS	NEW SMD 155-7480▲	7.95	7.06	5.78	5.30	4.55
9881 TI	24	VQFN		5	18Bit Single Channel Voltage O/P DAC	DAC9881SBRGET	NEW SMD 167-9766●	38.96	35.41	29.97	– –	– –
9881 TI	24	VQFN		5	18Bit Single Channel Voltage O/P DAC	DAC9881SRGET	NEW SMD 167-9767●	27.24	24.77	20.95	– –	– –
20-Bit D/A												
1220 BB	16	SSOP	1	2000	C, S, V	DAC1220E	SMD 109-7447●	9.87	7.57	6.42	6.16	5.76
2420 LT	8	SOIC			20Bit MicroPower No Latency Delta-Sigma ADC.	LTC2420CS8#PBF	NEW SMD 166-3685●	7.56	5.86	4.69	3.90	3.50
24-Bit D/A												

RL Re-reeling available

Mftr.	Pins	Pkg	Linearity Error ± LSB	Conversion Time ± ½ LSB, µs	Features	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
24-Bit D/A												
TI	20	SOIC		200	24Bit DAC 768kSPS	PCM1704U-K	NEW SMD 164-8629●	26.59	21.92	20.84	18.83	18.34
TI	20	SSOP			24-Bit D-A Converter, SIGmA DELTA	PCM1802DBG4	SMD 120-7083●	5.08	3.94	3.15	– –	– –
TI	28	SSOP			24-Bit D-A Converter, SIGmA DELTA	PCM1804DBG4	SMD 120-7084●	4.39	3.84	3.54	3.45	3.36
CIR	16	SOIC			24-Bit Programmable up to 96kHz DAC for Digital Audio	CS4340-KSZ	NEW SMD 155-7474●	2.70	2.40	1.96	1.81	1.54
CIR	28	SOIC			24-Bit Programmable up to 192kHz DAC for Digital Audio	CS4396-KSZ	NEW SMD 155-7473●	12.03	10.69	8.75	8.02	6.88

Key to Features: C = CMOS, D/B = Double-Buffered, L = Latches, M = Multiplying, MC = Microprocessor Compatible, MP = Micropower, P = Parallel O/P, R = Internal Reference, R2R = Rail-to-Rail output, S = Serial O/P, S/A = Successive Approximation, S/H = Sample and Hold, T = Temp. Sensor, T/H = Track and Hold, V = Voltage O/P

D/A Converters

MAXIM

492942

Mftr.	Pins	Pkg	Linearity Error ± LSB	Conversion Time ± ½ LSB, µs	Features	Mftrs. List No.	Order Code	Price Each 1+	25+	50+	100+	250+
6/8/12-Bit D/A												
MAX	16	QSOP	1		DAC-Controlled Boost Inverter LCD Bias Supply with Internal Switch	MAX686EEE+	SMD 137-9787●	5.61	3.92	3.22	2.61	– –
MAX	8	DIP		6.0	8 Bit DAC	MAX517ACPA+	142-2333●	6.07	4.24	3.48	2.87	2.79
MAX	16	DIP		6.0	8 Bit DAC	MAX519ACPE+	142-2334●	6.81	4.76	3.90	3.21	3.12
MAX	16	NSOIC		6.0	8 Bit DAC	MAX519ACSE+	SMD 142-2335●	6.81	4.76	3.90	3.21	3.12
MAX	14	SO		25.0	12 Bit DAC	MAX531ACSD+	SMD 142-2336●	15.27	12.42	10.18	8.35	8.14
MAX	16	DIP		2.5	12 Bit Daul MDAC	MAX532BCPE+	142-2337●	20.13	13.81	11.44	8.48	8.28
MAX	10	MSOP	2	4	12-Bit, Low-Power, Quad, Voltage-Output DAC with Serial Interface	MAX5742EUB+	SMD 137-9741●	14.97	10.47	8.59	6.97	– –
MAX	14	NSOIC	0.5	25	+5V, Low-Power, Voltage-Output, Serial 12-Bit DAC	MAX531AESD+	SMD 137-9777●	23.05	16.13	13.24	10.74	– –
MAX	20	SSOP	0.25	12	Low-Power, Quad, 12-Bit Voltage-Output DAC with Serial Interface	MAX525ACAP+	SMD 137-9778●	42.50	27.32	20.75	15.37	– –
MAX	28	SOIC	0.5	50	Multi-Range (±10V, ±5V, +10V, +5V), Single +5V, 12-Bit DAS with 8+4 Bus Interface	MAX197BCWI+	SMD 137-9881●	22.68	15.88	13.03	10.58	– –
MAX	16	QSOP			12-Bit ADC 2-Wire Serial Interface	MAX1238EEE+	SMD 142-2280●	11.37	7.30	6.29	4.66	3.92
MAX	8	SOIC	1		Dual, 8-Bit, Voltage-Output Serial DAC in 8-Pin SO Package	MAX522CSA+	SMD 137-9984●	5.89	3.78	3.13	2.32	– –
MAX	20	SSOP	1	10	Low-Power, Quad, 10-Bit Voltage-Output DAC with Serial Interface	MAX5250BCAP+	SMD 137-9985●	13.53	8.70	7.19	5.33	– –
MAX	16	QSOP	0.1	10	+3V/+5V, Low-Power, 8-Bit Octal DACs with Rail-to-Rail Output Buffers	MAX5258EEE+	SMD 137-9986●	7.67	4.93	3.51	2.77	– –
MAX	16	QSOP	0.1	7	+3V/+5V, Low-Power, 8-Bit Octal DACs with Rail-to-Rail Output Buffers	MAX5259EEE+	SMD 137-9988●	7.67	4.93	3.51	2.77	– –
MAX	20	SSOP	0.25	12	Low-Power, Quad, 12-Bit Voltage-Output DAC with Serial Interface	MAX525BCAP+	SMD 137-9989●	27.87	19.51	15.99	12.98	– –
MAX	24	SOIC	015	3	Calibrated, Quad, Voltage-Output, 12-Bit DAC	MAX526CCWG+	SMD 137-9990●	48.32	33.82	27.73	22.50	– –
MAX	24	SOIC	015	5	Calibrated, Quad, Voltage-Output, 12-Bit DAC	MAX527DCWG+	SMD 137-9991●	40.26	25.88	21.43	15.87	– –
MAX	20	DIP	0.3	1	Octal, Serial, 8-Bit DAC with Output Buffers	MAX528CPP+	137-9992●	15.36	10.55	8.74	6.47	– –
MAX	10	MSOP	2	4	12-Bit, Low-Power, Quad, Voltage-Output DAC with Serial Interface	MAX5742AUB+	SMD 137-9782●	15.73	11.01	9.03	7.33	– –
MAX	8	SOIC			16 bit 1-Wire Quad A/D Converter	DS2450S+	SMD 137-9771●	7.78	4.99	3.41	2.87	– –
MAX	16	WSOIC	0.5	25	Dual, Serial Input, Voltage-Output, Multiplying, 12-Bit DAC	MAX532BCWE+	SMD 137-9993●	21.49	13.81	11.44	8.48	– –
MAX	16	WSOIC	1	3	Calibrated, Quad, 12-Bit Voltage-Output DACs with Serial Interface	MAX536BCWE+	SMD 137-9994●	43.63	28.05	23.23	17.20	– –
MAX	8	DIP	1	3	+5V, Low-Power, Voltage-Output, Serial 12-Bit DACs	MAX538BCPA+	137-9995●	12.35	7.94	6.57	4.87	– –
MAX	8	NSOIC	1	3	+5V, Low-Power, Voltage-Output, Serial 12-Bit DACs	MAX538BCSA+	SMD 137-9996●	12.35	7.94	6.57	4.87	– –
MAX	8	NSOIC	1	3	+5V, Low-Power, Voltage-Output, Serial 12-Bit DACs	MAX538BESA+	SMD 137-9997●	12.40	8.67	7.11	5.78	– –
MAX	8	DIP	1	3	+5V, Low-Power, Voltage-Output, Serial 12-Bit DACs	MAX539BCPA+	137-9998●	12.35	7.94	6.57	4.87	– –
MAX	8	NSOIC	1	3	+5V, Low-Power, Voltage-Output, Serial 12-Bit DACs	MAX539BCSA+	SMD 138-0001●	12.35	7.94	6.57	4.87	– –
MAX	8	DIP	1	0.25	Serial, CMOS, Multiplying, 12-Bit DAC	MAX543BCPA+	138-0002●	18.60	11.96	9.91	7.33	– –
MAX	44	PLCC	1	5	Octal, 13-Bit Voltage-Output DAC with Parallel Interface	MAX547BCQH+D	SMD 138-0003●	62.90	42.00	34.77	26.67	– –
MAX	8	MSOP	0.9	4	+2.5V to +5.5V, Low-Power, Single/Dual, 8-Bit Voltage-Output DACs	MAX550ACUA+	SMD 138-0004●	3.38	2.36	1.94	1.57	– –
MAX	28	SSOP	0.5	7.7	Multirange, +5V, 12-Bit DAS with 2-Wire Serial Interface	MAX127BCAI+	SMD 137-9743●	21.24	14.86	12.18	9.89	– –

Key to Features: C = CMOS, D/B = Double-Buffered, L = Latches, M = Multiplying, MC = Microprocessor Compatible, MP = Micropower, P = Parallel O/P, R = Internal Reference, R2R = Rail-to-Rail output, S = Serial O/P, S/A = Successive Approximation, S/H = Sample and Hold, T = Temp. Sensor, T/H = Track and Hold, V = Voltage O/P

D/A Converters

MAXIM

New

501837

Mftr.	Pins	Pkg	Linearity Error ± LSB	Features	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
8-Bit D/A											
MAX	16	QSOP	1	Nonvolatile, Quad, 8-Bit DACs with 2-Wire Serial Interface	MAX5116EEE+	SMD 155-2860●	11.13	9.89	8.90	7.42	6.27
MAX	8	MicroMAX	0.25	Dual, 8-Bit DACs with Voltage-Output	MAX5513EUA+	SMD 155-2861●	4.10	3.64	3.27	2.72	2.31
MAX	12	TQFN	0.25	Dual, 8-Bit DACs with Voltage-Output Ultra-Low-Power	MAX5515ETC+	SMD 155-2862●	3.77	3.34	3.01	2.50	2.12
MAX	8	MicroMAX	0.5	Dual, 8-Bit DACs with 2-Wire Serial Voltage-Output	MAX5820LEUA+	SMD 155-2865●	1.87	1.65	1.31	1.10	0.94
10-Bit D/A											
MAX	12	TQFN	1	Dual, 10-Bit DACs with Voltage-Output Ultra-Low-Power	MAX5525ETC+	SMD 155-2863●	5.98	5.25	4.19	3.48	3.00
MAX	40	TQFN	0.25	Dual, 10-Bit DACs 80MSPS with Current-Output	MAX5853ETL+	SMD 155-2866●	15.40	13.47	10.78	8.98	7.70
12-Bit D/A											
MAX	12	TQFN	4	Dual, 12-Bit DACs with Voltage-Output Ultra-Low-Power	MAX5535ETC+	SMD 155-2864●	10.03	8.90	8.01	6.69	5.65

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414044

Mftr.	Pins	Pkg	Features	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
Audio-Video ADC/DAC										
TI	16	DIP	Series Input 16-Bit Monolithic DAC	PCM56P	136-5427●	11.86	10.05	8.35	– –	– –
TI	28	SSOP	24-Bit Delta-Sigma Audio DAC, 192kHz, 8-channel	PCM1680DBQG4	SMD 139-0702●	2.30	1.94	1.57	1.38	1.23
TI	16	DIP	20-Bit BiCMOS DAC, -94dB THD+N, 0.5% Gain error, 120dB SNR, 200ns settling time, 16 x oversAmpling, 250mW mAx Power dissipation	PCM1702PG4	120-2023●	21.94	17.44	15.49	– –	– –
TI	28	SSOP	Soundplus(Tm) Stereo, 24-Bit, 96khz 8x Oversampling Digital Interpolation Filter D/A Converter	DF1704EG4	SMD 123-4825●	16.35	14.33	12.76	11.50	10.47

RL Re-reeling available

Farnell

A/D and D/A Converters - continued

	Mftr.	Pins	Pkg	Features	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
1710	TI	28	SOIC	16 or 20-Bit Input data stereo DAC With digital interpolation filter and anaLogue Voltage output, -92dB THD+N, 98dB dynamic range and 110dB SNR	PCM1710U	SMD 121-2857●	4.77	4.11	3.60	3.21	2.90
1710	BB	28	SOIC	16 or 20-Bit Input data stereo DAC With digital interpolation filter and anaLogue Voltage output, -92dB THD+N, 98dB dynamic range and 110dB SNR	PCM1710U.	SMD 642-149	4.78	3.58	2.93	– –	– –
1716	BB	28	SSOP	24-Bit SigmA Delta DAC With 16kHz -96kHz sAmpling frequency, -96dB THD+N, 106dB SNR, 8 x oversAmpling, 106dB Dynamic Range. 400mW Power dissipation. (SSOP)	PCM1716E	SMD 110-1544●	4.06	3.28	2.44	2.32	2.16
1723	TI	24	SSOP	Soundplus(Tm) Stereo Audio Digital-To-Analog Converter With Programmable PII	PCM1723EG4	SMD 123-4896●	2.50	2.22	2.01	1.90	1.84
1744	TI	14	SOIC	24-Bit complete stereo DAC With 95dB Dynamic range, multi sAmpling frequency up to 96kHz,8 x oversAmpling, 256fs or 384fs system clock.	PCM1744U	SMD 121-4384●	1.77	1.44	1.16	– –	– –
1753	TI	16	SSOP	24-Bit Audio D-A Converter	PCM1753DBQ	SMD 843-4476●	1.35	1.11	0.95	0.83	0.73
1754	TI	16	SSOP	24-Bit Audio D-A Converter	PCM1754DBQ	SMD 843-4484●	1.80	1.39	1.07	– –	– –
1755	TI	16	SSOP	24-Bit Audio D-A Converter	PCM1755DBQ	SMD 843-4492●	1.35	1.11	0.95	0.83	0.73
1770	TI	16	TSSOP	24-Bit Audio D-A Converter	PCM1770PW	SMD 843-4506●	2.50	1.71	1.27	– –	– –
1791	TI	28	SSOP	24Bit DAC 192kSPS	PCM1791ADB.	NEW SMD 164-8630●	3.20	2.57	2.13	1.93	1.88
1792	TI	28	SSOP	24-Bit Audio D-A Converter. Advanced Segment	PCM1792DB	SMD 120-7081●	12.60	11.31	9.65	– –	– –
1794	TI	28	SSOP	24-Bit Audio D-A Converter	PCM1794DB	SMD 120-7082●	14.82	11.37	9.65	– –	– –
1800	TI	24	SSOP	20Bit DAC 48kSPS	PCM1800E.	NEW SMD 164-8631●	3.97	3.18	2.65	2.39	2.33
1801	TI	14	SOIC	16Bit ADC 48kSPS	PCM1801U.	NEW SMD 164-8613●	3.66	2.93	2.44	2.20	2.15
1835	ADI	52	MQFP	2 ADC, 8 DAC, 96 kHz, 24-Bit Codecs	AD1835AASZ	SMD 839-6540●	13.53	10.75	9.55	– –	– –
1837	ADI	52	MQFP	2 ADC, 8 DAC, 96 kHz, 24-Bit Codecs	AD1837AASZ	SMD 839-6566●	10.10	7.77	6.28	– –	– –
1851	ADI	16	DIP	16-Bit PCM Audio DAC With serial to parallel register and Voltage Reference. 0.008% THD, 0.001% linearity error,110dB SNR, 1.5Ms settling time, 2x/4x/8x/16x oversAmpling, 100mW typ Power dissipation	AD1851NZ	158-1907●	8.78	6.98	5.92	– –	– –
1856	ADI	16	DIP	16-Bit PCM Audio DAC With serial to parallel register and Voltage Reference. 0.008% THD, 0.001% linearity error,96dB SNR, 1.5Ms settling time, 2x/4x/8x oversAmpling, 150mW typ Power dissipation	AD1856NZ	158-1900●	20.62	15.93	11.06	– –	– –
1866	ADI	16	DIP	16-Bit Dual Audio DAC With serial Input-Voltage output. 0.005% THD+N, 3dB Gain linearity error, 95dB SNR, 115dB channel seperation, 8x oversAmpling, 65mW mAx.Power dissipation.	AD1866NZ	158-1908●	15.70	12.74	10.73	– –	– –
1877	ADI	28	SOIC	Single-Supply 16-Bit (Sigma Delta) Stereo ADC, 94dB DNR, 90dB THD + N	AD1877JRZ	SMD 143-8337●	10.99	8.43	7.15	– –	– –
2704	TI	28	SSOP	D-A Converter, Audio With USB	PCM2704DB	SMD 843-4662●	4.55	3.10	2.50	2.41	2.24
2705	TI	28	SSOP	D-A Converter, Audio With USB	PCM2705DB	SMD 843-4670●	4.55	3.10	2.50	2.41	2.24
2706	TI	32	TQFP32	Stereo USB1.1 DAC with line-out and S/PDIF output, Bus/Self-powered (I2S Interface)	PCM2706PJTG4	SMD 139-0710●	5.50	4.42	3.64	3.12	3.04
3057	NSC	16	MDIP	Serial Interface CODEC/Filter COMBO A-law PCM format	TP3057N/NOPB	156-4789●	4.12	3.39	2.83	2.57	2.26
4104	TI	48	TQFP	24-Bit, High-End 4-Channel Audio DAC, 192kHz	PCM4104PFBTG4	SMD 139-0707●	8.57	7.02	5.79	5.00	4.63
4202	CIR	48	TQFP	Audio Codec '97 with Headphone Amplifier	CS4202-JQZ	NEW SMD 155-7470●	4.66	4.19	3.82	3.50	2.99
4202	TI	28	SSOP	216kHz. Stereo-Audio. Delta-SigmA	PCM4202DBR	SMD 996-9063●	13.32	11.82	10.60	9.63	8.81
4204	TI	64	HTQFP	216kHz, 4-Channel Audio, Delta-SigmA.	PCM4204PAPT	SMD 996-9098●	11.78	10.45	9.38	8.51	7.79
4299	CIR	48	LQFP	Audio Codec '97 with CrystalClear & SoundFusion Technology	CS4299-JQZ	NEW SMD 155-7471●	4.43	3.94	3.22	2.95	2.54
4341	CIR	16	SOIC	24 Bit 192KHz Stereo DAC with Volume Control.	CS4341A-KSZ	NEW SMD 155-7469●	3.27	2.90	2.38	2.18	1.86
4399	CIR	8	SOIC	24-Bit 96kHz Stereo DAC	CS4339-KSZ	NEW SMD 155-7463●	1.59	1.43	1.30	1.19	1.03
5556	MAX	8	SOIC	Stereo Audio DAC	MAX5556ESA+	SMD 143-3203●	2.06	1.44	1.18	0.97	0.95
7120	ADI	48	LQFP	CMOS 30 MHz, Triple 8-Bit Video DAC	ADV7120KSTZ30	SMD 143-8731●	8.42	6.46	5.48	– –	– –
7123	ADI	48	LQFP	240 MHz Triple 10-Bit High Speed Video DAC	ADV7123JSTZ240	SMD 143-8732●	11.10	8.82	7.83	– –	– –
7125	ADI	48	LQFP	240 MHz Triple 8-Bit High Speed Video DAC	ADV7125JSTZ240	SMD 143-8733●	9.86	7.56	6.41	– –	– –
7125	ADI	48	LQFP	140 MHz Triple 8-Bit High Speed Video DAC	ADV7125KSTZ140	SMD 143-8734●	7.40	5.68	4.82	– –	– –
7127	ADI	24	TSSOP	CMOS 240 MHz 10-Bit High Speed Video DAC	ADV7127JRUZ240	SMD 143-8735●	14.27	11.34	10.07	– –	– –
7179	ADI	40	LFCSP	Chip Scale NTSC/PAL Video Encoder	ADV7179BCPZ	NEW SMD 165-1273●	11.66	9.07	7.42	6.80	6.51
9850	MAX	28	TQFN-EP	95mW Stereo Audio DAC with DirectDrive Headphone Amplifier & Line Out O/P	MAX9850ETI+	NEW SMD 159-3410●	1.96	1.53	1.38	1.15	0.98
73311	ADI	20	SOIC	General purpose anaLogue front end processor With 16-Bit A/D and 16-Bit D/A channels, each With 70dB SNR over voice band signal bandwidth. Supports speech synthesis, enhancement and DSP	AD73311ARZ	SMD 107-9320●	7.14	4.87	3.93	– –	– –
Data Acquisition Systems											
81	NSC	24	TSSOP	Serial Interface ACPI-Compatible Microp. System Hardware Monitor	LM81BIMT-3/NOPB	NEW SMD 167-4009●	4.66	3.32	2.42	2.01	1.79
125	MAX	36	SSOP	14 Bit 8 Channel Simultaneous-Sampling ADC	MAX125CEAX+	NEW SMD 159-3302●	27.64	21.50	19.35	16.12	13.83
197	MAX	28	SOIC	Multi-range 5V 12-Bit DAS With 8 + 4 Bus interface.	MAX197ACWI+	SMD 118-7984●	29.01	22.25	16.91	– –	– –
197	MAX	28	DIP	12Bit DAC, 8 Analogue I/P, Selectable I/P Voltage	MAX197BCNI+	142-2294●	26.66	17.14	14.18	10.50	8.12
670	ADI	20	PDIP	8-Bit Signal Conditioning ADC Including Instrumentation Amp and Reference, 10us Conv Time	AD670JNZ	143-8345●	16.47	13.09	11.63	– –	– –
1200	TI	48	TQFP	Precision ADC & DAC With MCU	MSC1200Y3PFBT	SMD 118-0120●	10.54	8.08	6.86	6.70	6.53
1201	TI	36	QFN	Precision ADC & DAC With MCU	MSC1201Y3RHHT	SMD 118-0121●	9.07	7.84	6.25	6.00	5.64
1210	TI	64	SSOP	Precision ADC with 8051 Microcontroller And 32k Flash Memory	MSC1210Y5PAGTG4	SMD 128-7434●	16.54	14.18	11.40	11.10	10.81
1290	LT	20	DIP	8-Channel, MC, S, S/A, S/H.	LTC1290CCN	638-341▲	20.87	17.98	13.31	– –	– –
1290	LT	20	DIP	8-Channel, MC, S, S/A, S/H.	LTC1290CCN#PBF	956-1021●	29.85	16.88	12.27	– –	– –
1358	MAX	40	TQFN-EP	Dual 10 Bit DAC, 1 Op Amp, 2 SPDT, Temperature Sensor & Voltage Monitor	MAX1358BETL+	NEW SMD 160-9602●	13.41	11.98	10.24	9.09	8.05
1359	MAX	40	TQFN-EP	Single 10 Bit DAC, 2 Op Amp, 2 SPDT, Temperature Sensor & Voltage Monitor	MAX1359BETL+	NEW SMD 160-9603●	12.39	11.06	9.46	8.39	7.43
4402	MAX	14	TDFN	2 Channel 5Bit I2C Adjustable Current DAC	DS4402N+	NEW SMD 159-3295●	1.09	0.84	0.76	0.63	0.54
4404	MAX	14	TDFN	4 Channel 5Bit I2C Adjustable Current DAC	DS4404N+	NEW SMD 159-3296●	1.38	1.08	0.96	0.80	0.68
7569	ADI	24	DIP	8-Bit Analogue I/O System. Includes ADC, Sample/Hold Amp, Voltage Ref,DAC, O/P Amp	AD7569JNZ	107-9376●	12.41	9.24	7.69	– –	– –
7581	ADI	28	DIP	8-Bit/8 channel Data Acquisition System (±14 LSB). Includes on-chip 8 x 8 Dual port RAM	AD7581JNZ	107-9377●	21.48	16.09	13.56	– –	– –
7710	ADI	24	DIP	21-Bit SigmA-Delta Signal Conditioning ADC. Strain gauge or transducer Input, serial output, on-Board Programmable Gain Amp, Voltage Ref.	AD7710ANZ	960-5215●	29.21	23.23	20.63	– –	– –
7890	ADI	24	SOIC	12-Bit/8 channel Serial Data Acquistion System. Includes ADC, 8 channel multiplexer, 2.5V Reference, Track/Hold Amp	AD7890ARZ-10	SMD 960-5568●	12.45	9.65	9.40	– –	– –
Special Function											
2	ADI	40	DIP	Variable Resolution, Monolithic Tracking Resolver-to-Digital Converter.Programmable 10, 12, 14 or 16 Bit resolution.	AD2S80AJD	318-2071▲	125.98	108.56	96.42	94.56	– –
2	ADI	44	LQFP	12-Bit R/D Converter with Reference Oscillator	AD2S1205YSTZ	SMD 149-8670●	15.86	15.43	15.05	– –	– –
82	ADI	44	PLCC	Variable Resolution, Monolithic Resolver-to-Digital Converter	AD2S82AJPZ	SMD 143-8338●	152.74	126.01	111.89	109.77	102.74
83	ADI	44	PLCC	Variable Resolution Resolver-to-Digital Converter	AD2S83APZ	SMD 143-8339●	127.14	101.09	89.78	– –	– –
320	TI	48	TQFP	16-Bit OversAmpling SigmA-Delta A/D D/A CODEC, 22KSPS, interfaces to TMS320xx series DSP Processors, 3.0 to 5.5V operation (TQFP).	TLV320AIC10CPFBG4	SMD 121-4394●	2.57	2.20	2.15	– –	– –
500	TS	16	DIP	Integrating Converter AnaLogue Processor. Resolution and conversion speed controllable through software	TC500ACPE	976-2663●	4.36	3.48	2.84	– –	– –
1250	TI	16	SOIC	A-D Converter, 20-Bit 25khz Low Power	ADS1250UG4	SMD 120-6863●	10.15	8.10	6.61	– –	– –
7730	ADI	24	SOIC	Bridge Transducer ADC for Low level signal Inputs from a transducer to a serial output digital word.	AD7730LBRZ	SMD 107-9295●	14.24	11.00	9.33	– –	– –
7730	ADI	24	DIP	Bridge Transducer ADC for Low level signal Inputs from a transducer to a serial output digital word.	AD7730BNZ	960-5487●	16.05	12.85	11.41	– –	– –
7731	ADI	24	DIP	24-Bit Delta-SigmA ADC With Programmable Gain front end for Low levelsignals from a transducer, suitable for process control	AD7731BNZ	107-9298●	17.52	14.00	10.03	– –	– –
7785	ADI	16	TSSOP	3-Ch, Low Noise, Low Power, 20-Bit Sigma-Delta ADC with On-Chip In-Amp and Reference	AD7785BRUZ	SMD 149-8672●	8.41	6.08	4.79	– –	– –
7870	TI	28	SSOP	12-Bit Data Acquisition System	ADS7870EAG4	SMD 120-6875●	6.07	4.83	3.94	– –	– –
7871	TI	28	SSOP	14-Bit 48KSPS DAS With A-D Converter	ADS7871IDBG4	SMD 120-6876●	7.42	5.82	4.76	– –	– –

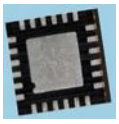
RL Re-reeling available

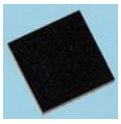
Farnell

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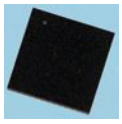
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Audio CODECs


24 pin QFN


32 pin QFN


28 pin SSOP


48 pin QFN

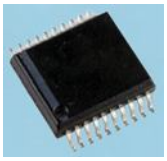
ADC SNR	DAC SNR	Output Driver	ADC and DAC	Mftrs
A weighted 3.3V/ 1.8V	Single / Dual		Sampling Frequency	List No.
90dB / 85dB	100dB / 95dB	Stereo Headphone Driver & Lineout	8kHz - 96kHz	WM8731SEDS
95dB	98dB	Stereo Headphone Driver & 400mW Mono Speaker Driver	8, 11.025, 16, 22.05, 24, 32, 44.1, 48, 88.2, 96kHz	WM8750BLSEFL
87dB	94dB	Stereo Headphone Driver, 400mW Mono Speaker Driver & Stereo Headphone	8kHz - 48kHz	WM9713LGEFL/V
94dB	94dB	Speakers or Headphone, & Mono Line Output	8, 11.025, 16, 22.05, 24, 32, 44.1, 48kHz	WM8974GEFL/V

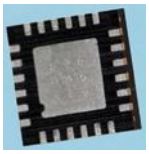
This family of CODEC ICs are a low power, high quality mono/stereo devices designed for portable applications, operating at voltages down to 1.42V to save power.
The **WM8731** has a stereo line and mono microphone level audio inputs, along with a mute function, programmable line level volume control and a bias voltage output suitable for an electret type microphone.Stereo 24-bit multi-bit sigma delta ADCs and DACs are used with oversampling digital interpolation and decimation filters. Digital audio input word lengths from 16-32 bits and sampling rates from 8kHz to 96kHz are supported. Stereo audio outputs are buffered for driving headphones from a programmable volume control, line level outputs are also provided along with anti-thump mute and power up/down circuitry. The device is controlled via a 2 or 3 wire serial interface. The interface provides access to all features including volume controls, mutes, de-emphasis and extensive power management facilities.
The **WM8750** interfaces to stereo or mono microphones and a stereo headphone. External component requirements are drastically reduced as no separate microphone or headphone amplifiers are required. Advanced on-chip digital signal processing performs graphic equaliser, 3-D sound enhancement and automatic level control for the microphone or line input. The WM8750 can operate as a master or a slave, with various master clock frequencies including 12 or 24MHz for USB devices, or standard 256fs rates like 12.288MHz and 24.576MHz. Different audio sample rates such as 96kHz, 48kHz, 44.1kHz are generated directly from the master clock without the need for an external PLL.
The **WM9713** is a dual CODEC processor, supporting Hi-Fi stereo Codec functions via the AC link interface, and additionally supporting voice Codec functions via a PCM type Synchronous Serial Port (SSP). A third Aux DAC is provided which may be used to support generation of supervisory tones, or ring-tones etc. at different sample rates to the main codec. The device can connect directly to a 4-wire or 5-wire touchpanel, mono or stereo microphones, stereo headphones and a stereo speaker, reducing total component count in the system. Cap-less connections to the headphones, speakers, and earpiece may be used also multiple analog input and output pins are provided for seamless integration with analog connected wireless communication devices. All device functions are accessed and controlled through a single AC-Link interface compliant with the AC'97 standard. The 24.576 MHz masterclock can be input directly or generated internally from a 13MHz (or other frequency) clock by an onboard PLL. The PLL supports a wide range of input clock from 2.048MHz to 78.6MHz. The WM9713L operates at supply voltages from 1.8V to 3.6V.
The **WM8974** contains is a differential or single ended mic amplifier, drivers for speakers or headphone, and a mono line output. Advanced Sigma Delta Converters are used along with digital decimation and interpolation filters to give high quality audio. Additional digital filtering options are available in the ADC path, to cater for application filtering such as wind noise reductio plus an advanced mixed signal ALC function with noise gate is provided. The digital audio interface supports A-law and μ-law companding. An on-chip PLL is provided to generate the required Master Clock from an external reference clock. The PLL clock can also be output if required elsewhere in the system. The speaker and mono outputs use a separate supply of up to 5V which enables increased output power.

467696

Mftrs. List No.	Pins	Package	Order Code	Price Each 1+	10+	100+	250+	500+
WM8731SEDS	28	SSOP	SMC135-4184●	2.65	2.12	1.75	1.50	1.40
WM8750BLSEFL	32	QFN	SMC135-4187●	3.18	2.54	2.09	1.79	1.68
WM9713LGEFL/V	48	QFN	SMC135-4191●	7.05	5.64	4.65	3.99	3.72
WM8974GEFL/V	24	QFN	SMC135-4196●	2.46	1.97	1.63	1.40	1.30

Stereo and Mono ADCs


20 pin SSOP


24 pins QFN

The **WM8785/6** are a stereo audio ADC with differential inputs designed for high performance recordable media applications. Data is provided as a PCM output. Stereo 24-bit multi-bit sigma-delta ADCs are used with digital audio output word lengths of 16 to 32 bits. The device also has a high pass filter to remove residual DC offsets.
The **WM8950** is a low power, high quality mono ADC designed for portable applications such as Digital Still Camera, Digital Voice Recorder or games console accessories. The device integrates support for a differential or single ended mic. External component requirements are reduced as no separate microphone amplifiers are required. Advanced Sigma Delta Converters are used along with digital decimation filters to give high quality audio. Additional digital filtering options are available, to cater for application filtering such as wind noise reduction, noise rejection, plus an advanced mixed signal ALC function with noise gate is provided. An on-chip PLL is provided to generate the required Master Clock from an external reference clock. The PLL clock can also be output if required elsewhere in the system. The WM8950 operates at supply voltages from 2.5 to 3.6V, although the digital supplies can operate at voltages down to 1.71V to save power. Different sections of the chip can also be powered down under software control by way of the selectable two or three wire control interface.

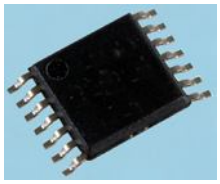
- Stereo ADCs designed for high performance recordable media applications
- Mono version designed for portable applications such as Digital Still Camera, Digital Voice Recorder or games console accessories
- Sigma Delta Converters

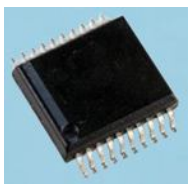
467684

Mftrs. List No.	Pins	Pkg	SNR / THD dB	Sample Rate Min / Max KHz	Other Features	Order Code	Price Each 1+	10+	100+	250+	500+
WM8785GEDS/V	20	SSOP	111/-102	8 / 192	TDM interface master/slave	SMC135-4182●	2.58	2.07	1.70	1.46	1.36
WM8786GEDS/V	20	SSOP	111/-102	8 / 192	Master/slave	SMC135-4183●	2.62	2.10	1.73	1.48	1.39
WM8950GEFL/V	24	QFN	95/-85	8 / 48	Master/slave, mic input	SMC135-4194●	1.99	1.59	1.31	1.13	1.06

Stereo DACs


8 pins SO


14 pins SO


20 pins SSOP


28 pins SSOP

This family of ICs are high performance stereo DAC designed for audio applications such as CD, DVD, home theater systems, set top boxes and digital TV. Supports data input word lengths from 16 to 32-bits and sampling rates up to 192kHz. Additional features include serial interface port, digital interpolation filter, multi-bit sigma delta modulator and stereo DAC. The ICs supports two connection schemes for audio DAC control, the SPI-compatible serial control port provides access to a wide range of features including onchip mute, attenuation and phase reversal and a hardware controllable interface is also available.

Analogue Output 10KΩ Full Scale 0dB @ 5V supply Vrms	SNR A weighted @ 48kHz dB	THD @ -1dB FS dB	DAC Sampling Frequency KHz	Word Length Bits	Audio DAC Control	Mftrs List No.
1.1	112	-97	8 - 192	16 to 24	SPI Serial & Hardware	WM8716SEDS
2.0	111	-100	8 - 192	16 to 32	SPI Serial	WM8718SEDS
1.0	99		8 - 96	16 to 24	Hardware	WM8725GED/V
1.2	98	-84	8 - 192	16 to 24	Hardware	WM8727GED/V
2.0	120	-104	8 - 192	16 to 24	SPI Serial & Hardware	WM8740SEDS

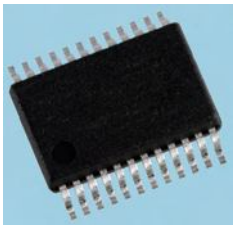
467663

Mftrs. List No.	Pins	Pkg	Order Code	Price Each 1+	10+	100+	250+	500+
WM8716SEDS	28	SSOP	SMD135-4193●	2.44	1.96	1.60	1.38	1.28
WM8718SEDS	20	SSOP	SMD135-4186●	1.40	1.12	0.92	0.79	0.74
WM8725GED/V	14	SO	SMD135-4189●	0.89	0.71	0.59	0.51	0.48
WM8727GED/V	8	SO	SMD135-4198●	0.92	0.74	0.61	0.52	0.49
WM8740SEDS	28	SSOP	SMD135-4181●	2.81	2.25	1.85	1.58	1.48

RL Re-reeling available

A/D and D/A Converters - continued

3-channel CCD/CIS ADC



- 16-bit resolution ADC
- 12MSPS conversion rate
- Low power - 320mW typ.
- V single supply or 5V/3.3V dual supply operation
- Single or 3-channel operation
- Correlated double sampling
- 8 or 4-bit wide multiplexed data output formats
- Serial control interface

The WM8196 is a 16-bit analogue front end/digitiser IC that processes and digitises the analogue output signals from CCD sensors or Contact Image Sensors (CIS) at pixel sample rates of up to 12MSPS.
The device has three separate analogue signal processing channels. Each channel contains Reset Level Clamping, Correlated Double Sampling and Programmable Gain and Offset adjust functions. Three multiplexers allow single channel processing. The digital output data is available in 8, 7 or 4-bit wide multiplexed format.
An internal 4-bit DAC is supplied for internal reference level generation. This may be used during CDS to reference CIS signals or during Reset Level Clamping to clamp CCD signals. An external reference level may also be supplied. ADC references are generated internally.

467754

Mftrs. List No.	Pins	Pkg	Order Code	Price Each 1+	10+	100+	250+	500+
WM8196SCDS	28	SSOP	SMD 135-4197	2.65	2.12	1.75	1.50	1.40

Cirrus A/D and D/A Converters

418932

	Pins	Pkg	Features	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
16-Bit A/D								
5101	28	PLCC	2-Channel, 100KSPS, MC, S, S/A, S/H	CS5101A-BL8Z	SMD 102-3402	52.14	43.85	42.73
5102	28	PLCC	2-Channel, 20KSPS, MC, S, S/A, S/H	CS5102A-BLZ	SMD 102-3403	42.31	33.64	29.87
5451	28	SSOP	6-Channel, MC, S, Delta SigmA	CS5451A-ISZ	SMD 102-3418	6.20	4.22	3.41
5509	16	SOIC	200KSPS, C, S, Delta SigmA	CS5509-ASZ	SMD 102-3423	9.00	6.91	5.86
5516	24	SOIC	Bridge Transducer A/D Converter	CS5516-ASZ	SMD 102-3424	17.86	14.74	13.08
5521	20	SSOP	2-Channel, Delta SigmA With PGIA	CS5521-ASZ	SMD 102-3426	5.86	3.99	3.22
5523	24	SSOP	4-Channel, Delta SigmA With PGIA	CS5523-ASZ	SMD 102-3428	6.05	4.13	3.33
5525	20	SSOP	Multi Range, Delta SigmA With 4-Bit Latch	CS5525-ASZ	SMD 102-3430	4.65	3.30	2.66
5529	20	SSOP	Programmable, Delta SigmA With 6-Bit Latch	CS5529-ASZ	SMD 102-3434	4.37	2.98	2.40
5531	20	SSOP	2-Channel, MC, S, Delta SigmA With Ultra-Low-Noise PGIA	CS5531-ASZ	SMD 102-3435	6.36	4.34	4.01
5533	24	SSOP	4-Channel, MC, S, Delta SigmA With Ultra-Low-Noise PGIA	CS5533-ASZ	SMD 102-3439	6.57	4.48	3.62
20-Bit A/D								
5508	20	SOIC	C, MC, S	CS5508-BSZ	SMD 102-3422	12.49	9.93	8.82
5520	24	SOIC	Bridge Transducer A/D Converter	CS5520-BSZ	SMD 102-3425	18.54	14.74	14.03
5526	20	SSOP	Multi-range, Delta SigmA With 4-Bit Latch	CS5526-BSZ	SMD 102-3431	6.72	4.59	3.70
24-Bit A/D								
53	32	QFN	98 dB, 96kHz, Delta Sigma, Stereo, S	CS53L21-CNZ	SMD 138-0022	3.90	2.66	2.15
5366	48	LQFP	6-Channel, 114 dB, 192 kHz	CS5366-CQZ	SMD 102-3414	13.62	11.24	9.99
5368	48	LQFP	8-Channel, 114 dB, 192 kHz	CS5368-CQZ	SMD 102-3415	14.50	11.53	10.24
5522	20	SSOP	2-Channel, Delta SigmA With PGIA	CS5522-ASZ	SMD 102-3427	5.89	4.51	3.83
5524	24	SSOP	4-Channel, Delta SigmA With PGIA	CS5524-ASZ	SMD 102-3429	5.42	4.32	3.64
5528	24	SSOP	8-Channel, Delta SigmA With PGIA	CS5528-ASZ	SMD 102-3432	6.41	4.92	4.17
5530	20	SSOP	Delta Sigma with Ultra-low-noise Amplifier	CS5530-ISZ	SMD 150-6318	5.03	3.66	2.87
5532	20	SSOP	2-Channel, MC, S, Delta SigmA With Ultra-Low-Noise PGIA	CS5532-ASZ	SMD 102-3436	6.18	4.75	4.03
5532	20	SSOP	2-Channel, MC, S, Delta SigmA With Ultra-Low-Noise PGIA	CS5532-BSZ	SMD 102-3438	8.29	6.35	5.95
5534	24	SSOP	4-Channel, MC, S, Delta SigmA With Ultra-Low-Noise PGIA	CS5534-ASZ	SMD 102-3440	6.45	4.95	4.63
5534	24	SSOP	4-Channel, MC, S, Delta SigmA With Ultra-Low-Noise PGIA	CS5534-BSZ	SMD 102-3441	8.56	6.56	5.56
5550	24	SSOP	2-Channel, MC, S	CS5550-ISZ	SMD 102-3444	2.86	2.02	1.53
5571	24	SSOP	Single-channel, 100 kSps, Single-ended, INL ±15 ppm, Delta Sigma	CS5571-ISZ	SMD 143-7482	16.89	13.14	10.33
Multi-Bit A/D								
5340	16	TSSOP	101 dB, 192 kHz, Multi-Bit Audio, S, Delta SigmA	CS5340-CZZ	SMD 102-3404	4.46	3.34	3.26
5341	16	TSSOP	105 dB, 192 kHz, Multi-Bit Audio, S, Delta SigmA	CS5341-CZZ	SMD 102-3405	5.13	3.86	3.76
5342	16	TSSOP	105 dB, 192 kHZ, Multi-Bit Audio, S, Delta Sigma	CS5342-CZZ	SMD 150-6242	5.35	3.88	3.05
5343	10	TSSOP	98 dB, 96 kHZ, Multi-Bit Audio, S, Delta Sigma, I2S	CS5343-CZZ	SMD 150-6243	3.28	2.24	1.67
5344	10	TSSOP	98 dB, 96 kHZ, Multi-Bit Audio, S, Delta Sigma, Left Justified	CS5344-CZZ	SMD 150-6244	2.92	2.11	1.67
5351	24	SOIC	108 dB, 192 kHz	CS5351-KSZ	SMD 102-3407	7.21	5.82	4.89
5351	24	TSSOP	108 dB, 192 kHz	CS5351-KZZ	SMD 102-3409	6.13	4.17	3.37
5361	24	SOIC	114 dB, 192 kHz	CS5361-KSZ	SMD 102-3411	6.13	4.70	3.99
5361	24	TSSOP	114 dB, 192 kHz	CS5361-KZZ	SMD 102-3412	6.13	4.70	4.41
5381	24	SOIC	120 dB, 192 kHz, Audio	CS5381-KSZ	SMD 102-3416	14.61	14.23	13.86
5381	24	TSSOP	120 dB, 192 kHz, Audio	CS5381-KZZ	SMD 102-3417	13.86	11.02	9.79
24-Bit D/A								
4334	8	SOIC	96 kHz, Delta SigmA, Stereo	CS4334-KSZ	SMD 102-3373	1.80	1.23	0.91
4335	8	SOIC	96 kHz, Delta SigmA, Stereo	CS4335-KSZ	SMD 102-3374	1.80	1.23	0.91
4338	8	SOIC	96 kHz, Delta SigmA, Stereo	CS4338-KSZ	SMD 102-3375	1.80	1.23	0.91
4340	16	TSSOP	101 dB, 96 kHz, Delta SigmA, Stereo	CS4340-CZZ	SMD 102-3376	2.71	1.85	1.38
4341	16	TSSOP	96 kHz, Delta SigmA, Stereo With Volume Control	CS4341-CZZ	SMD 102-3377	2.98	2.04	1.58
4344	10	TSSOP	192 kHz, Delta SigmA, Stereo	CS4344-CZZ	SMD 102-3379	2.01	1.37	1.02
4345	10	TSSOP	192 kHz, Delta SigmA, Stereo	CS4345-CZZ	SMD 102-3381	2.01	1.37	1.02
4348	10	TSSOP	192 kHz, Delta SigmA, Stereo	CS4348-CZZ	SMD 102-3383	2.01	1.37	1.02
4349	24	TSSOP	192 kHz, Delta Sigma, Stereo, with Volume Control + 1 Vrms Single Ended Output	CS4349-CZZ	SMD 150-6247	3.21	2.33	1.84
4351	20	TSSOP	112 dB, 192kHz, Stereo, Delta Sigma, 2 Vrms Line Driver	CS4351-CZZ	SMD 102-3384	3.70	2.52	2.03
4360	28	TSSOP	6-Channel, 102 dB, 192 kHz, Delta SigmA	CS4360-KZZ	SMD 102-3385	5.02	3.91	3.21
4361	20	TSSOP	6-Channel, 105 dB, 192 kHz, Delta SigmA	CS4361-CZZ	SMD 102-3386	4.69	3.20	2.58
4362	48	LQFP	6-Channel, 114 dB, 192 kHz, Delta SigmA	CS4362A-CQZ	SMD 102-3387	6.36	4.88	4.61
4385	48	LQFP	8-Channel, 114 dB, 192 kHz, Delta SigmA	CS4385-CQZ	SMD 102-3393	8.76	6.72	5.70
4391	20	TSSOP	192 kHz, Delta SigmA, Stereo With Volume Control	CS4391A-KZZ	SMD 102-3394	3.70	2.52	2.14
4392	20	TSSOP	192 kHz, Delta SigmA, Stereo With Volume Control	CS4392-KZZ	SMD 102-3395	5.56	3.79	3.06
4397	28	SOIC	Multi-Standard Stereo, Delta SigmA	CS4397-KSZ	SMD 102-3396	8.08	6.99	6.18
4398	28	TSSOP	120 dB, 192 kHz, Delta SigmA With Volume Control	CS4398-CZZ	SMD 102-3397	5.54	4.26	3.62
43	40	QFN	98 dB, 96 kHZ, Stereo, Delta Sigma, w/Headphone & Speaker Amps	CS43L22-CNZ	SMD 150-6248	4.99	3.62	2.86
24-Bit Codec								
42	40	QFN	Low Power, Stereo CODEC w/Headphone & Speaker Amps	CS42L52-CNZ	SMD 150-6254	8.32	6.04	4.74
42	32	QFN	Stereo Codec With Headphone Amp	CS42L51-CNZ	SMD 102-3372	4.89	3.33	2.69
43	32	QFN	98 dB, 96kHz, Delta Sigma, Stereo	CS43L21-CNZ	SMD 138-0024	5.02	3.69	2.97
4245	48	LQFP	105 dB, 192 kHz, Stereo Audio Codec	CS4245-CQZ	SMD 102-3362	4.86	3.31	2.67
4270	24	TSSOP	192 kHz, Stereo Audio Codec	CS4270-CZZ	SMD 102-3369	3.52	2.40	1.79
4271	28	TSSOP	192 kHz, Stereo Audio Codec	CS4271-CZZ	SMD 102-3370	5.51	3.75	3.03
4272	28	TSSOP	24 Bit Programmable up to 192KHz Stereo Audio Codec	CS4272-DZZ	NEW SMD 155-7477	9.05	8.04	6.58
4272	28	TSSOP	192 kHz, Stereo Audio Codec	CS4272-CZZ	SMD 102-3371	6.74	4.59	4.05
4350	24	TSSOP	109 dB, 192kHz, Stereo, Delta Sigma, Intergrated PLL	CS4350-CZZ	SMD 138-0026	3.89	2.65	1.97
4352	20	TSSOP	102 dB, 192 kHz, Stereo, Delta Sigma, 2 Vrms Line Driver	CS4352-CZZ	SMD 138-0025	3.09	2.11	1.57
42406	48	LQFP	192 kHz, 2-In 6-Out, Audio Codec	CS42406-CQZ	SMD 102-3355	4.94	3.37	2.72
42418	64	LQFP	110 dB, 192 kHz, 8-Channel Codec With PLL	CS42418-CQZ	SMD 102-3357	5.52	4.25	4.17
42438	52	MQFP	108 dB, 192 kHz, 6-in, 8-out TDM Codec	CS42438-CMZ	SMD 102-3360	9.88	7.85	6.68
42448	64	LQFP	108 dB, 192 kHz, 6-in, 8-out Codec	CS42448-CQZ	SMD 102-3361	8.13	6.24	5.29
42526	64	LQFP	114 dB, 192 kHz, 6-Channel Codec With S/PDIF Receiver	CS42526-CQZ	SMD 102-3365	8.41	6.71	6.06
42528	64	LQFP	114 dB, 192 kHz, 8-Channel Codec With S/PDIF Receiver	CS42528-CQZ	SMD 102-3367	9.61	7.37	7.04
42888	64	LQFP	108 dB, 192 kHz 4-In, 8-Out CODEC	CS42888-CQZ	SMD 150-6253	11.45	8.32	6.55

Key to Features: C = CMOS, D/B = Double-Buffered, L = Latches, M = Multiplying, MC = Microprocessor Compatible, MP = Micropower, P = Parallel O/P, R = Internal Reference, R2R = Rail-to-Rail output, S = Serial O/P, S/A = Successive Approximation, S/H = Sample and Hold, T = Temp. Sensor, T/H = Track and Hold, V = Voltage O/P

MCP3221 12-bit A/D PICtail Demo Board



Features:
- Allows simple evaluation of device performance using USB interface and DataView software
- On-board PIC16C745 USB for DataView communication
- Data is displayed in an easy-to-read format graphical complete with data logging
- Easy to interface to PICkit 1 evaluation system
- Ready-to-go DC voltage generation using mechanical potentiometer

The MCP3221 PICtail™ Demonstration Board is designed to demonstrate Microchip's MCP3221 device. The demonstration uses DataView™ Windows software for a graphical real time data analysis from the board through USB. This demo board can also be used for firmware development to the MCP3221 device using the PICkit™ 1 Flash Starter Kit.

450879

		Order Code	Price Each
MCP3221DM-PCTL	PICtail™ Demonstration Board for MCP3221 device	**111-2731**	12.60

Mixed Signal PICtail™ Demo Board

The Mixed Signal PICtail™ Evaluation Board enables quick and accurate evaluation of the performance of several Microchip DACs, ADCs, LDOs, Vrefs and Operational Amplifiers. The board interfaces to the PICkit™1 Flash Starter Kit or can utilize the on-board PIC16F767 for stand-alone" operation. The user can take advantage of the existing PIC microcontroller library of software routines or develop their own routines. The PICmicrocontroller can select which DAC to configure, which ADC channel to read, and utilize a dual op-amp for various buffer implementations.

Features:
- 4 layer board for low noise evaluation
- Supports the following Microchip Mixed Signal devices (surface mount footprint):
- MCP492X SPI DACs
- TC132X I2C DACs
- MCP330X and MCP320X SPI SAR ADCs
- MCP3221 and MCP3021 I2C SAR ADCs
- MCP1525 and MCP1541 Voltage References
- MCP170X LDOs
- PIC16F767-I/SS footprint with ICSP™ (In-Circuit Serial Programming™) interface
- Sample kit contains a number of applicable Microchip DACs, ADCs, LDOs and Vrefs

450886

		Order Code	Price Each
MXSIGDM	Mixed Signal PICtail™ Demo Board	**111-2735**	46.49

MCP355X Tiny Application Sensor Demo Board



This board is designed to demonstrate the performance of the MCP3550/1/3 devices in a simple low-cost application. The circuit uses a ratiometric sensor configuration and uses the system power supply as the voltage reference. The extreme common mode rejection capability of the MCP355X devices, along with their excellent normal mode power supply rejection at 50 and 60 Hz, allows for excellent system performance.

Features:
- USB Interface to PC software DataView for graphical noise analysis
- Small 1" x 1" PCB design
- Jumper to select between reference supply as VDD or on-board LM4140

478247

Mftrs. List No.	Order Code	Price Each 1+
MCP355XDM-TAS	**133-2102●**	22.68

MCP3551 Delta-Sigma ADC Demo Board



The MCP3551 Delta-Sigma ADC Demo Board is designed to demonstrate Microchip Technology's MCP3551 22-Bit Delta-Sigma Analog-to-Digital (ADC) Converter performance using DataView™ software installed on a PC. The demo board can be used with MPLAB® ICD2, PICkit™ 1 Flash Starter Kit, or PICkit™ 2 for developing demonstration/evaluation firmware. Optionally, a second installed MCP3551 can be used with and optional stimulus board (sold separately).

The board is designed to evaluate the MCP3551 with minimum Printed Circuit Board (PCB) noise. The PCB layout practices low-noise design to reduce the signal noise as much as possible in order to demonstrate the 22-Bit performance of the MCP3551.

Features:
- Three precision potentiometers for demonstrating the capabilities of the MCP3551
- On-board PIC18F4550 with USB for DataView communication
- USB interface for connecting to a PC
- Dataview™ software with easy-to-read format and data logging
- Three headers/connectors for programming the PICmicro® using any of the following:
  - PICkit™1 Flash Starter Kit
  - PICkit™2
  - MPLAB® ICD2 (debugger and programmer)

478249

List No.	Order Code	Price Each 1+
MCP3551DM-PCTL	**133-2101●**	20.16

PCM420x Evaluation Modules



PCM4204EVM

The PCM4204EVM Evaluation Modules is a convenient platform for evaluating the performance of the PCM4204 analogue-to-digital. The ADC is a 4-channel 24-bit audio analogue-to-digital converter. The EVM include the following features:
- Simple configuration using onboard DIP switches
- Two (PCM4202EVM) or Four (PCM4204EVM) differential voltage inputs
- Low-Noise input buffer circuits
- Two (PCM4202EVM) or Four (PCM4204EVM) 75Ω AES3-encoded outputs, supporting operation up to 216kHz sampling rates
- Buffered Audio Serial Port
- two onboard system clock oscillators
- DSD Data Port supporting four-channel, 1-bit output or input data interface at 64x or 128x data rates (PCM4204EVM only)

418877

	Order Code	Price Each
PCM4204 Audio ADC Evaluation Module	**996-9080**	169.82

DEM-PCM2902 Evaluation Module

The DEM-PCM2902 is an evaluation board for Texas Instrumentsś newly developed USB interface PCM2902. It is a Bus-powered codec with S/PDIF interface. It is operated by USB +5V Bus-power supply, a +3.3V REGIC is mounted to provide analog power supply for the CODEC and analog circuit. Stereo audio output can be provided at Stereo Mini Jack.

Features:
- Full speed transceivers
- Partical compliant descripters
- USB adaptive mode for playback
- USB acynchronous mode for record
- Bus powered

494299

Features:
- Full speed transceivers
- Partical compliant descripters
- USB adaptive mode for playback
- USB acynchronous mode for record
- Bus powered

Mftrs. List No.	Order Code	Price Each
DEM-PCM2902	**139-0709▲**	254.75

TLV320AIC3106EVM Evaluation Module

The TLV320AIC106EVM is an EVM manufactured in Texas Instruments modular EVM form factor. The modular form factor allows direct evaluation of the TLV320AIC3106 device, low power stereo audio codec. The modular EVM is also compatible with the 5-6KINTERFACE and HPA-MCUINTERFACE boards from Texas Instruments and third party boards that support TI's modular EVMs. Provisions are made for connecting all audio inputs and outputs either from the modular connectors or with on-board terminals, a headphone jack, and external microphone jack.

Features:
- Full-featured evaluation board for the TLV320AIC3106 stereo audio codec
- Modular design for use with a variety of digital signal processors (DSPs) and microcontroller interface boards
- USB connection to PC provides power, control, and streaming audio ata for easy evaluation
- Analog output signals from the TLV320AIC3106EVM are available on top and bottom connectors
- On-board microphone for ADC evaluation

494312

Mftrs. List No.	Order Code	Price Each
TLV320AIC3106EVM	**139-0711▲**	41.75

Operational Amplifiers

Single

414159

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
3	INTS	8	DIP	Uncompensated, High Slew Rate, Operational Amp	HA3-2525-5Z	NEW 101-8160	3.740	3.330	2.730	2.510	2.240
3	INTS	8	DIP	Op Amp, 100MHz	HA3-5020-5Z	121-6105	2.820	2.510	2.040	1.890	1.720
6	MCHIP			Single R/R I/O 1.3MHz GBWP Op Amp Auto-Zeroed	MCP6V01-E/SN	NEW 162-9346	1.710	1.300	1.020	– –	– –
6	MCHIP			Single R/R I/O 1.3MHz GBWP Op Amp Auto-Zeroed	MCP6V03-E/SN	NEW 162-9349	1.790	1.350	1.060	– –	– –
6	MCHIP			Single R/R I/O 1.3MHz GBWP Op Amp Auto-Zeroed	MCP6V06-E/SN	NEW 162-9350	1.710	1.300	1.020	– –	– –
6	MCHIP			Single R/R I/O 1.3MHz GBWP Op Amp Auto-Zeroed	MCP6V08-E/SN	NEW 162-9352	1.790	1.350	1.060	– –	– –
7	TI	8	SOIC	Low-Offset Voltage Operational Amplifier	OP07DD	SMD 145-9541	0.800	0.570	0.440	0.330	0.290
7	TI	8	SOIC	Low-Offset Voltage Operational Amplifier	OP07CD	SMD 958-9929	0.740	0.520	0.400	0.300	0.270
7	ST	8	DIP	Precision Operational Amp. - Vos 150µV mAx. Drift 0.5µV/°C mAx.	OP07CN	109-4321	1.460	0.980	0.800	0.720	0.570
7	TI	8	DIP	Precision Operational Amp. - Vos 150µV mAx. Drift 1.8µV/°C mAx.	OP07CP	110-6130	0.860	0.520	0.400	0.300	0.270
7	ADI	8	DIP	Precision Operational Amp. - Vos 150µV mAx. Drift 1.6µV/°C mAx.	OP07CPZ	960-4600	1.350	0.930	0.660	– –	– –
7	ADI	8	SOIC	Precision Operational Amp. - Vos 150µV mAx. Drift 1.6µV/°C mAx.	OP07CSZ	SMD 960-4618	1.470	1.040	0.800	0.600	– –
7	ADI	8	PDIP	UltraLow Offset Voltage Operational Amplifier	OP07DNZ	127-4124	0.930	0.700	0.550	0.450	0.400
7	ADI	8	SOIC	UltraLow Offset Voltage Operational Amplifier	OP07DRZ	SMD 127-4123	0.930	0.700	0.550	0.450	0.400
7	ADI	8	DIP	Precision Operational Amp. - Vos 75µV mAx. Drift 1.3µV/°C mAx	OP07EPZ	960-5452	3.020	2.060	1.540	– –	– –
10	NSC	8	MDIP	Single Channel Op Amp & Voltage Reference	LM10CLN/NOPB	NEW 156-4624	2.220	1.810	1.500	1.270	1.170
10	NSC	8	DIL	Single Channel Op Amp & Voltage Reference	LM10CN/NOPB	NEW 156-4679	2.430	1.980	1.630	1.390	1.280
10	NSC	8	DIP	Op Amp & Voltage Ref.	LM10CLN	948-6704	2.380	1.940	1.780	1.740	1.630
10	NSC	8	DIP	Op Amp. & Voltage Ref	LM10CN	948-6712	2.610	2.130	1.960	1.910	1.790
12	NSC	4	TO-3	Power Operational Amp., 150W	LM12CLK	121-6148	34.980	– –	– –	– –	– –
27	TI	8	PDIP	Ultra-Low Noise Precision Op Amp	OPA27GP.	NEW 164-8702	1.580	1.270	1.070	0.980	0.930
27	TI	8	SOIC	11-uA/Channel, 160kHz, RR-Out Op Amp	TLV27L1ID	SMD 146-0040	0.710	0.530	0.410	0.340	0.320
27	TI	8	DIP	Op Amp Precision Low Noise	OP27CJGB	118-0143	31.820	31.530	26.260	22.490	19.670
27	ADI	8	DIP	Low Noise Precision Operational Amp (i/p Vos mAx 25µV)	OP27EPZ	960-3603	5.250	3.580	2.660	– –	– –
27	ADI	8	DIP	Precision Op Amp, LN	OP27GPZ	960-4626	2.460	1.670	1.240	– –	– –
27	ADI	8	SOIC	Precision Op Amp, LN	OP27GSZ	SMD 942-6124	2.460	1.670	1.240	1.180	– –
27	TI	8	SOIC	OP Amp, Low Noise	OPA27GUE4	SMD 120-7111	1.780	1.430	0.920	– –	– –
27	TI	5	SOT-23	OP Amp, Rail-Rail, Single	TLV27L1IDBVT	SMD 845-5368	0.530	0.450	0.380	– –	– –
37	TI	8	PDIP	Ultra Low Noise Precision Op Amp	OPA37GP.	NEW 164-8705	1.640	1.310	1.100	0.990	0.960
37	ADI	8	PDIP	Low Noise, Precision, High Speed Operational Amplifier (A(VCL) >- 5)	OP37EPZ	143-8688	4.870	3.320	2.470	– –	– –
37	ADI	8	DIP	Precision Op Amp, LN	OP37GPZ	960-4642	2.270	1.550	1.110	– –	– –
37	ADI	8	SOIC	Low Noise, High Speed Precision Operational Amp	OP37GSZ	SMD 960-4650	1.990	1.350	0.970	0.910	– –
37	TI	8	SOIC	OP Amp, Low Noise	OPA37GU	SMD 121-2300	2.300	1.560	1.160	– –	– –
42	ADI	8	SOIC	High Speed, Fast Settling Precision Op Amp.	OP42GSZ	NEW SMD 165-1294	3.670	2.860	2.350	2.150	1.830
42	ADI	8	DIP	High Speed, Fast Settling Precision Operational Amplifier	OP42GPZ	136-1301	4.060	2.940	2.250	1.960	1.820
70	ST	5	SOT-23	Wide Band, Low Power Operational Amplifier With Standby Function	TSH70CLT	SMD 109-4967	1.500	1.130	0.940	0.870	0.750
71	TI	8	SOIC	Single Wide Bandwidth High Output Drive Op Amp	TLC071AID	SMD 145-9716	0.920	0.670	0.530	0.470	0.400
71	TI	8	SOIC	Single Wide-Bandwidth High-Output-Drive Op Amp	TLC071ID	SMD 145-9718	0.860	0.640	0.490	0.450	0.380
71	ST	8	SO	Wide Band, Low Power Operational Amplifier With Standby Function	TSH71CD	SMD 109-4969	1.260	0.930	0.800	0.740	0.680
74	TI	14	SOIC	Quad Wide-Bandwidth High-Output-Drive Op Amp	TLC074AID	SMD 145-9723	2.010	1.370	1.020	0.970	0.900
74	TI	14	SOIC	Quad Wide-Bandwidth High-Output-Drive Op Amp	TLC074CD	SMD 145-9724	2.010	1.370	0.980	0.920	0.840
80	ST	8	SOIC	Wideband, Rail-to-Rail Op Amp	TSH80ID	SMD 108-6954	1.340	0.990	0.730	0.610	0.460
80	ST	5	SOT-23	Wide Band, Rail-to-Rail Operational Amplifier with Standby Function	TSH80ILT	SMD 109-4975	0.960	0.810	0.700	0.620	0.530
81	ST	8	SOIC	Wideband, Rail-to-Rail Op Amp With Standby	TSH81ID	SMD 108-6955	0.850	0.710	0.550	0.440	0.430
81	ST	8	TSSOP	Wide Band, Rail-to-Rail Operational Amplifier with Standby Function	TSH81IPT	SMD 109-4976	1.160	1.000	0.880	0.790	0.700
82	NSC	8	NSOIC	4MHz GBWP Dual JFET Input Op Amp	TL082CM/NOPB	NEW SMD 156-4710	0.660	0.550	0.440	0.380	0.340
82	TI	8	SOIC	Dual Wide Bandwidth High Output Drive Single Supply Op Amp	TLC082AID	SMD 145-9726	1.170	0.930	0.700	0.650	0.630
82	TI	8	SOIC	Dual Wide Bandwidth High Output Drive Single Supply Op Amp	TLC082ID	SMD 145-9728	0.980	0.780	0.580	0.540	0.520
84	TI	14	SOIC	Quad Wide Bandwidth High Output Drive Single Supply Op Amp.	TLC084AID	SMD 145-9730	2.010	1.370	1.020	0.970	0.900
90	ADI	8	DIP	Precision Op Amp, LP	OP90GPZ	960-4669	3.670	2.500	1.860	1.770	– –
90	ADI	8	SOIC	Precision Low Voltage MicroPower Operational Amp	OP90GSZ	SMD 942-6132	3.670	2.500	1.860	1.770	– –
97	ADI	8	PDIP	Low Power, High Precision Operational Amplifier	OP97EPZ	143-8697	6.020	4.110	3.310	– –	– –
97	ADI	8	DIP	Precision Op Amp, LP	OP97FPZ	960-4677	2.240	1.530	1.140	– –	– –
97	ADI	8	SOIC	Low Power OP07, High Precision Operational Amp	OP97FSZ	SMD 942-6310	2.240	1.530	1.140	– –	– –
101	NSC	8	TO-5	Improved General Purpose Operational Amp (MIL TEMP)	LM101AH	121-6149	3.790	3.170	2.720	2.460	2.330
102	TI	14	SOIC	OP Amp, Isolation, Dual Data	IVC102U	SMD 121-2427	6.710	5.610	4.740	– –	– –
110	ST	5	SOT-23	Low Noise, Large Bandwidth Op Amp	TSH110ILT	SMD 108-6934	1.350	1.110	0.920	0.780	0.660
111	ST	8	SOIC	Low Noise, Large Bandwidth Op Amp With Standby	TSH111ID	SMD 108-6936	1.350	1.110	0.920	0.730	0.640
111	ST	8	TSSOP	Wide Band, Low Noise Operational Amplifier	TSH111IPT	SMD 109-4960	1.010	0.840	0.680	0.670	0.650
116	NSC	5	SOT-23	Low Voltage, 45MHz, Rail-to-Rail Output Op Amp With Shutdown Option	LMV116MF	SMD 818-7622	1.150	0.980	0.780	– –	– –
137	TI	5	SOT-23	Single FET-Input Op Amp	OPA137N/250	NEW SMD 156-4895	2.030	1.680	1.480	1.210	1.030
162	ADI	8	SOIC	Single 15MHz R/Rail Op Amp	OP162GSZ	NEW SMD 166-1001	3.170	2.460	2.010	1.850	1.540
165	ST	5	Pentawatt V	3A Power Op Amp	L165H	NEW 156-4301	3.760	3.020	2.670	2.180	1.840
165	ST	5	Pentawatt	Power Op Amp. 3A o/p	L165V	109-4203	3.830	2.940	2.110	1.810	1.590
177	ADI	8	SOIC	Ultra Precision Op Amp	OP177FSZ	NEW SMD 165-1309	3.790	2.940	2.420	2.210	1.890
177	ADI	8	DIP	Ultra-Precision Operational Amp	OP177FPZ	960-4057	4.470	3.050	2.270	– –	– –
177	ADI	8	DIP	Ultra-Precision Op Amp	OP177GPZ	960-4685	1.580	1.080	0.770	– –	– –
177	ADI	8	SOIC	Ultra-Precision Op Amp	OP177GSZ	SMD 942-6370	1.580	1.080	0.770	– –	– –
177	TI	8	DIP	Ultra-Precision Op Amp	OPA177GPG4	121-9410	1.690	1.150	0.830	0.770	0.710
177	TI	8	SOIC	OP Amp,Single Precision	OPA177GS	SMD 121-2431	1.350	1.150	0.830	– –	– –
184	ADI	8	SOIC	Single Supply R/Rail I/O Op Amp	OP184ESZ	NEW SMD 166-1002	4.770	3.720	3.040	2.790	2.310
184	ADI	8	SOIC	Single-Supply Rail-to-Rail Input/Output Operational Amplifier	OP184FSZ	SMD 143-8996	3.670	2.510	1.870	– –	– –
193	ADI	8	SOIC	Precision, Micropower Operational Amplifier	OP193FSZ	SMD 138-9168	2.970	2.020	1.500	– –	– –
201	NSC	8	TO-5	Improved General Purpose Operational Amp (IND TEMP)	LM201AH	121-6150	4.310	3.170	2.720	2.360	2.310
204	TI	16	SOIC	OP Amp, Programmable Gain	PGA204AUE4	SMD 120-7093	12.230	9.730	8.030	– –	– –
204	TI	16	PDIP	OP Amp, Programmable Gain	PGA204BP	121-2334	13.430	10.680	9.490	– –	– –
204	TI	16	SOIC	OP Amp, Programmable Gain	PGA204BU	SMD 120-7094	13.430	10.680	9.490	– –	– –
205	TI	16	SOIC	OP Amp, Programmable Gain	PGA205AU	SMD 121-2335	11.060	8.800	7.270	– –	– –
205	TI	16	SOIC	OP Amp, Programmable Gain	PGA205BU	SMD 121-2336	15.410	12.240	10.110	– –	– –
205	TI	16	SOIC	OP Amp, Programmable Gain	PGA205BU..	SMD 843-4875	11.800	9.840	8.420	– –	– –
206	TI	16	SOIC	OP Amp, Programmable Gain	PGA206UA	SMD 121-2337	14.430	11.480	10.190	– –	– –
207	TI	16	SOIC	OP Amp, Programmable Gain	PGA207UA	SMD 121-2338	18.080	14.360	11.870	– –	– –
227	TI	8	DIP	High Precision Amplifier, Wide Bandwidth 8MHz (IND TEMP)	OPA227PAG4	121-9412	2.110	1.440	1.070	– –	– –
227	TI	8	SOIC	OP Amp Precision Low Noise	OPA227U	SMD 121-2440	4.470	3.050	2.270	– –	– –
227	TI	8	SOIC	OP Amp Precision Low Noise	OPA227UA	SMD 121-2441	2.110	1.440	1.070	– –	– –
234	TI	8	SOIC	Low Power Precision Single Supply	OPA234U.	NEW SMD 164-8695	2.050	1.640	1.380	1.240	1.210
234	TI	8	SOIC	Low Power Precision Op-Amp	OPA234UAG4	SMD 123-4689	1.750	1.310	1.000	0.880	0.800
237	TI	5	SOT-23	OP Amp, Single-Supply	OPA237NA/250	SMD 120-7102	1.240	0.910	0.650	– –	– –
241	TI	8	SOIC	Single Supply MicroPower Operational Amplifiers	OPA241UA	NEW SMD 164-8699	1.760	1.410	1.170	1.060	1.030
241	BB	8	DIP	MicroPower, Single Supply Operational Amp., optimized for Powersupply Voltages (+5V)	OPA241PA	109-7411	2.310	1.570	1.170	– –	– –
244	TI	5	SOT-23	OP Amp, Single-Supply	OPA244NA	SMD 121-2447	1.360	1.010	0.830	– –	– –
244	BB	8	DIP	MicroPower, Single Supply (40µA, 2.2V to 36V) Amp. (IND TEMP)	OPA244PA	109-7475	1.160	0.790	0.570	– –	– –
244	BB	8	SOIC	MicroPower, Single Supply (40uA, 2.2V to 36V) Amp. (IND TEMP)	OPA244UA	SMD 109-7506	0.900	0.670	0.570	– –	– –
251	TI	8	DIP	Single-Supply, MicroPower Operational Amplifier	OPA251PA	141-7404	2.030	1.690	1.430	– –	– –
251	TI	8	SOIC	LINCMOS(TM) Programmable Low-Power Operational Amplifier	TLC251CDG4	SMD 123-4908	1.080	0.770	0.630	0.610	0.570
251	TI	8	PDIP	LINCMOS(TM) Programmable Low-Power Operational Amplifier	TLC251CPE4	123-4980	1.190	0.840	0.700	0.670	0.630
271	TI	8	SOIC	550-uA/Ch 3-MHz Rail-to-Rail Output Operational Amplifier	TLV271CD	SMD 146-0012	0.570	0.420	0.330	0.280	0.260
271	TI	8	SOIC	LinCMOS Programmable Op-Amp	TLC271ACDG4	SMD 123-4674	0.370	0.270	0.220	0.210	0.200
271	TI	8	PDIP	OP Amp, Programmable Gain	TLC271ACP	845-4140	0.470	0.340	0.260	– –	– –

RL Re-reeling available

Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
271 TI	8	SOIC	Programmable Low-Power Operational Amplifier	TLC271AIDG4	SMD 123-4854	0.380	0.280	0.240	0.220	0.210
271 TI	8	SOIC	Programmable Low-Power Operational Amplifier	TLC271BCDG4	SMD 123-4823	0.270	0.194	0.177	0.172	0.167
271 TI	8	PDIP	Programmable Low-Power Operational Amplifier	TLC271BCPE4	123-5030	0.250	0.182	0.177	0.173	0.168
271 TI	8	SOIC	Programmable Low-Power Operational Amplifier	TLC271BIDG4	SMD 123-5031	0.370	0.270	0.220	0.210	0.197
271 TI	8	SOIC	OP Amp, Rail-Rail Single Supply	TLV271ID	SMD 845-5244	0.610	0.500	0.390	– –	– –
271 TI	5	SOT-23	OP Amp, Rail-Rail Single Supply	TLV271IDBVT	SMD 845-5252	0.400	0.340	0.300	– –	– –
277 TI	8	PDIP	High Precision Op Amp	OPA277PA.	NEW 164-8701	1.170	0.930	0.790	0.710	0.690
277 TI	8	PDIP	High Precision Operational Amplifiers.	OPA277P	145-9584	4.010	2.730	2.030	1.930	1.800
277 BB	8	SOIC	Precision Op Amp, ULD	OPA277UA	SMD 109-7478	1.490	1.230	0.880	0.820	0.760
277 TI	8	SOIC	OP Amp, High Precision	OPA277UG4	SMD 120-7110	2.760	2.280	2.060	– –	– –
291 ADI	8	SOIC	MicroPower Single-Supply Rail-to-Rail Input/Output Op Amps	OP291GSZ	SMD 999-4360	4.110	2.890	2.160	– –	– –
293 ADI	8	SOIC	Precision, MicroPower Operational Amplifier	OP293FSZ	SMD 999-4394	4.350	3.100	2.300	– –	– –
296 ADI	8	SOIC	MicroPower, Rail-to-Rail Input and Output Operational Amplifiers	OP296GSZ	SMD 999-4408	3.450	2.430	1.820	– –	– –
300 ST	8	SOIC	Ultra Low Noise, High Speed Op Amp	TSH300ID	SMD 108-6940	2.550	2.320	2.160	2.000	1.860
300 ST	5	SOT-23	Ultra Low-Noise High-Speed Operational Amplifier	TSH300ILT	SMD 109-4964	2.550	2.310	2.150	1.970	1.930
301 NSC	8	TO-5	Op Amp, GP	LM301AH	121-6151	6.450	4.700	3.340	3.050	2.940
301 NSC	8	DIP	Op Amp.	LM301AN	948-6720	0.650	0.530	0.480	0.470	0.440
301 TI	5	SOT-23	OP Amp, Lo Noise	OPA301AIDBVT	SMD 846-8150	0.840	0.700	0.650	– –	– –
301 NSC	10	MSOP	Low Input Bias Current, 1.8V Op Amp w/ Rail-to-Rail Output	LMV301MG	SMD 131-2825	0.450	0.340	0.290	0.210	0.200
308 NSC	8	TO-5	Super Gain Operational Amp	LM308AH	121-5185	4.360	3.240	2.810	2.740	2.670
308 NSC	8	TO-5	Super Gain Operational Amp	LM308H	121-6152	6.220	4.590	3.780	3.510	3.390
310 ST	8	SOIC	Ultra Low Consumption, High Speed Op Amp	TSH310ID	SMD 108-6941	2.310	1.910	1.640	1.470	1.400
310 ST	5	SOT-23	Ultra Low Consumption, High Speed Op Amp	TSH310ILT	SMD 108-6942	1.780	1.500	1.240	1.110	0.990
318 TI	8	PDIP	Single High-Speed Operational Amplifier	LM318P	145-9517	1.070	0.760	0.580	0.440	0.390
318 NSC	8	TO-5	High Slew Rate Operational Amp	LM318H	121-6153	6.570	4.970	4.060	3.830	3.550
318 NSC	8	SOIC-8	High Slew Rate Operational Amp	LM318M	SMD 948-6739	1.030	0.760	0.550	0.360	0.310
321 NSC	5	SOT-23	Single 1MHz GBWP R/R Op Amp	LMV321M5/NOPB	NEW SMD 156-4743	0.400	0.330	0.270	0.230	0.210
321 TSC	5	SOT-25	Low Power Single Operational Amplifier	TS321CX5 RF	SMD 147-6668	0.350	0.300	0.270	0.240	0.200
321 ST	5	SOT-23	Low cost, low power input/output rail-to-rail operational amplifier	LMV321ILT	SMD 137-4133	0.650	0.480	0.390	0.340	0.310
321 ST	5	SOT-23	Low cost, low power input/output rail-to-rail operational amplifier	LMV321RILT	SMD 137-4134	0.650	0.480	0.390	0.340	0.310
321 ST	8	SOIC	General Purpose, Input/Output Rail-to-Rail Low Power Operational Amplifier	TSV321ID	SMD 137-4147	0.410	0.300	0.230	0.210	0.176
321 NSC	5	SOT-23	Low Power Operational Amp, operates in Single or Dual supply applications. (IND TEMP)	LM321MF	SMD 977-9116 RL	0.490	0.340	0.290	– –	– –
321 TI	5	SOT-23	Low Voltage Rail-to-Rail O/P Operational Amp.	LMV321IDBVR	SMD 110-5935	0.430	0.280	0.198	– –	– –
321 TI	5	SC-70	Single Low-Voltage RAIL-TO-RAIL OUTPUT Operational Amplifier	LMV321IDCKTE4	SMD 128-7438	0.610	0.510	0.380	0.300	0.280
321 NSC	5	SOT-23	General-Purpose, Low Voltage, Rail-to-Rail Output OperationalAmp	LMV321M5	SMD 119-7385 RL	0.430	0.360	0.330	– –	– –
330 ST	8	SOIC	Low Nise, Very-Large Bandwidth Op Amp	TSH330ID	SMD 108-6943	2.490	2.170	1.910	1.720	1.570
334 TI	6	SOT-23	OP Amp Single Supply w/Shut Down	OPA334AIDBVTG4	SMD 120-7113	1.500	1.250	1.070	– –	– –
335 TI	8	SOIC	OP Amp, Single Supply	OPA335AID	SMD 121-2296	1.890	1.370	1.020	0.970	0.900
335 TI	5	SOT-23	OP Amp, Single Supply	OPA335AIDBVTG4	SMD 120-7044	1.470	1.220	1.030	– –	– –
336 TI	5	SOT-23	OP Amp, Single Supply Low Power CMOS	OPA336N/250G4	SMD 120-7046	1.440	1.200	1.000	– –	– –
336 TI	5	SOT-23	OP Amp, Single Supply Low Power CMOS	OPA336NA	SMD 121-2297	0.980	0.820	0.660	– –	– –
336 TI	5	SOT-23	CMOS MicroPower Op-Amp	OPA336NA/250G4	SMD 123-4690	1.290	0.960	0.750	0.630	0.580
336 TI	5	SOT-23	Single-SUPPLY, MICROPower CMOS Operational AmplifierS MICROAmplifier (TM) SERIES	OPA336NA/3KG4	SMD 123-4785	1.320	0.980	0.760	0.650	0.600
337 TI	5	SOT-23	Microsize, Single-Supply Cmos Operational Amplifier MicroAmplifier(Tm) Series	OPA337NA/250G4	SMD 123-4852	0.950	0.770	0.630	0.550	0.480
340 TI	5	SOT-23	Single-Supply, Rail-To-Rail Operational Amplifiers Microamplifier(Tm) Series	OPA340NA/3KG4	SMD 123-4805	1.470	1.100	0.840	0.750	0.660
340 TI	8	DIP	5MHz Single Supply Operational Amp	OPA340PA	109-7413	1.580	1.080	0.770	– –	– –
341 ST	8	SOIC	Video Op Amp, Low Input/Output Rail	TSH341ID	SMD 108-6945	2.820	2.740	2.670	2.600	2.530
341 ST	5	SOT-23	300MHz Single Supply Video Amplifier With Low In/Out Rail	TSH341ILT	SMD 109-4966	2.520	1.860	1.670	1.640	1.590
341 TI	8	SOIC	Single, 5.5MHz, RRIO, Low Power, (OPA343 with Shutdown)	OPA341UA	SMD 145-9588	1.580	1.080	0.770	0.720	0.660
341 NSC	10	MSOP	Single with Shutdown/Dual/Quad General Purpose, 2.7V, Rail-to-Rail Output, 125°C, Operational Amplifiers	LMV341MG	SMD 131-2826	0.700	0.530	0.430	0.340	0.310
342 TI	8	SOIC	Low Cost, Low Power, Rail-to-Rail Operational Amplifiers MicroAmplifier(TM) Series	OPA342UA	SMD 145-9589	0.930	0.750	0.550	0.530	0.510
343 TI	5	SOT-23	Single-Supply, Rail-To-Rail Operational Amplifiers Microamplifier(Tm) Series	OPA343NA/250G4	SMD 123-4862	1.200	0.950	0.810	0.680	0.600
343 TI	8	SOIC	Single Supply, Rail-to-Rail Operational Amp	OPA343UA	SMD 110-6185	1.120	0.760	0.540	– –	– –
344 TI	5	SOT-23	Low Power, Single-SUPPLY, RAIL-TO-RAIL Operational AmplifierS MICROAmplifier(TM) SERIES	OPA344NA/250G4	SMD 123-4969	1.090	0.840	0.670	0.540	0.530
344 TI	8	DIP	Low Power, Single-Supply, Rail-to-Rail Operational Amp. (IND TEMP)	OPA344PA	109-7495	1.160	0.790	0.570	– –	– –
344 BB	8	DIP-8	Op Amp, LP.	OPA344PA.	353-4820	0.700	0.520	0.440	– –	– –
344 TI	8	SOIC	Low Power, Single-Supply, Rail-to-Rail Operational Amp. (IND TEMP).	OPA344UA	SMD 110-6191	1.160	0.790	0.570	– –	– –
347 TI	5	SOT-23	Micropower R/R I/O Op Amp	OPA347NA/250	NEW SMD 164-8704	0.760	0.610	0.510	0.470	0.440
347 TI	8	PDIP	Micropower Rail-To-Rail Operational Amplifier	OPA347PA	145-9591	1.230	0.870	0.670	0.500	0.450
348 TI	8	SOIC	1MHz, 45uA, RRIO, Single Op Amp	OPA348AID	SMD 145-9593	0.650	0.460	0.350	0.260	0.230
348 TI	5	SOT-23	OP Amp, 1MHZ, RRIO	OPA348AIDBVTG4	SMD 120-7047	0.530	0.380	0.310	– –	– –
349 TI	5	SOT-23	OP Amp, Rail-Rail Sub MicroPower	OPA349NA	SMD 121-2298	1.130	0.900	0.760	0.640	0.560
350 TI	8	VSSOP	OP Amp, Single-Supply	OPA350EA/250G4	SMD 120-7048	2.280	1.690	1.300	– –	– –
350 ST	8	SOIC	Low Noise, Very-Large Bandwidth Op Amp	TSH350ID	SMD 108-6946	1.430	1.220	1.070	0.940	0.870
353 TI	5	SOT-23	OP Amp, Single-Supply	OPA353NA/250	SMD 120-7049	2.110	1.440	1.070	0.920	0.810
353 TI	8	SOIC	High Speed, Single Supply, Rail-to-Rail Operational Amp	OPA353UA	SMD 110-6186	2.090	1.440	1.040	0.970	0.890
354 TI	5	SOT-23	OP Amp, 250MHZ, RRIO	OPA354AIDBVTG4	SMD 120-7050	1.390	1.110	0.920	0.800	0.700
355 TI	6	SOT-23	2.5V, 200MHZ GBW, CMOS Single OP Amp With SHUTDOWN.	OPA355NA/250G4	SMD 123-4944	1.630	1.290	1.090	0.920	0.820
355 TI	6	SOT-23	OP Amp, 200MHZ GBW.	OPA355NA/3KG4	SMD 120-7051	1.630	1.290	1.090	0.920	0.820
357 TI	6	SOT-23	OP Amp, 250MHZ, RRIO	OPA357AIDBVTG4	SMD 120-7053	1.530	1.220	1.010	0.880	0.770
363 TI	8	SOIC	1.8V, High CMR, RRIO Op Amp with Shutdown	OPA363ID	SMD 145-9598	1.900	1.290	0.930	0.860	0.800
364 TI	8	SOIC	1.8V, High CMR, RRIO Op Amp	OPA364ID	SMD 145-9599	1.900	1.290	0.930	0.860	0.800
364 TI	5	SOT-23	OP Amp, High CMR, RRIO	OPA364AIDBVTG4	SMD 120-7054	0.830	0.690	0.550	– –	– –
364 TI	5	SOT-23	OP Amp, High CMR, RRIO	OPA364IDBVT	SMD 121-2299	2.010	1.370	0.980	0.840	0.740
365 TI	5	SOT-23	2.2V, 50MHZ, Low-Noise, Single-SUPPLY RAIL-TO-RAIL Operational Amplifier	OPA365AIDBVTG4	SMD 127-6091	2.060	1.720	1.430	1.210	1.080
365 TI	8	SOIC	Single-Supply Rail-to-Rail Op Amp Using 50HPA07	OPA365AIDG4	SMD 132-9589	1.600	1.400	1.160	1.010	0.870
374 TI	5	SOT-23	OP Amp, 6.5MHZ, RRIO	OPA374AIDBVTG4	SMD 120-7056	0.530	0.450	0.350	– –	– –
376 TI	5	SOT-23	Precision, Low Noise, Low Iq Operational Amplifier	OPA376AIDBVTG4	SMD 143-9619	1.140	0.910	0.770	0.660	0.610
376 TI	8	SOIC	Precision, Low Noise, Low Iq Operational Amplifier	OPA376AID	SMD 149-4887	1.010	0.820	0.610	0.570	0.550
379 TI	5	SOT-23	Single 90kHz Op R/R I/O	OPA379AIDBVT	NEW SMD 162-4412	1.570	1.250	0.940	0.850	0.790
379 TI	8	SOIC	OP Amp, Rail-Rail I/O, 1.8V, 2.9μA, 90kHz	OPA379AIDG4	SMD 139-0691	1.210	0.970	0.810	0.680	0.630
380 TI	8	SOIC	Transimpedance Amplifier	OPA380AIDG4	SMD 118-0147	3.480	2.910	2.490	2.190	1.960
392 NSC	8	SOIC-8	Low Power Operational Amp./Voltage Comparator	LM392M	SMD 948-6755	1.090	0.900	0.830	0.800	0.750
392 NSC	8	SOIC	Low Power Operational Amp./Voltage Comparator	LM392M.	SMD 398-585	0.700	0.570	0.460	0.320	0.300
392 NSC	8	DIP	Op Amp / Volt. Comp.	LM392N	948-6763	1.230	1.000	0.910	0.800	0.660
392 TI	8	DIP	Low-Power Operational Amplifier and Voltage Comparator	LM392P	149-4902	0.860	0.720	0.550	0.410	0.370

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Operational Amplifiers - continued

414161

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	25+	50+	100+	250+
406	MAX	8	SO	Single 1.2microA Max Single Supply Op Amp	MAX406BCSA+	SMD 142-2316●	3.850	2.700	2.070	1.790	1.710
410	MAX	8	SOIC	28MHz GBWP Op Amp.	MAX410ESA+	NEW SMD 160-9598●	3.650	3.260	2.790	2.470	2.190
444	NSC	14	SOIC	1MHz GBWP Quad Low Power JFET Input Op Amp.	LF444CM/NOPB	NEW SMD 156-4711●	1.270	1.030	0.860	0.720	0.660
445	TI	8	TO-99	Single 2MHz GBWP High Voltage FET-Input Op Amp.	OPA445BM	NEW 156-4876●	16.580	13.680	12.150	9.950	8.420
452	TI	7	PFM	OP Amp, Unity Gain Stable	OPA452TA-1	SMD 121-2313●	4.550	3.100	2.500	– –	– –
453	TI	7	TO	OP Amp, Hi-Gain	OPA453TA	SMD 121-2314●	4.550	3.100	2.500	– –	– –
461	ST	8	SOIC	Rail-to-Rail, Low Noise, High output swing Operational Amp.	TS461CD	SMD 975-5713●	0.600	0.460	0.360	0.330	0.310
461	ST	8	SOIC	Rail-to-Rail, Low Noise, High output swing Operational Amp.	TS461CD.	SMD 332-9239▲	0.290	0.270	0.250	0.230	0.210
461	ST	5	SOT-23	Rail-to-Rail, Low Noise, High output swing Operational Amp.	TS461CLT	SMD 109-4375●	0.600	0.460	0.360	0.330	0.310
461	ST	5	SOT-23	Rail-to-Rail, Low Noise, High output swing Operational Amp.	TS461CLT.	SMD 332-9240▲	0.099	– –	– –	– –	– –
484	ADI	14	PDIP	Precision Rail-to-Rail Input & Output Operational Amplifier	OP484FPZ	143-8692●	9.070	6.180	4.990	– –	– –
491	ADI	14	PDIP	Micropower Single-Supply Rail-to-Rail Input/Output Op Amps.	OP491GPZ	143-8693●	6.220	4.240	3.420	– –	– –
495	MAX	8	DIP	MicroPower, Single Supply Operational Amp	MAX495CPA+	129-0857●	2.170	1.550	1.190	1.000	– –
495	MAX	8	DIP	MicroPower, Single Supply Operational Amp	MAX495CPA+	129-0857●	2.170	1.550	1.190	1.000	– –
507	ST	8	SOIC	Single 1.9MHz GBWP R/R I/O Op Amp	TS507IDT	NEW SMD 164-2721●	1.150	0.890	0.720	0.660	0.620
507	ST	5	SOT-23	Single 1.9MHz GBWP R/R I/O Op Amp	TS507ILT	NEW SMD 164-2722●	1.170	0.910	0.730	0.670	0.630
507	ST	8	SOIC	High precision single supply rail to rail op-amp GBWP 1.9MHz	TS507CD	SMD 137-4118●	0.670	0.600	0.550	0.530	0.500
507	ST	8	SOIC	High precision single supply rail to rail op-amp GBWP 1.9MHz	TS507ID	SMD 137-4119●	0.850	0.790	0.680	0.660	0.620
511	NSC	5	SC-70	Micropower, Rail-to-Rail Input and Output Operational Amplifier	LPV511MG	SMD 131-2667●	1.230	0.910	0.770	0.640	0.590
541	TI	8	TO-3	High Power Monolithic Operational Amplifier.	OPA541AM	145-9629●	109.300	86.890	77.180	75.690	70.830
541	TI	8	TO-3	High Power Monolithic Operational Amplifier.	OPA541BM	145-9630●	102.320	88.360	81.000	74.670	72.900
541	TI	8	TO-3	High Power Monolithic Operational Amplifier.	OPA541SM	145-9631●	102.530	88.550	81.180	74.830	73.050
541	BB	11	TO-220	High Power Op Amp 10A Peak O/P.	OPA541AP	109-7513●	15.000	12.460	11.220	– –	– –
547	TI	7	D2PAK	High Voltage & Current Op Amp	OPA547FKTWT..	NEW 164-8714●	6.640	5.320	4.430	4.000	3.900
547	TI	7	PFM	High-Voltage, High-Current Op Amp, Excellent Output Swing.	OPA547F/500G3	SMD 123-4776●	8.860	6.550	5.040	4.440	4.010
547	TI	7	TO-220	Single 1MHz Op Amp	OPA547T	NEW 156-4871●	8.800	7.260	6.450	5.270	4.470
548	TI	7	TO-220	3A Continuous Single 1MHz GBWP Op Amp	OPA548T	NEW 156-4885●	12.130	10.010	8.890	7.280	6.160
548	TI	7	PFM	High-Voltage, High-Current Op Amp, Excellent Output Swing.	OPA548FKTWTG3	123-4750●	12.220	9.010	6.930	6.130	5.510
548	TI	7	TO-220	Power Op Amp.	OPA548TG3	120-7063●	8.750	7.300	6.140	– –	– –
549	ADI	8	TO-99	Ultralow Input Bias Current Op Amp	AD549KHZ	NEW 166-0963▲	27.430	23.050	19.190	17.730	16.000
549	TI	11	PFM	OP Amp, Power	OPA549SG3	SMD 120-7065●	17.930	14.950	11.960	– –	– –
549	BB	11	TO-220	High Voltage, High Current Amp. With Disable, Current Limit and ThermAl shutdown.	OPA549T	109-7484●	31.480	19.300	15.940	– –	– –
551	NSC	5	SOT-23	3MHz, Micropower RRO Op Amp	LMV551MF	NEW SMD 166-3004●	1.000	0.780	0.630	0.580	0.500
551	TI	7	PFM	High-Voltage, High-Current Operational Amplifiers.	OPA551FAKTWTG3	123-4919●	4.890	3.610	2.760	2.450	2.210
551	TI	8	DIP	Power Op Amp.	OPA551PAG4	117-8432●	3.570	2.660	2.030	– –	– –
551	BB	8	SOIC	High Voltage, High Current, 3MHz Amp. With Disable, Current Limit and ThermAl shutdown. (IND TEMP).	OPA551UA	SMD 109-7509●	3.510	2.390	1.780	– –	– –
552	TI	8	DIP	High Voltage, High Current 12MHz Amp. With Disable, CurrentLimit and ThermAl shutdown	OPA552PA	121-5361●	3.510	2.390	1.780	– –	– –
552	TI	8	SOIC	OP Amp, Power	OPA552UA	SMD 121-2315●	3.510	2.390	1.780	– –	– –
561	TI	20	HTSSOP	High Current Operational Amplifier	OPA561PWPG4	SMD 123-4906●	4.910	3.660	2.770	2.460	2.210
569	TI	20	HSOP	Power Op Amp 2A O/P Current.	OPA569AIDWPG4	SMD 123-4786●	6.320	4.710	3.580	3.180	2.850
602	TI	8	PDIP	High-Speed Precision Difet Op Amp	OPA602AP	NEW 164-8715●	5.790	4.630	3.870	3.490	3.400
606	MCHIP			Single 2.5V Micropower CMOS Op Amp	MCP606T-I/OT	NEW 162-7201●	0.590	0.450	0.350	– –	– –
611	NSC	14	SOIC	Single Op Amp and Adjustable Reference	LM611IM/NOPB	NEW SMD 168-5317●	1.810	1.410	1.140	1.050	0.940
637	TI	8	PDIP	High-Speed Precision Difet Op Amp	OPA637AP	NEW 164-8716●	15.910	13.110	12.450	11.260	10.970
637	TI	8	SOIC	High Speed Differential Op Amp	OPA637AU	SMD 154-4014●	13.990	12.990	11.740	11.030	10.240
651	NSC	5	SOT-23	12MHz Low Voltage Low Power Op Amp	LMV651MF	NEW SMD 166-3006●	1.000	0.780	0.630	0.580	0.500
656	TI	5	SOT-23	OP Amp, Wideband, JFET, Input VFB	OPA656N	SMD 121-2320	5.090	4.240	3.650	– –	– –
656	TI	8	SOIC	Wideband JFET Op Amp.	OPA656U	SMD 121-2322●	5.970	4.070	3.280	– –	– –
651	NSC	5	SC-70	12 MHz, Low Voltage, Low Power Amplifier	LMV651MG	SMD 131-2610●	1.330	0.990	0.790	0.640	0.580
652	NSC	8	MSOP	12 MHz, Low Voltage, Low Power Amplifier	LMV652MM	SMD 134-2331●	0.870	0.770	0.690	0.620	0.570
675	NSC	5	TO-220	Power Op Amp.	LM675T	948-6771●	4.980	2.960	2.370	2.020	1.810
683	TI	8	SOIC	Very Low Power Current Feedback Amplifier with Disable	OPA683ID	SMD 145-9642●	2.300	1.560	1.160	1.100	1.030
690	TI	6	SOT-23	OP Amp Single Wideband VFB w/Disable	OPA690IDBVTG4	SMD 120-7069●	2.750	2.190	1.830	1.560	1.380
690	TI	8	SOIC	OP Amp Single Wideband VFB w/Disable	OPA690IDG4	SMD 120-7068●	2.470	1.990	1.660	1.430	1.230
691	TI	6	SOT-23	OP Amp Single Wideband CFB w/Disable	OPA691IDBVTG4	SMD 120-7071●	2.240	1.850	1.490	– –	– –
691	TI	8	SOIC	OP Amp Single Wideband CFB w/Disable	OPA691IDG4	SMD 120-7070●	2.050	1.710	1.370	– –	– –
692	TI	6	SOT-23	OP Amp Single Wideband FGB w/Disable	OPA692IDBVTG4	SMD 120-7072●	1.430	1.200	1.030	0.910	0.820
693	TI	8	SOIC	OP Amp Fixed Gain Video Buffer w/Disable	OPA693IDG4	SMD 120-7073●	2.050	1.730	1.490	1.300	1.180
694	TI	8	SOIC	WideBand, Low-Power, Current Feedback Amplifier	OPA694ID	SMD 145-9646●	2.390	1.630	1.210	1.150	1.070
695	TI	6	SOT-23	OP Amp High Speed CFB	OPA695IDBVTG4	SMD 120-7075●	2.400	2.190	1.830	1.560	1.380
695	TI	8	SOIC	OP Amp High Speed CFB	OPA695IDG4	SMD 120-7074●	2.470	1.990	1.660	1.430	1.230
698	TI	8	SOIC	Wideband Voltage Limiting Amplifier.	OPA698IDG4	SMD 118-0151●	3.380	2.830	2.440	2.130	1.900
699	TI	8	SOIC	Voltage Limiting Amplifier.	OPA699IDG4	SMD 118-0152●	3.120	2.540	2.010	1.820	1.690
703	TI	5	SOT-23	OP Amp, 12V, 1MHZ	OPA703NA/250G4	SMD 120-7077●	1.960	1.630	1.290	– –	– –
711	ADI	8	PDIP	Precision High Speed BiFET Op Amp	AD711KNZ	NEW 166-0965●	4.230	3.290	2.690	2.460	2.060
712	NSC	10	MSOP	Low Power, Low Noise, High Output, RRIO Dual Operational Amplifier with Independent Shutdown	LMV712MM	SMD 131-2827●	1.040	0.790	0.630	0.510	0.470
715	NSC	10	MSOP	Low Power, RRIO Operational Amplifiers with High Output Current Drive and Shutdown Option.	LMV715MF	SMD 131-2828●	1.010	0.660	0.500	0.440	0.410
716	NSC	5	SC-70	5 MHz, Low Noise Dual Operational Amplifiers, with CMOS Input	LMV716MM	SMD 131-2829●	0.700	0.530	0.430	0.350	0.320
721	NSC	5	SOT-23-5	10MHz, Low Noise, Low Voltage, Low Power Operational Amp.	LMV721M5	SMD 977-8497●	1.180	0.980	0.900	– –	– –
721	NSC	5	SC-70	10MHz, Low Noise, Low Voltage, Low Power Operational Amp.	LMV721M7	SMD 977-8500●	0.820	0.590	0.480	– –	– –
727	TI	8	SON	Op Amp Precision CMOS	OPA727AIDRBTG4	SMD 118-0142●	1.480	1.190	0.990	0.840	0.740
735	TI	8	SOIC	OP Amp Single-Supply CMOS Zero-Drift.	OPA735AID	SMD 121-2328●	2.570	2.040	1.710	1.460	1.270
735	TI	5	SOT-23	OP Amp Single-Supply CMOS Zero-Drift.	OPA735AIDBVT	SMD 121-2329●	2.810	1.910	1.420	1.290	1.260
741	TI	8	DIP	Compensated Operational Amp.	UA741CP	NEW 156-4944●	0.157	0.134	0.121	0.096	0.085
741	ST	8	PDIP	1MHz Op Amp I/P ±30V	UA741IN	NEW 156-4354●	0.480	0.370	0.340	0.280	0.230
741	FCH	8	DIP-8	General Purpose Op Amp	LM741CN	141-7641●	0.280	0.220	0.170	0.139	0.109
741	FCH	8	DIP	Compensated Operational Amp.	KA741	101-3815●	0.430	0.300	0.250	– –	– –
741	SAM	8	DIP	Compensated Operational Amp.	KA741.	345-8143▲	0.210	0.150	0.126	– –	– –
741	FCH	8	SOIC	Compensated Operational Amp.	KA741D	SMD 120-9533●	0.370	0.290	0.240	– –	– –
741	NSC	5	H08C	Compensated Op Amp	LM741CH	121-6154●	6.550	4.430	3.620	3.410	3.170
741	NSC	5	H08C	Compensated Op Amp	LM741H	121-6155●	6.550	4.430	3.550	3.090	3.010
741	TI	8	SOIC	Compensated Opl Amp.	UA741CD	SMD 110-6042●	0.350	0.240	0.174	– –	– –
741	ST	8	DIP	Compensated Op Amp	UA741CN	109-4414●	0.360	0.280	0.197	0.172	0.148
741	TI	8	DIP	Compensated Operational Amp.	UA741CPE4	121-0962●	0.320	0.220	0.144	– –	– –
743	TI	8	SOIC	0.05uV/degC (max), Single-Supply CMOS Zero-Drift Operational Amplifier	OPA743UA	SMD 145-9651●	1.830	1.280	0.980	0.850	0.840
748	ST	8	SOIC	General Purpose Precision Operational Amp. (LM101A equivalent)	UA748CD	SMD 109-4417●	1.030	0.790	0.620	0.510	0.440
748	ST	8	DIP	General Purpose Precision Operational Amp. (LM101A equivalent)	UA748CN	109-4418●	0.880	0.580	0.480	0.450	0.380
751	NSC	5	SOT-23	Low Noise, Low Vos, Single Op Amp	LMV751M5	SMD 131-2611●	1.370	1.020	0.860	0.670	0.610
771	NSC	5	SC-70	Single/Dual/Quad, Low Offset, Low Noise, RRO Operational Amplifiers	LMV771MG.	SMD 131-2612●	1.310	0.850	0.640	0.570	0.540
777	ADI	8	SOIC	Precision Op Amp	OP777ARZ	SMD 942-6108●	2.350	1.600	1.190	– –	– –
791	NSC	6	TSOT-23	17 MHz, Low Noise, CMOS Input, 1.8V Operational Amplifiers with Shut-down	LMV791MK	SMD 131-2614●	1.070	0.810	0.630	0.560	0.530
793	NSC	5	SOT-23	88 MHz, Low Noise, 1.8V CMOS Input, Decompensated Op Amp	LMV793MF	SMD 134-2338●	0.830	0.730	0.670	0.610	0.560
793	NSC	8	SOIC	88 MHz, Low Noise, 1.8V CMOS Input, Decompensated Op Amp	LMV793MA	SMD 134-2339●	0.910	0.800	0.710	0.640	0.580
796	NSC	5	SOT-23	17 MHz, Low Noise, CMOS Input, 1.8V Operational	LMV796MF	SMD 131-2616●	0.760	0.570	0.470	0.390	0.370

RL Re-reeling available

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	25+	50+	100+	250+
797	ADI	8	SOIC	Ultralow Distortion Ultralow Noise Op Amp	AD797BRZ	NEW SMD 165-1308	9.530	7.430	6.070	5.570	4.770
810	TI	8	SOIC	High-Gain Adjustable Range, Wideband, Voltage-Controlled Amplifier	VCA810ID	SMD 146-0057	8.530	6.550	5.550	5.320	4.980
817	ADI	8	SOIC	High Speed Low Power Wide Supply Range Op Amp	AD817ARZ	NEW SMD 166-0992	3.560	2.780	2.260	2.080	1.740
820	TI	5	SOT-23	Unity Gain Stable,Low Noise,Voltage Feedback Operational Amplifier	OPA820IDBVRG4	SMD 959-4000 RL	2.320	1.960	1.690	1.490	1.340
820	TI	8	SOIC	Op Amp Low Noise	OPA820IDG4	SMD 118-0135	1.830	1.470	1.220	1.060	0.910
821	TI	5	SOT-23	Rail-to-Rail Output, Low Voltage, Low Power Op Amp	LMV821DBVT	SMD 105-3767	0.540	0.390	0.300	– –	– –
821	TI	5	SC-70	Rail-to-Rail Output, Low Voltage, Low Power Op Amp	LMV821DCKTE4	SMD 105-3762	0.490	0.350	0.290	– –	– –
821	TI	5	SOT-23	Rail-to-Rail Output, Low Voltage, Low Power Op Amp	LMV821IDBVTE4	SMD 105-3756	0.460	0.310	0.260	– –	– –
821	TI	5	SC-70	Rail-to-Rail Output, Low Voltage, Low Power Op Amp	LMV821IDCKTE4	SMD 105-3752	0.630	0.470	0.370	– –	– –
827	TI	8	SOIC	JFET-Input Op Amp Single 22MHz GBWP	OPA827AID	NEW SMD 168-4749	12.430	9.660	7.910	6.690	6.220
831	NSC	5	SC-70	Single 3.3 MHz Low Power CMOS Op Amp	LMV831MG	NEW SMD 166-7426	0.940	0.720	0.590	0.500	0.470
831	NSC	5	SC-70	Single 3.3 MHz Low Power CMOS Op Amp	LMV831MGE	NEW SMD 166-7428	0.940	0.720	0.590	0.500	0.470
841	NSC	5	SC70	Single 4.5MHz GBWP R/R I/O CMOS Op Amp.	LMV841MG/NOPB	NEW SMD 156-4782	1.270	1.030	0.860	0.720	0.660
842	TI	8	SOIC	OP Amp Single WB, VFB Gain of 1 Stable	OPA842ID	SMD 121-2330	3.110	2.120	1.580	– –	– –
844	ADI	16	WSOIC	60 MHz, 2000 V/µs Monolithic Op Amp	AD844JRZ-16	SMD 143-8587	6.700	4.570	3.690	– –	– –
844	ADI	8	DIP	60MHz Current Feedback Amp	AD844ANZ	960-4693	5.830	3.970	3.210	– –	– –
844	NSC	14	TSSOP	Quad CMOS Input, RRIO, Wide Supply Range Quad Op Amp.	LMV844MT	SMD 134-2340	2.010	1.640	1.400	1.200	1.120
846	TI	8	SOIC	OP Amp Single WB Low Noise VFB	OPA846ID	SMD 121-2331	2.730	2.250	1.730	1.640	1.530
846	TI	8	SOIC	OP Amp Single WB Low Noise VFB	OPA846ID.	SMD 843-4310	0.990	0.830	0.700	– –	– –
846	TI	5	SOT-23	OP Amp Single WB Low Noise VFB	OPA846IDBVTG4	SMD 120-7078	3.740	3.020	2.510	2.150	1.870
847	TI	6	SOT-23	Single 3.9GHz GBWP Ultra Low-Noise Voltage Feedback Op Amp	OPA847IDBVT	NEW SMD 156-4933	4.450	3.660	3.270	2.670	2.270
847	ADI	8	DIP	High Speed, Low Power Operational Amp., 50MHz unity Gain bandwidth. Stability not affected by capacitive loading. 120ns settling time to 0.1%...	AD847JNZ	960-4707	5.310	3.620	2.920	– –	– –
847	ADI	8	SOIC	High Speed, Low Power Video Amp	AD847JRZ	SMD 942-6477	6.620	4.510	3.640	3.490	3.400
847	TI	6	SOT-23	OP Amp Single WB Ultra Low Noise VFB	OPA847IDBVTG4	SMD 120-7080	4.490	3.580	2.990	2.570	2.230
847	TI	8	SOIC	OP Amp Single WB Ultra Low Noise VFB	OPA847IDG4	SMD 120-7079	2.930	2.440	2.060	– –	– –
848	ADI	8	PDIP	Op Amp, High Speed Low Power	AD848JNZ	136-1299	5.350	3.640	2.940	2.820	2.750
860	MICR	5	SC-70	OP Amp,Rail-Rail O/P.	MIC860YC5 TR	SMD 129-2995	0.880	0.650	0.560	0.500	0.460
861	MICR	5	SC-70	Teeny™ Ultra Low Power Op Amp	MIC861YC5 TR	SMD 110-0679	0.720	0.590	0.500	0.450	0.420
861	TI	8	SOIC	Op Amp Transconductance - Wide Bandwidth	OPA861ID	SMD 118-0133	2.120	1.440	1.040	0.970	0.890
890	TI	8	SOIC	Single Op Amp with Voltage-Feedback	OPA890ID	NEW SMD 160-3399	1.110	0.980	0.810	0.670	0.630
911	ST	8	SOIC	Single 8MHz GBWP R/R I/O Op Amp	TSV911AIDT	NEW SMD 164-2726	0.640	0.500	0.410	0.370	0.350
911	ST	8	SOIC	Single 8MHz GBWP R/R I/O Op Amp	TSV911IDT	NEW SMD 164-2727	0.600	0.480	0.380	0.350	0.330
911	ST	5	SOT-23	Single 8MHz GBWP R/R I/O Op Amp	TSV911ILT	NEW SMD 164-2729	0.600	0.480	0.380	0.350	0.330
911	ST	8	SOIC	Rail-to-rail input/output 8MHz operational amplifier	TSV911AID	SMD 137-4120	0.600	0.550	0.510	0.490	0.460
911	ST	8	SOIC	Rail-to-rail input/output 8MHz operational amplifier	TSV911ID	SMD 137-4121	0.560	0.510	0.440	0.420	0.380
921	ST	8	DIP	Rail-to-Rail, I/O, High output Current (80mA) Operational Amp., 4MHz	TS921IN	109-4389	1.550	1.060	0.860	0.770	0.590
931	ST	8	SOIC	Rail-to-Rail, MicroPower (20µA/Amp.) Operational Amp.	TS931ID.	SMD 332-9367 ▲	0.510	0.470	0.430	0.390	0.350
931	ST	5	SOT-23	Rail-to-Rail, MicroPower (20µA/Amp.) Operational Amp.	TS931ILT	SMD 975-5721 RL	0.850	0.560	0.460	0.430	0.370
931	NSC	5	SOT-23	Single & Dual, 1.8V Low Power Comparators with Rail-to-Rail Input	LMV931MF	SMD 131-2837	0.840	0.690	0.630	0.620	0.580
931	NSC	6	SC-70	Single & Dual, 1.8V Low Power Comparators with Rail-to-Rail Input	LMV931MG	SMD 131-2838	0.990	0.770	0.600	0.490	0.440
951	NSC	6	SOT-23	1V, 2.7 MHz, Rail-to-Rail Input and Output Amplifier with Shutdown Option	LMV951MK	SMD 131-3864	1.620	1.280	1.120	0.910	0.860
951	ST	5	SOT-23	Low Power Op Amp.	TS951ILT	SMD 109-4402 RL	1.120	0.750	0.610	0.550	0.480
951	ST	8	DIP	Low Power, Rail-to-Rail I/O. Operational Amp., 3MHz	TS951IN	109-4404	0.810	0.700	0.600	0.530	0.510
971	ST	8	SOIC	Rail-to-Rail, Low Noise, 12MHz Operational Amp. (SOIC)	TS971ID	SMD 109-4408	0.770	0.530	0.440	0.410	0.350
971	ST	5	SOT-23	Rail-to-Rail, Low Noise, 12MHz Operational Amp	TS971ILT	SMD 975-5730 RL	0.660	0.530	0.460	0.380	0.360
981	NSC	6	SC-70	1.4MHz GBWP Single R/R I/O Op Amp	LMV981MG/NOPB	NEW SMD 168-5374	0.910	0.710	0.580	0.530	0.480
981	NSC	5	SOT-23	Single 1.8V, RRIO Operational Amplifiers	LMV981MF	SMD 131-2840	1.160	0.740	0.560	0.500	0.460
991	ST	5	SOT-23	Rail-to-rail input/output 20MHz GBP operational amplifiers	TSV991AILT	SMD 137-4127	0.720	0.660	0.620	0.580	0.550
991	ST	5	SOT-23	Rail-to-rail input/output 20MHz GBP operational amplifiers	TSV991ILT	SMD 137-4128	0.960	0.730	0.590	0.500	0.450
1001	LT	8	SOIC	Op Amp, Prec	LT1001CS8#PBF	SMD 133-0559	3.880	2.190	1.660	1.520	1.490
1006	LT	8	DIP	Precision, Single Supply, Operational Amp	LT1006CN8#PBF	955-9221	2.930	1.660	1.230	– –	– –
1006	LT	8	SOIC	Precision, Single Supply Op Amp.	LT1006S8#PBF	SMD 955-9230	3.590	2.030	1.500	– –	– –
1007	LT	8	SOIC	Low Noise, High Speed Precision Op Amp	LT1007IS8#PBF	NEW SMD 166-3324	5.310	3.980	3.190	2.660	2.380
1007	LT	8	DIP	Low Noise, High Speed Precision Operational Amp.	LT1007CN8#PBF	955-9248	3.430	1.950	1.500	– –	– –
1007	LT	8	SOIC	Low Noise, High Speed, Precision Operatioal Amplifier	LT1007CS8#PBF	SMD 113-6622	3.900	2.410	1.750	– –	– –
1008	LT	8	SOIC	Op Amp, Prec	LT1008S8#PBF	SMD 133-0562	5.430	4.230	3.460	3.020	2.690
1010	LT	8	DFN	Op Amp, High Speed	LT1010CDD#PBF	SMD 133-0563	3.950	3.100	2.520	2.210	1.950
1012	LT	8	SOIC	Op Amp, Prec	LT1012S8#PBF	SMD 133-0564	6.240	3.530	2.660	2.510	2.440
1028	LT	16	SOIC	Op Amp, Low Noise	LT1028CSW#PBF	SMD 133-0567	5.930	3.850	3.410	3.320	3.230
1028	LT	8	DIP	Low Noise, Precision High Speed Op Amp	LT1028ACN8#PBF	955-9477	13.600	7.690	5.810	– –	– –
1028	LT	8	DIP	Ultra Low Noise, Precision, High Speed Operational Amp	LT1028CN8#PBF	955-9485	8.980	5.080	3.810	– –	– –
1028	LT	8	SOIC	Ultra Low Noise, Precision, High speed Operational Amplifier	LT1028CS8#PBF	SMD 955-9493	8.980	5.080	3.810	– –	– –
1037	LT	8	SOIC	Op Amp, High Speed	LT1037CS8#PBF	SMD 133-0568	3.900	2.210	1.660	1.610	1.570
1051	TSC	6	SOT-26	Constant Voltage/Current Controller	TS1051CX6 RF	SMD 147-6669	0.350	0.310	0.270	0.240	0.210
1052	LT	8	DIP	Zero-Drift Op Amp	LTC1052CN8#PBF	NEW 166-3594	7.500	5.810	4.650	3.880	3.470
1077	LT	8	SOIC	Micropower Single Supply Precision Op Amp	LT1077IS8#PBF	NEW SMD 166-3345	4.450	3.340	2.670	2.230	1.990
1077	LT	8	DIP	Low Power, Precision Single Supply, Operational Amp	LT1077CN8#PBF	955-9663	3.020	1.710	1.310	– –	– –
1077	LT	8	SOIC	MicroPower, Single Supply Precision Operational Amplifier	LT1077S8#PBF	SMD 955-9671	3.690	2.080	1.580	– –	– –
1097	LT	8	DIP	Precision Operational Amp.-Vos 50µV mAx. Drift 1.0µV/°C mAx. (Enhanced OP07/OP77/OP97/OP177)	LT1097CN8#PBF	955-9914	3.310	1.870	1.390	– –	– –
1097	LT	8	SOIC	Low Power, Proecision Operational Amplifier	LT1097S8#PBF	SMD 955-9922	3.590	2.030	1.500	– –	– –
1100	INTS	8	SOIC	850MHz, Low Distortion Current Feedback Op Amp	HFA1100IBZ	NEW SMD 156-1932	2.620	2.030	1.660	1.410	1.300
1112	INTS	8	SOIC	850MHz Programmable Gain Buffer Amplifier	HFA1112IBZ	NEW SMD 156-1998	3.810	2.860	2.270	1.900	1.630
1115	LT	16	SOIC	Op Amp, Low Noise	LT1115CSW#PBF	SMD 133-0579	6.330	4.950	4.040	3.540	3.130
1122	LT	8	SOIC	Op Amp, Fast Settling	LT1122CS8#PBF	SMD 133-0580	5.860	3.310	2.500	2.410	2.360
1128	LT	8	SOIC	Ultra Low Noise Precision High Speed Op Amp	LT1128CS8#PBF	NEW SMD 166-3371	8.990	6.740	5.390	4.500	4.020
1128	LT	8	DIP	Op Amp, Low Noise	LT1128CN8#PBF	133-0586	8.980	5.080	3.810	3.340	3.100
1130	INTS	8	SOIC	850MHz, Output Limiting Low Distortion Current Feedback Op Amp	HFA1130IBZ	NEW SMD 156-1933	3.270	2.540	2.080	1.760	1.630
1135	INTS	8	SOIC	360MHz Video Op Amp with Output Limiting.	HFA1135IBZ	NEW SMD 156-1999	3.320	2.490	2.000	1.660	1.430
1150	LT	8	SOIC	Zero-Drift Op Amp with Internal Capacitors	LTC1150CS8#PBF.	NEW SMD 166-3601	8.060	6.240	4.990	4.170	3.720
1152	LT	8	SOIC	R/R I/O Zero-Drift Op Amp	LTC1152IS8#PBF	NEW SMD 166-3603	6.640	5.150	4.120	3.430	3.080
1177	ADI	8	SOIC	Single Precision Lo Input Bias Current Op Amp	OP1177ARZ	SMD 862-1594	1.880	1.360	1.050	– –	– –
1190	LT	8	SOIC	Op Amp, High Speed	LT1190CS8#PBF	SMD 133-0593	3.390	2.660	2.170	1.900	1.700
1191	LT	8	SOIC	Op Amp, High Speed	LT1191CS8#PBF	SMD 133-0594	2.290	1.350	1.300	1.260	1.230
1192	LT	8	SOIC	Op Amp, High Speed	LT1192CS8#PBF	SMD 133-0595	3.390	2.660	2.170	1.900	1.700
1195	LT	8	SOIC	Op Amp, High Speed	LT1195CS8#PBF	SMD 133-0598	3.390	2.660	2.170	1.900	1.700
1203	LT	8	SOIC	Op Amp, Video	LT1203CS8#PBF	SMD 133-0599	3.190	1.800	1.300	1.260	1.210
1204	LT	16	SOIC	Op Amp, Video	LT1204CSW#PBF	SMD 133-0600	9.210	5.230	4.160	3.870	3.770
1206	LT	7	TO-263 (D2-Pak)	Op Amp, Cfa	LT1206CR#PBF	SMD 133-0602	7.910	4.470	3.590	3.490	3.400
1210	LT	16	SOIC	Op Amp, 1.1A	LT1210CS#PBF	SMD 133-0606	10.680	6.940	6.050	5.600	5.190
1218	LT	8	SOIC	Precision R/R I/O Op Amp	LT1218LCS8#PBF	NEW SMD 166-3399	5.790	4.340	3.470	2.890	2.590
1218	LT	8	DIP	Op Amp, Prec	LT1218CN8#PBF	133-0616	8.680	6.800	5.540	4.860	4.300
1219	LT	8	DIP	Op Amp, Prec	LT1219CN8#PBF	133-0617	5.860	4.590	3.730	3.230	3.150
1220	LT	8	SOIC	45MHz 250V/microsec Slew Rate Op Amp	LT1220CS8#PBF	NEW SMD 166-3400	6.900	5.180	4.140	3.450	3.090
1220	LT	8	DIP	Op Amp, High Speed	LT1220CN8#PBF	133-0618	6.430	3.630	2.690	2.510	2.450
1221	LT	8	DIP	Op Amp, High Speed	LT1221CN8#PBF	133-0619	5.910	3.360	2.580	2.340	2.270
1222	LT	8	DIP	Op Amp, High Speed	LT1222CN8#PBF	133-0620	5.910	3.360	2.690	2.350	2.210
1224	LT	8	DIP	Op Amp, High Speed	LT1224CN8#PBF	133-0622	4.870	3.800	3.100	2.710	2.420
1226	LT	8	DIP	Op Amp, High Speed	LT1226CN8#PBF	133-0624	4.990	3.050	2.370	2.210	2.160
1227	LT	8	DIP	140MHz Current Feedback Amp	LT1227CN8#PBF	956-0300	4.370	2.480	1.890	– –	– –
1227	LT	8	SOIC	Video Current Feedback Amplifier	LT1227CS8#PBF	SMD 956-0319	5.080	2.880	2.500	– –	– –
1228	LT	8	DIP	Current Feedback Amplifier With DC Gain Control	LT1228CN8#PBF	956-0327	6.220	3.900	3.190	– –	– –
1228	LT	8	SOIC	Current Feedback Amplifier With DC Gain Control	LT1228CS8#PBF	SMD 956-0335	7.930	4.490	3.310	– –	– –

RL Re-reeling available

Operational Amplifiers - continued

Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	25+	50+	100+	250+
1252 LT	8	SOIC	Op Amp, Video	LT1252CS8#PBF	SMD 133-0628●	3.310	1.880	1.420	1.380	1.340
1252 LT	8	DIP	Current-feedback Video Amplifier	LT1252CN8	386-2173▲	1.630	1.390	1.110	– –	– –
1252 LT	8	DIP	Current-feedback Video Amplifier	LT1252CN8#PBF	956-0360●	3.080	1.750	1.350	– –	– –
1351 LT	8	MSOP	Op Amp, 250µA	LT1351CMS8#PBF	SMD 133-0634●	4.850	2.740	2.260	2.200	2.150
1354 LT	8	SOIC	Op Amp, 400V/µSec	LT1354CS8#PBF	SMD 133-0635●	4.500	2.550	2.000	1.740	1.690
1357 LT	8	DIP	High Speed Operational Amp., 25MHz Gain-bandwidth	LT1357CN8	641-285▲	3.680	2.620	2.100	– –	– –
1357 LT	8	DIP	High Speed Operational Amp., 25MHz Gain-bandwidth	LT1357CN8#PBF	956-0432●	4.370	2.480	1.960	– –	– –
1357 LT	8	SOIC	High-speed 25MHz, 600V/µs Operational Amplifier	LT1357CS8#PBF	SMD 956-0440●	4.850	2.750	2.160	– –	– –
1360 LT	8	SOIC	Op Amp, 800V/µSec	LT1360CS8#PBF	SMD 133-0641●	4.370	2.480	1.920	1.810	1.760
1363 LT	8	DIP	High Speed Operational Amp., 70MHz Gain-bandwidth, 50ns settling time to 0.1%	LT1363CN8	641-273▲	3.170	2.260	1.750	– –	– –
1363 LT	8	DIP	High Speed Operational Amp., 70MHz Gain-bandwidth, 50ns settling time to 0.1%	LT1363CN8#PBF	956-0467●	4.250	2.410	1.890	– –	– –
1363 LT	8	SOIC	Op Amp, 1000V/µSec	LT1363CS8#PBF	SMD 133-0643●	4.730	2.680	2.100	2.040	1.990
1366 LT	8	SOIC	Dual Precision Rail to Rail Input and Output Operation Amplifier	LT1366CS8#PBF	SMD 956-0483●	6.900	3.900	2.890	– –	– –
1368 LT	8	DIP	Op Amp, R2R	LT1368CN8#PBF	133-0646●	6.140	3.470	2.770	2.430	2.330
1395 LT	8	SOIC	Op Amp, 400Mhz	LT1395CS8#PBF	SMD 133-0647●	2.300	1.300	0.950	0.810	0.790
1468 LT	8	DIP	Op Amp, 16-Bit	LT1468CN8#PBF	133-0660●	3.810	2.990	2.440	2.070	2.020
1494 LT	8	SOIC	Single Precision R/R I/O Op Amp	LT1494CS8#PBF	NEW SMD 166-3436●	3.200	2.400	1.920	1.600	1.430
1494 LT	8	DIP	Single Precision R/R I/O Op Amp	LT1494IN8#PBF	NEW 166-3437●	3.670	2.750	2.200	1.840	1.650
1494 LT	8	MSOP	Op Amp, Prec	LT1494CMS8#PBF	SMD 133-0670●	3.430	1.940	1.570	1.520	1.490
1621 LT	16	SSOP	Dual R-to-R Current Sense Amp	LT1621CGN#PBF	SMD 127-3773●	5.520	3.690	3.100	– –	– –
1635 LT	8	SOIC	Op Amp, µP W/ Ref	LT1635CS8#PBF	SMD 133-0678●	3.660	2.070	1.610	1.570	1.530
1636 LT	8	MSOP	Op Amp, R2R	LT1636CMS8#PBF	SMD 133-0679●	3.310	1.870	1.470	1.430	1.390
1636 LT	8	SOIC	Micropower R/R I/O Op Amp	LT1636CS8#PBF	NEW SMD 166-3456●	2.750	2.130	1.700	1.420	1.270
1636 LT	8	SOIC	Micropower R/R I/O Op Amp	LT1636IS8#PBF	NEW SMD 166-3457●	3.200	2.490	1.990	1.660	1.490
1637 LT	8	SOIC	1.1MHz Micropower R/Rail I/O Op Amp	LT1637CS8#PBF	NEW SMD 166-3459●	2.750	2.130	1.700	1.420	1.270
1637 LT	8	MSOP	Op Amp, R2R	LT1637CMS8#PBF	SMD 133-0680●	3.050	2.400	1.950	1.710	1.520
1675 LT	8	MSOP	Op Amp, High Speed	LT1675CMS8-1#PBF	SMD 133-0686●	4.250	2.400	1.770	1.720	1.680
1677 LT	8	SOIC	Op Amp, Low Noise	LT1677CS8#PBF	SMD 133-0687●	4.250	2.400	1.770	1.720	1.680
1722 LT	8	SOIC	Op Amp, Prec	LT1722CS8#PBF	SMD 133-0692●	1.620	1.270	1.040	0.910	0.820
1782 LT	5	SOT-23	200kHz GBWP Micropower R/Rail I/O Op Amp	LT1782HS5#TRMPBF	NEW SMD 166-3785●	3.080	2.380	1.910	1.590	1.420
1782 LT	5	SOT-23	200kHz GBWP Micropower R/Rail I/O Op Amp	LT1782IS5#TRMPBF	NEW SMD 166-3786●	2.800	2.170	1.740	1.450	1.290
1782 LT	6	SOT-23	200kHz GBWP Micropower R/Rail I/O Op Amp	LT1782IS6#TRMPBF	NEW SMD 166-3787●	3.170	2.450	1.960	1.630	1.460
1783 LT	5	SOT-23	1.25MHz GBWP Micropower R/Rail I/O Op Amp	LT1783HS5#TRMPBF	NEW SMD 166-3788●	3.080	2.380	1.910	1.590	1.420
1783 LT	5	SOT-23	1.25MHz GBWP Micropower R/Rail I/O Op Amp	LT1783IS5#TRMPBF	NEW SMD 166-3789●	2.800	2.170	1.740	1.450	1.290
1793 LT	8	SOIC	Low Noise 10pF Bias Current JFET Input Op Amp	LT1793ACS8#PBF	NEW SMD 166-3509●	6.500	4.880	3.900	3.260	2.920
1800 LT	5	SOT-23	80MHz R/R I/O Precision Op Amp	LT1800CS5#TRMPBF	NEW SMD 166-3796●	2.720	2.110	1.690	1.410	1.260
1800 LT	8	SOIC	Op Amp, Prec	LT1800CS8#PBF	SMD 133-0702●	2.610	1.470	1.120	0.980	0.920
1803 LT	5	SOT-23	Single 85MHz R/R I/O Op Amp	LT1803CS5#TRMPBF	NEW SMD 166-3797●	2.620	2.030	1.620	1.350	1.210
1806 LT	6	SOT-23	Single 325MHz R/R I/O Op Amp	LT1806CS6#TRMPBF	NEW SMD 166-3798●	4.210	3.270	2.610	2.180	1.950
1806 LT	6	SOT-23	Single 325MHz R/R I/O Op Amp	LT1806IS6#TRMPBF	NEW SMD 166-3799●	4.560	3.530	2.830	2.360	2.110
1806 LT	8	SOIC	Op Amp, Low Noise	LT1806CS8#PBF	SMD 133-0709●	4.130	2.340	1.840	1.790	1.740
1809 LT	6	SOT-23	Single 180MHz R/R I/O Op Amp	LT1809IS6#TRMPBF	NEW SMD 166-3801●	4.000	3.090	2.470	2.070	1.850
1809 LT	8	SOIC	Op Amp, R2R	LT1809CS8#PBF	SMD 133-0711●	3.390	2.660	2.170	1.900	1.700
1812 LT	8	SOIC	Op Amp, High Speed	LT1812CS8#PBF	SMD 133-0713●	1.690	1.310	1.080	0.930	0.840
1815 LT	8	SOIC	Op Amp, 220Mhz	LT1815CS8#PBF	SMD 133-0717●	1.660	1.010	0.790	0.700	0.610
1818 LT	8	SOIC	Op Amp, 2500V/µSec	LT1818CS8#PBF	SMD 133-0722●	1.730	1.350	1.100	0.950	0.860
1851 ST	8	SOIC	MicroPower, 1.8V, 120µA/Amp., Rail-to-Rail I/O, Operational Amp.(SOIC)	TS1851ID	SMD 109-4358●	1.140	0.940	0.780	0.670	0.580
1851 ST	5	SOT-23	MicroPower, 1.8V, 120µA, Rail-to-Rail I/O, Operational Amp	TS1851ILT	SMD 109-4359●	1.240	0.950	0.730	0.630	0.590
1880 LT	5	SOT-23	R/R Output pA Input Current Precision Op Amp	LT1880CS5#TRMPBF	NEW SMD 166-3802●	3.530	2.740	2.190	1.830	1.630
1880 LT	5	SOT-23	R/R Output pA Input Current Precision Op Amp	LT1880IS5#TRMPBF	NEW SMD 166-3803●	4.210	3.270	2.610	2.180	1.950
1970 LT	20	TSSOP	500mA Power Op Amp with Adjustable Precision Current Limit	LT1970CFE#PBF	NEW SMD 166-3535●	9.340	7.010	5.610	4.680	4.190
1996 LT	10	MSOP	Precision, 100µA Gain Selectable Amplifier	LT1996ACMS#PBF	SMD 146-2130●	2.300	1.680	1.510	– –	– –
2011 NSC	8	SOIC	Single, High Precision, Rail-to-Rail Output Operational Amplifier	LMP2011MA	SMD 100-8279●	2.620	1.770	1.450	– –	– –
2011 NSC	5	SOT-23	Single, High Precision, Rail-to-Rail Output Operational Amplifier	LMP2011MF	SMD 100-8280●	2.590	1.770	1.450	– –	– –
2011 NSC	8	SOIC	Rail/Rail Output Op Amplifier, 3MHz	LMV2011MA	SMD 128-6953●	1.900	1.250	0.910	0.760	0.710
2011 NSC	10	MSOP	High Precision, Rail-to-Rail Output Operational Amplifier	LMV2011MF	SMD 131-2824●	1.840	1.510	1.380	1.240	1.120
2015 NSC	8	NOIC	Single Rail/Rail High Precision Op-Amp	LMP2015MA	SMD 154-2530●	1.660	1.440	1.310	1.170	1.000
2015 NSC	5	SOT-23	Single Rail/Rail High Precision Op-Amp	LMP2015MF	SMD 154-2531●	1.720	1.540	1.400	1.260	1.070
2020 ADI	8	DIP	90MHz Current Feedback Amp. (Enhanced EL2020)	ADEL2020ANZ	960-5274●	4.540	3.090	2.300	– –	– –
2021 TI	8	SOIC	Precision Low-Power Single SUPPLY Operational Amplifier	TLE2021CDG4	SMD 123-4734●	0.920	0.670	0.530	0.470	0.400
2021 TI	8	PDIP	Precision Low-Power Single SUPPLY Operational Amplifier	TLE2021CPE4	123-4767●	0.920	0.670	0.530	0.470	0.400
2021 TI	8	SOIC	Low Power Operational Amp. Output Current ±20mA. (IND TEMP)	TLE2021ID	SMD 110-2938●	1.120	0.760	0.540	– –	– –
2021 TI	8	DIP	Low Power Operational Amp. Output Current ±20mA. (IND TEMP)	TLE2021IP	110-2939●	1.120	0.760	0.540	– –	– –
2021 TI	8	DIP	Low Power Operational Amp. Output Current ±20mA. (IND TEMP)	TLE2021IP.	305-5036	0.700	0.490	0.420	– –	– –
2027 TI	8	SOIC	Low-Noise Precision Operational Amplifier	TLE2027CDG4	SMD 123-4814●	1.660	1.260	0.960	0.840	0.760
2027 TI	8	SOIC	Low Noise High Speed Precision Operational Amp. (IND TEMP)	TLE2027ID	SMD 110-2944●	1.930	1.440	1.100	– –	– –
2037 TI	8	SOIC	OP Amp	TLE2037CD	SMD 845-4710●	1.060	0.820	0.620	– –	– –
2037 TI	8	SOIC	Low Noise, Precision Operational Amp. Optimised for faster slewrate (-7.5V/µs) and wider bandwidth (50MHz)	TLE2037ID	SMD 110-2945●	2.120	1.440	1.040	– –	– –
2045 INTS	8	SOIC	Low Power 100MHz Gain 2 Stable Op Amp	EL2045CSZ	NEW SMD 156-2026●	3.080	2.320	1.850	1.540	1.330
2126 INTS	8	SOIC	100MHz GBWP Ultra-Low Noise Amplifier	EL2126CSZ	NEW SMD 156-2027●	2.430	1.830	1.460	1.220	1.040
2141 TI	8	SOIC	OP Amp	TLE2141CD	SMD 845-4760●	1.170	0.840	0.600	– –	– –
2141 TI	8	PDIP	Low Noise High-SPEED Precision Single SUPPLY Operational Amplifier	TLE2141CPE4	123-4824●	1.130	0.830	0.640	0.570	0.520
2201 TI	8	SOIC	OP Amp	TLC2201ACD	SMD 845-3780●	3.090	2.270	1.690	– –	– –
2201 TI	8	SOIC	Advanced LINCMOS(Tm) Low-Noise Precision Operational Amplifier	TLC2201AIDG4	SMD 123-4787●	3.300	2.440	1.860	1.660	1.490
2201 TI	8	SOIC	Low Noise Precision RAIL-TO-RAIL OUTPUT Operational Amplifier	TLC2201CDG4	SMD 123-4695●	2.110	1.560	1.200	1.050	1.020
2021 TI	8	SOIC	Excalibur High-Speed Low-Power Precision Operational Amplifier	TLE2021ACD	SMD 145-9856●	1.230	0.840	0.600	0.560	0.520
2021 TI	8	SOIC	Excalibur High-Speed Low-Power Precision Operational Amplifier	TLE2021AID	SMD 145-9858●	1.340	0.910	0.650	0.610	0.560
2021 TI	8	SOIC	Precision Low-Power Single Supply Operational Amplifier	TLE2021MD	SMD 145-9859●	1.010	0.820	0.610	0.570	0.550
2022 TI	8	SOIC	Excalibur High-Speed Low-Power Precision Dual Operational Amplifier	TLE2022AMD	SMD 145-9862●	2.610	1.780	1.320	1.260	1.170
2050 LT	5	SOT-23	Zero-Drift Op Amp	LTC2050CS5#TRMPBF	NEW SMD 166-3874●	2.360	1.830	1.460	1.230	1.090
2050 LT	5	SOT-23	Zero-Drift Op Amp	LTC2050HVCS5#TRMPBF	NEW SMD 166-3875●	2.930	2.270	1.820	1.510	1.350
2050 LT	6	SOT-23	Zero-Drift Op Amp	LTC2050HVCS6#TRMPBF	NEW SMD 166-3876●	3.170	2.450	1.960	1.630	1.460
2054 LT	5	SOT-23	Single Micropower Zero-Drift Op Amp	LTC2054CS5#TRMPBF	NEW SMD 166-3877●	2.030	1.580	1.260	1.040	0.940
2130 TI	8	SOIC	Low Power, Precision FET-Input Operational Amplifiers	OPA2130UA	SMD 145-9554●	4.370	3.050	2.320	2.040	2.000
2134 TI	8	PDIP	SoundPlus(TM) High Performance Audio Op Amp	OPA2134PA	NEW 156-4891●	2.120	1.750	1.550	1.270	1.090
2141 TI	8	SOIC	Excalibur Low-Noise High-Speed Precision Operational Amplifier	TLE2141ACD	SMD 145-9902●	1.460	0.990	0.710	0.660	0.610
2141 TI	8	SOIC	Excalibur Low-Noise High-Speed Precision Operational Amplifier	TLE2141AID	SMD 145-9904●	1.570	1.060	0.760	0.710	0.660
2141 TI	8	SOIC	Low Noise High-Speed Precision Single Supply Operational Amplifier	TLE2141ID	SMD 145-9905●	1.340	0.910	0.650	0.610	0.560
2221 TI	5	SOT-23	Single LinCMOS R/Rail MicroPower Op Amp	TLV2221CDBVT..	NEW SMD 165-9626●	0.850	0.640	0.570	0.450	0.360
2211 TI	5	SOT-23	OP Amp, Rail-Rail	TLV2211CDBVT	SMD 845-4914●	0.550	0.460	0.410	– –	– –
2221 TI	5	SOT-23	Single LINCMOS(TM) RAIL-TO-RAIL UPower Operational Amplifier	TLV2221IDBVTG4	SMD 123-4939●	0.620	0.470	0.390	0.380	0.370
2231 TI	5	SOT-23	Single LINCMOS(TM) RAIL-TO-RAIL UPower Operational Amplifier	TLV2231CDBVR	SMD 128-7665●	0.850	0.750	0.650	0.550	0.450
2237 TI	8	VSSOP	Single-SUPPLY Operational AmplifierS MICROAmplifier(TM) SERIES	OPA2237EA/250G4	SMD 123-4895●	1.940	1.470	1.160	0.980	0.860

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	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
2241	TI	5	SOT-23	Op Amp, Rail-Rail I/O	TLV2241IDBVT	SMD 845-4930	1.200	1.020	0.730	– –	– –
2241	TI	8	SOIC	Single Micropower, 2.5-V, RRIO, Single Supply Amplifier	TLV2241ID	SMD 145-9921	1.000	0.810	0.600	0.560	0.550
2250	INTS	8	SOIC	125MHz Single Supply Dual Op Amps	EL2250CSZ	NEW SMD 156-2006	3.350	2.510	2.010	1.670	1.440
2336	TI	8	PDIP	Single-Supply, MicroPower CMOS Operational Amplifiers MicroAmplifier Series	OPA2336P	145-9567	3.310	2.250	1.680	1.590	1.490
2343	TI	8	SOIC	5.5MHz GBWP Single Supply R/R I/O Op Amp	OPA2343UA	NEW SMD 156-4890	1.740	1.440	1.270	1.060	0.890
2361	TI	5	SOT-23	Single High-Performance, Low-Voltage Operational Amplifier	TLV2361IDBVTE4	SMD 123-6562	0.640	0.530	0.450	0.380	0.340
2370	TI	8	SOIC	OP Amp, Rail-Rail I/O	TLV2370ID	SMD 845-4981	0.670	0.550	0.490	– –	– –
2370	TI	6	SOT-23	OP Amp, Rail-Rail I/O	TLV2370IDBVT	SMD 845-4973	0.670	0.550	0.480	– –	– –
2371	TI	8	SOIC	OP Amp, Rail-Rail I/O	TLV2371ID	SMD 845-5007	0.440	0.360	0.330	– –	– –
2371	TI	5	SOT-23	OP Amp, Rail-Rail I/O	TLV2371IDBVT	SMD 845-4990	0.630	0.520	0.470	– –	– –
2380	TI	8	MSOP	Transimpedance Amplifier	OPA2380AIDGKTG4	SMD 118-0148	4.010	3.360	2.880	2.540	2.270
2381	TI	8	SOIC	10-uA/Channel, 160kHz, RRIO Op Amp	TLV2381ID	SMD 145-9944	0.930	0.750	0.550	0.530	0.510
2381	TI	5	SOT-23	OP Amp, Rail-Rail I/O	TLV2381IDBVT	SMD 845-5074	1.150	0.940	0.680	– –	– –
2401	TI	8	SOIC	Single MicroPower, RRIO Operational Amplifier with wide supply voltage range and high CMRR	TLV2401CD	SMD 145-9945	1.000	0.810	0.600	0.560	0.550
2401	TI	5	SOT-23	OP Amp, Rail-Rail I/O	TLV2401IDBVT	SMD 845-5090	1.450	1.080	0.770	– –	– –
2460	TI	8	SOIC	Single, Low Power, Rail-to-Rail Input/Output Operational Amplifier w/Shutdown	TLV2460CD	SMD 145-9975	1.380	0.940	0.680	0.630	0.580
2460	TI	8	SOIC	Single, Low Power, Rail-to-Rail Input/Output Operational Amplifier w/Shutdown	TLV2460ID	SMD 145-9977	1.000	0.810	0.600	0.560	0.550
2461	TI	8	SOIC	Single, Low Power, Rail-to-Rail Input/Output Operational Amplifier	TLV2461ID	SMD 145-9981	0.930	0.750	0.550	0.530	0.510
2461	TI	5	SOT-23	OP Amp, Rail-Rail I/O	TLV2461CDBVT	SMD 845-5147	0.630	0.530	0.470	– –	– –
2471	TI	8	SOIC	Single Low-Power Rail-to-Rail Input/Output Op Amp	TLV2471CD	SMD 145-9996	1.270	0.870	0.620	0.580	0.530
2652	TI	8	SOIC	OP Amp, CHOPPER	TLC2652AC-8D	SMD 845-4124	4.390	2.990	2.230	– –	– –
2652	TI	8	PDIP	OP Amp, CHOPPER	TLC2652ACP	845-4132	4.390	2.990	2.230	– –	– –
2652	TI	8	SOIC	Precision Chopper-Stabilized CMOS Operational Amp.	TLC2652C-8DG4	SMD 123-4959	4.040	3.020	2.300	2.030	1.820
2731	TI	5	SOT-23	OP Amp, Rail-Rail Low Power	TLV2731CDBVT	SMD 845-5295	0.530	0.450	0.400	– –	– –
2731	TI	5	SOT-23	OP Amp, Rail-Rail Low Power	TLV2731IDBVT	SMD 845-5309	0.400	0.340	0.310	– –	– –
2760	TI	6	SOT-23	OP Amp, Rail-Rail, 1.8V, 20uA Single w/Shutdown	TLV2760IDBVT	SMD 845-5333	1.380	1.080	0.770	– –	– –
2770	TI	8	SOIC	Single 2.7-V High-Slew-Rate Rail-to-Rail Output Operational Amplifier w/Shutdown	TLV2770AID	SMD 146-0027	1.220	0.980	0.750	0.680	0.660
2771	TI	8	SOIC	Single 2.7-V High Slew Rate Rail-to-Rail Output Operational Amplifier	TLV2771ID	SMD 146-0030	1.300	1.020	0.730	0.680	0.630
3001	TI	8	HTSSOP	420-MHZ Current-FEEDBACK Amplifier	THS3001IDGNG4	SMD 123-4978	6.430	4.790	3.650	3.230	2.910
3003	CIR	8	SOIC	Precision Low-voltage Amplifier with high offset stability, open loop gain, CMRR and PSRR. Low noise.	CS3003-FSZ	SMD 150-6319	1.440	1.050	0.820	– –	– –
3013	CIR	8	SOIC	Precision Low-voltage Amplifier with high offset stability, open loop gain, CMRR and PSRR. Low noise.	CS3013-FSZ	SMD 150-6321	1.440	1.050	0.820	– –	– –
3091	TI	8	SOIC	OP Amp, Current Feedback	THS3091D	SMD 845-2997	4.910	3.350	2.490	– –	– –
3091	TI	8	HSOP	OP Amp, Current Feedback	THS3091DDA	SMD 121-2366	4.730	3.220	2.600	– –	– –
3091	TI	8	HSOP	OP Amp, Current Feedback	THS3091DDA.	SMD 845-3004	2.570	2.450	2.390	– –	– –
3120	TI	8	SOIC	LINE Driver, Dual	THS3120ID	SMD 845-3047	3.520	2.400	1.790	– –	– –
3121	TI	8	SOIC	LINE Driver	THS3121ID	SMD 845-3055	4.290	2.920	2.180	– –	– –
3130	FCH	5	SOT-23	Single High-Speed R/R Amplifier Operating from Single/Dual PSU	FHP3130IS5X	NEW SMD 156-4495	0.620	0.520	0.470	0.370	0.320
3130	INTS	8	SOIC	15MHz BiMOS Op Amp with MOSFET Input/CMOS Output	CA3130AMZ	NEW SMD 156-2025	1.910	1.440	1.150	0.960	0.850
3131	FCH	6	SOT-23	0.4mA, 2.5V to 12V, 70MHz Rail to Rail Amplifier	FHP3131IS6X	SMD 149-5443	0.590	0.420	0.390	0.290	0.260
3132	FCH	5	SOT-23	Single, High Speed, Rail to Rail Amplifier	FHP3132IS5X	SMD 149-5444	0.580	0.430	0.380	0.340	0.310
3201	TI	5	SOT-23	1.8GHz Current Feedback Amplifier	THS3201DBVT..	NEW SMD 164-8717	3.580	2.870	2.390	2.160	2.100
3201	TI	8	SOIC	OP Amp, Current Feedback 1.8GHZ	THS3201D	SMD 845-3063	4.210	2.870	2.130	– –	– –
3201	TI	8	HTSSOP	OP Amp, Current Feedback 1.8GHZ	THS3201DGN	SMD 845-3071	4.210	2.870	2.130	– –	– –
3260	INTS	8	PDIP	4MHz Unity Gain Crossover BiMOS Op Amp with MOSFET I/P CMOS O/P.	CA3260AEZ	NEW 156-2059	3.060	2.310	1.840	1.530	1.310
3401	TI	5	SOT-23	OP Amp, Rail-Rail	TLV3401IDBVT	SMD 845-5481	0.980	0.820	0.700	– –	– –
3420	INTS	8	PDIP	0.5MHz Low Input Current R/R BiMOS Op Amp	CA3420EZ	NEW 156-2035	2.270	1.710	1.380	1.140	0.970
3472	TI	8	SOIC	High-Slew-Rate, Single-Supply Operational Amplifier	TL3472CD	SMD 959-3527	0.340	0.300	0.230	– –	– –
3472	TI	8	SOIC	High-Slew-Rate, Single-Supply Operational Amplifier	TL3472CDE4	SMD 128-7654	0.290	0.250	0.191	0.155	0.138
3701	TI	5	SOT-23	OP Amp, Rail-Rail	TLV3701CDBVT	SMD 845-5538	1.310	0.990	0.710	– –	– –
3701	TI	5	SOT-23	OP Amp, Rail-Rail	TLV3701IDBVT	SMD 845-5546	1.160	0.930	0.760	– –	– –
3701	TI	8	PDIP	OP Amp, Rail-Rail	TLV3701IP	SMD 845-5554	1.400	0.990	0.710	– –	– –
4001	TI	8	SOIC	270MHz, Voltage Feedback Operational Amp., 100mA Output drive. (0 to +70°C Temp. Range)	THS4001CD	SMD 121-4369	4.010	2.730	2.030	– –	– –
4001	TI	8	SOIC	270MHz, Voltage Feedback Operational Amp., 100mA Output drive,(-40 to +85°C Temp. Range)	THS4001ID	SMD 110-2960	4.140	2.870	2.130	– –	– –
4011	TI	8	SOIC	OP Amp, 290-MHZ	THS4011CD	SMD 845-3110	2.900	1.980	1.470	– –	– –
4021	TI	8	SOIC	OP Amp, 350-MHZ	THS4021ID	SMD 845-3152	4.810	3.280	2.650	– –	– –
4031	TI	8	SOIC	OP Amp, 100-MHZ	THS4031CD	SMD 845-3179	3.310	2.250	1.680	– –	– –
4031	TI	8	SOIC	OP Amp, 100-MHZ	THS4031ID	SMD 845-3187	3.510	2.390	1.780	– –	– –
4031	TI	8	HTSSOP	OP Amp, 100-MHZ	THS4031IDGN	SMD 845-3195	3.920	2.660	1.980	– –	– –
4081	TI	8	SOIC	175MHz Low Power, High Speed Op. Amp. (-40 to +85°C Temp. Range)	THS4081ID	SMD 121-4365	2.610	1.780	1.320	– –	– –
4107	MAX	8	SOIC	350MHz, High Speed Ultra-Low Noise Operational Amplifier	MAX4107ESA+	SMD 118-7972	2.990	2.460	1.850	– –	– –
4126	MAX	8	SO	Single Supply Dual Op Amp	MAX4126ESA+	SMD 142-2317	2.920	2.050	1.590	1.440	1.310
4165	MAX	5	SOT-23	Low Power, Single Supply, Rail-to-Rail Input/output Operational Amp. With High output Current drive and shutdown.	MAX4165EUK+	SMD 972-3994	1.790	1.260	0.960	– –	– –
4172	MAX	8	SOIC	Current-Sense Op Amp	MAX4172ESA+	SMD 972-4117	3.420	2.200	1.890	– –	– –
4174	FCH	5	SC70	Single R/R I/O CMOS Amplifier.	FAN4174IP5X	NEW SMD 156-4480	0.198	0.153	0.121	0.098	0.088
4177	ADI	14	SOIC	Precision Low Noise Low Input Bias Current Operational Amplifier	OP4177ARZ	SMD 138-9170	7.100	4.870	3.930	– –	– –
4211	TI	8	SOIC	OP Amp	THS4211D	SMD 845-3306	3.710	2.600	1.930	– –	– –
4212	MAX	5	SOT-23	300MHz, Single Supply, Rail-to-Rail Operational Amp	MAX4212EUK+	SMD 972-4028	3.260	2.290	1.750	– –	– –
4221	TI	8	SOIC	OP Amp, Rail-Rail	THS4221D	SMD 845-3314	2.120	1.440	1.040	– –	– –
4236	MAX	8	SOIC	1.7MHz GBWP R/R O/P Op Amp	MAX4236BESA+	NEW SMD 160-9595	0.890	0.790	0.670	0.600	0.540
4236	MAX	6	SOT-23	1.7MHz GBWP R/R O/P Op Amp	MAX4236EUT+T	NEW SMD 160-9596	1.100	0.980	0.840	0.750	0.660
4237	MAX	6	SOT-23	7.5MHz GBWP R/R O/P Op Amp	MAX4237EUT+T	NEW SMD 160-9597	1.100	0.980	0.840	0.750	0.660
4250	NSC	8	DIP	Programmable Operational Amp.	LM4250CN	948-6798	1.040	0.860	0.680	0.550	0.540
4250	MAX	5	SOT-23	Low Noise, Low Distortion, Single Supply, Rail-to-Rail Operational Amp.	MAX4250EUK+	SMD 972-4001	2.070	1.460	1.110	– –	– –
4271	TI	8	SOIC	Low Noise, High Slew rate unity Gain stable Voltage feedback Amp	THS4271D	SMD 110-3109	4.510	3.070	2.290	– –	– –
4275	TI	8	SOIC	OP Amp	THS4275D	SMD 845-3349	4.620	3.140	2.340	– –	– –
4281	TI	8	SOIC	OP Amp, Rail-Rail	THS4281D	SMD 845-3357	1.930	1.370	0.980	– –	– –
4289	MAX	6	SOT-23	17kHz GBWP R/R O/P Op Amp	MAX4289EUT+T	NEW SMD 160-9589	0.870	0.780	0.670	0.580	0.530
4302	TI	16	QFN	2.4GHz GBWP Wideband Fixed-Gain of 5 Amplifier	THS4302RGTR	NEW SMD 156-4878	4.650	3.840	3.410	2.780	2.370
4470	MAX	5	SOT-23	9kHz GBWP R/R O/P Op Amp	MAX4470EUK+T	NEW SMD 160-9585	0.690	0.620	0.560	0.520	0.440
4501	TI	8	SOIC	Advanced LinEPIC Self-Calibrating (Self-Cal) Precision Operational Amplifier	TLC4501ACD	SMD 145-9848	2.570	1.750	1.300	1.240	1.150
4501	TI	8	SOIC	Advanced LinEPIC Self-Calibrating (Self-Cal) Precision Single Operational Amplifier	TLC4501CD	SMD 145-9850	2.480	1.690	1.260	1.200	1.120
4851	ADI	6	SOT-23	High Speed, Rail-to-Rail Op Amp	ADA4851-1YRJZ	SMD 907-9343	1.020	0.820	0.630	– –	– –
4851	ADI	6	SOT-23	Single, High Speed, Rail-to-Rail Output Op Amp	ADA4851-1YRJZ-R2	SMD 107-8231	0.960	0.730	0.550	– –	– –
4899	ADI	8	SOIC	Unity Gain Stable, UltraLow Distortion, High Speed Op Amp	ADA4899-1YRDZ	SMD 127-4191	4.330	3.070	2.290	2.170	2.030
5166	INTS	8	SOIC	1.4GHz Current Feedback Amplifiers with Current Enable/Disable	EL5166ISZ	NEW SMD 156-2028	2.350	1.760	1.420	1.180	1.010
5210	INTS	8	SOIC	Dual 30MHz R/R Input-Output Op Amp	EL5210CSZ	NEW SMD 156-2040	3.050	2.270	1.830	1.520	1.300
5220	INTS	8	MSOP	Dual 12MHz R/R Input-Output Op Amps	EL5220CYZ	NEW SMD 156-2007	2.430	1.830	1.460	1.220	1.040
5514	LT	20	TSSOP	Digitally Programmable Gain Amplifier	LT5514EFE#PBF	SMD 127-3464	9.800	5.960	4.690	– –	– –
5524	LT	20	TSSOP	Low Power Digitally Programmable Gain Amplifier	LT5524EFE#PBF	SMD 127-3469	7.910	5.270	4.400	– –	– –
5534	TI	8	SOIC	Low-Noise Operational Amplifier	NE5534AD	SMD 958-9864	0.830	0.670	0.570	– –	– –
5534	TI	8	DIP	Low Noise Op Amp	NE5534AP	110-6093	1.010	0.720	0.550	– –	– –
5534	TI	8	SOIC	Low-Noise High-Speed Audio Operational Amplifier	NE5534D	SMD 958-9872	0.630	0.550	0.450	– –	– –
5534	TI	8	DIP	Op Amp, Audio	NE5534P	110-6094	0.850	0.610	0.470	– –	– –

RL Re-reeling available

Operational Amplifiers - continued

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
6000	LT	6	DFN	Single 1.8V, 13µA Precision Rail-to-Rail Op Amp	LT6000IDCB#PBF	SMD-143-2092	1.680	0.990	0.810	– –	– –
6003	LT	5	TSOT-23	1.6V, 1µA Precision Rail-to-Rail Input and Output Op Amp	LT6003IS5#PBF	SMD-143-2097	1.370	0.810	0.650	– –	– –
6004	LT	8	MSOP	1.6V, 1µA Precision Rail-to-Rail Input and Output Op Amp	LT6004IMS8#PBF	SMD-143-2098	2.240	1.360	1.080	– –	– –
6005	LT	16	TSSOP	1.6V, 1µA Precision Rail-to-Rail Input and Output Op Amp	LT6005IGN#PBF	SMD-143-2099	3.450	2.040	1.630	– –	– –
6010	LT	8	SOIC	Rail-to-Rail Output Precision Op Amp with Shutdown	LT6010ACS8#PBF	SMD-133-0738	2.950	2.300	1.880	1.650	1.460
6010	LT	8	SOIC	Rail-to-Rail Output Precision Op Amp with Shutdown	LT6010CS8#PBF	SMD-133-0739	1.990	1.560	1.270	1.110	0.990
6013	LT	8	SOIC	Rail-to-Rail Output Precision Op Amp	LT6013ACS8#PBF	SMD-133-0745	2.950	2.300	1.880	1.650	1.460
6013	LT	8	SOIC	Rail-to-Rail Output Precision Op Amp	LT6013CS8#PBF	SMD-133-0746	1.990	1.560	1.270	1.110	0.990
6021	MCHIP	5	SOT-23	10MHz GBWP R/R I/O Single Op Amp	MCP6021T-E/OT	NEW SMD-160-5573	0.960	0.730	0.570	– –	– –
6021	MCHIP	8	SOIC	10 MHz CMOS Single Op Amp R/R	MCP6021-I/SN	NEW SMD-155-7413	1.080	0.820	0.640	– –	– –
6023	MCHIP	8	SOIC	Single R/R I/O 10kHz GBWP Op Amp	MCP6023-I/SN.	NEW 162-9353	1.040	0.780	0.620	– –	– –
6031	MCHIP	8	SOIC	0.9 uA, High Precision Op Amp	MCP6031-E/SN	SMD-143-6021	0.590	0.390	0.290	– –	– –
6043	MCHIP	8	PDIP	600nA, Rail-to-Rail Input/Output Op Amp with Chip Select	MCP6043-I/P	143-9416	0.550	0.320	0.280	– –	– –
6043	MCHIP	8	SOIC	600nA, Rail-to-Rail Input/Output Op Amp with Chip Select	MCP6043-I/SN	SMD-143-9417	0.550	0.320	0.280	– –	– –
6081	NSC	8	MDIP	Single 1.3MHz GBWP CMOS Op Amp	LMC6081IN/NOPB	NEW 156-4618	2.240	1.830	1.510	1.280	1.180
6141	MCHIP	8	PDIP	600nA, Non-Unity Gain Rail-to-Rail Input/Output Op Amp	MCP6141-I/P	143-9419	0.460	0.320	0.250	– –	– –
6141	MCHIP	8	SOIC	600nA, Non-Unity Gain Rail-to-Rail Input/Output Op Amp	MCP6141-I/SN	SMD-143-9421	0.460	0.320	0.250	– –	– –
6143	MCHIP	8	PDIP	600nA, Non-Unity Gain Rail-to-Rail Input/Output Op Amp with Chip Select	MCP6143-I/P	143-9425	0.460	0.330	0.250	– –	– –
6143	MCHIP	8	SOIC	600nA, Non-Unity Gain Rail-to-Rail Input/Output Op Amp with Chip Select	MCP6143-I/SN	SMD-143-9426	0.460	0.330	0.250	– –	– –
6171	NSC	8	MDIP	160MHz Low Distortion Voltage Feedback Amplifier	LM6171BIN/NOPB	NEW 156-4664	2.320	1.890	1.550	1.310	1.220
6171	NSC	8	SOIC	High Speed Unity Gain Voltage Feedback Amplifier	LM6171AIM/NOPB	NEW SMD-168-5343	2.740	2.130	1.750	1.600	1.430
6171	NSC	8	SOIC	High Speed, Low Power Voltage Feedback Operational Amp	LM6171BIM	SMD-949-3620	2.400	1.430	1.140	0.980	0.870
6171	NSC	8	DIP	High Speed, Low Power Voltage Feedback Operational Amp	LM6171BIN	949-3611	2.480	2.040	1.870	1.820	1.660
6181	NSC	8	MDIP	100 mA 100 MHz Current Feedback Amplifier	LM6181IN/NOPB	NEW 156-4703	2.180	1.780	1.450	1.260	1.150
6181	NSC	8	DIP	100MHz Current Feedback Amp	LM6181IN	948-5953	2.320	1.900	1.750	1.710	1.590
6200	LT	6	SOT-23	165MHz R/R I/O Low Noise Op Amp	LT6200CS6#TRMPBF	NEW SMD-166-3843	4.210	3.270	2.610	2.180	1.950
6200	LT	8	SOIC	Low Noise, 165MHz Op Amp	LT6200CS8#PBF	SMD-133-0751	4.130	2.340	1.850	1.620	1.520
6200	LT	8	SOIC	Low Noise Op Amp	LT6200CS8-10#PBF	SMD-133-0752	2.900	1.640	1.270	1.110	1.060
6200	LT	8	SOIC	Low Noise Op Amp	LT6200CS8-5#PBF	SMD-133-0753	2.780	2.180	1.770	1.560	1.400
6202	LT	8	SOIC	Low Noise Op Amp	LT6202CS8#PBF	SMD-133-0754	2.710	1.540	1.310	1.140	1.080
6211	MICR	5	SOT-23	IttyBitty™ Operational Amplifier	MIC6211YM5 TR	SMD-110-0680	0.720	0.460	0.330	0.240	0.230
6220	LT	8	SOIC	Single 60MHz Low Power R/R I/O Precision Op Amp	LT6220CS8#PBF	NEW SMD-166-3588	2.180	1.690	1.350	1.120	1.010
6220	LT	5	SOT-23	Single 60MHz Low Power R/R I/O Precision Op Amp	LT6220CS5#TRMPBF	NEW SMD-166-3844	2.380	1.840	1.480	1.230	1.100
6230	LT	6	SOT-23	Single 215MHz R/R I/O Op Amp	LT6230CS6#TRMPBF	NEW SMD-166-3845	2.490	1.930	1.540	1.280	1.150
6230	LT	6	SOT-23	Single 215MHz R/R I/O Op Amp	LT6230CS6-10#TRMPBF	NEW SMD-166-3846	2.950	2.280	1.830	1.520	1.360
6231	MCHIP	8	PDIP	20uA, 300kHZ Rail-to-Rail Op Amp	MCP6231-E/P	143-9438	0.250	0.168	0.137	– –	– –
6231	MCHIP	8	SOIC	20uA, 300kHZ Rail-to-Rail Op Amp	MCP6231-E/SN	SMD-143-9439	0.250	0.166	0.137	– –	– –
6233	LT	6	SOT-23	Single 60MHz R/R O/P Op Amp	LT6233CS6#TRMPBF	NEW SMD-166-3848	2.840	2.200	1.760	1.460	1.320
6240	LT	8	SOIC	Single 18MHz, Low Noise, Rail-to-Rail, CMOS Op Amp	LTC6240CS8#PBF	SMD-143-2090	1.570	0.970	0.770	– –	– –
6240	LT	8	SOIC	Single 18MHz, Low Noise, Rail-to-Rail, CMOS Op Amp	LTC6240HVCS8#PBF	SMD-143-2091	2.900	1.760	1.390	– –	– –
6271	MCHIP	8	PDIP	170uA, 2MHZ Rail-to-Rail Op Amp	MCP6271-E/P	143-9449	0.490	0.280	0.240	– –	– –
6271	MCHIP	8	SOIC	170uA, 2MHZ Rail-to-Rail Op Amp	MCP6271-E/SN	SMD-143-9450	0.410	0.280	0.220	– –	– –
6281	MCHIP	8	PDIP	450uA, 5MHZ Rail-to-Rail Op Amp	MCP6281-E/P	143-9456	0.480	0.340	0.270	– –	– –
6281	MCHIP	8	SOIC	450uA, 5MHZ Rail-to-Rail Op Amp	MCP6281-E/SN	SMD-143-9457	0.480	0.340	0.270	– –	– –
6283	MCHIP	8	SOIC	Single R/R I/O 5MHz GBWP Op Amp	MCP6283-E/SN	NEW 162-9356	0.660	0.500	0.390	– –	– –
6291	MCHIP	5	SOT-23	Single Op Amp 10MHz GBWP R/R I/O	MCP6291RT-E/OT	NEW SMD-155-7417	0.630	0.480	0.370	– –	– –
6291	MCHIP	8	PDIP	1mA, 10MHZ Rail-to-Rail Op Amp	MCP6291-E/P	143-9462	0.610	0.370	0.320	– –	– –
6291	MCHIP	8	SOIC	1mA, 10MHZ Rail-to-Rail Op Amp	MCP6291-E/SN	SMD-143-9463	0.520	0.370	0.280	– –	– –
6291	MCHIP	5	SOT-23	1mA, 10MHZ Rail-to-Rail Op Amp	MCP6291T-E/OT	SMD-143-9464	0.510	0.360	0.290	– –	– –
6293	MCHIP	8	PDIP	1mA, 10MHZ Rail-to-Rail Op Amp with Chip Select	MCP6293-E/P	143-9469	0.570	0.400	0.320	– –	– –
6293	MCHIP	8	SOIC	1mA, 10MHZ Rail-to-Rail Op Amp with Chip Select	MCP6293-E/SN	SMD-143-9470	0.570	0.400	0.320	– –	– –
6502	NSC	14	SOIC	Wideband, Low Power, Linear-in-dB Variable Gain Amp	LMH6502MA	SMD-818-1047	7.020	5.870	4.780	– –	– –
6503	NSC	14	SOIC	Wideband, Low Power, Linear Variable Gain Amp	LMH6503MA	SMD-818-1063	5.300	4.510	3.610	– –	– –
6503	NSC	14	TSSOP	Wideband, Low Power, Linear Variable Gain Amp	LMH6503MT	SMD-818-1071	7.020	5.870	4.780	– –	– –
6504	NSC	8	SOIC	Wideband, Low Power, Variable Gain Amplifier	LMH6504MA	SMD-818-0717	4.100	2.970	2.280	– –	– –
6514	NSC	16	LLP	Variable Gain Amplifier	LMH6514SQE	NEW SMD-155-2443	8.420	7.360	5.890	4.910	4.190
6550	NSC	8	SOIC	Differential, High Speed Op Amp	LMH6550MA	SMD-100-8272	4.410	3.120	2.550	– –	– –
6550	NSC	8	SOIC	Differential, High Speed Op Amp	LMH6550MM	SMD-100-8036	2.900	2.310	1.770	– –	– –
6551	NSC	8	SOIC	Differential, High Speed Op Amp	LMH6551MA	SMD-100-8273	3.830	2.690	2.200	– –	– –
6551	NSC	8	MSOP	Differential, High Speed Op Amp	LMH6551MM	SMD-100-8037	3.200	1.980	1.450	– –	– –
6552	NSC	8	SOIC	Amplifier, differential, 1GHZ	LMH6552MA	SMD-135-9427	6.390	5.290	4.210	3.790	3.450
6609	NSC	5	SOT-23	900MHz Voltage Feedback Op Amp	LMH6609MF/NOPB	NEW SMD-168-5370	2.220	1.730	1.420	1.290	1.170
6609	NSC	8	SOIC	Voltage Feedback Op Amp	LMH6609MA	SMD-818-0733	1.680	1.400	1.190	– –	– –
6611	NSC	6	TSOT	PowerWise Single Supply 345 MHz Rail/Rail Output Amplifier	LMH6611MKE	SMD-154-2536	2.090	1.750	1.580	1.440	1.210
6624	NSC	8	SOIC	Single/Ultra Low Noise Wideband Op Amp	LMH6624MA	SMD-818-0750	3.390	2.820	2.300	– –	– –
6639	NSC	8	SOIC	With Disable,190MHZ	LMH6639MA	SMD-128-6940	1.580	1.050	0.760	0.630	0.590
6639	NSC	8	Mini SOIC	190MHz Rail-to-Rail Output Amplifier with Disable	LMH6639MF	SMD-131-2810	1.740	1.180	0.970	0.910	0.850
6640	NSC	5	SOT-23	TFT-LCD Single R/R O/P Op Amp	LMH6640MF/NOPB	NEW SMD-168-5371	2.450	1.910	1.550	1.430	1.280
6642	NSC	8	SOIC	Low Power, 130MHz Rail-to-Rail output Operational Amp, 3V	LMH6642MA	SMD-949-0167	1.090	0.800	0.630	– –	– –
6642	NSC	8	Mini SOIC	Low Power, 130MHz, 75mA Rail-to-Rail Output Amplifiers	LMH6642MF	SMD-131-2811	1.510	1.140	0.940	0.750	0.660
6645	NSC	5	SOT-23	2.7V, 650µA, 80MHz, Rail-to-Rail Input and Output Amplifiers with Shutdown Option	LMH6645MF	SMD-131-2813	1.620	1.230	1.000	0.790	0.710
6645	NSC	8	SOIC	Rail/Rail Input & Output Amplifier, 2.7V,0.65mA, 80MHz	LMH6645MA.	SMD-128-6944	1.180	0.920	0.690	0.570	0.530
6647	NSC	8	SOIC	Rail/Rail Input & Output Amplifier, With SD, 0.65mA, 80MHz	LMH6647MA.	SMD-128-6946	1.120	0.950	0.710	0.640	0.620
6647	NSC	8	Mini SOIC	2.7V, 650µA, 55MHz, Rail-to-Rail Input and Output Amplifiers with Shutdown Option	LMH6647MF	SMD-131-2815	1.940	1.470	1.190	0.940	0.850
6654	NSC	8	Mini SOIC	Single Low Power, 250 MHz, Low Noise Amplifiers	LMH6654MF	SMD-131-2816	1.860	1.410	1.140	0.900	0.820
6654	NSC	8	SOIC	Low Noise Amplifier, 250MHz	LMH6654MA.	SMD-128-6947	1.660	1.360	1.080	0.910	0.850
6657	NSC	5	SOT-23	270MHz Single Supply, Single Amplifiers	LMH6657MF	SMD-818-0784	1.120	0.960	0.770	– –	– –
6657	NSC	5	SC-70	270MHz Single Supply, Single Amplifiers	LMH6657MG	SMD-818-0792	1.490	1.270	1.010	– –	– –
6702	NSC	5	SOT-23	1.7GHz Ultra Low Distortion Op Amp	LMH6702MF/NOPB	NEW SMD-156-4741	2.920	2.360	1.950	1.660	1.530
6702	NSC	8	SOIC	Ultra Low Distortion, Wideband Op Amp	LMH6702MA	SMD-439-8490▲	1.740	1.490	1.180	– –	– –
6703	NSC	6	SOT-23	1.2 GHz, Low Distortion Op Amp with Shutdown	LMH6703MF	SMD-131-2605	2.310	1.920	1.570	1.390	1.200
6720	NSC	8	SOIC	Single, Wideband Video Op Amp With Shutdown	LMH6720MA	SMD-818-0873	1.840	1.480	1.180	– –	– –
6720	NSC	6	SOT-23	Single, Wideband Video Op Amp With Shutdown	LMH6720MF	SMD-818-0881	2.620	1.770	1.450	– –	– –
6723	NSC	5	SOT-23	370MHz Singel, 1mA Current Feedback Op Amp	LMH6723MF	SMD-818-0911	2.420	1.680	1.330	– –	– –
6730	NSC	8	SOIC	1.2 GHz, Low Distortion Op Amp With Shutdown	LMH6703MA	SMD-100-8276	3.590	2.520	2.060	– –	– –
7111	NSC	5	SOT-23	Tiny CMOS, Rail-to-Rail Input and Output Operational Amp	LMC7111BIM5X	SMD-977-9701 RL	0.860	0.640	0.530	0.430	0.390
7121	NSC	8	SOIC	200MHz, High Speed, Low Power Voltage Feedback Amp	LM7121IM	SMD-949-4120	2.130	1.750	1.610	1.560	1.460
7121	NSC	5	SOT-23	Tiny High Speed, Low Power, Voltage Feedback Operational Amp.(IND TEMP)	LM7121IM5	SMD-977-9892	1.980	1.400	1.130	– –	– –
7171	NSC	8	MDIP	125MHz Voltage Feedback Amplifier	LM7171BIN/NOPB	NEW 156-4665	2.070	1.690	1.390	1.190	1.090
7171	NSC	8	SOIC	High Speed, High Output Current, Voltage feedback Amplifier	LM7171AIM.	SMD-128-6927	1.940	1.580	1.420	1.250	1.180
7171	NSC	8	DIP	High Speed, High Output Current Voltage Feedback Amplifier	LM7171BIN	949-3727	2.210	1.810	1.660	1.620	1.510
7301	NSC	8	SOIC	Low Power, 4MHz GBW, Rail-to-Rail Input and Output Operational Amp	LM7301IM	SMD-949-4170	1.780	1.210	0.990	0.920	0.860
7301	NSC	5	SOT-23	Low Power Op Amp	LM7301IM5	SMD-977-9906 RL	1.720	1.320	1.080	– –	– –
7321	NSC	8	SOIC	Single R/R I/O Output Current and Unlimited Capacitive Load Op Amp	LM7321MA	NEW SMD-166-3012	1.890	1.470	1.200	1.100	0.940
7321	NSC	5	SOT-23	Single R/R I/O Output Current and Unlimited Capacitive Load Op Amp	LM7321MF	NEW SMD-166-3013	1.890	1.470	1.200	1.100	0.940
7321	NSC	5	SOT-23	Single R/R I/O Output Current and Unlimited Capacitive Load Op Amp	LM7321MFE	NEW SMD-166-3014	1.890	1.470	1.200	1.100	0.940
7341	NSC	5	SOT-23	Single 4.6MHZ GBWP Op Amp	LM7341MF	NEW SMD-166-3016	1.930	1.580	1.300	1.190	0.990
7341	NSC	5	SOT-23	Single 4.6MHZ GBWP Op Amp	LM7341MFE	NEW SMD-166-3017	1.930	1.580	1.300	1.190	0.990
7650	INTS	8	PDIP	2MHz GBWP, CMOS Super Chopper-Stabilized Op Amp 2.5V/microsec Slew Rate	ICL7650SCPA-1Z	NEW 156-1938	1.760	1.360	1.120	0.950	0.880

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	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
7652	TI	8	PDIP	Precision Chopper-Stabilized Operational Amplifier	ICL7652P	145-9489	3.860	2.700	2.050	1.800	1.760
7701	NSC	5	SOT-23	Precision, CMOS Input, RRIO, Wide Supply Range Amplifiers	LMP7701MF	SMD 131-2606	2.390	1.830	1.480	1.160	1.060
7707	NSC	8	SOIC	Single Precision CMOS Input R/R I/O Decompensated Amplifier	LMP7707MA	NEW SMD 166-3000	2.710	1.990	1.630	1.480	1.360
7711	NSC	6	TSOT-23	Single and Dual Precision, 17 MHz, Low Noise, CMOS Input Amplifiers	LMP7711MK	SMD 131-2608	1.940	1.450	1.160	1.020	0.940
7715	NSC	8	Mini SOIC	Single Precision, 17 MHz, Low Noise, CMOS Input Amplifier	LMP7715MF	SMD 131-2821	1.750	1.340	1.090	0.940	0.890
7717	NSC	8	SOIC	88 MHz, Precision, Low Noise, 1.8V CMOS Input, Decompensated Op Amp	LMP7717MA	SMD 134-2336	1.240	1.030	0.900	0.790	0.770
7717	NSC	5	SOT-23	88 MHz, Precision, Low Noise, 1.8V CMOS Input, Decompensated Op Amp	LMP7717MF	SMD 134-2337	1.240	1.030	0.900	0.840	0.810
7731	NSC	8	SOIC	Single Low Noise Precision R/R I/O Op Amp	LMP7731MA	NEW SMD 166-3022	2.540	1.980	1.620	1.480	1.280
7731	NSC	5	SOT-23	2.9 nV/sqrt(Hz) Low Noise, Precision , RRIO, Operational Amplifier in SOT23-5	LMP7731MF	SMD 143-3181	1.930	1.540	1.280	1.100	1.000
8000	ADI	8	LFCSP	Single, Ultra High-Speed Op Amp With Power-Down	AD8000YCPZ-R2	SMD 107-8300	4.130	2.870	2.130	– –	– –
8000	ADI	8	SOIC	Single, Ultra High-Speed Op Amp With Power-Down	AD8000YRDZ	SMD 107-8301	3.660	2.500	1.860	– –	– –
8001	ADI	8	DIP	800MHz Low Power, Current Feedback Operational Amp	AD8001ANZ	960-5304	6.430	4.400	3.550	3.420	– –
8001	ADI	8	SOIC	800MHz Low Power, Current Feedback Operational Amp	AD8001ARZ	SMD 960-5657	3.870	2.730	2.210	2.130	– –
8010	ADI	8	DIP	High Speed, Low Power, 200mA output Current Video Amp	AD8010ANZ	107-9306	7.380	4.240	3.010	– –	– –
8014	ADI	8	SOIC	Single Lo Power, High Performance Amp	AD8014ARZ	SMD 862-1489	2.770	1.890	1.400	– –	– –
8021	ADI	8	MSOP	Low Noise High Speed Amplifier for 16Bit Systems	AD8021ARMZ	NEW SMD 165-1289	2.250	1.770	1.440	1.310	1.270
8021	ADI	8	SOIC	Low-Noise High-Speed Amplifier for 16-Bit Systems, 200MHz. (G=1)	AD8021ARZ	SMD 942-6000	3.060	2.100	1.570	– –	– –
8027	ADI	8	SOIC	190MHz Low Distortion R/R I/O Op Amp	AD8027ARZ	NEW SMD 166-0971	2.450	1.900	1.560	1.430	1.200
8028	ADI	8	SOIC	Low Distortion, High Speed, Rail-to-Rail Input/Output Amplifier	AD8028ARZ	SMD 158-1947	3.470	2.680	1.990	– –	– –
8031	ADI	5	SOT-23	80MHz R/R I/O Op Amp	AD8031ARTZ-R2	NEW SMD 166-0972	3.200	2.500	2.040	1.870	1.560
8031	ADI	8	SOIC	Single Rail-to-Rail I/O Amp	AD8031ARZ	SMD 862-1500	2.630	1.790	1.330	– –	– –
8031	ADI	8	PDIP	2.7 V, 800 µA, 80 Mhz Rail-to-Rail I/O Single Amplifier	AD8031ANZ	143-8574	2.630	1.790	1.330	– –	– –
8031	ADI	8	PDIP	2.7 V, 800 µA, 80 Mhz Rail-to-Rail I/O Single Amplifier	AD8031BNZ	143-8575	4.370	2.980	2.220	– –	– –
8041	ADI	8	SOIC	160MHz R/R Op Amp with Disable	AD8041ARZ	NEW SMD 166-0976	3.520	2.890	2.370	2.170	1.810
8041	ADI	8	PDIP	160 MHz Rail-to-Rail Amplifier with Disable	AD8041ANZ	143-8577	3.770	2.570	1.910	– –	– –
8045	ADI	8	LFCSP	3nV/Hz UltraLow Distortion Voltage Feedback High Speed Amplifier	AD8045ACPZ-R2	SMD 107-8299	2.390	2.290	1.730	– –	– –
8045	AD	8	SOIC	3nV/(sq.rt)Hz Ultralow Distortion, High Speed Op Amp	AD8045ARDZ	SMD 907-9424	3.320	2.270	1.690	– –	– –
8051	ADI	8	SOIC	High Speed, Rail-to-Rail, 3V/5V or ±5V operated, Operational Amp	AD8051ARZ	SMD 942-5608	1.940	1.320	0.950	– –	– –
8055	ADI	5	SOT-23	Single 300MHz Voltage Feedback Amplifier	AD8055ARTZ-R2	NEW SMD 166-0979	2.090	1.610	1.320	1.220	1.010
8055	ADI	8	SOIC	Single 300MHz Voltage Feedback Amplifier	AD8055ARZ	NEW SMD 166-0980	1.740	1.350	1.120	1.010	0.850
8055	ADI	8	DIP	300MHz, Voltage Feedback Operational Amp With bandwidth and slew rate typical of Current Feedback Amps	AD8055ANZ	107-9307	1.230	0.880	0.650	– –	– –
8061	ADI	5	SOT-23	Single 300MHz R/R Op Amp	AD8061ARTZ-R2.	NEW SMD 166-0982	2.090	1.610	1.320	1.220	1.010
8061	ADI	8	SOIC	300 MHz High Speed Rail-to Rail Amplifier, 2.7V to 8.0V Operation (IND TEMP)	AD8061ARZ	SMD 942-6019	1.350	1.210	0.910	– –	– –
8063	ADI	8	SOIC	300 MHz High Speed Rail-to Rail Amplifier With Shutdown, 2.7V to 8.0V Operation (IND TEMP)	AD8063ARZ	SMD 158-1898	1.870	1.310	0.950	– –	– –
8065	ADI	5	SOT-23	High Performance 145MHz FastFET Op Amp	AD8065ARTZ-R2	NEW SMD 166-0983	3.910	3.040	2.490	2.280	1.900
8065	ADI	8	SOIC	High Performance 145MHz FastFET Op Amp	AD8065ARZ	NEW SMD 166-0985	3.250	2.530	2.080	1.900	1.580
8067	ADI	5	SOT-23	54MHz Precision FastFET Op Amp	AD8067ARTZ-R2	NEW SMD 166-0988	5.630	4.380	3.580	3.290	2.740
8091	ADI	8	SOIC	Single High Speed Rail-to-Rail Amp	AD8091ARZ	SMD 862-1543	1.540	1.250	0.890	– –	– –
8099	ADI	8	SOIC	Op Amp, ULD	AD8099ARDZ	SMD 839-7848	4.240	3.220	2.400	– –	– –
8101	NSC	8	MSOP	1MHz GBWP Single R/R I/O Op Amp	LMC8101MM/NOPB	NEW SMD 168-5369	0.810	0.630	0.510	0.480	0.420
8101	NSC	8	SOIC	Rail-to-Rail Input and Output, 2.7V Op Amp With Shutdown	LMC8101TP	SMD 823-8740	0.740	0.520	0.410	– –	– –
8178	INTS	8	SO	Precision Low Power	EL8178FSZ	SMD 143-9848	1.340	1.030	0.930	0.810	0.750
8230	ADI	8	SOIC	16V Rail-to-Rail, Zero-Drift, Precision Instrumentation Amp	AD8230YRZ	SMD 907-9360	6.260	4.290	3.460	– –	– –
8261	NSC	5	SOT-23	High o/p Current Op Amp.	LM8261M5	SMD 977-8853 RL	1.840	1.090	0.870	– –	– –
8330	ADI	16	QSOP	Low Cost DC-150 MHz Variable Gain Amplifier	AD8330ARQZ	SMD 999-4491	7.770	5.490	4.440	– –	– –
8336	ADI	16	LFCSP	General-Purpose, -55°C to +125°C, Wide Bandwidth, DC-Coupled VGA	AD8336ACPZ-WP	SMD 131-6443	7.450	5.930	4.830	4.020	3.920
8337	ADI	8	LFCSP	General-Purpose, Low Cost, DC-Coupled VGA	AD8337BCPZ	SMD 149-8695	5.090	3.680	2.920	– –	– –
8515	ADI	5	SOT-23	1.8 V Low Power CMOS Rail-to-Rail Input/Output Single Operational Amp	AD8515ART-R2	SMD 999-4246	0.690	0.480	0.360	– –	– –
8519	ADI	8	SOIC	8MHz, Rail-to-Rail Operational Amp	AD8519ARZ	SMD 960-3840	1.990	1.350	0.970	– –	– –
8531	ADI	8	SOIC	Rail-to-Rail Input and Output Single Supply Amplifier With 250mA drive Current	AD8531ARZ	SMD 960-5479	0.720	0.510	0.390	– –	– –
8532	ADI	8	SOIC	Dual, Low Cost, 250 mA Output, Single-Supply Amplifier	AD8532ARZ	SMD 999-4289	0.800	0.560	0.430	– –	– –
8538	ADI	8	SOIC	Low Power, Precision Auto-Zero Op Amp	AD8538ARZ	SMD 127-4218	2.130	1.450	1.080	1.020	0.960
8551	ADI	8	MSOP	Zero Drift Single Supply R/R I/O Op Amp	AD8551ARMZ-R2	NEW SMD 165-1306	2.350	1.820	1.500	1.360	1.170
8555	ADI	8	SOIC	Zero Drift, Digitally Programmable Sensor Signal Amplifier	AD8555ARZ	SMD 907-9386	6.900	4.740	3.820	– –	– –
8566	ADI	8	MSOP	16 V Rail-to-Rail Operational Dual Amplifier	AD8566ARMZ	SMD 999-4319	1.890	1.280	1.030	– –	– –
8592	ADI	10	SOIC	Dual, CMOS Single Supply Rail-to-Rail Input/Output Operational Amplifier With ±250 mA Output Current and a Power-Saving Shutdown Mode	AD8592ARMZ	SMD 999-4270	0.800	0.570	0.430	– –	– –
8601	ADI	5	SOT-23	DigiTrim R/R I/O Amplifier with Very Low Offset Voltage & Wide Bandwidth	AD8601ARTZ-R2	NEW SMD 165-1307	1.160	0.890	0.730	0.670	0.580
8605	ADI	5	SOT-23	Single Precision Low Noise CMOS R/R I/O Op Amp	AD8605ARTZ-R2.	NEW SMD 166-0996	1.670	1.300	1.060	0.980	0.810
8615	ADI	5	TSOT-23	Precision 20MHz CMOS, Single Rail-to-Rail Input/Output Op Amp	AD8615AUJZ	SMD 907-9408	1.670	1.350	1.030	– –	– –
8628	ADI	5	SOT-23	Zero-Drift Single Supply R/R I/O Op Amp	AD8628ARTZ-R2	NEW SMD 165-1310	1.960	1.530	1.250	1.150	1.090
8628	ADI	8	SOIC	Single Zero-drift Rail-to-Rail Low Noise Op Amp.	AD8628ARZ	SMD 862-1586	2.230	1.520	1.130	– –	– –
8629	ADI	8	SOIC	Zero Drift, Single-Supply, Rail-to-Rail, Input/Output Operational Amplifier	AD8629ARZ	SMD 999-4300	3.360	2.270	1.770	– –	– –
8632	ADI	8	SOIC	Dual, 1.8 V, 5 MHz Rail-to-Rail Low Power Operational Amplifier	AD8632ARZ	SMD 999-4262	0.800	0.530	0.450	– –	– –
8651	ADI	8	SOIC	50 MHz, Precision, Low Distortion, Low Noise CMOS Amplifier	AD8651ARZ	SMD 158-1956	2.100	1.630	1.250	– –	– –
8665	ADI	8	SOIC	16 V, 4 MHz Rail-to-Rail Output Amplifiers	AD8665ARZ	SMD 131-6444	1.360	0.930	0.660	0.620	0.570
8671	ADI	8	SOIC	Precision, Very Low Noise, Low Input Bias Current Operational Amplifier	AD8671ARZ	SMD 114-3298	2.250	1.710	1.270	– –	– –
8675	ADI	8	SOIC	36 V Precision, 2.8 nV/rtHz Rail-to-Rail Output Op Amp	AD8675ARZ	SMD 138-9164	2.740	1.930	1.430	1.360	1.270
8677	ADI	8	SOIC	130µV mAx Offset Voltage Op Amp	AD8677ARZ	SMD 127-4210	1.900	1.380	1.050	1.010	0.930
8691	ADI	5	SC-70	Single, Low Noise, Rail-to-Rail Output CMOS Op Amp	AD8691AKSZ-R2	SMD 107-8265	1.410	1.010	0.790	– –	– –
8691	ADI	5	TSOT	Single, Low Noise, Rail-to-Rail Output CMOS Op Amp	AD8691AUJZ-R2	SMD 107-8266	1.410	1.010	0.790	– –	– –
8692	AD	8	SOIC	Low Cost, Low Noise, CMOS Rail-to-Rail Output Op Amp.	AD8692ARZ	SMD 907-9394	1.740	1.180	1.000	– –	– –
9000	MAX	8	SOIC	Low-Power, Single Supply, Operational Amp. + Comparator +Reference combination	MAX9000EUA+	SMD 972-4036	3.900	2.820	2.150	– –	– –
9631	ADI	8	DIP	320MHz Ultra Low Distortion Operational Amp	AD9631ANZ	107-9418	9.110	6.550	5.040	– –	– –
9914	MAX	5	SC-70	1MHz GBWP R/R I/P & O/P Op Amp	MAX9914EXK+T	NEW SMD 160-9590	0.530	0.460	0.400	0.350	0.320
9915	MAX	6	SC-70	1MHz GBWP R/R I/P & O/P Op Amp	MAX9915EXT+T	NEW SMD 160-9591	0.530	0.460	0.400	0.350	0.320
10502	TI	8	SOIC	OP Amp, FEEDBACK	SN10502D	SMD 845-1982	1.930	1.370	0.980	– –	– –
28136	INTS	8	SOIC	Single Precision rail-to-rail Op Amp	ISL28136FBZ	SMD 143-9853	1.740	1.360	1.210	1.050	0.960
28138	INTS	8	SOIC	Single & Dual RRIO Op Amp	ISL28138FBZ	SMD 143-9854	1.210	0.960	0.850	0.750	0.660
28158	INTS	8	SOIC	Single Precision RRIO Op Amp	ISL28158FBZ	SMD 143-9855	1.550	1.200	1.080	0.930	0.860
28276	INTS	16	QSOP	Instrumentation Amplifier	ISL28276IAZ	SMD 136-0976	2.070	1.730	1.550	1.310	1.180
28278	INTS	16	QSOP	Dual Micropower Single Supply Rail-to-Rail Input and Output (RRIO) Precision Op-Amp	ISL28278FAZ	SMD 136-0977	2.070	1.810	1.570	1.330	1.230
28286	INTS	10	MSOP	Dual Micropower Single Supply Rail-to-Rail Input and Output (RRIO) Precision Op-Amp	ISL28286FUZ	SMD 136-0979	1.420	1.150	1.020	0.860	0.790
28288	INTS	10	MSOP	Dual Micropower Single Supply Rail-to-Rail Input and Output (RRIO) Precision Op-Amp	ISL28288FUZ	SMD 136-0981	1.240	1.080	0.940	0.790	0.720
28290	INTS	10	MSOP	Single and Dual Ultra-Low Noise, Ultra-Low Distortion, Rail-to-Rail, Op Amp	ISL28290FUZ	SMD 136-0982	3.710	3.190	2.900	2.500	2.180
28291	INTS	10	MSOP	Single and Dual Ultra-Low Noise, Rail-to-Rail, Op Amp	ISL28291FUZ	SMD 136-0983	3.380	2.910	2.650	2.280	2.010
33171	ON	8	SO	Single Supply 3.0 V to 44 V Low Power Operational Amplifier	MC33171DG	SMD 110-4707	0.740	0.540	0.400	0.340	– –
33171	ST	8	DIP	Low Power, Single Supply, Operational Amp	MC33171N	109-4318	0.730	0.550	0.500	0.380	0.370
33171	ON	8	DIP	Low Power, Single Supply, Operational Amp	MC33171PG	966-4955	0.770	0.570	0.420	0.350	– –
33201	ON	8	SOIC	Single Supply Rail-to-Rail Input and Output Operational Amp	MC33201DG	SMD 966-6656	0.690	0.550	0.470	0.390	– –
33201	ON	8	DIP	Single Supply Rail-to-Rail Input and Output Operational Amp	MC33201PG	966-6664	0.820	0.610	0.450	– –	– –
55001	INTS	8	SO	High Supply Voltage 220MHz Unity-Gain Stable Operational Amplifier	ISL55001IBZ	SMD 136-0993	2.540	2.130	1.940	1.680	1.510
55002	INTS	8	SO	High Supply Voltage 200MHz Unity-Gain Stable Operational Amplifier	ISL55002IBZ	SMD 136-0994	3.070	2.410	1.970	1.730	1.650
55004	INTS	14	SO	High Supply Voltage 200MHz Unity-Gain Stable Operational Amplifier	ISL55004IBZ	SMD 136-0995	4.560	3.950	3.560	3.000	2.890

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Farnell

Operational Amplifiers - continued

Dual

414163

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+
6	MCHIP	8	SOIC	Dual R/R I/O 1.3MHz GBWP Op Amp Auto-Zeroed	MCP6V02-E/SN	NEW SMD 162-9348●	2.630	1.990	1.560	– –
6	MCHIP	8	SOIC	Dual R/R I/O 1.3MHz GBWP Op Amp Auto-Zeroed	MCP6V07-E/SN	NEW SMD 162-9351●	2.630	1.990	1.560	– –
22	TI	8	SOIC	Dual Low-Power General-Purpose Operational Amplifier	TL022CD	SMD 145-9663●	0.810	0.640	0.480	0.460
22	ST	8	SOIC	25MHz GBWP Dual Bipolar Op Amp	TSH22ID	NEW SMD 156-4350●	1.450	1.160	1.020	0.850
24	ST	14	PDIP	25MHz GBWP Quad Bipolar Op Amp	TSH24IN	NEW 156-4351●	1.670	1.330	1.200	0.970
25	TI	8	SOIC	Dual uPower Low-Voltage Operational Amplifier	TLC25L2CD	SMD 145-9783●	2.300	1.560	1.160	1.100
25	TI	8	SOIC	Dual Low-Power Low-Voltage Operational Amplifier	TLC25M2CD	SMD 145-9785●	2.090	1.470	1.110	0.970
27	TI	8	SOIC	LINCMOS(TM) Precision Dual Operational Amplifier	TLC27L2ACDG4	SMD 123-4813●	0.560	0.400	0.310	0.280
27	TI	8	SOIC	LinCMOS(TM> Precision Dual Operational Amplifier	TLC27L2AID	SMD 145-9808●	0.720	0.510	0.390	0.290
27	TI	8	SOIC	LinCMOS(TM> Precision Dual Operational Amplifier	TLC27L2BID	SMD 145-9811●	0.850	0.610	0.470	0.350
27	TI	8	SOIC	Dual Precision Single Supply uPower Operational Amplifier	TLC27L2ID	SMD 145-9813●	0.720	0.460	0.330	0.240
27	TI	8	SOIC	LINCMOS(TM) Precision Dual Operational Amplifier	TLC27L2BCDG4	SMD 123-5003●	0.630	0.470	0.360	0.310
27	TI	8	PDIP	Dual Precision Single Supply UPower Operational Amplifier	TLC27L2IPE4	123-4899●	0.390	0.290	0.220	0.185
27	TI	8	SOIC	Dual Precision Single Supply UPower Operational Amplifier	TLC27L2MDRG4	SMD 123-6555●	0.650	0.490	0.360	0.330
27	TI	8	SOIC	Dual Precision Single Supply UPower Operational Amplifier	TLC27L7IDG4	SMD 123-4888●	1.470	1.100	0.840	0.750
27	TI	8	PDIP	LINCMOS(TM) Precision Dual Operational Amplifier	TLC27M2ACPE4	123-5015●	0.390	0.290	0.220	0.185
27	TI	8	SOIC	LINCMOS(TM) Precision Dual Operational Amplifier	TLC27M2BCDG4	SMD 123-4878●	0.430	0.350	0.300	0.260
27	TI	8	SOIC	Dual CMOS Op-Amp	TLC27M2CDG4	SMD 123-4642●	0.530	0.380	0.290	0.260
27	TI	8	SOIC	Dual Precision Single Supply Low-Power Operational Amplifier	TLC27M2IDG4	SMD 123-4700●	0.390	0.290	0.220	0.185
27	TI	8	SOIC	Dual Precision Single Supply Low-Power Operational Amplifier	TLC27M7CDG4	SMD 123-5006●	0.970	0.720	0.550	0.490
27	TI	8	SOIC	OP Amp, Rail-Rail, Single Without Shutdown	TLV27L2ID	SMD 845-5376●	0.720	0.610	0.540	– –
28	ADI	8	PDIP	Dual Precision Rail-to-Rail Input & Output Operational Amplifier	OP284EPZ	143-8687●	7.740	5.270	4.250	– –
72	ST	8	SOIC	4MHz GBWP Dual J-FET Op Amp	TL072ACD	NEW SMD 156-4343●	0.380	0.310	0.290	0.230
72	ST	8	SOIC	4MHz GBWP Dual J-FET Op Amp	TL072CD	NEW SMD 156-4344●	0.230	0.195	0.168	0.144
72	TI	8	SOIC	OP Amp, RRIO Dual	TLC072AIDG4	SMD 120-7279●	1.080	0.890	0.800	– –
072	TI	8	SOIC	Dual Wide-Bandwidth High-Output-Drive Op Amp	TLC072CDG4	SMD 123-4720●	1.270	0.950	0.730	0.640
072	TI	8	SOIC	Dual Wide-Bandwidth High-Output-Drive Op Amp	TLC072IDG4	SMD 123-4937●	1.150	0.870	0.660	0.580
72	ST	8	SOIC	Dual, Wideband, Rail-to-Rail Video Op Amp	TSH72CD	SMD 108-6950●	1.450	1.200	0.990	0.820
72	ST	8	TSSOP	Wide Band, Low Power Operational Amplifier With Standby Function	TSH72CPT	SMD 109-4971●	1.970	1.450	1.180	1.030
82	NSC	8	DIP	Wide Bandwidth Dual JFET Input Op Amp 4MHz GBWP	TL082CP/NOPB	NEW 168-5320●	0.800	0.620	0.500	0.470
82	ST	8	PDIP	4MHz GBWP Dual J-FET Op Amp	TL082IN	NEW 156-4345●	0.310	0.260	0.220	0.182
82	TI	8	SOIC	OP Amp, RRIO Dual	TLC082CD	SMD 845-3713●	1.430	1.020	0.730	– –
82	ST	8	SOIC	Dual, Wideband, Rail-to-Rail Op Amp	TSH82ID	SMD 108-6956●	1.850	1.350	1.100	0.960
82	ST	8	TSSOP	Wide Band, Rail-to-Rail Operational Amplifier with Standby Function	TSH82IPT	SMD 109-4977●	1.380	1.010	0.870	0.810
101	TI	8	SOIC	OP Amp,Logarithmic	LOG101AIDE4	SMD 120-6918●	8.620	7.160	5.940	– –
112	ST	8	SOIC	Dual, Low Noise, Large Bandwidth Op Amp	TSH112ID	SMD 108-6937●	1.580	1.300	1.060	0.880
112	ST	8	TSSOP	Wide Band, Low Noise Operational Amplifier	TSH112IPT	SMD 109-4961●	1.580	1.300	1.130	0.970
158	TI	8	CDIP	Dual General-Purpose Operational Amplifier	LM158JG	145-9504●	1.930	1.360	1.010	0.900
158	NSC	8	TO-5	Dual, Low Power Operational Amp. (MIL TEMP)	LM158H	121-6157●	6.550	4.430	3.620	3.410
200	ADI	8	DIP	Dual, Low Offset, Low Power Operational Amp. (improved OP07)...	OP200GPZ	960-4715●	5.550	3.780	2.820	– –
204	ST	8	DIP	Dual, High Performance Operational Amp. With frequency and phase compensation	LS204CN	121-8319●	2.180	1.600	1.240	0.910
213	ADI	8	DIP	Dual, Low Noise, Single Supply Operational Amp	OP213FPZ	960-5355●	4.080	2.770	2.060	– –
213	ADI	8	SOIC	Dual, Low Noise, Single Supply Operational Amp.	OP213FSZ	SMD 942-6272●	4.080	2.770	2.060	– –
243	TI	8	SOIC	Dual, Rail-Rail Wide Input Op-Amp	TLV2432IDG4	SMD 137-9262●	1.000	0.810	0.630	0.540
252	TI	8	SOIC	Dual Low-Voltage Operational Amplifier	TLC252CD	SMD 145-9782●	2.300	1.560	1.160	1.100
258	TI	8	PDIP	Dual Operational Amplifier.	LM258AP	145-9512●	0.480	0.350	0.270	0.250
258	FCH	8	DIP	Dual Operational Amp.	KA258	347-6844▲	0.250	0.167	0.120	– –
258	FCH	8	SOIC	Dual, Operational Amplifier	KA258D	SMD 347-6856▲	0.350	0.230	0.166	– –
258	TI	8	SOIC	Dual Operational Amplifier.	LM258D	SMD 229-2695●	0.240	0.200	0.146	– –
258	ON	8	SOIC	Dual Op Amp, LP	LM258DG	SMD 121-1094●	0.340	0.250	0.200	– –
258	ON	8	DIP	Dual, Low Power, Single Supply, Operational Amp. (IND TEMP)	LM258NG	966-5412●	0.430	0.300	0.220	0.182
262	ADI	8	SOIC	15 MHz Rail-to-Rail Operational Amplifier, Dual.	OP262GSZ	SMD 999-4416●	3.960	2.780	2.090	– –
270	ADI	8	DIP	Dual, Very Low Noise, Precision Operational Amp. (Ceramic)	OP270EZ	318-2411▲	11.100	8.510	7.210	6.920
270	ADI	8	DIP	Dual, Low Noise, Precision Operational Amp. (Ceramic)	OP270FZ	399-450▲	8.320	6.380	5.410	– –
270	ADI	8	DIP	Dual Precision Op Amp, LN	OP270GPZ	960-4723●	5.080	3.460	2.570	– –
272	TI	8	PDIP	1.7MHz GBWP LinCMOS Precision Dual Op Amp	TLC272ACP	NEW 156-4977●	0.470	0.380	0.340	0.280
272	ST	8	DIP	Dual, Power Operational Amp. - 1A output, 4V to 28V supply,350kHz bandwidth	L272M	109-4205●	2.360	1.800	1.450	1.200
272	TI	8	PDIP	LINCMOS(TM) Precision Dual Operational Amplifier	TLC272ACPE4	123-4728●	0.440	0.320	0.250	0.210
272	TI	8	SOIC	OP Amp, Rail-Rail, Dual	TLC272AID	SMD 845-4159●	0.470	0.380	0.310	– –
272	TI	8	SOIC	Dual CMOS Op-Amp	TLC272BCDG4	SMD 123-4691●	0.460	0.340	0.260	0.240
272	TI	8	PDIP	LINCMOS(TM) Precision Dual Operational Amplifier	TLC272BCPE4	123-4960●	0.360	0.270	0.200	0.184
272	TI	8	SOIC	OP Amp, Rail-Rail, Dual	TLC272ID	SMD 845-4167●	0.570	0.430	0.310	– –
272	TI	8	PDIP	Dual CMOS Op-Amp.	TLC272IPE4	123-4681●	0.440	0.320	0.250	0.210
272	TI	8	SOIC	550-UA/CH 3-MHZ RAIL-TO-RAIL OUTPUT Operational Amplifier	TLV272CDG4	SMD 123-4856●	0.550	0.430	0.320	0.280
272	TI	8	SOIC	OP Amp, Rail-Rail Single Supply	TLV272ID	SMD 845-5279●	0.460	0.380	0.340	– –
272	TI	8	VSSOP	OP Amp, Rail-Rail Single Supply	TLV272IDGKG4	SMD 120-7294●	0.480	0.400	0.350	– –
272	TI	8	PDIP	OP Amp, Rail-Rail Single Supply	TLV272IP	845-5287●	0.680	0.530	0.410	– –
275	ADI	8	SOIC	Dual, Audio Bipolar JFET Operational Amp	OP275GSZ	SMD 942-6280●	2.010	1.370	0.980	– –
277	TI	8	SOIC	OP Amp, Dual.	TLC277CD	SMD 845-4183●	1.160	0.990	0.770	– –
277	TI	8	PDIP	OP Amp, Dual.	TLC277CP	845-4191●	1.300	0.950	0.720	– –
277	TI	8	SOIC	Dual Precision Single Supply Operational Amplifier	TLC277IDG4	SMD 123-4696●	1.470	1.100	0.840	0.750
279	ADI	8	SOIC	Rail-to-Rail High Output Current Operational Amplifier	OP279GSZ	SMD 999-4424●	2.470	1.740	1.660	– –
281	ADI	8	SOIC	Dual, Ultralow Power, Rail-to-Rail Output Operational Amplifier	OP281GSZ	SMD 143-8998●	4.470	3.050	2.460	– –
284	ADI	8	SOIC	Dual Precision Rail-to-Rail Input & Output Operational Amplifier.	OP284FSZ	SMD 999-4378●	4.990	3.520	2.840	– –
285	ADI	8	SOIC	Dual 9 MHz Precision Op Amp	OP285GSZ	NEW SMD 165-1302●	3.870	3.020	2.470	2.260
290	ADI	8	DIP	Dual Precision Op Amp, LV.	OP290GPZ	960-4731●	5.230	3.560	2.870	– –
295	ADI	8	SOIC	Dual, Operational Amplifier, Rail-to-Rail.	OP295GSZ	SMD 960-5185●	4.000	2.720	2.020	– –
297	ADI	8	DIP	Dual, Low Bias Current, Precision Operational Amp. (improved OP297GP).	OP297FPZ	960-4740●	4.970	3.390	2.730	– –
297	ADI	8	DIP	Dual Precision Op Amp, LBC	OP297GPZ	960-4758●	4.410	3.010	2.240	– –
297	ADI	8	SOIC	Dual, Operational Amplifier, Low Bias Current Precision	OP297GSZ	SMD 942-6299●	4.160	2.830	2.100	– –
332	NSC	8	NSOIC	7.5MHz BW Dual R/R I/O Op Amp	LM7332MA	NEW SMD 158-9522●	2.160	1.930	1.570	1.440
332	NSC	8	MSOP	7.5MHz BW Dual R/R I/O Op Amp	LM7332MME	NEW SMD 158-9523●	2.160	1.930	1.570	1.440
342	NSC	8	SOIC	1MHz GBWP Dual R/R I/O Op Amp	LMV342MA/NOPB	NEW SMD 168-5373●	0.670	0.530	0.440	0.400
353	ST	8	PDIP	4MHz GBWP Dual J-FET Op Amp	LF353N	NEW 156-4326●	0.410	0.330	0.290	0.230
358	TI	8	SOIC	0.7MHz GBWP Dual Op Amp	LM358D.	NEW SMD 164-8685●	0.117	0.093	0.082	0.069
358	TI	8	PDIP	0.7MHz GBWP Dual Op Amp	LM358P.	NEW 164-8686●	0.127	0.114	0.101	0.088
358	TI	8	SOIC	Dual Low Voltage & Power RRO	LPV358D.	NEW SMD 164-8689●	0.330	0.270	0.220	0.199
358	ST	8	PDIP	1.1MHz GBWP Dual Op Amp	LM358AN	NEW 156-4329●	0.182	0.144	0.130	0.103
358	ST	8	SOIC	1.1MHz GBWP Dual Op Amp	LM358DT	NEW SMD 156-4331●	0.157	0.130	0.117	0.092
358	NSC	8	TO-5	1 MHz GBWP Dual Op Amp	LM358H/NOPB	NEW 155-2438●	5.670	4.960	3.970	3.310
358	NSC	8	TO-5	1 MHz GBWP Dual Op Amp	LM358H/NOPB	155-2438●	5.670	4.960	3.970	3.310
358	TI	8	PDIP	Dual Operational Amplifier.	LM358AP	145-9520●	0.380	0.250	0.181	0.127
358	ST	8	SOIC	Dual Low cost, low power input/output rail-to-rail operational amplifier	LMV358ID	SMD 137-4136●	0.410	0.300	0.230	0.210
358	ST	8	TSSOP	Dual Low cost, low power input/output rail-to-rail operational amplifier	LMV358IPT	SMD 137-4137●	0.680	0.530	0.390	0.370
358	ST	8	SOIC	Dual General Purpose, Input/Output Rail-to-Rail Low Power Operational Amplifiers.	TSV358ID	SMD 137-4149●	0.410	0.300	0.230	0.210
358	ST	8	SOIC	Dual Op Amp, LP	LM358D	SMD 136-6578●	0.189	0.163	0.138	0.103
358	FCH	8	DIP	Dual, Low Power, Single Supply, Operational Amp	KA358A	101-3813●	0.380	0.280	0.240	– –

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	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+
358	TI	8	SOIC	Dual Op Amp, GP	LM358AD	SMD 752-7007●	0.260	0.210	0.151	– –
358	NSC	8	SOIC	Dual, Low Power, Single Supply, Operational Amp	LM358AM	SMD 948-6801●	1.240	0.810	0.570	0.360
358	NSC	8	DIP	Dual Op Amp, LP	LM358AN	948-6810●	0.580	0.430	0.300	0.230
358	ON	8	SOIC	Dual, Low Power, Single Supply, Operational Amp	LM358DG	SMD 121-1106●	0.370	0.193	0.172	– –
358	NSC	8	SOIC	Dual Op Amp, LP	LM358M	SMD 948-6828●	0.410	0.290	0.230	0.193
358	NSC	8	DIP	Dual, Low Power, Single Supply, Operational Amp	LM358N	948-6836●	0.530	0.310	0.250	0.197
358	ST	8	DIP	Dual Op Amp, LP	LM358N	975-5900●	0.540	0.360	0.230	0.191
358	ON	8	DIP	Dual, Low Power, Single Supply, Operational Amp	LM358NG	121-1132●	0.370	0.240	0.210	– –
358	TI	8	TSSOP	Dual General-Purpose Operational Amplifier	LM358PW	SMD 838-9250●	0.143	0.115	0.084	– –
358	TI	8	SOIC	Dual Low Voltage rail to rail output Operational Amplifier	LMV358ID	SMD 110-5913●	0.380	0.310	0.220	– –
358	NSC	8	SOIC	Dual, Rail-to-Rail Output Amp (Low Voltage version of LM358)	LMV358M	SMD 930-6730●	0.490	0.400	0.360	– –
358	TI	8	SOIC	Dual, Rail-to-Rail Output, Low Voltage, Low Power Op Amp	LPV358DE4	SMD 105-3628●	0.420	0.290	0.240	– –
358	TI	8	SOIC	Dual, Rail-to-Rail Output, Low Voltage, Low Power Op Amp	LPV358IDE4	SMD 105-3623●	0.440	0.290	0.260	– –
407	MAX	8	SOIC	Dual, Single Supply Operational Amp. With 1.2μA mAx. Quiescent Current per Amp	MAX407CSA+	SMD 118-8052●	6.350	4.450	3.410	2.890
412	TI	8	SOIC	Dual JFET Input Op Amp	LF412CD.	NEW SMD 164-8683●	0.550	0.430	0.360	0.340
412	MAX	8	SOIC	28MHz Dual Channel Unity Gain Op Amp	MAX412CSA+	NEW SMD 161-0106●	4.820	3.970	3.240	2.730
412	TI	8	SOIC	Dual JFET-input Op Amp	LF412CD	NEW SMD 156-4939●	0.770	0.630	0.560	0.470
442	NSC	8	DIP	Dual Low Power JFET Input Op Amp	LF442ACN/NOPB	NEW 168-5311●	5.000	3.900	3.190	2.920
422	NSC	10	MSOP	Dual Rail-to-Rail Output Operational Amplifier With Power Select	LMV422MM	SMD 100-8282●	2.310	1.630	1.340	– –
432	NSC	8	SOIC	Dual, similar to LM358 With intergrated LMV431 based 2.5V Fixed Reference	LM432MA.	SMD 355-0497	0.340	0.250	0.179	– –
462	ST	8	SOIC	Dual, Rail-to-Rail, Low Noise, High output swing Op. Amp.	TS462CD	SMD 109-4376●	0.820	0.560	0.460	0.430
462	ST	8	DIP	Dual, Rail-to-Rail, Low Noise, High output swing Op. Amp	TS462CN	109-4377●	0.700	0.560	0.430	0.370
478	MAX	8	SOIC	Dual, Low Power Single Supply Op. Amp., 17μA supply Current	MAX478CSA+	SMD 972-5865●	5.400	3.790	2.900	2.450
492	MAX	8	DIP	Dual, MicroPower, Single Supply Rail-to-Rail Operational Amp	MAX492CPA+	118-8003●	4.810	3.190	2.730	1.950
492	MAX	8	SOIC	Dual, MicroPower, Single Supply Rail-to-Rail Operational Amp	MAX492CSA+	SMD 972-5636●	4.970	3.190	2.730	– –
512	ST	8	DIP	Dual, High Speed, Precision Operational Amp (IND TEMP)	TS512IN	109-4380●	0.730	0.590	0.530	0.460
552	NSC	8	MSOP	3 MHz, Micropower RRO Amplifier	LMV552MM	SMD 134-2346●	1.070	0.880	0.770	0.660
648	ADI	8	SOIC	Dual Precision Low Power BiFET Op Amp	AD648JRZ	NEW SMD 166-0964●	3.010	2.320	1.900	1.750
662	NSC	8	NSOIC	Dual 1.4 GBWP MHz CMOS R/R O/P Op Amp	LMC662AIM/NOPB	NEW SMD 156-4621●	1.390	1.130	0.940	0.800
662	NSC	8	SOIC	Dual, Single Supply, Rail-to-Rail Output, CMOS Operational Amp., Input bias Current=2fA, Vos=3mV (EXTD TEMP)	LMC662AIM	SMD 949-4782●	1.500	1.230	1.120	– –
706	ADI	8	PDIP	Dual Picoampere Input Current Bipolar Op Amp	AD706JNZ	143-8358●	3.920	2.670	2.160	– –
706	ADI	8	SOIC	Dual, Bipolar Current Operational Amp	AD706ARZ	SMD 942-6230●	4.710	3.210	2.390	– –
708	ADI	8	DIP	Dual, Very High Precision, Ultra Low Offset, Operational Amp	AD708JNZ	960-4766●	5.310	3.620	2.920	– –
712	ADI	8	SOIC	Dual Precision High Speed BiFET Op Amp	AD712KRZ	NEW SMD 166-0966●	6.430	4.990	4.090	3.750
722	NSC	8	SOIC	Dual, 10MHz, Low Noise, Low Voltage, Low Power Op. Amp	LMV722M	SMD 948-6321●	1.570	1.110	0.910	– –
722	NSC	8	MSOP	Dual, 10MHz, Low Noise, Low Voltage, Low Power Op. Amp.	LMV722MM	SMD 977-8519●	1.070	0.920	0.850	– –
722	NSC	8	MSOP	Dual, 10MHz, Low Noise, Low Voltage, Low Power Op. Amp.	LMV722MM.	SMD 315-1207	0.920	0.670	0.530	– –
727	ADI	8	SOIC	Precision Dual Rail-to-Rail Output Single Supply Amplifier	OP727ARZ	SMD 999-4432●	3.370	2.380	1.780	– –
747	TI	14	DIP	Dual Op Amp, GP	UA747CNG4	959-4590●	0.610	0.520	0.400	– –
772	NSC	8	SOIC	Dual, 3.5MHz, Low Offset, Low Noise, RRO Op Amp	LMV772MA	SMD 818-7657●	1.270	1.040	0.880	– –
772	NSC	8	MSOP	Dual, 3.5MHz, Low Offset, Low Noise, RRO Op Amp	LMV772MM	SMD 818-7665●	1.160	1.040	0.860	– –
792	NSC	10	MSOP	17 MHz, Low Noise, CMOS Input, 1.8V Operational.	LMV792MM	SMD 131-2615●	1.590	1.200	0.960	0.860
797	NSC	8	MSOP	17 MHz, Low Noise, CMOS Input, 1.8V Operational.	LMV797MM	SMD 131-2617●	1.840	1.390	1.090	0.980
812	ADI	8	SOIC	Dual Current Feedback Low Power Op Amp	AD812ARZ	NEW SMD 166-0989●	5.100	3.970	3.240	2.980
820	TI	8	SOIC	Single Op Amp Unity-Gain Stable 280MHz GBWP	OPA820ID	NEW SMD 156-0648●	1.670	1.460	1.070	0.970
822	NSC	8	SOIC	5MHz GBWP Dual R/R O/P Op Amp	LMV822M/NOPB	NEW SMD 168-5318●	0.870	0.670	0.550	0.500
822	NSC	8	MSOP	5MHz GBWP Dual R/R O/P Op Amp	LMV822MM/NOPB	NEW SMD 168-5319●	0.870	0.670	0.550	0.500
822	TI	8	SOIC	Dual, Rail-to-Rail Output, Low Voltage, Low Power Op Amp	LMV822DE4	SMD 105-3750●	0.460	0.340	0.260	– –
822	TI	8	SOIC	Dual, Rail-to-Rail Output, Low Voltage, Low Power Op Amp	LMV822IDE4	SMD 105-3745●	0.550	0.410	0.320	– –
826	ADI	8	SOIC	High Speed Low Power Dual Op Amp	AD826ARZ	NEW SMD 165-1291●	4.180	3.250	2.670	2.440
826	ADI	8	PDIP	Dual High Speed, Low Power, Operational Amplifier	AD826ANZ	143-8583●	5.000	3.400	2.530	– –
827	ADI	8	DIP	Dual, High Speed, Low Power, Operational Amp. (Dual AD847JN)	AD827JNZ	960-3662●	8.420	6.460	5.480	– –
832	NSC	8	MSOP	Dual 3.3 MHz Low Power CMOS Op Amp	LMV832MM	NEW SMD 166-7429●	1.350	1.050	0.860	0.720
832	NSC	8	MSOP	Dual 3.3 MHz Low Power CMOS Op Amp	LMV832MME	NEW SMD 166-7430●	1.350	1.050	0.860	0.720
833	NSC	8	MSOP	Dual Audio Op Amp	LM833M/NOPB	NEW SMD 156-4669●	0.410	0.340	0.290	0.240
862	NSC	8	MSOP	Dual 30MHz Low Power CMOS EMI Hardened Op Amp	LMV862MM	NEW SMD 166-3005●	1.990	1.640	1.340	1.220
862	MICR	8	SOT-23	OP Amp,Rail-Rail O/P,Dual	MIC862YM8 TR	SMD 129-2996●	1.280	1.010	0.830	0.710
863	MICR	8	SOT-23	OP Amp,Rail-Rail O/P,Dual	MIC863YM8 TR	SMD 129-2998●	1.170	0.940	0.780	0.660
912	ST	8	SOIC	Dual 8MHz GBWP R/R I/O Op Amp	TSV912AIDT	NEW SMD 164-2731●	0.970	0.750	0.630	0.570
912	ST	8	SOIC	Dual 8MHz GBWP R/R I/O Op Amp	TSV912IDT	NEW SMD 164-2732●	0.790	0.620	0.510	0.460
912	ST	8	SOIC	Dual Rail-to-rail input/output 8MHz operational amplifier	TSV912AID	SMD 137-4122●	1.010	0.940	0.870	0.810
912	ST	8	SOIC	Dual Rail-to-rail input/output 8MHz operational amplifier	TSV912ID	SMD 137-4123●	0.940	0.860	0.810	0.790
913	MCHIP	8	SOIC	Dual Auto-Zeroed Op Amp	TC913ACOA	NEW SMD 162-7190●	4.750	3.600	2.830	– –
922	ST	8	DIP	Dual, Rail-to-Rail I/O, High output Current (80mA) Op. Amp., 4MHz	TS922IN	109-4390●	1.570	1.280	1.080	0.850
922	ST	8	SOIC	Dual 4.0MHz GBWP R/R I/O Op Amp	TS922IDT	NEW SMD 164-2724●	0.890	0.700	0.570	0.520
922	ST	8	TSSOP	Dual, Rail-to-Rail I/O, High output Current (80mA) Op. Amp., 4MHz	TS922IPT.	SMD 113-1996●	1.200	0.910	0.710	0.620
932	NSC	8	SOIC	Rail/Rail Input & Output Dual Amplifier, 1.8V	LMV932MA.	SMD 128-6955●	0.970	0.660	0.460	0.370
932	ST	8	SOIC	Dual, Rail-to-Rail, MicroPower (20μA/Amp.) Op. Amp.	TS932ID	SMD 109-4396●	1.110	0.910	0.820	0.700
932	NSC	5	SOT-23	Dual 1.8V, RRIO Operational Amplifiers	LMV932MM	SMD 131-2839●	1.110	0.830	0.670	0.530
942	ST	8	SOIC	Dual, Rail-to-Rail, Single Supply, MicroPower (1.2μA/Amp.) Op.Amp.	TS942ID	SMD 109-4400●	1.490	1.150	0.910	0.790
952	ST	8	SOIC	Dual 3MHz GBWP R/R I/O Op Amp	TS952IDT	NEW SMD 164-2725●	1.170	0.910	0.730	0.670
952	ST	8	SO	Dual, Low Power, Rail-to-Rail, I/O, Op. Amp., 3MHz	TS952ID	SMD 109-4405●	1.190	0.800	0.650	0.590
952	ST	8	DIP	Dual, Low Power, Rail-to-Rail, I/O, Op. Amp., 3MHz	TS952IN	109-4406●	1.210	0.950	0.820	0.670
952	ST	8	TSSOP	Dual, Low Power, Rail-to-Rail, I/O, Op. Amp., 3MHz	TS952IPT	SMD 975-5691●	0.670	0.610	0.560	0.520
972	ST	8	SOIC	Dual, Rail-to-Rail, Low Noise, 12MHz Op. Amp.	TS972ID	SMD 109-4409●	0.620	0.520	0.490	0.370
972	ST	8	TSSOP	Dual, Rail-to-Rail, Low Noise, 12MHz Op. Amp.	TS972IPT	SMD 109-4410●	0.630	0.530	0.500	0.420
992	ST	8	SOIC	Dual 20MHz GBWP R/R I/O Op Amp	TSV992AIDT	NEW SMD 164-2733●	0.840	0.650	0.530	0.490
992	ST	8	SOIC	Dual 20MHz GBWP R/R I/O Op Amp	TSV992IDT	NEW SMD 164-2734●	0.700	0.550	0.440	0.410
992	ST	8	SOIC	Dual Rail-to-rail input/output 20MHz GBP operational amplifier	TSV992AID	SMD 137-4129●	1.580	1.210	0.950	0.810
992	ST	8	SOIC	Dual Rail-to-rail input/output 20MHz GBP operational amplifier	TSV992ID	SMD 137-4130●	1.440	1.110	0.880	0.750
1002	LT	14	DIP	Op Amp, Dual	LT1002CN#PBF	133-0560●	5.390	3.050	2.270	2.230
1013	TI	8	CDIP	Dual Precision Operational Amplifier	LT1013AMJG	145-9525●	10.870	8.760	7.760	6.960
1013	TI	8	CDIP	Dual Precision Operational Amplifier	LT1013AMJGB	145-9526●	15.050	12.990	11.900	11.580
1013	LT	8	DIP	Dual Precision Op Amp, LP	LT1013CN8#PBF	955-9280●	4.350	2.460	1.850	– –
1013	TI	8	DIP	Dual Precision Low-Power Operational Amplifier	LT1013CPG4	958-9740●	1.380	1.140	0.970	– –
1013	TI	8	SOIC	Dual Precision Operational Amplifier	LT1013DDG4	SMD 958-9759●	1.100	0.890	0.660	– –
1013	LT	8	DIP	Dual Precision, Op Amp	LT1013DN8#PBF	955-9299●	3.590	2.030	1.500	– –
1013	LT	8	SOIC	Dual Precision Op Amp, LP	LT1013DS8#PBF	SMD 955-9302●	3.780	2.150	1.770	– –
1078	LT	8	DIP	Dual Op Amp 200kHz GBWP	LT1078ACN8#PBF	NEW 166-3346●	9.360	7.030	5.620	4.680
1078	TI	8	SOIC	Dual Micropower Precision Low-Voltage Operational Amplifier	TLC1078CD	SMD 145-9733●	4.390	2.990	2.230	2.120
1078	TI	8	SOIC	Dual Micropower Precision Low-Voltage Operational Amplifier	TLC1078ID	SMD 145-9735●	4.580	3.120	2.320	2.200
1078	TI	8	PDIP	Dual Micropower Precision Low-Voltage Operational Amplifier	TLC1078IP	145-9736●	4.580	3.120	2.320	2.200
1078	LT	8	DIP	Dual Precision Op Amp, LP	LT1078CN8#PBF	955-9680●	5.100	2.890	2.160	– –
1078	LT	8	SOIC	Dual, MicroPower Single Supply Operational Amplifier	LT1078S8#PBF	SMD 955-9698●	6.620	3.740	2.810	– –
1112	LT	8	DIP	Dual Low-Power Precision PicoAmp Input Op Amp	LT1112ACN8#PBF	113-6611●	6.430	3.630	2.690	– –
1112	LT	8	DIP	Dual, Low Power, Precision Operational Amp	LT1112CN8#PBF	955-9990●	4.440	2.510	1.890	– –
1112	LT	8	SOIC	Dual Low-Power Precision PicoAmp Input Op Amp	LT1112S8#PBF	SMD 956-0009●	4.820	2.730	2.040	– –
1124	LT	8	SOIC	Dual Low Noise High Speed Precision Op Amp	LT1124CS8#PBF	NEW SMD 166-3370●	7.000	5.240	4.200	3.500
1124	LT	8	DIP	Dual, Low Noise, High Speed, Precision Op Amp	LT1124CN8#PBF	133-0581●	6.620	3.740	2.810	2.470
1126	LT	8	DIP	Dual, Decompensated Low Noise, High Speed Precision Op Amp	LT1126CN8#PBF	133-0583●	6.020	3.420	2.810	2.470
1129	LT	8	DIP	Dual, 100MHz Current Feedback Amp	LT1229CN8#PBF	133-0625●	6.490	3.690	3.040	2.660
1151	LT	8	DIP	Dual Zero Drift Op Amp	LTC1151CN8#PBF	NEW 166-3602●	10.610	8.230	6.580	5.480

RL Re-reeling available

Farnell

Operational Amplifiers - continued

Dual - continued

Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+
1205 LT	16	SOIC	Op Amp, Dual	LT1205CS#PBF	SMD 133-0601	5.080	2.870	2.080	2.010
1211 LT	8	DIP	Dual, Single Supply Op Amp	LT1211CN8#PBF	133-0608	5.790	3.270	2.700	2.630
1211 LT	8	SOIC	14MHz Single Supply Dual Precision Op Amp	LT1211CS8#PBF	NEW SMD 166-3395	6.270	4.700	3.760	3.130
1213 LT	8	SOIC	28MHz Single Supply Dual Precision Op Amp	LT1213CS8#PBF.	NEW SMD 166-3397	6.270	4.700	3.760	3.130
1213 LT	8	DIP	Dual, Single Supply Op Amp	LT1213CN8#PBF	133-0610	5.790	3.270	2.360	2.250
1215 LT	8	SOIC	23MHz Single Supply Dual Precision Op Amp	LT1215CS8#PBF	NEW SMD 166-3398	6.270	4.700	3.760	3.130
1215 LT	8	DIP	Dual, Single Supply Op Amp	LT1215CN8#PBF	133-0612	5.790	3.270	2.360	2.300
1229 LT	8	SOIC	Dual Current Feedback Amplifier	LT1229CS8#PBF	SMD 956-0343	7.330	4.160	3.310	– –
1253 LT	8	SOIC	Video Op Amp, Dual	LT1253CS8#PBF	SMD 133-0629	3.970	2.340	1.780	1.740
1259 LT	14	SOIC	Dual, Current Feedback Op Amp with Shutdown	LT1259CS#PBF	SMD 133-0632	4.500	2.540	2.040	1.780
1259 LT	14	DIP	Dual, 130MHz Current Feedback Amp. With Shutdown	LT1259CN#PBF	113-6639	2.820	1.830	1.500	– –
1352 LT	8	SOIC	3MHz Single Supply Dual Precision Op Amp	LT1352CS8#PBF	NEW SMD 166-3408	7.750	5.810	4.650	3.880
1352 LT	8	DIP	Dual, 3MHz Operational Amp	LT1352CN8#PBF	956-0416	6.330	4.040	3.050	– –
1355 LT	8	SOIC	Dual 12MHz Op Amp	LT1355CS8#PBF	NEW SMD 166-3412	7.750	5.810	4.650	3.880
1355 LT	8	DIP	Dual 12MHz,400V/µs Operational Amplifier	LT1355CN8#PBF	956-0424	7.180	4.060	3.040	– –
1358 LT	8	DIP	Dual, 25MHz, 600V/µs Op Amp	LT1358CN8#PBF	133-0637	6.860	3.890	3.160	2.760
1361 LT	8	SOIC	Dual 50MHz Op Amp	LT1361CS8#PBF	NEW SMD 166-3413	6.390	4.790	3.840	3.200
1361 LT	8	DIP	Dual 50MHz, 800V/µs Operational Amplifier	LT1361CN8#PBF	956-0459	6.020	3.420	2.690	– –
1364 LT	8	SOIC	Dual 70MHz Op Amp	LT1364CS8#PBF	NEW SMD 166-3414	6.870	5.150	4.120	3.430
1364 LT	8	DIP	Dual, 70MHz, 1000V/µs Op Amp	LT1364CN8#PBF	133-0644	6.490	3.690	2.920	2.810
1365 LT	8	DIP	Micropower R/R O/P Op Amp and Reference	LT1635CN8#PBF	NEW 166-3455	3.200	2.490	1.990	1.660
1366 LT	8	DIP	Dual, Precision Rail-to-Rail Input and Output Operational Amp.	LT1366CN8#PBF	956-0475	6.620	3.740	2.770	– –
1368 LT	8	SOIC	Dual 400kHz R/R I/O Op Amp	LT1368CS8#PBF	NEW SMD 166-3415	6.390	4.790	3.840	3.200
1396 LT	8	MSOP	Dual,400MHz, Current Feedback Op Amp	LT1396CMS8#PBF	SMD 133-0648	3.860	3.010	2.450	2.150
1398 LT	16	SOIC	Dual, Current Feedback Op Amp with Shutdown	LT1398CS#PBF	SMD 133-0650	4.180	3.270	2.670	2.340
1413 LT	8	SOIC	Single Supply, Dual Precision Op Amp	LT1413S8#PBF	SMD 133-0653	4.160	2.350	1.770	1.670
1458 ST	8	PDIP	High performance dual op-amp with wide input common mode voltage range	MC1458N	136-6581	0.240	0.220	0.179	0.147
1458 FCH	8	DIP	Dual, Operational Amp	KA1458	347-6819▲	0.250	0.210	0.159	– –
1458 NSC	8	TO-5	Dual, Compensated Operational Amp. - (Two 741s)	LM1458H	121-6158	3.280	3.240	2.780	2.560
1458 NSC	8	SOIC	Dual, Compensated Operational Amp. - (Two 741s)	LM1458M	SMD 948-6844	0.500	0.410	0.370	0.360
1458 NSC	8	DIP	Dual Op Amp, Comp.	LM1458N	948-6852	0.580	0.470	0.440	0.430
1458 TI	8	SOIC	Dual General-Purpose Operational Amplifier	MC1458D	SMD 958-9821	0.320	0.270	0.220	– –
1458 TI	8	DIP	Dual, Compensated Operational Amp. - (Two 741s)	MC1458P	110-3044	0.280	0.240	0.159	– –
1469 LT	12	DFN	Dual 90MHz 16Bit Op Amp	LT1469IDF-2#PBF	NEW SMD 167-3554	11.210	8.540	7.170	5.980
1490 LT	8	DFN	Dual 200kHz R/R I/O Op Amp	LT1490ACDD#PBF	NEW SMD 166-3432	4.510	3.380	2.700	2.250
1490 LT	8	SOIC	Dual 200kHz R/R I/O Op Amp	LT1490ACS8#PBF	NEW SMD 166-3433	3.670	2.750	2.200	1.840
1490 LT	8	SOIC	Dual 200kHz R/R I/O Op Amp	LT1490IS8#PBF	NEW SMD 166-3435	4.820	3.620	2.890	2.410
1490 LT	8	DIP	Dual, MicroPower Rail to Rail Input and Output Operational Amplifier	LT1490ACN8#PBF	956-0530	3.390	2.230	1.830	– –
1490 LT	8	DIP	Dual, MicroPower Rail to Rail Input and Output Operational Amplifier (IND TEMP)	LT1490AIN8#PBF	956-0548	4.060	2.630	2.030	– –
1490 LT	8	MSOP	Dual, Micropower, Rail-to-Rail Input and Output Op Amp.	LT1490ACMS8#PBF	SMD 133-0662	4.060	3.170	2.610	2.270
1490 LT	8	MSOP	Dual, Micropower, Rail-to-Rail Input and Output Op Amp.	LT1490AHMS8#PBF	SMD 133-0663	4.960	3.890	3.170	2.780
1490 LT	8	MSOP	Dual, Micropower, Rail-to-Rail Input and Output Op Amp.	LT1490AIMS8#PBF	SMD 133-0665	4.760	3.710	3.030	2.660
1490 LT	8	MSOP	Dual, Micropower, Rail-to-Rail Input and Output Op Amp.	LT1490CMS8#PBF	SMD 133-0666	4.060	3.170	2.610	2.270
1492 LT	8	DIP	Dual, Low Power, Single Supply Op Amp	LT1492CN8#PBF	133-0669	6.970	3.940	3.100	3.020
1495 LT	8	DIP	Dual R/R I/O Op Amp	LT1495CN8#PBF	NEW 166-3438	4.850	3.630	2.910	2.420
1495 LT	8	SOIC	Dual, Precision Rail-to-Rail Input and Output Op Amp	LT1495CS8#PBF	SMD 133-0671	5.080	2.870	2.390	2.260
1497 LT	16	SOIC	Dual, 125mA, 50MHz, Current Feedback Op Amp	LT1497CS#PBF	SMD 133-0673	4.980	3.890	3.210	3.120
1498 LT	8	SOIC	10MHz Dual R/R I/O Precision C-Load Op Amp.	LT1498CS8#PBF.	NEW SMD 166-3439	6.390	4.790	3.840	3.200
1498 LT	8	SOIC	10MHz Dual R/R I/O Precision C-Load Op Amp.	LT1498IS8#PBF	NEW SMD 166-3440	6.620	4.970	3.970	3.310
1498 LT	8	DIP	Dual, Rail-to-Rail Input and Output, Precision C-Load Op Amp.	LT1498CN8#PBF	133-0674	6.140	3.470	2.500	2.360
1558 NSC	8	TO-5	Dual, Compensated Operational Amp	LM1558H	121-6159	4.100	3.460	3.010	2.660
1630 LT	8	SOIC	Dual 30MHz R/R I/O Op Amp	LT1630CS8#PBF	NEW SMD 166-3453	6.390	4.790	3.840	3.200
1630 LT	8	DIP	Dual, Rail-to-Rail Input and Output Precision Op Amp	LT1630CN8#PBF	133-0675	6.140	3.470	2.500	2.320
1632 LT	8	SOIC	Dual 45MHz R/R I/O Op Amp	LT1632CS8#PBF	NEW SMD 166-3454	6.500	4.880	3.900	3.260
1632 LT	8	DIP	Op Amp, Dual	LT1632CN8#PBF	133-0677	6.260	3.540	2.550	2.450
1638 LT	8	SOIC	Dual 1.2MHz Over The Top Micropower R/R I/O Op Amp	LT1638CS8#PBF	NEW SMD 166-3461	3.760	2.910	2.330	1.940
1638 LT	8	SOIC	Dual 1.2MHz Over The Top Micropower R/R I/O Op Amp	LT1638HS8#PBF	NEW SMD 166-3462	5.020	3.760	3.010	2.510
1638 LT	8	MSOP	Dual, Micropower, Rail-to-Rail Input and Output Op Amp.	LT1638CMS8#PBF	SMD 133-0681	4.350	2.460	1.850	1.760
1673 LT	8	SOIC	Dual, Rail-to-Rail Input and Output Op Amp.	LT1673CS8#PBF	SMD 133-0684	3.280	2.570	2.090	1.800
1678 LT	8	SOIC	Dual Low Noise R/R Precision Op Amp.	LT1678IS8#PBF	NEW SMD 166-3468	5.090	3.810	3.050	2.540
1678 LT	8	SOIC	Dual, Low Noise, Rail-to-Rail, Precision Op Amp.	LT1678CS8#PBF	SMD 133-0689	4.730	2.870	2.260	1.990
1723 LT	8	MSOP	Dual, 200MHz Low Noise, Precision Op Amp	LT1723CMS8#PBF	SMD 133-0693	1.500	1.280	1.120	1.000
1739 LT	20	TSSOP	Dual 500mA, 200MHz xDSL Line Driver Amplifier	LT1739CFE#PBF	SMD 133-0695	4.790	4.140	3.640	3.250
1795 LT	20	SOIC	Dual 500mA/50MHz Current Feedback Line Driver Amplifier	LT1795CSW#PBF	SMD 133-0701	9.680	5.480	4.080	3.780
1801 LT	8	MSOP	Dual 80MHz, Rail-to-Rail Input and Output Precision Op Amp	LT1801CMS8#PBF	SMD 133-0703	3.900	2.200	1.730	1.710
1804 LT	8	SOIC	Dual 85MHz, Rail-to-Rail Input and Output Op Amp	LT1804CS8#PBF	SMD 133-0707	3.660	2.070	1.660	1.450
1807 LT	8	SOIC	325MHz Dual R/R I/O Low Distortion & Noise Precision Op Amp.	LT1807CS8#PBF	NEW SMD 166-3511	6.500	4.880	3.900	3.260
1807 LT	8	MSOP	Dual, Rail-to-Rail Input and Output, Low Distortion, Op Amp	LT1807CMS8#PBF	SMD 133-0710	6.550	5.130	4.200	3.670
1810 LT	8	MSOP	Op Amp, Dual, 320 MHz	LT1810CMS8#PBF	SMD 133-0712	5.210	4.080	3.330	2.920
1813 LT	8	MSOP	Op Amp, Dual, 100 MHz	LT1813DMS8#PBF	SMD 133-0714	1.790	1.410	1.140	1.000
1816 LT	8	MSOP	Dual 220MHz Op Amp with Programmable Supply Current	LT1816IMS8#PBF	NEW SMD 166-3512	3.410	2.550	2.040	1.700
1816 LT	8	MSOP	Op Amp, Dual	LT1816CMS8#PBF	SMD 133-0719	2.250	1.720	1.350	1.250
1819 LT	8	SOIC	400MHz 9mA Dual Op Amp	LT1819CS8#PBF	NEW SMD 166-3515	3.030	2.270	1.820	1.510
1819 LT	8	SOIC	400MHz 9mA Dual Op Amp	LT1819IS8#PBF	NEW SMD 166-3516	3.610	2.710	2.170	1.810
1819 LT	8	MSOP	Op Amp, Dual	LT1819CMS8#PBF	SMD 133-0723	2.880	2.260	1.850	1.610
1852 ST	8	SOIC	Dual, MicroPower, 1.8V, 120µA/Amp., Rail-to-Rail I/O, Op. Amp.	TS1852ID	SMD 109-4360	1.420	1.200	1.010	0.860
1852 ST	8	DIP	Dual, MicroPower, 1.8V, 120µA/Amp., Rail-to-Rail I/O, Op. Amp	TS1852IN	109-4362	1.430	1.210	1.020	0.860
1872 ST	8	SOIC	Dual, Low Power, 1.8V, 400µA, Rail-to-Rail I/O, Op. Amp.	TS1872ID	SMD 109-4363	1.360	1.060	0.840	0.730
1872 ST	8	SOIC	Dual, Low Power, 1.8V, 400µA, Rail-to-Rail I/O, Op. Amp.	TS1872ID.	SMD 332-6536▲	0.660	0.630	0.610	0.590
1872 ST	8	DIP	Dual, Low Power, 1.8V, 400µA, Rail-to-Rail I/O, Op. Amp.	TS1872IN	332-6524▲	1.240	1.030	0.920	0.800
1881 LT	8	SOIC	Op Amp, Dual	LT1881CS8#PBF	SMD 133-0724	5.210	4.080	3.330	2.920
1884 LT	8	SOIC	Op Amp, Dual	LT1884CS8#PBF	SMD 133-0726	5.460	4.620	3.780	2.940
1886 LT	8	SOIC	Op Amp, Dual	LT1886CS8#PBF	SMD 133-0728	5.310	4.170	3.390	2.970
1969 LT	10	MSOP	Op Amp, Dual	LT1969CMS#PBF	SMD 133-0730	7.040	5.860	4.790	4.200
2012 NSC	8	SOIC	Dual Rail - Rail Output Op Amp	LMP2012MA	SMD 128-6777	2.820	1.820	1.330	– –
2012 NSC	8	MSOP	Dual, High Precision, Rail-to-Rail Output Operational Amplifier.	LMP2012MM	SMD 100-8038	3.850	2.610	2.130	– –
2022 TI	8	SOIC	Excalibur High-Speed Low-Power Precision Dual Operational Amplifier	TLE2022ACDG4	SMD 123-4708	2.130	1.570	1.210	1.080
2022 TI	8	SOIC	Excalibur High-Speed Low-Power Precision Dual Operational Amplifier	TLE2022AIDG4	SMD 123-4718	2.130	1.590	1.200	1.070
2022 TI	14	SOIC	Dual High Speed Op-Amp	TLE2022CDG4	SMD 123-4643	1.180	1.030	0.880	0.730
2022 TI	8	PDIP	Dual High Speed Op-Amp	TLE2022CPE4	123-4686	1.530	1.140	0.860	0.770
2022 TI	8	SOIC	Dual, Low Power Operational Amp. Output Current ±30mA. (IND TEMP).	TLE2022ID	SMD 110-2940	1.780	1.210	0.870	– –
2022 TI	8	DIP	Dual, Low Power Operational Amp. Output Current ±30mA. (IND TEMP).	TLE2022IPE4	113-5956	1.450	1.000	0.810	– –
2051 LT	8	SOIC	Dual Zero Drift Op Amp	LTC2051HVHS8#PBF	NEW SMD 166-3678	5.280	4.090	3.270	2.720
2051 LT	8	MSOP	Dual Zero Drift Op Amp	LTC2051HVIMS8#PBF	NEW SMD 166-3679	5.490	4.260	3.410	2.840
2078 LT	8	SOIC	Micropower Dual Single Supply Precision Op Amp	LT2078CS8#PBF	NEW SMD 166-3540	6.620	4.970	3.970	3.310
2078 LT	8	SOIC	Micropower Dual Single Supply Precision Op Amp	LT2078IS8#PBF	NEW SMD 166-3541	8.800	6.590	5.280	4.400
2107 TI	8	PDIP	Precision Dual Difet Op Amp	OPA2107AP	NEW 164-8692	9.960	8.150	7.470	6.750
2111 TI	8	PDIP	Dual Low Noise Difet Op Amp	OPA2111KP.	NEW 164-8693	10.450	8.540	7.830	7.080
2111 TI	8	PDIP	Dual 2MHz GBWP Low-Noise Difet Op Amp	OPA2111KP	NEW 156-4889	15.560	12.840	11.420	9.350

RL Re-reeling available

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+
2134	TI	14	SOIC	OP Amp, Instrumentation Dual Differential Line Receiver	INA2134UA	SMD 121-2422	3.420	2.320	1.730	– –
2142	TI	8	SOIC	Excalibur Low-Noise High-Speed Precision Dual Operational Amplifier.	TLE2142AID	SMD 145-9907●	3.110	2.120	1.580	1.500
2142	TI	8	SOIC	Excalibur Low-Noise High-Speed Precision Dual Operational Amplifier.	TLE2142ACDG4	SMD 123-4911●	2.960	2.190	1.680	1.480
2142	TI	8	SOIC	Dual Low Noise Op-Amp	TLE2142CDG4	SMD 123-4654●	1.740	1.280	0.980	0.860
2142	TI	8	PDIP	OP Amp, Dual.	TLE2142CP	845-4779●	1.890	1.290	0.930	– –
2142	TI	8	SOIC	OP Amp, Dual.	TLE2142ID	SMD 845-4787●	1.770	1.430	1.040	– –
2177	ADI	8	MSOP	Precision Dual Low Noise Low Input Bias Current Op Amp	OP2177ARMZ-R2	NEW SMD 165-1301●	3.010	2.320	1.900	1.750
2177	ADI	8	SOIC	Precision, Dual, Low Noise Low Input Bias Current Operational Amplifiers.	OP2177ARZ	SMD 999-4238●	2.830	2.010	1.510	– –
2202	TI	14	SOIC	Advanced LinCMOS(TM) Low-Noise Precision Dual Operational Amplifier	TLC2202ACD	SMD 145-9742●	4.670	3.180	2.370	2.250
2202	TI	14	SOIC	Advanced LinCMOS(TM) Low-Noise Precision Dual Operational Amplifier	TLC2202AID	SMD 145-9743●	4.860	3.310	2.460	2.340
2202	TI	14	SOIC	Dual Low-Noise Precision Rail-To-Rail Operational Amplifier	TLC2202CD	SMD 145-9744●	4.470	3.050	2.270	2.150
2227	TI	8	PDIP	Dual High Precision Low Noise Op Amp	OPA2227PA.	NEW 164-8694●	2.540	2.030	1.690	1.530
2227	TI	8	SOIC	OP Amp High Precision Low Noise	OPA2227UAE4	SMD 120-6937●	3.400	2.540	1.930	– –
2227	TI	8	SOIC	OP Amp High Precision Low Noise	OPA2227UE4	SMD 120-6936●	5.270	4.390	3.950	– –
2227	TI	8	PDIP	Dual 8MHz GBWP High Precision Low Noise Op Amp	OPA2227PA	NEW 156-4892●	3.560	2.940	2.610	2.130
2228	BB	8	DIP	Dual, Low Noise, High Precision Amp., 33MHz Bandwidth (IND TEMP)	OPA2228PA..	109-7467	3.740	2.620	2.190	– –
2228	TI	8	SOIC	OP Amp Dual HI SPD HI PREC Low Noise.	OPA2228U..	SMD 846-7587	3.940	3.280	2.950	– –
2228	TI	8	SOIC	OP Amp Dual HI SPD HI PREC Low Noise.	OPA2228UA	SMD 121-2434●	3.520	2.400	1.790	– –
2234	TI	8	SOIC	OP Amp,Dual,Single Supply	OPA2234UA	SMD 121-2435	1.800	1.500	1.460	– –
2237	TI	8	SOIC	Single-Supply Operational Amplifiers MicroAmplifier(TM) Series	OPA2237UA	SMD 145-9561●	2.010	1.370	0.980	0.920

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	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
2241	TI	8	DIP	Dual, MicroPower, Single Supply (25μA, 5Volt) Amp. (IND TEMP)...	OPA2241PAG4	121-4362●	2.840	2.370	2.010	– –	– –
2241	TI	8	SOIC	OP Amp uPWR BIPOLAR Dual	OPA2241UA	SMD 121-2437●	2.840	2.370	2.010	– –	– –
2242	TI	8	SOIC	Op Amp, Rail-Rail I/O Dual.	TLV2242ID	SMD 845-4949●	1.180	0.970	0.840	– –	– –
2244	TI	8	VSSOP	OP Amp Dual Single Supply	OPA2244EA/250G4	SMD 120-6939●	1.210	1.010	0.840	– –	– –
2244	BB	8	DIP	Dual, MicroPower, Single Supply (40μA, 2.2V to 36V) Amp. (IND TEMP)	OPA2244PA	110-6189	1.020	0.790	0.630	– –	– –
2244	TI	8	SOIC	OP Amp,Dual Single Supply	OPA2244UA	SMD 121-2438●	0.840	0.710	0.580	– –	– –
2252	TI	8	SOIC	RAIL-TO-RAIL Dual Operational Amplifier	TLC2252AIDG4	SMD 123-4812●	0.810	0.710	0.610	0.510	0.410
2252	TI	8	SOIC	Dual RAIL-TO-RAIL MICROPower Operational Amplifier	TLC2252CDG4	SMD 123-4770●	1.110	0.830	0.630	0.560	0.510
2252	TI	8	SOIC	Dual RAIL-TO-RAIL MICROPower Operational Amplifier	TLC2252CDRG4	SMD 128-7647●	1.110	0.890	0.680	0.560	0.510
2252	TI	8	SOIC	Dual RAIL-TO-RAIL MICROPower Operational Amplifier	TLC2252IDG4	SMD 123-4958●	0.810	0.710	0.610	0.510	0.410
2252	TI	8	SOIC	Low-Voltage RAIL-TO-RAIL Dual Operational Amplifier	TLV2252AIDG4	SMD 123-4806●	0.940	0.710	0.540	0.450	0.430
2252	TI	8	SOIC	Dual Rail\Rail Op-Amp	TLV2252IDG4	SMD 123-4662●	1.200	0.890	0.670	0.610	0.550
2262	TI	8	SOIC	Dual Advanced LinCMOS(TM) Rail-To-Rail Operational Amplifier	TLC2262CD	SMD 145-9757●	1.270	0.870	0.620	0.580	0.530
2262	TI	8	PDIP	Advanced LinCMOS(TM) Rail-To-Rail Dual Operational Amplifier	TLC2262AIP	145-9755●	1.380	0.940	0.680	0.630	0.580
2262	TI	8	SOIC	Advanced LINCMOS(Tm) Rail-To-Rail Dual Operational Amplifier	TLC2262AIDG4	SMD 123-4721●	1.200	0.890	0.670	0.610	0.550
2262	TI	8	PDIP	OP Amp, Rail-Rail Dual	TLC2262CP	845-3799●	1.220	0.870	0.620	– –	– –
2262	TI	8	SOIC	Dual Advanced Lincmos(Tm) Rail-To-Rail Operational Amplifier	TLC2262IDG4	SMD 123-4840●	0.830	0.620	0.470	0.420	0.410
2262	TI	8	SOIC	Dual Rail-To-Rail Low-Voltage Low-Power Operational Amplifier	TLV2262IDG4	SMD 123-4903●	0.830	0.620	0.470	0.420	0.410
2262	TI	8	SOIC	Dual Rail-To-Rail Low-Voltage Low-Power Operational Amplifier	TLV2262QD	SMD 123-6560	1.240	0.890	0.630	0.590	0.540
2272	TI	8	SOIC	OP Amp, Rail-Rail Dual	TLC2272ACD	SMD 845-3802●	1.110	0.770	0.600	– –	– –
2272	TI	8	PDIP	OP Amp, Rail-Rail Dual	TLC2272ACP	845-4027●	1.230	0.840	0.600	– –	– –
2272	TI	8	SOIC	Dual CMOS Op-Amp, Rail/Rail Output	TLC2272AIDG4	SMD 123-4647●	1.150	0.870	0.660	0.580	0.530
2272	TI	8	PDIP	OP Amp, Rail-Rail Dual	TLC2272AIP	845-4035●	1.320	0.900	0.640	– –	– –
2272	TI	8	SOIC	OP Amp, Rail-Rail Dual	TLC2272CD	SMD 845-4043●	1.030	0.660	0.580	– –	– –
2272	TI	8	PDIP	OP Amp, Rail-Rail Dual	TLC2272CP	845-4051●	1.030	0.620	0.540	– –	– –
2272	TI	8	SOIC	Dual CMOS Op-Amp, Rail\Rail	TLC2272IDG4	SMD 123-4652●	1.090	0.810	0.610	0.550	0.500
2272	TI	8	PDIP	OP Amp, Rail-Rail Dual	TLC2272IP	845-4060●	1.110	0.810	0.600	– –	– –
2272	TI	8	SOIC	Dual Low Noise R/R O/P Op Amp	TLC2272CDR.	NEW SMD 164-8723●	0.830	0.660	0.550	0.520	0.490
2277	TI	8	SOIC	Dual 1MHz GBWP High Precision Op Amp	OPA2277UA	NEW SMD 156-4932●	3.190	2.630	2.330	1.900	1.600
2277	TI	8	PDIP	High Precision Operational Amplifiers	OPA2277P	145-9562●	6.090	4.150	3.350	3.230	3.010
2277	TI	8	SOIC	OP Amp Dual High Precision	OPA2277U	SMD 121-2439●	6.090	4.150	3.350	– –	– –
2277	TI	8	SOIC	Precision Op Amp	OPA2277UA/2K5E4	SMD 123-4768●	3.030	2.420	2.020	1.740	1.520
2322	TI	8	SOIC	Dual Low-Voltage uPower Operational Amplifier	TLV2322ID	SMD 145-9935●	1.500	1.020	0.730	0.680	0.630
2335	TI	8	SOIC	Dual CMOS Z-Drift Op-Amp	OPA2335AIDG4	SMD 123-4660●	3.270	2.610	2.170	1.850	1.630
2335	TI	8	SOIC	OP Amp, Single Supply CMOS	OPA2335AIDRG4	SMD 120-6940● RL	3.270	2.610	2.170	1.850	1.630
2336	TI	8	VSSOP	OP Amp ULTRA Low PWR CMOS	OPA2336E/250G4	SMD 120-6942●	2.190	1.830	1.590	– –	– –
2336	TI	8	VSSOP	OP Amp ULTRA Low PWR CMOS	OPA2336EA/250G4	SMD 120-6943●	1.980	1.630	1.230	– –	– –
2340	TI	8	VSSOP	OP Amp, Dual CMOS Single Supply	OPA2340EA/250G4	SMD 120-6944●	1.910	1.410	1.080	– –	– –
2342	TI	8	SOIC	Dual LinCMOS(TM) Low-Voltage High-Speed Operational Amplifier	TLV2342ID	SMD 145-9938●	2.120	1.440	1.040	0.970	0.890
2343	TI	8	MSOP	Dual, Single Supply, Rail-to-Rail Operational Amp	OPA2343EA/250	SMD 109-7492●	1.880	1.280	0.920	0.740	0.720
2343	BB	8	SOIC	Dual, Single Supply, Rail-to-Rail Operational Amp	OPA2343UA	SMD 110-6184	1.690	1.150	0.830	– –	– –
2344	TI	8	DIP	Dual, Low Power, Single-Supply, Rail-to-Rail Operational Amp. (IND TEMP).	OPA2344PA	109-7496●	1.460	1.200	1.000	– –	– –
2344	TI	8	SOIC	Dual, Low Power, Single-Supply, Rail-to-Rail Operational Amp. (IND TEMP).	OPA2344UA	SMD 110-6192●	2.300	1.560	1.160	– –	– –
2347	TI	8	SSOP	OP Amp, Dual UPWR SS RR	OPA2347EA/250G4	SMD 120-7096●	0.890	0.730	0.610	– –	– –
2348	TI	8	SSOP	OP Amp, Dual, High Bandwidth, MicroPower, RR, 1MHZ	OPA2348AIDCNTG4	SMD 120-7098●	0.730	0.580	0.490	0.400	0.360
2348	TI	8	SOIC	OP Amp, Dual, High Bandwidth, MicroPower, RR, 1MHZ	OPA2348AIDG4	SMD 120-7097●	0.670	0.570	0.490	– –	– –
2350	TI	8	VSSOP	OP Amp,Dual RR	OPA2350EA/250G4	SMD 120-7898●	3.640	2.910	2.310	– –	– –
2353	TI	8	MSOP	Dual, High Speed, Single Supply, Rail-to-Rail Operational Amp	OPA2353EA/250	SMD 109-7494●	3.520	2.400	1.790	1.530	1.490
2353	TI	8	SOIC	Dual, High Speed, Single Supply Rail-to-Rail Op. Amp	OPA2353UA	SMD 110-6187●	3.250	2.210	1.650	1.560	1.460
2354	TI	8	HSOP	OP Amp,Dual, Single Supply	OPA2354AIDDA	SMD 121-2444●	2.050	1.500	1.120	– –	– –
2356	TI	8	SOIC	OP Amp,200MHZ GBW, Dual	OPA2356AID	SMD 121-2445●	2.310	1.570	1.170	1.110	1.040
2361	TI	5	SOT-23	Single High-Performance, Low-Voltage Operational Amplifier	TLV2361CDBVR	SMD 128-7669●	0.510	0.380	0.260	0.196	0.194
2362	TI	8	SOIC	Dual High-Performance, Low-Voltage Operational Amplifier	TLV2362ID	SMD 145-9939●	0.610	0.470	0.350	0.300	0.280
2364	TI	8	MSOP	1.8V High CMR R/R I/O Op Amp	OPA2364IDGKT.	NEW SMD 164-8697●	2.210	1.770	1.480	1.330	1.300
2364	TI	8	SOIC	OP Amp,Single Supply RR	OPA2364AIDG4	SMD 120-7100●	1.930	1.540	1.280	1.110	0.950
2364	TI	8	SOIC	OP Amp,Single Supply RR	OPA2364ID	SMD 121-2446●	2.710	1.850	1.370	– –	– –
2365	TI	8	SOIC	1.8V Hi Speed Op Amp	OPA2365AIDG4	SMD 132-9587●	2.760	2.090	1.750	– –	– –
2372	TI	8	SOIC	Dual Op Amp, RR	TLV2372ID	SMD 845-5023●	0.760	0.650	0.560	– –	– –
2372	TI	8	VSSOP	OP Amp, Rail-Rail I/O	TLV2372IDGKG4	SMD 120-7290●	0.690	0.590	0.510	– –	– –
2372	TI	8	PDIP	OP Amp, Rail-Rail I/O	TLV2372IP	845-5031●	1.080	0.760	0.540	– –	– –
2374	TI	8	SOIC	OP Amp, Dual 6.5MHZ.	OPA2374AIDG4	SMD 120-7101●	0.950	0.810	0.670	– –	– –
2376	TI	8	SOIC	Dual Precision Op Amp R/R 5.5MHz GBWP	OPA2376AID	NEW SMD 156-0640●	1.850	1.630	1.180	1.090	0.910
2376	TI	8	MSOP	Dual Precision Op Amp R/R 5.5MHz GBWP	OPA2376AIDGKT	NEW SMD 156-0641●	1.870	1.800	1.290	1.190	1.000
2379	TI	8	SOIC	Dual 90kHz GBWP R/R I/O microPower Op Amp	OPA2379AID	NEW SMD 156-4904●	2.220	1.830	1.630	1.340	1.130
2382	TI	8	SOIC	OP Amp, Rail-Rail I/O	TLV2382ID	SMD 845-5082●	1.090	0.900	0.810	– –	– –
2402	TI	8	SOIC	Dual MicroPower RRIO Operational Amplifier with Wide Voltage Supply Range and High CMRR.	TLV2402CD	SMD 145-9948●	1.530	1.220	0.920	0.850	0.830
2402	TI	8	SOIC	OP Amp, Rail-Rail I/O Dual.	TLV2402IDG4	SMD 120-7292●	1.100	0.910	0.810	– –	– –
2422	TI	8	SOIC	Dual, Wide-Input-Voltage uPower, Rail-To-Rail Single-Supply Operational Amplifier.	TLV2422ID	SMD 145-9952●	1.580	1.080	0.770	0.720	0.660
2442	TI	8	SOIC	Advanced LINCMOS(Tm) Rail-To-Rail Output Wide-Input-Voltage Dual Operational Amplifier.	TLV2442CDG4	SMD 123-4926●	1.000	0.760	0.570	0.520	0.470
2452	TI	8	SOIC	Dual Micropower Rail-To-Rail Input/Output Op Amp	TLV2452CD	SMD 145-9967●	1.690	1.150	0.830	0.770	0.710
2452	TI	8	SOIC	OP Amp, Rail-Rail I/O Dual.	TLV2452AID	SMD 845-5139●	1.260	1.060	0.940	– –	– –
2462	TI	8	SOIC	Dual Low-Power, Rail-to-Rail Input/Output Operational Amplifier.	TLV2462AID	SMD 145-9985●	1.400	1.110	0.830	0.790	0.760
2462	TI	8	SOIC	OP Amp, Rail-Rail I/O Dual.	TLV2462CD	SMD 845-5155●	1.360	1.030	0.810	– –	– –
2462	TI	8	SOIC	Dual Op-Amp Rail\Rail	TLV2462IDG4	SMD 123-4669●	1.420	1.060	0.810	0.720	0.690

RL Re-reeling available

Operational Amplifiers - continued

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
2472	TI	8	SOIC	Dual Low-Power Rail-to-Rail Input/Output Op Amp	TLV2472AID	SMD 145-9998 ●	1.690	1.310	0.940	0.870	0.810
2472	TI	8	SOIC	Dual Low-Power Rail-to-Rail Input/Output Op Amp	TLV2472CD	SMD 145-9999 ●	1.690	1.150	0.830	0.770	0.710
2472	TI	8	SOIC	Dual Low-Power Rail-to-Rail Input/Output Op Amp	TLV2472ID	SMD 146-0000 ●	1.810	1.230	0.880	0.820	0.760
2473	TI	14	SOIC	Dual Precision CMOS Op Amp R/R 2.8MHz GBWP	TLV2473CD	NEW SMD 156-0647 ●	1.500	1.320	0.950	0.880	0.750
2544	TI	11	PFM	OP Amp, Power, Dual	OPA2544TG3	120-7103 ●	21.570	19.550	16.280	13.940	12.190
2622	TI	8	SOIC	800 uA/ch, 11MHz, RRO, Low Voltage, Dual Channel Op Amp	TLV2622ID	SMD 146-0007 ●	1.080	0.850	0.640	0.600	0.570
2674	TI	14	SOIC	OP Amp Dual, High Speed, High Output	OPA2674I-14DG4	SMD 120-7105 ●	2.300	1.840	1.540	1.310	1.140
2674	TI	8	SOIC	OP Amp Dual, High Speed, High Output	OPA2674IDG4	SMD 120-7107 ●	2.340	1.940	1.600	– –	– –
2677	TI	8	SOIC	SpeedPlus Dual Wideband High Output Current Op Amp	OPA2677U.	NEW SMD 164-8700 ●	2.110	1.690	1.410	1.300	1.240
2677	TI	8	HSOP	SpeedPlus(TM) Dual, Wideband, High Output Current Operational Amplifier	OPA2677H	SMD 145-9576 ●	3.240	2.280	1.730	1.500	1.480
2690	TI	8	SOIC	OP Amp Dual Wideband VFB	OPA2690IDG4	SMD 120-7108 ●	3.950	3.150	2.640	2.270	1.980
2694	TI	8	SOIC	Dual, Wideband, Low Power, Current Feedback Operational Amplifier	OPA2694ID	SMD 145-9577 ●	3.320	2.330	1.770	1.550	1.520
2722	ST	8	MiniDIP	Low Drop Dual Power Operational Amplier	L2722	136-6569 ●	2.350	1.670	1.340	1.120	0.920
2735	TI	8	SOIC	OP Amp Single-Supply CMOS	OPA2735AIDG4	SMD 120-7109 ●	4.100	3.270	2.720	2.330	2.040
2743	TI	8	SOIC	12V, 7MHz, Rail-to-Rail I/O Dual Operational Amplifier	OPA2743UA	SMD 145-9583 ●	3.110	2.120	1.580	1.500	1.400
2762	TI	8	SOIC	Dual 1.8-V, Micro-power, Rail-to-Rail, Single Supply Amplifier	TLV2762CD	SMD 146-0022 ●	1.300	1.060	0.790	0.730	0.700
2772	TI	8	SOIC	Dual 2.7-V High-Slew-Rate Rail-to-Rail Output Operational Amplifier	TLV2772AID	SMD 146-0033 ●	1.520	1.210	0.910	0.850	0.820
2772	TI	8	SOIC	OP Amp, Rail-Rail Dual, High Speed	TLV2772CD	SMD 845-5341 ●	1.450	1.160	0.940	– –	– –
2772	TI	8	SOIC	Dual 2.7-V High Slew Rate RAIL-TO-RAIL Output Operational Amp	TLV2772IDG4	SMD 123-4793 ●	1.760	1.300	0.990	0.890	0.800
2822	TI	8	SOIC	OP Amp, Dual, High SPD, Low Noise	OPA2822UG4	SMD 120-7112 ●	2.240	1.670	1.320	– –	– –
2889	TI	8	SOIC	Dual Op Amp with Voltage-Feedback 75MHz GBWP	OPA2889ID	NEW SMD 160-3400 ●	1.750	1.550	1.200	1.080	0.990
2890	TI	8	SOIC	Dual Op Amp with Voltage-Feedback	OPA2890ID	NEW SMD 160-3398 ●	1.750	1.550	1.270	1.080	0.990
2902	ST	14	SOIC	1.3MHz GBWP Quad Op Amp	LM2902D	NEW SMD 156-4337 ●	0.182	0.144	0.130	0.103	0.092
2904	NSC	8	SOIC	1MHz Dual Op Amp Single/Dual Supply	LM2904M/NOPB	NEW SMD 156-4750 ●	0.470	0.380	0.320	0.270	0.250
2904	ST	8	SOIC	1.1MHz GBWP Dual Op Amp	LM2904D	NEW SMD 156-4338 ●	0.168	0.144	0.117	0.103	0.092
2904	ST	8	SOIC	1.1MHz GBWP Dual Op Amp	LM2904DT	NEW SMD 156-4327 ●	0.168	0.130	0.117	0.103	0.078
2904	TI	8	SOIC	Dual Op Amp, GP	LM2904D	SMD 229-2907 ●	0.220	0.180	0.139	– –	– –
2904	ON	8	SOIC	Dual, Split or Single Supply, Operational Amp. (IND TEMP)	LM2904DG	SMD 121-1097 ●	0.410	0.220	0.190	– –	– –
2904	NSC	8	SOIC	Dual, Operational Amp	LM2904M	SMD 948-6860 ●	0.270	0.210	0.189	0.188	0.184
2904	ON	8	DIP	Dual, Split or Single Supply, Operational Amp. (IND TEMP)	LM2904NG	121-1131 ●	0.280	0.155	0.142	– –	– –
2904	ST	8	TSSOP	Dual, Low Power, Operational Amp. (IND TEMP/TSSOP)	LM2904PT	SMD 109-4244 ●	0.280	0.220	0.186	0.183	0.179
2904	ST	8	TSSOP	Dual, Low Power, Operational Amp. (IND TEMP/TSSOP)	LM2904PT.	SMD 302-4982 ▲	0.340	0.300	0.220	0.210	0.200
2904	TI	8	TSSOP	Dual General-Purpose Operational Amplifier	LM2904PW	SMD 838-9217 ●	0.143	0.118	0.089	– –	– –
3004	CIR	8	SOIC	Dual Precision Low-voltage Amplifier with high offset stability, open loop gain, CMRR and PSRR. Low noise.	CS3004-FSZ	SMD 150-6320 ●	2.030	1.380	1.030	– –	– –
3014	CIR	8	SOIC	Dual Precision Low-voltage Amplifier with high offset stability, open loop gain, CMRR and PSRR. Low noise.	CS3014-FSZ	SMD 150-6322 ●	2.030	1.380	1.030	– –	– –
3061	TI	8	SOIC	OP Amp, Current Feedback Single	THS3061D	SMD 845-2962 ●	5.250	3.580	2.890	– –	– –
3062	TI	8	SOIC	OP Amp, Current Feedback Dual	THS3062D	SMD 845-2970 ●	7.570	5.160	4.170	– –	– –
3092	TI	8	SOIC	OP Amp, Current Feedback	THS3092D	SMD 845-3012 ●	6.950	4.740	3.820	– –	– –
3102	INTS	14	SOIC	Dual Differential Amplifier For Low Power Applications Up to 500MHz	CA3102MZ	NEW SMD 156-2069 ●	6.720	5.040	4.030	3.360	2.880
3202	TI	8	SOIC	OP Amp, Current Feedback 2.0GHZ	THS3202D	SMD 845-3080 ●	5.170	3.520	2.840	– –	– –
3202	TI	8	VSSOP	OP Amp, Current Feedback 2.0GHZ	THS3202DGK	SMD 845-3098 ●	5.170	3.520	2.840	– –	– –
3202	TI	8	HTSSOP	OP Amp, Current Feedback 2.0GHZ	THS3202DGN	SMD 845-3101 ●	5.170	3.520	2.840	– –	– –
3232	FCH	8	SOIC	Dual, High Speed, Rail to Rail Amplifier	FHP3232IM8X	SMD 149-5445 ●	0.920	0.660	0.610	0.520	0.490
3702	TI	8	VSSOP	OP Amp, Rail-Rail Dual	TLV3702IDGKG4	SMD 120-7300 ●	1.240	1.040	0.920	– –	– –
4012	TI	8	SOIC	OP Amp, 290-MHZ Dual	THS4012CD	SMD 845-3128 ●	4.710	3.210	2.390	– –	– –
4012	TI	8	SOIC	OP Amp, 290-MHZ Dual	THS4012ID	SMD 845-3136 ●	4.910	3.350	2.490	– –	– –
4016	MAX	8	SOIC	150MHz 3.3V/5V Operational Amp With Rail-to-Rail outputs	MAX4016ESA+	SMD 972-5849 ●	2.470	1.740	1.330	– –	– –
4022	TI	8	SOIC	OP Amp, 350-MHZ Dual	THS4022ID	SMD 845-3160 ●	6.680	4.550	3.680	– –	– –
4032	TI	8	SOIC	OP Amp, 100-MHZ	THS4032CD	SMD 845-3209 ●	4.630	3.160	2.550	– –	– –
4032	TI	8	SOIC	OP Amp, 100-MHZ	THS4032ID	SMD 845-3217 ●	4.810	3.280	2.650	– –	– –
4038	MAX	8	MicroMax	4kHz GBWP R/R O/P Dual Op Amp	MAX4038EUA+	NEW SMD 160-9587 ●	0.940	0.840	0.720	0.630	0.560
4039	MAX	10	MicroMax	4kHz GBWP R/R O/P Dual Op Amp with 1.2V Buffered Reference	MAX4039EUB+	NEW SMD 160-9588 ●	1.150	1.010	0.880	0.780	0.680
4042	MAX	8	SOIC	Dual, MicroPower Rail-to-Rail Input/output Operational Amp. (IND TEMP)	MAX4042EUA+	SMD 972-3986 ●	1.680	1.180	0.900	– –	– –
4042	TI	8	SOIC	OP Amp, 165-MHZ Dual	THS4042CD	SMD 845-3225 ●	5.790	3.950	3.190	– –	– –
4062	TI	8	SOIC	Dual 180MHz High Speed Operational Amplifier	THS4062CD	SMD 110-2963 ●	3.920	2.660	1.980	– –	– –
4062	TI	8	SOIC	OP Amp, 180-MHZ Dual	THS4062ID	SMD 845-3233 ●	4.100	2.800	2.080	– –	– –
4082	TI	8	SOIC	Dual, 175MHz Low-Power, High Speed Operational Amp. (0 to +70°C Temp. Range)	THS4082CDG4	SMD 121-4367 ●	3.520	2.630	2.170	– –	– –
4222	TI	8	MSOP	Low Distortion High Speed R/R O/P Op Amp	THS4222DGN.	NEW SMD 164-8719 ●	2.910	2.320	1.930	1.750	1.700
4253	MAX	10	SOIC	Dual, Low-Noise, Low-Distortion, Single Supply, Rail-to-Rail Operational Amp	MAX4253EUB+	SMD 972-4010 ●	2.140	1.520	1.210	– –	– –
4477	MAX	8	MicroMax	10MHz GBWP Dual Channel R/R O/P Unity Gain Op Amp	MAX4477AUA+	NEW SMD 161-0109 ●	1.530	1.260	1.040	0.880	0.800
4489	MAX	8	MicroMax	42MHz GBWP Dual Channel R/R O/P Op Amp	MAX4489AUA+	NEW SMD 161-0110 ●	1.530	1.260	1.040	0.880	0.800
4502	TI	8	SOIC	Advanced,Self-Calibrating, Precision, Dual Operational Amplifier	TLC4502ACD	SMD 145-9852 ●	3.710	2.530	1.880	1.790	1.670
4502	TI	8	SOIC	Advanced Linepic Self-Calibrating Precision Dual Operational Amplifier	TLC4502CDG4	SMD 123-5016 ●	3.400	2.510	1.930	1.710	1.530
4558	ST	8	SOIC	5.5MHz GBWP Dual Bipolar Op Amp	MC4558CD	NEW SMD 156-4342 ●	0.270	0.210	0.182	0.157	0.130
4558	TI	8	SOIC	Dual General-Purpose Operational Amplifier	RC4558D	SMD 958-9937 ●	0.340	0.240	0.160	– –	– –
4558	TI	8	DIP	Dual Op Amp, GP	RC4558P	110-6010 ●	0.350	0.240	0.159	– –	– –
4581	TI	8	SOIC	Dual Low-Noise High-DRIVE Operational Amplifier	TL4581D	SMD 123-6537 ●	0.480	0.350	0.270	0.250	0.210
4841	ADI	8	MSOP	Dual Low Power, Low Noise and Distortion, Rail-to-Rail Output Amplifier	ADA4841-2YRMZ	SMD 127-4194 ●	4.850	3.300	2.670	2.570	2.390
4841	ADI	8	SOIC	Dual Low Power, Low Noise and Distortion, Rail-to-Rail Output Amplifier	ADA4841-2YRZ	SMD 127-4192 ●	4.850	3.300	2.670	2.570	2.390
4850	ADI	16	LFCSP	Dual, High Speed, Rail-to-Rail Output Op Amp With UltraLow Power-Down	ADA4850-2YCPZ-R2	SMD 107-8232 ●	1.410	1.050	0.850	– –	– –
4851	ADI	8	MSOP	Op Amp,Rail-Rail O/P,Dual	ADA4851-2YRMZ	SMD 133-3267 ●	1.940	1.320	0.950	0.880	0.810
5260	INTS	8	SOIC	Dual 3MHz BiMOS Microprocessor Op Amp with MOSFET Input/CMOS Output	CA5260MZ	NEW SMD 156-2075 ●	3.520	2.650	2.110	1.760	1.510
5532	FCH	8	DIP	Dual, High Performance, Low Noise Operational Amplifier	KA5532	347-6984 ▲	0.600	0.440	0.260	– –	– –
5532	TI	8	SOIC	OP-Amp Dual Low Noise	NE5532AD	SMD 110-3060 ●	0.540	0.420	0.350	0.300	0.270
5532	TI	8	DIP	Dual Op Amp, Comp.	NE5532AP	110-6091 ●	0.700	0.450	0.320	– –	– –
5532	TI	8	SOIC	Dual Low-Noise High-Speed Audio Operational Amplifier	NE5532D	SMD 958-9856 ●	0.470	0.390	0.330	– –	– –
5532	TI	8	DIP	Dual Op Amp, Comp.	NE5532P	110-6092 ●	0.510	0.330	0.230	– –	– –
6001	LT	8	MSOP	Dual 1.8V, 13uA Precision Rail-to-Rail Op Amp	LT6001IMS8#PBF	SMD 143-2094 ●	2.690	1.580	1.270	– –	– –
6002	MCHIP	8	PDIP	OP Amp,1.8V,IMHZ,Dual	MCP6002-I/P	129-2245 ●	0.360	0.250	0.200	– –	– –
6011	LT	8	SOIC	Dual 135µA R/R O/P Precision Op Amp	LT6011CS8#PBF	NEW SMD 166-3583 ●	3.020	2.340	1.870	1.570	1.400
6011	LT	8	SOIC	Dual, Rail-to-Rail Output Precision Op Amp	LT6011ACS8#PBF	SMD 133-0740 ●	3.950	3.100	2.520	2.210	1.950
6011	LT	8	MSOP	Dual, Rail-to-Rail Output Precision Op Amp	LT6011CMS8#PBF	SMD 133-0741 ●	2.990	2.340	1.910	1.680	1.480
6014	LT	8	SOIC	Dual 145µA R/R O/P Precision Op Amp	LT6014IS8#PBF	NEW SMD 166-3584 ●	3.470	2.700	2.160	1.790	1.610
6014	LT	8	SOIC	Dual, Rail-to-Rail Output Precision Op Amp	LT6014ACS8#PBF	SMD 133-0747 ●	3.950	3.100	2.520	2.210	1.950
6014	LT	8	SOIC	Dual, Rail-to-Rail Output Precision Op Amp	LT6014CS8#PBF	SMD 133-0748 ●	2.990	2.340	1.910	1.680	1.480
6022	MCHIP	8	SOIC	Dual Rail-to-Rail Input/Output, 10MHz Op Amp	MCP6022-I/SN	SMD 143-9415 ●	1.150	0.680	0.580	– –	– –
6032	MCHIP	8	SOIC	Dual 0.9 uA, High Precision Op Amp	MCP6032-E/SN	SMD 143-6022 ●	0.760	0.520	0.400	– –	– –
6042	NSC	8	SOIC	Dual, CMOS MicroPower Operational Amp., Supply Current=10µA/Amp., Vos=6mV mAx. (IND TEMP)	LMC6042IM	SMD 949-4600 ●	1.930	1.310	1.070	– –	– –
6042	NSC	8	DIP	Dual, CMOS MicroPower Operational Amp., Supply Current=10µA/Amp., Vos=6mV mAx. (IND TEMP)	LMC6042IN	949-4618 ●	1.930	1.310	1.070	– –	– –
6078	LT	10	DFN	Micropower Precision Dual CMOS R/R I/O Op Amp	LTC6078IDD#PBF	NEW SMD 166-3741 ●	3.110	2.410	1.930	1.610	1.440
6078	LT	8	MSOP	Micropower Precision Dual CMOS R/R I/O Op Amp	LTC6078IMS8#PBF	NEW SMD 166-3742 ●	3.110	2.410	1.930	1.610	1.440
6081	LT	8	MSOP	Precision Dual CMOS Rail-to-Rail Input/Output Amplifier	LTC6081IMS8#PBF	SMD 143-2122 ●	3.970	2.560	2.020	– –	– –
6132	NSC	8	SOIC	Dual, Low-Power 10MHz Rail-to-Rail Input/Output Operational Amp. (IND TEMP)	LM6132AIM	SMD 949-0043 ●	2.900	1.730	1.380	– –	– –
6132	NSC	8	SOIC	Dual, Low Power 10MHz Rail-to-Rail Input/Output Operational Amp. (IND TEMP)	LM6132BIM	SMD 949-0019 ●	2.250	1.350	1.070	– –	– –
6152	NSC	8	SOIC	75MHz GBWP Dual R/R I/O Op Amp	LM6152ACM/NOPB	NEW SMD 156-4752 ●	3.230	2.630	2.160	1.840	1.690

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	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
6241	LT	8	SOIC	Dual 18MHz Low Noise R/R CMOS Op Amp	LTC6241HVIS8#PBF	NEW SMD 166-3746	4.480	3.470	2.780	2.320	2.080
6142	MCHIP	8	PDIP	Dual 600nA, Non-Unity Gain Rail-to-Rail Input/Output Op Amp	MCP6142-I/P	143-9422	0.620	0.430	0.350	– –	– –
6142	MCHIP	8	SOIC	Dual 600nA, Non-Unity Gain Rail-to-Rail Input/Output Op Amp	MCP6142-I/SN	SMD 143-9423	0.620	0.430	0.350	– –	– –
6142	NSC	8	SOIC	Dual, High Speed, Low Power, 17MHz Rail-to-Rail, Input-Output Operational Amp. Vos=1V, Av=100. (IND TEMP)	LM6142AIM	SMD 949-4561	4.470	2.660	2.120	– –	– –
6142	NSC	8	SOIC	Dual, High Speed, Low Power, 17MHz Rail-to-Rail, Input-Output Operational Amp. Vos=2.5V, Av=80. (IND TEMP)	LM6142BIM	SMD 949-4570	4.130	3.380	3.100	– –	– –
6142	NSC	8	DIP	Dual, High Speed, Low Power, 17MHz Rail-to-Rail, Input-Output Operational Amp	LM6142BIN	949-0515	4.490	3.270	2.620	2.100	1.980
6203	LT	8	SOIC	Low Noise Precision 100MHz Dual R/R I/O Op Amp	LT6203CS8#PBF	NEW SMD 166-3587	4.470	3.460	2.770	2.300	2.070
6203	LT	8	MSOP	Dual, 100MHz, Low Power Op Amp	LT6203CMS8#PBF	SMD 133-0756	4.850	2.820	2.270	2.000	1.790
6206	LT	8	MSOP	Dual, Single Supply, 100MHz Video Op Amp	LT6206CMS8#PBF	SMD 133-0758	1.990	1.210	0.960	0.900	0.870
6211	LT	10	MSOP	Dual, Programmable Supply Current, R-R Output, Current Feedback Op Amp	LT6211CMS#PBF	SMD 133-0760	2.880	2.260	1.850	1.610	1.430
6221	LT	8	SOIC	Dual 60MHz Op Amp	LT6221CS8#PBF	SMD 133-0761	3.500	1.980	1.640	1.430	1.310
6231	LT	8	SOIC	Dual, Rail-to-Rail Output Op Amp	LT6231CS8#PBF	SMD 133-0763	3.660	2.230	1.760	1.530	1.490
6232	MCHIP	8	PDIP	Dual 20uA, 300kHZ Rail-to-Rail Op Amp	MCP6232-E/P	143-9440	0.310	0.210	0.168	– –	– –
6232	MCHIP	8	SOIC	Dual 20uA, 300kHZ Rail-to-Rail Op Amp	MCP6232-E/SN	SMD 143-9441	0.310	0.210	0.168	– –	– –
6234	LT	8	SOIC	Dual, Rail-to-Rail Output Op Amp	LT6234CS8#PBF	SMD 133-0764	4.600	2.800	2.210	2.050	2.000
6242	MCHIP	8	PDIP	Dual 50uA, 550kHZ Rail-to-Rail Op Amp	MCP6242-E/P	143-9445	0.310	0.210	0.168	– –	– –
6242	MCHIP	8	SOIC	Dual 50uA, 550kHZ Rail-to-Rail Op Amp	MCP6242-E/SN	SMD 143-9446	0.310	0.210	0.168	– –	– –
6244	LT	8	MSOP	Dual 50MHz, Low Noise, Rail-to-Rail, CMOS Op Amp	LTC6244IMS8#PBF	SMD 143-2088	3.380	2.010	1.610	– –	– –
6272	MCHIP	8	PDIP	Dual 170uA, 2MHZ Rail-to-Rail Op Amp	MCP6272-E/P	143-9451	0.640	0.370	0.320	– –	– –
6272	MCHIP	8	SOIC	Dual 170uA, 2MHZ Rail-to-Rail Op Amp	MCP6272-E/SN	SMD 143-9452	0.640	0.370	0.320	– –	– –
6282	MCHIP	8	PDIP	Dual 450uA, 5MHZ Rail-to-Rail Op Amp	MCP6282-E/P	143-9458	0.640	0.460	0.360	– –	– –
6282	MCHIP	8	SOIC	Dual 450uA, 5MHZ Rail-to-Rail Op Amp	MCP6282-E/SN	SMD 143-9459	0.760	0.440	0.390	– –	– –
6292	MCHIP	8	PDIP	Dual 1mA, 10MHZ Rail-to-Rail Op Amp	MCP6292-E/P	143-9466	0.830	0.480	0.420	– –	– –
6292	MCHIP	8	SOIC	Dual 1mA, 10MHZ Rail-to-Rail Op Amp	MCP6292-E/SN	SMD 143-9468	0.690	0.490	0.390	– –	– –
6415	NSC	16	LLP	600 MHz Digital Controlled Variable Gain Amplifier	LMH6515SQ	SMD 147-1250	6.690	5.350	4.460	3.820	3.570
6462	NSC	8	SOIC	Dual, MicroPower, Rail-to-Rail Input and Output, CMOS Operational Amp., Supply Current=20µA/Amp., Vos=0.5mV mAx. (IND TEMP)	LMC6462AIM	SMD 949-4715	2.580	1.530	1.220	– –	– –
6462	NSC	8	DIP	Dual, MicroPower, Rail-to-Rail Input and Output, CMOS Operational Amp., Supply Current=20µA/Amp., Vos=0.5mV mAx. (IND TEMP)	LMC6462AIN	949-4588	2.900	1.970	1.610	– –	– –
6462	NSC	8	DIP	Dual, MicroPower, Rail-to-Rail Input and Output, CMOS Operational Amp	LMC6462BIN	949-3808	2.270	1.850	1.710	1.660	1.550
6482	NSC	8	MDIP	Dual 1.5 MHz CMOS R/R I/O Op Amp	LMC6482AIN/NOPB	NEW 156-4619	1.520	1.230	1.020	0.870	0.800
6482	NSC	8	MDIP	Dual 1.5 MHz CMOS R/R I/O Op Amp	LMC6482IN/NOPB	NEW 156-4620	1.210	0.980	0.820	0.690	0.630
6612	NSC	8	SOIC	345MHz BW Dual Channel R/R O/P Amplifier	LMH6612MA	NEW SMD 160-9184	3.240	2.590	2.360	2.160	1.860
6622	NSC	8	SOIC	Dual Low Noise Amplifier, 160MHz	LMH6622MA	SMD 128-6938	4.130	2.740	1.970	1.630	1.520
6622	NSC	8	Mini SOIC	Dual Wideband, Low Noise, 160MHz, Operational Amplifiers	LMH6622MM	SMD 131-2809	4.350	2.940	2.410	2.270	2.100
6626	NSC	8	SOIC	Dual/Ultra Low Noise Wideband Op Amp	LMH6626MA	SMD 818-0768	3.960	3.420	2.690	– –	– –
6626	NSC	8	MSOP	Single/Dual Ultra Low Noise Wideband Operational Amplifier	LMH6626MM	SMD 131-2604	5.100	3.460	2.830	2.660	2.470
6628	NSC	8	SOIC	Dual Low Noise Amplifier, 300MHz	LMH6628MA.	SMD 128-6939	3.170	2.090	1.510	1.250	1.180
6643	NSC	8	SOIC	Rail/Rail Output Dual Amplifier, 3V, 130MHz	LMH6643MA.	SMD 128-6941	1.580	1.050	0.760	0.630	0.590
6643	NSC	8	Mini SOIC	Low Power, 130MHz, 75mA Rail-to-Rail Output Amplifiers	LMH6643MM	SMD 131-2812	1.610	1.210	0.990	0.790	0.700
6646	NSC	8	SOIC	Rail/Rail Input & Output Dual Amplifier,2.7V,0.65mA	LMH6646MA.	SMD 128-6945	2.350	1.560	1.130	0.940	0.870
6646	NSC	8	Mini SOIC	2.7V, 650µA, 80MHz Rail-to-Rail Input and Output Amplifiers with Shutdown Option	LMH6646MM	SMD 131-2814	2.310	1.720	1.430	1.160	1.060
6655	NSC	8	Mini SOIC	Dual Low Power, 250 MHz, Low Noise Amplifiers	LMH6655MM	SMD 131-2817	2.040	1.550	1.270	1.000	0.970
6655	NSC	8	SOIC	Dual, Low Power, 250MHz Operational Amp	LMH6655MA	SMD 949-0159	1.600	1.100	0.900	– –	– –
6658	NSC	8	SOIC	270MHz Single Supply, Dual Amplifiers	LMH6658MA	SMD 818-0806	1.970	1.600	1.310	– –	– –
6672	NSC	8	SOIC	Dual, High output Current Operational Amp.	LMH6672MA	SMD 949-0140	3.340	2.730	2.510	– –	– –
6682	NSC	8	Mini SOIC	190MHz Single Supply, Dual Operational Amplifiers	LMH6682MM	SMD 131-2818	2.020	1.520	1.240	0.990	0.890
6715	NSC	8	SOIC	400MHz Small Signal BW Dual Video Op Amp	LMH6715MA/NOPB	NEW SMD 156-4715	3.300	2.720	2.420	2.180	1.830
6724	NSC	8	SOIC	370MHz Dual, 1mA Current Feedback Op Amp	LMH6724MA	SMD 818-0920	3.540	2.960	2.420	– –	– –
7322	NSC	8	MSOP	Dual 15MHz R/R I/O Op Amp High Output Current	LM7322MME	NEW SMD 166-3015	2.540	1.980	1.620	1.480	1.280
7322	NSC	8	SOIC	Dual 15MHz R/R I/O Op Amp High Output Current	LM7322MA	NEW SMD 166-3018	2.540	1.980	1.620	1.480	1.280
7322	NSC	8	MSOP	Dual 15MHz R/R I/O Op Amp High Output Current	LM7322MM	NEW SMD 166-3019	2.540	1.980	1.620	1.480	1.280
7372	NSC	8	SOP	High Output Current, Dual Op Amplifier	LM7372MR.	SMD 128-6929	3.310	2.670	2.430	2.050	1.910
7708	NSC	8	SOIC	Dual CMOS Input R/R I/O Decompensated Op Amp	LMP7708MA	NEW SMD 166-3001	4.110	3.080	2.470	2.240	1.960
7712	NSC	10	MSOP	Single and Dual Precision, 17 MHz, Low Noise, CMOS Input Amplifiers	LMP7712MM	SMD 131-2609	2.520	1.880	1.550	1.330	1.220
7716	NSC	10	MSOP	Dual Precision, 17 MHz, Low Noise, CMOS Input Amplifier	LMP7716MM	SMD 131-2822	2.920	2.180	1.800	1.430	1.300
7732	NSC	8	MSOP	Dual Low Noise Precision R/R I/O Op Amp	LMP7732MM	NEW SMD 166-3023	3.990	3.100	2.540	2.330	1.990
7732	NSC	8	MSOP	Dual Low Noise Precision R/R I/O Op Amp	LMP7732MME	NEW SMD 166-3024	3.990	3.100	2.540	2.330	1.990
7732	NSC	8	NSOIC	Low Noise Precision, RRIO Amplifier	LMP7732MA	SMD 149-5065	2.870	2.300	1.920	1.640	1.540
8008	ADI	8	SOIC	Dual Low Distortion, High Speed Amp	AD8008ARZ	SMD 862-1470	4.630	3.160	2.550	– –	– –
8012	ADI	8	SOIC	Dual, 350MHz Low Power Current Feedback Video Amp	AD8012ARZ	SMD 960-3719	4.970	3.400	2.530	– –	– –
8022	ADI	8	SOIC	Dual Low Noise, Low distortion, High speed Amp	AD8022ARZ	SMD 862-1497	4.600	3.130	2.530	– –	– –
8030	ADI	8	SOIC	125MHz Dual High Speed R/R Input/Output Amplifier	AD8030ARZ	NEW SMD 155-8391	2.490	2.040	1.830	1.660	1.280
8032	ADI	8	MSOP	2.7V 80MHz R/R I/O Dual Op Amp	AD8032ARMZ	NEW SMD 166-0973	3.990	3.110	2.540	2.320	1.940
8032	ADI	8	SOIC	2.7V 80MHz R/R I/O Dual Op Amp	AD8032BRZ	NEW SMD 166-0975	5.920	4.870	3.980	3.650	3.040
8032	ADI	8	DIP	Dual, 800µA/Amp., 80MHz, Rail-to-Rail, Input and Output Op. Amp.	AD8032ANZ	960-3972	4.050	2.760	2.050	– –	– –
8032	ADI	8	PDIP	2.7 V, 800 µA, 80 MHz Rail-to-Rail I/O Dual Amplifier	AD8032BNZ	143-8576	5.630	3.840	3.100	– –	– –
8039	ADI	8	SOIC	Dual Lo Power Voltage Feedback Amp	AD8039ARZ	SMD 158-1905	2.380	1.680	1.270	– –	– –
8052	ADI	8	MSOP	Dual High Speed, R/R Op Amp	AD8052ARMZ	NEW SMD 166-0978	3.260	2.540	2.090	1.900	1.590
8052	ADI	8	SOIC	Dual, High Speed, Rail-to-Rail, 3V/5V or ±5V operated, Operational Amp.	AD8052ARZ	SMD 942-5616	3.310	2.250	1.680	– –	– –
8056	ADI	8	SOIC	Dual 300MHz Voltage Feedback Op Amp	AD8056ARZ	NEW SMD 166-0981	3.260	2.540	2.090	1.900	1.590
8056	ADI	8	DIP	Dual, 300MHz Voltage Feedback Operational Amp With bandwidth and slew rate typical of Current Feedback Amps	AD8056ANZ	107-9308	3.830	2.620	1.590	– –	– –
8062	ADI	8	SOIC	Dual, 300MHz Rail-to-Rail Voltage feedback, Single Supply +2.7 to+8V, Op. Amp	AD8062ARZ	SMD 942-5837	3.310	2.250	1.680	– –	– –
8066	ADI	8	MSOP	Dual High Performance 145MHz FastFET Op Amp	AD8066ARMZ	NEW SMD 166-0987	4.690	3.650	2.980	2.740	2.280
8100	NSC	14	NSOIC	Programmable Gain Amplifier	LMP8100AMA	SMD 143-3159	11.730	9.390	7.820	6.660	6.080
8100	NSC	14	NSOIC	Programmable Gain Amplifier	LMP8100MA	SMD 143-3175	4.180	3.340	2.800	2.380	2.160
8262	NSC	8	Mini SOIC	RRIO, High Output Current & Unlimited Cap Load Op Amp in MSOP	LM8262MM	SMD 131-2797	1.690	1.280	1.050	0.850	0.830
8272	NSC	8	MSOP	Dual Rail-to-Rail High output Current Operational Amp.	LM8272MM	SMD 977-9183	2.800	1.930	1.550	– –	– –
8397	ADI	8	SOIC-Epad	Dual, Rail-to-Rail Output, High Output Current Amplifier	AD8397ARDZ	SMD 107-8283	4.040	2.940	2.250	– –	– –
8397	ADI	8	SOIC	Dual, Rail-to-Rail Output, High Output Current Amplifier	AD8397ARZ	SMD 107-8284	4.910	3.350	2.490	– –	– –
8527	ADI	8	SOIC	Low Voltage, High Slew Rate, Low Noise, 7 MHz Rail-to-Rail Op Amp, Dual	AD8527ARZ	SMD 999-4254	0.840	0.560	0.460	– –	– –
8539	ADI	8	SOIC	Dual, Low Power, Precision, Auto-Zero Op Amp	AD8539ARZ	SMD 149-8686	2.620	1.900	1.500	– –	– –
8552	ADI	8	TSSOP	Dual Zero-Drift Single-Supply R/R I/O Op Amp	AD8552ARUZ	NEW SMD 166-0994	3.660	2.840	2.320	2.140	1.780
8552	ADI	8	SOIC	Dual Op.Amp, RR, ZD	AD8552ARZ	SMD 942-5845	2.460	1.960	1.740	– –	– –
8572	ADI	8	SOIC	Dual, Zero-Drift, Single Supply, Rail-to-Rail, Input and Output Op.Amp., 750µA/Amp	AD8572ARZ	SMD 960-4022	4.120	2.810	2.090	– –	– –
8599	ADI	8	SOIC	Dual, Ultralow Distortion, Ultralow Noise Op Amp	AD8599ARZ	SMD 143-8872	6.970	4.800	3.870	– –	– –
8606	ADI	8	MSOP	Dual Precision Low Noise CMOS R/R I/O Op Amp	AD8606ARMZ-R2.	NEW SMD 166-0997	2.520	1.960	1.610	1.480	1.230
8607	ADI	8	SOIC	Precision MicroPower Low Noise CMOS Rail-to-Rail Input/Output Operational Amplifier	AD8607ARZ	SMD 158-1950	1.670	1.300	1.090	– –	– –
8616	ADI	8	SOIC	Precision 20 MHz CMOS Rail-to-Rail Input/Output Operational Amplifier	AD8616ARZ	SMD 158-1952	1.940	1.500	1.310	– –	– –
8629	ADI	8	MSOP	Dual, Zero Drift, Single-Supply, Rail-to-Rail I/O Op Amp	AD8629ARMZ	SMD 107-8277	3.380	2.450	1.870	– –	– –
8646	ADI	8	SOIC	24 MHz Rail-to-Rail Dual Amplifier	AD8646ARZ	SMD 144-0771	0.970	0.860	0.700	– –	– –
8652	ADI	8	MSOP	Dual, Low Noise, Low Distortion, Rail-to-Rail I/O,Precision CMOS Op Amp	AD8652ARMZ-R2	SMD 107-8268	4.690	3.430	2.620	– –	– –
8662	ADI	8	SOIC	Low Noise, Precision 16 V CMOS, Rail-to-Rail Op-Amp	AD8662ARZ	SMD 127-4215	3.210	2.270	1.690	1.600	1.500
8666	ADI	8	SOIC	16 V, 4 MHz Rail-to-Rail Output Amplifier 14-Lead	AD8666ARZ	SMD 127-4214	1.860	1.350	1.040	0.980	0.900
8676	ADI	8	SOIC	Ultra Precision, 36 V, 2.8 nV/rtHz Dual Rail-to-Rail Output Op Amp	AD8676BRZ	SMD 138-9165	4.120	2.970	2.280	2.160	2.000
8672	ADI	8	SOIC	Precision, Very Low Noise, Low Input Bias Current Operational Amplifier	AD8672ARZ	SMD 158-1957	2.810	2.170	1.800	– –	– –
8676	ADI	8	NSOIC	Ultra Precision, 36 V, 2.8 nV/√Hz Dual Rail-to-Rail Output Op Amp	AD8676ARZ	SMD 131-6453	3.940	2.690	2.000	1.900	1.780

RL Re-reeling available

Operational Amplifiers - continued

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	1+	10+	100+	250+	500+
							Price Each				
8692	ADI	8	MSOP	Dual, Low Noise, Rail-to-Rail Output CMOS Op Amp	AD8692ARMZ-R2	SMD 107-8263●	2.050	1.390	1.040	– –	– –
8698	ADI	8	MSOP	Dual, Precision, Rail-to-Rail Output Op Amp	AD8698ARMZ-R2	SMD 107-8259●	5.210	3.920	3.140	– –	– –
8698	ADI	8	SOIC	Dual, Precision, Rail-to-Rail Output Op Amp	AD8698ARZ	SMD 107-8260●	4.780	3.250	2.630	– –	– –
9916	MAX	8	SOT-23	1MHz GBWP R/R I/P & O/P Dual Op Amp	MAX9916EKA+T	NEW SMD 160-9593●	0.780	0.690	0.600	0.540	0.490
9917	MAX	10	MicroMax	1MHz GBWP R/R I/P & O/P Dual Op Amp	MAX9917EUB+	NEW SMD 160-9594●	0.780	0.690	0.600	0.540	0.490
33072	ON	8	DIP	Dual, High Performance Operational Amp. (AUTO TEMP)	MC33072PG	119-1841●	0.740	0.540	0.400	0.340	– –
33077	ON	8	SOIC	Dual, Low Noise Operational Amp. (IND TEMP)	MC33077DG	SMD 121-1116●	1.070	0.860	0.660	– –	– –
33172	ST	8	SOIC	2.1MHz GBWP Dual Bipolar Op Amp	MC33172DT	NEW SMD 156-4339●	0.440	0.360	0.310	0.270	0.220
33172	ON	8	SOIC	Dual, Low Power, Single Supply, Operational Amp	MC33172DG	SMD 966-5307●	0.730	0.470	0.390	0.300	– –
33172	ON	8	DIP	Dual, Low Power, Single Supply, Operational Amp	MC33172PG	966-4963●	0.740	0.560	0.410	0.340	– –
33178	ON	8	DIP	Dual, High Output Current, Low Power, Low Noise Operational Amp. (AUTO TEMP)	MC33178PG	966-6818●	0.820	0.610	0.490	0.380	– –
33202	ON	8	SOIC	Dual Op Amp, RR	MC33202DG	SMD 966-6672●	0.800	0.590	0.440	– –	– –
33202	ON	8	DIP	Dual, Single Supply Rail-to-Rail Input and Output Operational Amp.	MC33202PG	966-6680●	1.160	0.760	0.620	– –	– –
33272	ON	8	DIP	Dual, High Slew Rate Single Supply Operational Amp. (AUTO TEMP)	MC33272APG	966-6834●	1.370	0.880	0.760	0.670	– –
34072	ON	8	SOIC	Dual, High Performance Operational Amp.	MC34072DG	SMD 966-4416●	0.750	0.640	0.490	– –	– –
45048	ADI	8	SOIC	Rail-to-Rail Upstream ADSL Line Driver, Dual Op Amp	AD45048ARZ	SMD 107-8401●	4.400	3.180	2.450	– –	– –

Triple

414165

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	1+	10+	100+	250+	500+
							Price Each				
73	ST	14	SOIC	Triple, Wideband, Rail-to-Rail Video Op Amp With Standby	TSH73CD	SMD 108-6951●	2.47	1.83	1.55	1.43	1.35
73	ST	14	TSSOP	Triple, Wideband, Rail-to-Rail Video Op Amp With Standby	TSH73CPT	SMD 108-6952●	1.23	0.92	0.74	0.68	0.65
93	ST	14	SOIC	Triple, Low Power, High Speed Op Amp	TSH93ID	SMD 108-6957●	2.27	1.78	1.40	1.21	1.03
113	ST	14	SOIC	Triple, Low Noise, Large Bandwidth Op Amp With Standby	TSH113ID	SMD 108-6938●	2.59	2.23	1.62	1.46	1.40
113	ST	14	TSSOP	Wide Band, Low Noise Operational Amplifier	TSH113IPT	SMD 109-4962●	1.57	1.28	1.07	0.92	0.81
1260	LT	16	SOIC	Triple, Current Feedback Op Amp with Shutdown	LT1260CS#PBF	SMD 133-0633●	4.85	2.74	2.19	2.15	2.09
1399	LT	16	SOIC	Triple, 300MHz, Current Feedback Op Amp with Shutdown	LT1399CS#PBF	SMD 133-0651●	4.73	2.67	2.10	2.04	1.99
3692	TI	16	SOIC	OP Amp, Triple, Fixed Gain	OPA3692IDG4	SMD 120-7055●	4.60	3.83	3.24	– –	– –
3355	TI	14	TSSOP	Triple 200MHz Op Amp	OPA3355EA/250	NEW SMD 162-4413●	2.96	2.36	1.82	1.59	1.46
4018	MAX	14	SOIC	150MHz Triple Channel R/R O/P Unity Gain Op Amp	MAX4018ESD+	NEW SMD 161-0104●	2.96	2.44	2.01	1.69	1.57
4861	ADI	14	SOIC	High Speed, Triple Op-Amp	ADA4861-3YRZ	SMD 111-7874●	2.31	1.64	1.22	1.16	1.08
6738	NSC	16	SSOP	Very Wideband, Low Distortion Triple Op Amp	LMH6738MQ	SMD 818-0970●	4.50	3.81	3.08	– –	– –
6550	LT	10	MSOP	Triple, High Speed Video Op Amp	LT6550CMS#PBF	SMD 133-0768●	3.38	2.01	1.62	1.50	1.46
6553	LT	16	SSOP	Triple Video Op Amp	LT6553CGN#PBF	SMD 133-0771●	4.53	3.54	2.87	2.52	2.25
6554	LT	16	SSOP	Triple Video Buffer Op Amp	LT6554CGN#PBF	SMD 133-0772●	4.53	3.54	2.87	2.52	2.25
6555	LT	24	SSOP	Triple Video Multiplexer Op Amp, 650MHz	LT6555CGN#PBF	SMD 133-0773●	3.35	2.62	2.13	1.85	1.80
6556	LT	24	SSOP	Triple Video Multiplexer Op Amp, 750MHz	LT6556CGN#PBF	SMD 133-0774●	4.96	3.89	3.17	2.78	2.46
6557	LT	16	SSOP	Triple Video Op Amp with Input Bias Control, 500MHz	LT6557CGN#PBF	SMD 133-0775●	3.05	2.38	1.94	1.68	1.64
6558	LT	16	SSOP	Triple Video Op Amp with Input Bias Control, 550MHz	LT6558CGN#PBF	SMD 133-0776●	4.73	2.87	2.26	1.98	1.77
6559	LT	16	QFN	300MHz Triple Video Amplifier	LT6559CUD#PBF	SMD 132-9370●	1.73	0.99	0.81	0.76	0.73
6733	NSC	16	SSOP	Op Amp, Triple, Video	LMH6733MQ	SMD 133-3959●	5.13	4.11	3.45	2.95	2.58

Quad

414166

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	1+	10+	100+	250+	500+
							Price Each				
3	INTS	14	DIP	Quad, Operational Amp	HA3-4741-5	400-063	1.620	1.220	0.980	0.890	0.750
11	ADI	14	PDIP	Quad Matched 741-Type Operational Amplifiers	OP11EPZ	143-8686●	9.360	7.170	6.080	– –	– –
11	ADI	14	DIP	Quad, mAtched Operational Amp. - 741 type. Low offset Voltage	OP11GPZ	960-4774●	4.540	3.260	2.510	2.470	– –
27	TI	14	SOIC	LINCMOS(TM) Precision Quad Operational Amplifier	TLC27L4ACDG4	SMD 123-4732●	0.460	0.340	0.260	0.220	0.210
27	TI	14	SOIC	LINCMOS(TM) Precision Quad Operational Amplifier	TLC27L4AIDG4	SMD 123-4765●	0.500	0.440	0.380	0.320	0.260
27	TI	14	SOIC	LINCMOS(TM) Precision Quad Operational Amplifier	TLC27L4BIDG4	SMD 123-5014●	0.470	0.410	0.350	0.290	0.230
27	TI	14	SOIC	Quad Precision Single SUPPLY UPower Operational Amplifier	TLC27L4IDG4	SMD 123-4706●	0.650	0.490	0.360	0.330	0.290
27	TI	14	PDIP	Quad Precision Single SUPPLY UPower Operational Amplifier	TLC27L4INE4	123-5005●	0.650	0.490	0.360	0.330	0.290
27	TI	14	SOIC	LINCMOS(TM) Precision Quad Operational Amplifier	TLC27M4ACDG4	SMD 123-4829●	0.590	0.450	0.330	0.300	0.270
27	TI	14	SOIC	Quad Precision Single SUPPLY Low-Power Operational Amplifier	TLC27M4IDG4	SMD 123-4755●	0.650	0.490	0.360	0.330	0.290
72	ST	8	SOIC	4MHz GBWP Dual J-FET Op Amp	TL072ACD	NEW SMD 156-4343●	0.380	0.310	0.290	0.230	0.195
72	ST	8	SOIC	4MHz GBWP Dual J-FET Op Amp	TL072CD	NEW SMD 156-4344●	0.230	0.195	0.168	0.144	0.117
74	TI	14	SOIC	OP Amp, RRIO Quad	TLC074IDR	SMD 845-3683●	1.250	1.020	0.730	– –	– –
74	ST	14	SOIC	Quad, Wideband, Rail-to-Rail Video Op Amp	TSH74CD	SMD 108-6953●	1.880	1.610	1.180	1.000	0.930
74	ST	14	TSSOP	Wide Band, Low Power Operational Amplifier With Standby Function	TSH74CPT	SMD 109-4972●	1.370	1.020	0.820	0.750	0.720
75	ST	16	SOT	Wide Band, Low Power Operational Amplifier With Standby Function	TSH75CDT	SMD 109-4973●	1.680	1.250	1.070	0.960	0.920
82	ST	8	PDIP	4MHz GBWP Dual J-FET Op Amp	TL082IN	NEW 156-4345●	0.310	0.260	0.220	0.182	0.157
84	TI	14	SOIC	Quad Wide Bandwidth High Output Drive Single Supply Op Amp	TLC084CD	NEW SMD 164-8721●	1.310	1.060	0.880	0.790	0.770
84	ST	14	SOIC	4MHz GBWP Quad J-FET Op Amp	TL084CD	NEW SMD 156-4346●	0.310	0.260	0.220	0.182	0.157
84	ST	14	SOIC	4MHz GBWP Dual J-FET Op Amp	TL084ID	NEW SMD 156-4347●	0.360	0.300	0.270	0.210	0.182
84	ST	14	PDIP	4MHz GBWP Dual J-FET Op Amp	TL084IN	NEW 156-4348●	0.360	0.300	0.270	0.210	0.182
94	ST	16	SOIC	Quad, Low Power, High Speed Op Amp With Standby	TSH94ID	SMD 108-6958●	3.670	2.820	2.030	1.730	1.540
95	ST	16	SOIC	Quad, Low Power, High Speed Op Amp With Dual Standby	TSH95ID	SMD 108-6961●	2.630	2.090	1.490	1.220	1.130
102	TI	14	SOIC	OP Amp,Logarithmic	LOG102AID	SMD 121-2428●	7.320	6.540	5.910	– –	– –
104	ST	16	DIP	Quad, Operational Amp. and Programmable Voltage Ref. (IND TEMP)	TSM104IN..	163-119▲	0.300	0.290	0.280	0.270	0.260
114	ST	14	TSSOP	Wide Band, Low Noise Operational Amplifier	TSH114IPT	SMD 109-4963●	1.790	1.320	1.110	1.020	0.970
124	TI	14	SOIC	Quadruple Operational Amplifier	LM124D	SMD 145-9497●	0.500	0.380	0.300	0.260	0.230
124	NSC	14	DIP	Quad, Operational Amp. (MIL TEMP)	LM124J	399-978▲	9.360	6.750	5.710	5.070	3.800
148	TI	14	CDIP	Quad General-Purpose Operational Amplifier	LM148J	145-9501●	2.720	1.900	1.450	1.260	1.230
224	TI	14	SOIC	Quad Operational Amplifier	LM224AD	SMD 838-9152●	0.540	0.340	0.250	– –	– –
224	TI	14	SOIC	Quad Operational Amplifier	LM224D	SMD 838-9160●	0.184	0.156	0.111	– –	– –
224	ST	14	SOIC	Quad, Operational Amp. (IND TEMP)	LM224D	SMD 975-6639●	0.550	0.440	0.330	0.188	0.182
224	ON	14	SOIC	Quad, Operational Amp. (IND TEMP)	LM224DG	SMD 121-1091●	0.220	0.173	0.142	– –	– –
224	NSC	14	DIP	Quad, Operational Amp. (IND TEMP)	LM224J	400-105▲	4.890	3.170	2.700	2.630	2.560
224	ST	14	DIP	Quad, Operational Amp. (IND TEMP)	LM224N	975-5918●	0.670	0.440	0.330	0.188	0.182
224	TI	14	DIP	Quad Operational Amplifier	LM224NE4	120-6831●	0.182	0.156	0.110	– –	– –
224	ON	14	DIP	Quad, Operational Amp. (IND TEMP)	LM224NG	121-1137●	0.390	0.250	0.240	0.200	0.156
228	TI	8	PDIP	High Precision, Low Noise Operational Amplifiers	OPA228P	145-9564●	4.470	3.050	2.270	2.150	2.010
228	TI	8	SOIC	OP Amp Single Low Noise HI SPEED	OPA228U	SMD 121-2442●	4.470	3.050	2.270	– –	– –
248	TI	14	SOIC	Quadruple Operational Amplifier	LM248D	SMD 145-9507●	0.800	0.570	0.440	0.330	0.290
274	TI	14	SOIC	1.7 GBWP LinCMOS Precision Quad Op Amp	TLC274ID	NEW SMD 156-4898●	0.580	0.490	0.420	0.350	0.300
274	TI	14	SOIC	Quad CMOS Op-Amp	TLC274ACDG4	SMD 123-4673●	0.600	0.430	0.340	0.290	0.270
274	TI	14	PDIP	LINCMOS(TM) Precision Quad Operational Amplifier	TLC274ACNE4	123-4739●	0.420	0.300	0.240	0.198	0.193
274	TI	14	SOIC	OP Amp, Rail-Rail, Quad	TLC274AID	SMD 845-4175●	0.580	0.450	0.380	– –	– –
274	TI	14	SOIC	LINCMOS(TM) Precision Quad Operational Amplifier	TLC274BCDG4	SMD 123-4898●	0.600	0.430	0.340	0.290	0.270
274	TI	14	PDIP	LINCMOS(TM) Precision Quad Operational Amplifier	TLC274BCNE4	123-4982●	0.600	0.430	0.340	0.290	0.270
274	TI	14	SOIC	LINCMOS(TM) Precision Quad Operational Amplifier	TLC274BIDG4	SMD 123-4877●	0.630	0.480	0.350	0.310	0.280
274	TI	14	SOIC	Quad CMOS Op-Amp	TLC274IDG4	SMD 123-4641●	0.380	0.280	0.210	0.198	0.193
274	TI	14	PDIP	Quad Single SUPPLY Operational Amplifier	TLC274INE4	123-4855●	0.420	0.300	0.240	0.198	0.193

RL Re-reeling available

Farnell

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
274	TI	14	SOIC	OP Amp, Rail-Rail, Single Supply	TLV274ID	SMD 845-5317 ●	0.550	0.470	0.430	– –	– –
274	TI	14	PDIP	OP Amp, Rail-Rail, Single Supply	TLV274IN	845-5325 ●	0.800	0.660	0.550	– –	– –
279	TI	14	SOIC	Quad Precision Single SUPPLY Operational Amplifier	TLC279CDG4	SMD 123-4751 ●	1.210	0.910	0.690	0.670	0.650
279	TI	14	SOIC	OP Amp, Quad	TLC279ID	SMD 845-4205 ●	2.110	1.440	1.070	– –	– –
324	TI	14	PDIP	1.2MHz GBWP Quad Op Amp	LM324N..	NEW 164-8684 ●	0.127	0.114	0.101	0.088	0.075
324	TI	14	PDIP	1.2MHz Quad Op Amp	LM324N	NEW 156-4884 ●	0.182	0.146	0.134	0.110	0.096
324	TI	14	PDIP	12MHz GBWP Quad Op Amp	LM324AN	NEW 156-4954 ●	0.210	0.171	0.146	0.121	0.096
324	NSC	14	MDIL	Quad Op Amp Single/Dual PSU Operation	LM324AN/NOPB	NEW 156-4649 ●	0.660	0.550	0.440	0.380	0.340
324	NSC	14	TSSOP	Micropower Quad Op Amp	LP324MT/NOPB	NEW SMD 168-5390 ●	0.850	0.650	0.540	0.490	0.440
324	NSC	14	SOIC	152kHz GBWP Quad Op Amp R/R O/P	LPV324M/NOPB	NEW SMD 168-5329 ●	0.850	0.660	0.540	0.490	0.450
324	ST	14	SOIC	Quad Low cost, low power input/output rail-to-rail operational amplifier	LMV324ID	SMD 137-4135 ●	0.410	0.310	0.240	0.210	0.177
324	ST	14	SOIC	Quad General Purpose, Input/Output Rail-to-Rail Low Power Operational Amplifiers	TSV324ID	SMD 137-4148 ●	0.420	0.330	0.260	0.220	0.184
324	FCH	14	DIP	Quad Operational Amplifier	LM324N	141-7640 ●	0.300	0.230	0.157	0.118	0.087
324	TI	14	TSSOP	Quadruple Operational Amplifier	LM324APW	SMD 145-9518 ●	0.220	0.182	0.138	0.100	0.086
324	TI	14	SOIC	Quad Op Amp, GP	LM324AD	SMD 838-9233 ●	0.260	0.210	0.158	– –	– –
324	TI	14	SOIC	Ultra-Low-Power Quadruple Operational Amplifiers	LP324D	SMD 149-4905 ●	0.350	0.270	0.194	0.146	0.121
324	NSC	14	SOIC	Quad, Operational Amp	LM324AM	SMD 948-6909 ●	1.070	0.640	0.550	0.450	0.430
324	NSC	14	DIP	Quad, Operational Amp	LM324AN	948-6917 ●	0.960	0.760	0.640	0.540	0.500
324	ON	14	DIP	Quad Op Amp	LM324ANG	121-4466 ●	0.500	0.370	0.270	0.220	0.164
324	TI	14	SOIC	Quad Op Amp, GP	LM324D	SMD 229-3547 ●	0.173	0.170	0.140	0.117	0.104
324	ON	14	SOIC	Quad, Operational Amp	LM324DG	SMD 121-1103 ●	0.370	0.193	0.188	– –	– –
324	NSC	14	SOIC	Quad, Op Amp	LM324M	SMD 948-6925 ●	0.580	0.350	0.280	0.220	0.210
324	ST	14	DIP	Quad Op Amp	LM324N	975-5926 ●	0.540	0.360	0.230	0.191	0.135
324	ON	14	DIP	Quad, Operational Amp	LM324NG	119-0533 ●	0.500	0.340	0.250	– –	– –
324	TI	14	TSSOP	Quad General-Purpose Operational Amplifier	LM324PW	SMD 838-9241 ●	0.106	0.088	0.066	– –	– –
324	TI	14	SOIC	Quad Low Voltage Rail-to-Rail O/P Operational Amp	LMV324ID	SMD 110-2986 ●	0.430	0.280	0.198	– –	– –
324	TI	14	TSSOP	Quad Low-Voltage Rail-to-Rail Output Operational Amplifier	LMV324IPWR	SMD 838-9276 ●	0.430	0.280	0.200	– –	– –
324	NSC	14	SOIC	Quad, Rail-to-Rail Output Operational Amp (Low Voltage version of LM324)	LMV324M	SMD 930-6765 ●	0.550	0.450	0.420	– –	– –
324	NSC	14	SOIC	Quad, MicroPower Operational Amp	LP324M	SMD 948-6941 ●	0.770	0.520	0.430	0.410	0.370
324	NSC	14	SOIC	Quad, MicroPower Operational Amp	LP324M.	SMD 400-210	0.570	0.450	0.340	0.230	0.230
324	NSC	14	DIP	Quad, Low Power Operational Amp	LP324N	948-6950 ●	0.760	0.650	0.590	– –	– –
324	TI	14	SOIC	Quad, Rail-to-Rail Output, Low Voltage, Low Power Op Amp	LPV324DE4	SMD 105-3649 ●	0.550	0.370	0.310	– –	– –
324	TI	14	SOIC	Quad, Rail-to-Rail Output, Low Voltage, Low Power Op Amp	LPV324IDE4	SMD 105-3645 ●	0.630	0.420	0.350	– –	– –
324	TI	14	TSSOP	Quad, Rail-to-Rail Output, Low Voltage, Low Power Op Amp	LPV324IPWG4	SMD 105-3639 ●	0.700	0.470	0.390	– –	– –
342	NSC	8	SOIC	Single With Shutdown/Dual/Quad General Purpose, 2.7V, Rail-to-Rail Output, 125°C, Operational Amplifiers	LMV342MA.	SMD 579-6398	0.330	0.250	0.200	– –	– –
342	NSC	8	MSOP	Single With Shutdown/Dual/Quad General Purpose, 2.7V, Rail-to-Rail Output, 125°C, Operational Amplifiers	LMV342MM	SMD 977-9396 ●	0.380	0.300	0.240	– –	– –
342	NSC	8	MSOP	Single With Shutdown/Dual/Quad General Purpose, 2.7V, Rail-to-Rail Output, 125°C, Operational Amplifiers	LMV342MM.	SMD 579-6386	0.270	0.198	0.169	– –	– –
344	NSC	14	TSSOP	Rail/Rail Output Quad Amplfier, 2.7V	LMV344MT	SMD 128-6954 ●	0.880	0.590	0.420	0.350	0.330
346	NSC	16	DIP	Quad, Programmable Operational Amp	LM346N	948-6968 ●	1.130	0.830	0.660	0.530	0.480
347	ST	14	SOIC	4MHz GBWP Quad J-FET Op Amp	LF347D	NEW SMD 156-4335 ●	0.500	0.410	0.350	0.290	0.260
348	TI	14	SOIC	Quad, Operational Amp	LM348D	SMD 958-9635 ●	0.410	0.270	0.196	– –	– –
348	NSC	14	SOIC	Quad, 741 Operational Amp	LM348M	SMD 948-6976 ●	0.670	0.570	0.480	0.470	0.440
348	NSC	14	SOIC	Quad, 741 Operational Amp	LM348M.	SMD 400-361	0.370	0.270	0.196	0.194	0.189
348	ST	14	DIP	Quad, 741 Operational Amp	LM348N	109-4255 ●	0.960	0.640	0.520	0.490	0.420
348	TI	14	DIP	Quad Op Amp, GP	LM348N	229-3948 ●	0.350	0.270	0.196	– –	– –
348	NSC	14	DIP	Quad, 741 Operational Amp	LM348N	948-6984 ●	0.770	0.630	0.540	0.510	0.470
353	ST	8	SOIC	4MHz GBWP Dual J-FET Op Amp	LF353D	NEW SMD 156-4336 ●	0.360	0.300	0.270	0.220	0.182
400	ADI	16	SOIC	Quad Low Offset Low Power Op Amp	OP400HSZ	NEW SMD 166-1003 ●	10.660	8.300	6.790	6.220	5.190
400	ADI	14	PDIP	Quad Low Offset, Low Power Operational Amplifier	OP400HPZ	143-8689 ●	9.600	6.550	5.280	– –	– –
400	ADI	14	DIP	Quad, Low Offset, Precision Operational Amp (Ceramic)	OP400FY	400-403 ▲	10.760	8.250	7.000	– –	– –
400	ADI	14	DIP	Quad Precision Op Amp	OP400GPZ	960-4782 ●	8.800	6.000	4.840	– –	– –
400	ADI	16	SOIC	Quad, Low Offset, Precision Operational Amp	OP400GSZ	SMD 942-6140 ●	6.050	5.020	4.270	– –	– –
404	TI	14	CDIP SB	Quad High Speed Precision Difet(R) Operational Amplifier	OPA404AG	145-9605 ●	62.350	53.830	49.360	45.500	44.420
404	TI	14	CDIP SB	Quad High Speed Precision Difet(R) Operational Amplifier	OPA404BG	145-9606 ●	69.800	60.290	55.260	50.940	49.730
404	TI	16	SOIC	OP Amp, Quad FET	OPA404KU	SMD 121-2301 ●	10.270	8.600	7.690	– –	– –
414	MAX	14	SOIC	28MHz GBWP Quad Op Amp	MAX414ESD+	NEW SMD 160-9599 ●	7.780	6.950	5.940	5.280	4.680
462	ADI	14	SOIC	Quad 15MHz R/R Op Amp	OP462GSZ	NEW SMD 166-1005 ●	7.710	5.990	4.900	4.480	3.740
464	ST	14	SOIC	Quad, Rail-to-Rail, Low Noise, High output swing Op. Amp	TS464CD	SMD 109-4378 ●	0.620	0.530	0.460	0.380	0.340
464	ST	14	DIP	Quad, Rail-to-Rail, Low Noise, High output swing Op. Amp	TS464CN	109-4379 ●	0.740	0.640	0.530	0.460	0.340
467	ADI	14	DIP	Quad, High Speed, Precision Operational Amp	OP467GPZ	960-5347 ●	10.690	8.200	6.950	– –	– –
467	ADI	16	SOIC	Quad, High Speed, Precision Operational Amp	OP467GSZ	SMD 960-5193 ●	11.520	8.840	7.490	– –	– –
470	ADI	14	DIP	Quad, Ultra Low Noise Operational Amp	OP470GPZ	960-4790 ●	7.110	4.850	3.910	– –	– –
470	ADI	16	SOIC	Quad, Ultra Low Noise Operational Amp	OP470GSZ	SMD 942-6302 ●	7.530	5.140	4.150	– –	– –
471	ADI	14	DIP	Quad, High Speed, Low Noise Operational Amp	OP471GPZ	960-4804 ●	8.170	6.300	4.440	– –	– –
481	ADI	14	SOIC	Quad, Ultralow Power, Rail-to-Rail Output Operational Amplifiers	OP481GSZ	SMD 143-8999 ●	6.150	3.920	3.070	– –	– –
482	ADI	14	SOIC	Quad 4MHz JFET Op Amp	OP482GSZ	NEW SMD 166-1006 ●	3.750	2.910	2.390	2.190	1.820
482	ADI	14	PDIP	Quad Low Power, High Speed JFET Operational Amplifier	OP482GPZ	143-8690 ●	4.240	2.880	2.150	– –	– –
484	ADI	14	SOIC	Quad Precision 4MHz R/R I/O Op Amp	OP484ESZ	NEW SMD 166-1007 ●	13.170	10.540	8.780	8.100	7.310
484	ADI	14	SOIC	Quad, Precision Rail-to-Rail Input & Output Operational Amplifier	OP484FSZ	SMD 143-9000 ●	8.640	5.890	4.750	– –	– –
490	ADI	14	DIP	Quad Precision Op Amp	OP490GPZ	960-4812 ●	7.180	4.890	3.950	– –	– –
490	ADI	16	SOIC	Quad, Low Voltage, MicroPower Operational Amp	OP490GSZ	SMD 960-4820 ●	7.180	4.890	3.950	– –	– –
495	ADI	14	PDIP	Quad Rail-to-Rail Operational Amplifiers	OP495GPZ	143-8695 ●	7.800	5.320	4.290	– –	– –
497	ADI	16	SOIC	Precision pA Input Current Quad Op Amp	OP497GSZ	NEW SMD 166-1008 ●	5.940	4.900	4.010	3.670	3.050
497	ADI	14	PDIP	Precision Picoampere Input Current Quad Operational Amplifier	OP497FPZ	143-8696 ●	8.290	6.370	5.400	– –	– –
497	ADI	14	DIP	Quad, Low Bias Current, Precision Operational Amp	OP497GPZ	960-5266 ●	6.830	4.650	3.750	– –	– –
609	MCHIP	14	TSSOP	155 GBWP Quad Micropower CMOS Op Amp	MCP609-I/ST..	NEW SMD 155-7408 ●	1.460	1.110	0.870	– –	– –
609	MCHIP	14	SOIC	OP Amp,2.5V,Quad	MCP609-I/SL	SMD 129-2248 ●	1.340	0.750	0.650	– –	– –
654	NSC	14	TSSOP	12 MHz, Low Voltage, Low Power Amplifier	LMV654MT	SMD 132-0979 ●	1.260	1.010	0.850	0.700	0.650
704	ADI	14	PDIP	Quad Picoampere Input Current Bipolar Op Amp	AD704JNZ	143-8357 ●	7.560	5.150	4.160	– –	– –
713	ADI	16	SOIC	Quad Precision 4MHz BiFET Op Amp	AD713JRZ-16	NEW SMD 166-0969 ●	8.360	6.870	5.620	5.170	4.300
747	ADI	14	SOIC	Quad, Precision MicroPower Single-Supply Operational Amplifier (IND TEMP)	OP747ARZ	SMD 960-4405 ●	4.260	3.080	2.360	– –	– –
774	NSC	14	TSSOP	Quad, 3.5MHz, Low Offset, Low Noise, RRO Op Amp	LMV774MT	SMD 818-7673 ●	1.510	1.280	1.030	– –	– –
824	TI	14	SOIC	Quad, Rail-to-Rail Output, Low Voltage, Low Power Op Amp	LMV824DE4	SMD 105-3741 ●	0.610	0.470	0.350	– –	– –
824	TI	14	SOIC	Quad, Rail-to-Rail Output, Low Voltage, Low Power Op Amp	LMV824IDE4	SMD 105-3734 ●	0.800	0.560	0.460	– –	– –
824	TI	14	TSSOP	Quad, Rail-to-Rail Output, Low Voltage, Low Power Op Amp	LMV824IPWE4	SMD 105-3727 ●	0.800	0.560	0.460	– –	– –
824	TI	14	TSSOP	Quad, Rail-to-Rail Output, Low Voltage, Low Power Op Amp	LMV824PWE4	SMD 105-3722 ●	0.450	0.340	0.260	– –	– –
837	NSC	14	DIP	Low Noise, Quad Audio Operational Amp	LM837N	948-8391 ●	1.160	1.010	0.830	0.800	0.750
914	ST	14	TSSOP	Quad Rail-to-rail input/output 8MHz operational amplifier	TSV914AIPT	SMD 137-4124 ●	1.720	1.570	1.470	1.350	1.200
914	ST	14	TSSOP	Quad Rail-to-rail input/output 8MHz operational amplifier	TSV914IPT	SMD 137-4125 ●	1.880	1.550	1.200	– –	– –
925	ST	16	SOIC	Quad, Rail-to-Rail I/O, High Output Current (80mA) Op. Amp.,4MHz, With adjustable phantom ground and standby	TS925ID	SMD 109-4394 ●	2.500	1.900	1.530	1.320	1.270
925	ST	16	DIP	Quad, Rail-to-Rail, High Output Current Operational Amp	TS925IN	109-4395 ●	1.960	1.660	1.310	1.150	0.970
934	NSC	14	SOIC	Rail/Rail Input & Output Quad Amplifier, 1.8V	LMV934MA.	SMD 128-6956 ●	0.930	0.720	0.550	0.470	0.430
934	NSC	14	TSSOP	Rail/Rail Input & Output Quad Amplifier, 1.8V	LMV934MT.	SMD 128-6957 ●	1.350	0.890	0.640	0.540	0.500
934	ST	14	SOIC	Quad, Rail-to-Rail, MicroPower (20µA/Amp.) Op. Amp	TS934ID	SMD 109-4398 ●	1.940	1.540	1.230	1.040	0.950
934	ST	14	DIP	Quad, Rail-to-Rail, MicroPower (20µA/Amp.) Op. Amp	TS934IN	109-4399 ●	1.830	1.470	1.210	1.030	0.910
954	ST	14	SOIC	Quad, Low Power, Rail-to-Rail I/O, Op. Amp., 3MHz	TS954ID	SMD 109-4407 ●	1.930	1.580	1.390	1.120	0.850
954	ST	14	DIP	Quad, Low Power, Rail-to-Rail I/O, Op. Amp., 3MHz	TS954IN	975-5705 ●	1.090	0.920	0.820	0.700	0.650
974	ST	14	SOIC	Quad, Rail-to-Rail, Low Noise, 12MHz Op. Amp. (SOIC)	TS974ID	SMD 109-4411 ●	0.930	0.740	0.600	0.520	0.460
974	ST	14	DIP	Quad, Rail-to-Rail, Low Noise, 12MHz Op. Amp.	TS974IN	109-4412 ●	0.780	0.640	0.580	0.510	0.480
994	ST	14	TSSOP	Quad Rail-to-rail input/output 20MHz GBP operational amplifier	TSV994AIPT	SMD 137-4131 ●	2.340	1.840	1.500	1.390	– –
994	ST	14	TSSOP	Quad Rail-to-rail input/output 20MHz GBP operational amplifier	TSV994IPT	SMD 137-4132 ●	2.120	1.650	1.350	1.240	– –

RL Re-reeling available

Operational Amplifiers - continued

Quad - continued

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
1014	TI	16	SOIC	1MHz GBWP Quad Precision Op Amp	LT1014DIDW..	NEW SMD 164-8691	3.140	2.510	2.100	1.890	1.840
1014	LT	14	DIP	Quad, Low Power, Precision Operational Amp	LT1014CN#PBF	955-9310	9.730	5.500	4.120	– –	– –
1014	TI	14	DIP	Quad Precision Operational Amplifier	LT1014CNG4	958-9767	4.240	3.550	2.990	– –	– –
1014	LT	14	DIP	Quad Precision, Op Amp	LT1014DN#PBF	955-9329	6.510	3.690	2.770	– –	– –
1014	LT	16	SOIC	Quad, Low Power, Precision Operational Amp	LT1014DSW#PBF	SMD 955-9337	7.560	4.270	3.190	– –	– –
1014	LT	14	DIP	Quad Precision, Op Amp	LT1014IN.#PBF	955-9345	7.680	4.610	3.630	– –	– –
1058	LT	14	DIP	Quad 5MHz JFET Input Precision High Speed Op Amp	LT1058ACN#PBF	NEW 166-3344	17.310	12.980	10.390	8.650	7.750
1079	LT	14	DIP	Quad, Low Power, Single Supply, Precision Operational Amp	LT1079CN#PBF	955-9701	6.430	3.630	2.690	– –	– –
1079	LT	16	SOIC	Op Amp, Quad	LT1079SW#PBF	SMD 133-0575	8.320	4.700	3.500	3.370	3.290

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	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
1114	LT	14	DIP	Quad Low-Power Precision PicoAmp Input Op Amp	LT1114ACN#PBF	956-0017	8.350	5.430	4.490	– –	– –
1114	LT	14	DIP	Quad, Low Power, Precision Operational Amp	LT1114CN#PBF	956-0025	8.030	4.560	3.460	– –	– –
1114	LT	16	SOIC	Quad, Low Power Precision, PicoAmp Input Operational Amplifier	LT1114S#PBF	SMD 956-0033	8.380	4.760	3.660	– –	– –
1125	LT	16	SOIC	Quad, Low Noise, High Speed, Precision Op Amp	LT1125CSW#PBF	SMD 133-0582	11.710	6.620	5.000	4.610	4.440
1127	LT	16	SOIC	Quad, Decompensated Low Noise, High Speed, Precision Op Amp	LT1127CSW#PBF	SMD 133-0584	10.870	6.170	5.000	4.610	4.460
1179	LT	16	SOIC	Quad, Single Supply, Precision Op Amp	LT1179SW#PBF	SMD 133-0590	8.260	4.690	3.850	3.360	3.010
1212	LT	14	DIP	14MHz Single Supply Quad Precision Op Amp	LT1212CN#PBF	NEW 166-3396	10.410	7.810	6.240	5.200	4.650
1212	LT	16	SOIC	Quad, 14MHz, Single Supply, Precision Op Amp	LT1212CS#PBF	SMD 133-0609	11.220	5.900	4.570	4.470	4.340
1214	LT	16	SOIC	Quad, 28MHz, Single Supply, Precision Op Amp	LT1214CS#PBF	SMD 133-0611	11.220	6.340	5.250	5.110	4.980
1216	LT	16	SOIC	Quad, 23MHz, Single Supply, Precision Op Amp	LT1216CS#PBF	SMD 133-0613	7.610	4.940	4.300	3.990	3.890
1254	LT	14	SOIC	Quad, Video Op Amp	LT1254CS#PBF	SMD 133-0630	8.150	4.630	3.690	3.630	3.540
1353	LT	14	SOIC	Quad 3MHz Op Amp 0.25mA	LT1353CS#PBF	NEW SMD 166-3411	11.940	8.960	7.160	5.970	5.350
1356	LT	14	DIP	Quad, 12MHz, Op Amp	LT1356CN#PBF	133-0636	11.100	6.300	5.160	4.760	4.420
1359	LT	14	DIP	Quad, 15MHz, Op Amp	LT1359CN#PBF	133-0638	12.270	6.950	5.230	4.850	4.500
1362	LT	16	SOIC	Quad, 50MHz, Op Amp	LT1362CS#PBF	SMD 133-0642	11.100	6.300	4.960	4.890	4.760
1365	LT	14	DIP	Quad, 70MHz, Op Amp	LT1365CN#PBF	133-0645	11.460	6.500	5.350	5.210	5.080
1397	LT	14	SOIC	Quad, 400MHz, Current Feedback Amplifier	LT1397CS#PBF	SMD 133-0649	5.090	3.970	3.250	2.830	2.520
1491	LT	14	DIP	Dual, Enhanced MicroPower Rail to Rail Input and Output Operational Amplifier	LT1491ACN#PBF	956-0556	5.660	3.560	2.920	– –	– –
1491	LT	14	SOIC	Quad, OTT, Micropower, Rail-to-Rail Input and Output Op Amp	LT1491ACS#PBF	SMD 133-0667	6.020	3.410	2.500	2.430	2.370
1491	LT	14	SOIC	Quad, Micropower, Rail-to-Rail Input and Output Op Amp	LT1491CS#PBF	SMD 133-0668	5.770	4.520	3.680	3.220	2.860
1491	LT	14	DIP	Dual, Enhanced MicroPower Rail to Rail Input and Output Operational Amplifier (IND TEMP)	LT1491AIN#PBF	113-6623	6.770	4.440	3.630	– –	– –
1496	LT	14	SOIC	Quad, Precision, Rail-to-Rail Input and Output Op Amp	LT1496CS#PBF	SMD 133-0672	6.620	3.740	3.160	2.770	2.500
1499	LT	14	SOIC	10MHz Quad R/R I/O Precision C-Load Op Amp	LT1499CS#PBF	NEW SMD 166-3441	11.600	8.690	6.960	5.800	5.190
1639	LT	14	SOIC	Quad 1.2MHz Over-The-Top Micropower R/Rail I/O Op Amp	LT1639IS#PBF	NEW SMD 166-3463	7.340	5.510	4.400	3.670	3.290
1639	LT	14	SOIC	Quad, 1.2Mhz, OTT, Micropower, Rail-to-Rail Input and Output Op Amp	LT1639CS#PBF	SMD 133-0682	5.770	4.520	3.680	3.220	2.860
1674	LT	14	SOIC	Quad, OTT, Precision, Rail-to-Rail Input and Output Op Amps	LT1674CS#PBF	SMD 133-0685	4.550	3.930	3.450	3.080	2.780
1679	LT	14	SOIC	Quad, Low Noise, Op Amp	LT1679CS#PBF	SMD 133-0691	7.280	4.430	3.490	3.150	3.070
1724	LT	14	SOIC	Quad, 200MHz, Low Noise, Precision Op Amp	LT1724CS#PBF	SMD 133-0694	3.950	3.100	2.520	2.210	1.950
1802	LT	14	SOIC	Op Amp, Quad, 80MHz	LT1802CS#PBF	SMD 133-0704	6.620	3.740	2.960	2.590	2.420
1805	LT	14	SOIC	Op Amp, Quad, 85MHz	LT1805CS#PBF	SMD 133-0708	6.620	3.740	2.960	2.600	2.300
1814	LT	14	SOIC	Op Amp, Quad	LT1814CS#PBF	SMD 133-0716	3.690	2.240	1.760	1.590	1.550
1854	ST	14	DIP	Quad, MicroPower, 1.8V, 120µA/Amp., Rail-to-Rail I/O, Op. Amp	TS1854IN	332-6457	1.910	1.600	1.430	1.210	1.170
1874	ST	14	SOIC	Quad, Low Power, 1.8V, 400µA, Rail-to-Rail I/O, Op. Amp.	TS1874ID	SMD 109-4364	2.230	1.730	1.430	1.290	1.130
1882	LT	14	SOIC	Quad, Rail-to-Rail Output, Picoamp Input, Precision Op Amp	LT1882CS#PBF	SMD 133-0725	9.230	6.000	5.240	4.840	4.510
1885	LT	14	SOIC	Quad, Rail-to-Rail Output, Picoamp Input, Precision Op Amp	LT1885CS#PBF	SMD 133-0727	9.230	6.000	5.240	4.840	4.510
2014	NSC	14	TSSOP	Quad, High Precision, Rail-to-Rail Output Operational Amplifier	LMP2014MT	SMD 100-8281	5.720	3.890	3.170	– –	– –
2024	TI	16	SOIC	OP Amp	TLE2024ACDW	SMD 845-4701	3.310	2.250	1.680	– –	– –
2024	TI	16	SOIC	Quad Precision Low-Power Single SUPPLY Operational Amplifier	TLE2024CDWG4	SMD 123-4777	2.960	2.190	1.680	1.480	1.340
2024	TI	14	PDIP	Quad Precision Low-Power Single SUPPLY Operational Amplifier	TLE2024CNE4	123-4772	2.050	1.530	1.170	1.030	1.000
2024	TI	16	SOIC	Low Power Operational Amp. Output Current ±40mA. (IND TEMP)	TLE2024IDW	SMD 110-2942	2.110	1.660	1.370	– –	– –
2024	TI	14	DIP	Low Power Operational Amp. Output Current ±40mA. (IND TEMP)	TLE2024IN	110-2943	3.110	2.120	1.580	– –	– –
2034	MAX	48	TQFN	Quad-Channel, Ultra-Low-Noise Amplifier with Digitally Programmable Input Impedance	MAX2034CTM+	NEW SMD 155-2894	9.160	8.010	6.410	5.330	4.440
2052	LT	14	SOIC	Quad Zero-Drift Op Amp	LTC2052HVCS#PBF	NEW SMD 166-3680	8.810	6.820	5.460	4.550	4.080
2144	TI	16	SOIC	Quad Low Noise High Speed Precision Op Amp	TLE2144IDW.	NEW SMD 164-8682	2.910	2.320	1.930	1.750	1.700
2144	TI	16	SOIC	Quad Low-Noise High-SPEED Precision Operational Amplifier	TLE2144CDWG4	SMD 123-4864	3.570	2.640	2.030	1.780	1.600
2244	TI	14	SOIC	Op Amp, Rail-Rail I/O Quad	TLV2244ID	SMD 845-4957	1.580	1.300	1.180	– –	– –
2254	TI	14	SOIC	RAIL-TO-RAIL Quad Operational Amplifier	TLC2254AIDG4	SMD 123-4738	1.470	1.100	0.840	0.750	0.660
2254	TI	14	SOIC	Quad RAIL-TO-RAIL UPower Operational Amplifier	TLC2254CDG4	SMD 123-4844	1.400	1.030	0.800	0.700	0.630
2254	TI	14	PDIP	Quad RAIL-TO-RAIL UPower Operational Amplifier	TLC2254CNE4	128-7640	1.030	0.820	0.640	0.500	0.490
2254	TI	14	SOIC	Quad RAIL-TO-RAIL UPower Operational Amplifier	TLC2254IDG4	SMD 123-4822	1.080	0.800	0.650	0.630	0.610
2254	TI	14	SOIC	OP Amp, Rail-Rail Quad	TLV2254AID	SMD 845-4965	1.850	1.440	1.070	– –	– –
2254	TI	14	SOIC	Quad RAIL-TO-RAIL Low-Voltage Low Power Operational Amplifier	TLV2254IDG4	SMD 123-4902	1.340	1.000	0.850	0.830	0.800
2264	TI	14	PDIP	Quad Advanced LinCMOS R/R O/P	TLC2264CN	NEW 164-8722	1.030	0.840	0.700	0.640	0.610
2264	TI	14	SOIC	Advanced LINCMOS(Tm) Rail-To-Rail Quad Operational Amplifier	TLC2264AIDG4	SMD 123-4743	1.470	1.100	0.840	0.750	0.660
2264	TI	14	SOIC	Quad Advanced LINCMOS(TM) RAIL-TO-RAIL Operational Amplifier	TLC2264CDG4	SMD 123-4725	1.280	0.940	0.720	0.630	0.570
2264	TI	14	SOIC	Advanced LINCMOS(Tm) Rail-To-Rail Quad Operational Amplifier	TLV2264AIDG4	SMD 123-4792	2.190	1.630	1.250	1.110	0.990
2274	TI	14	SOIC	OP Amp, Rail-Rail Quad	TLC2274ACD	SMD 845-4078	1.400	0.960	0.690	– –	– –
2274	TI	14	PDIP	OP Amp, Rail-Rail Quad	TLC2274ACN	845-4086	1.400	0.960	0.690	– –	– –
2274	TI	14	SOIC	Quad CMOS Rail\Rail Op-Amp	TLC2274AIDG4	SMD 123-4658	1.090	0.810	0.640	0.620	0.600
2274	TI	14	SOIC	OP Amp, Rail-Rail Quad	TLC2274CD	SMD 845-4094	1.530	1.080	0.770	– –	– –
2274	TI	14	PDIP	Quad CMOS Op-Amp With Rail\Rail	TLC2274CNE4	123-4680	1.400	1.030	0.800	0.700	0.630
2274	TI	14	SOIC	Quad CMOS Op-Amp With Rail\Rail	TLC2274IDG4	SMD 123-4685	1.000	0.750	0.610	0.600	0.580
2274	TI	14	PDIP	Quad Low-Noise RAIL-TO-RAIL Operational Amplifier	TLC2274INE4	123-4999	1.400	1.030	0.800	0.700	0.630
2274	TI	14	SOIC	Quad Low-Noise RAIL-TO-RAIL Operational Amplifier	TLC2274QD	SMD 123-6553	1.690	1.150	0.830	0.770	0.710
2374	TI	14	SOIC	OP Amp, Rail-Rail I/O	TLV2374ID	SMD 845-5040	1.120	0.930	0.680	– –	– –
2374	TI	14	PDIP	OP Amp, Rail-Rail I/O	TLV2374IN	845-5058	1.320	0.900	0.640	– –	– –
2374	TI	14	TSSOP	OP Amp, Rail-Rail I/O	TLV2374IPWG4	SMD 120-7291	0.930	0.770	0.670	– –	– –
2404	TI	14	SOIC	OP Amp, Rail-Rail I/O Quad	TLV2404ID	SMD 845-5120	2.110	1.760	1.550	– –	– –
2432	TI	8	SOIC	Advanced LinCMOS(TM) Rail-To-Rail Output Wide-Input-Voltage Dual Operational Amplifier	TLV2432CD	SMD 145-9954	1.160	0.790	0.570	0.530	0.490
2442	TI	8	SOIC	Advanced LinCMOS(TM) Rail-To-Rail Output Wide-Input-Voltage Dual Operational Amplifier	TLV2442ID	SMD 145-9961	1.270	0.870	0.620	0.580	0.530
2464	TI	14	SOIC	OP Amp, Rail-Rail I/O Quad	TLV2464AID	SMD 845-5163	1.630	1.360	1.200	– –	– –
2464	TI	14	SOIC	OP Amp, Rail-Rail I/O Quad	TLV2464CD	SMD 845-5171	1.770	1.370	1.020	– –	– –
2464	TI	14	PDIP	Quad Low Power, RAIL-TO-RAIL Input/OUTPUT Operational Amplifier	TLV2464CNE4	123-5036	1.750	1.310	1.000	0.880	0.800
2464	TI	14	SOIC	Quad Low Power, RAIL-TO-RAIL Input/OUTPUT Operational Amplifier	TLV2464IDG4	SMD 123-4807	1.850	1.370	1.050	0.920	0.830
2474	TI	14	PDIP	OP Amp, Rail-Rail I/O Quad	TLV2474AIN	845-5180	2.190	1.490	1.110	– –	– –
2774	TI	14	SOIC	OP Amp, Rail-Rail Quad, High Speed	TLV2774AID	SMD 845-5350	1.550	1.310	1.160	– –	– –
2774	TI	14	SOIC	Quad 2.7-V High-Slew-Rate Rail-To-Rail Output Operational Amplifier	TLV2774CDG4	SMD 123-4858	2.190	1.630	1.250	1.110	0.990
2900	TI	14	PDIP	Quadruple Operational Amplifier	LM2900N	145-9514	0.390	0.270	0.192	0.134	0.101
2902	TI	14	SOIC	Quad General-Purpose Operational Amplifier	LM2902D	SMD 958-9627	0.420	0.290	0.191	– –	– –
2902	ON	14	SOIC	Quad, Operational Amp	LM2902DG	SMD 119-1816	0.410	0.240	0.220	– –	– –
2902	NSC	14	SOIC	Quad, Operational Amp	LM2902M	SMD 948-6887	0.590	0.480	0.450	0.440	0.410

Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
2902 NSC	14	DIP	Quad, Operational Amp	LM2902N	948-6895●	0.820	0.560	0.450	0.430	0.400
2902 TI	14	DIP	Quad General-Purpose Operational Amplifier	LM2902N.	300-3231▲	0.139	0.113	0.088	– –	– –
2902 ST	14	TSSOP	Quad, Low Power Operational Amp. (IND TEMP)	LM2902PT	SMD 109-4242●	0.360	0.270	0.195	0.147	0.116
3303 TI	14	SOIC	Quadruple Low-Power Operational Amplifier	MC3303D	SMD 145-9538●	0.610	0.430	0.310	0.230	0.184
3303 ON	14	SOIC	Quad, Operational Amp. (IND TEMP)	MC3303DG	SMD 121-1113●	0.390	0.280	0.220	– –	– –
3403 ST	14	SOIC	1MHz GBWP Quad Bipolar Op Amp	MC3403D	NEW SMD 156-4340●	0.420	0.340	0.300	0.260	0.210
3403 TI	14	SOIC	Quad Low-Power General-Purpose Operational Amplifier	MC3403D	SMD 145-9540●	0.360	0.270	0.210	0.182	0.164
3403 ON	14	SOIC	Quad, Low Distortion, Operation Amp	MC3403DG	SMD 966-4408●	0.490	0.360	0.280	– –	– –
3403 ST	14	DIP	Quad, Low Distortion, Single Supply, Operational Amp	MC3403N	109-4319●	0.660	0.560	0.460	0.360	0.260
3403 TI	14	DIP	Quad, Low Distortion, Single Supply, Operational Amp	MC3403NE4	121-0963●	0.420	0.280	0.220	– –	– –
3474 TI	14	SOIC	High-Slew-Rate, Single-Supply Operational Amplifier	TL3474AID	SMD 123-6517●	0.920	0.620	0.480	0.420	0.360
3474 TI	14	SOIC	Quad, High Slew Rate, Single-Supply, Op Amp	TL3474ID	SMD 149-4940●	1.040	0.740	0.570	0.430	0.380
3900 TI	14	PDIP	2.5MHz GBWP Quad Op Amp	LM3900N..	NEW 164-8687●	0.460	0.360	0.300	0.280	0.270
3900 TI	14	SOIC	Quadruple Operational Amplifier	LM3900D	SMD 145-9522●	0.850	0.610	0.470	0.350	0.310
4130 TI	14	SOIC	Low Power Precision FET Input Op Amp	OPA4130UA.	NEW SMD 164-8707●	5.260	4.220	3.510	3.170	3.090
4131 TI	14	SOIC	General Purpose FET Input Op Amp	OPA4131NA.	NEW SMD 164-8708●	5.570	4.450	3.700	3.350	3.270
4131 TI	14	SOIC	Quad 4MHz GBWP FET-Input Op Amp	OPA4131NA	NEW SMD 156-4896●	7.370	6.090	5.410	4.430	3.750
4134 TI	14	SOIC	OP Amp Quad Audio	OPA4134UAE4	SMD 120-7057●	2.370	1.990	1.670	– –	– –
4136 TI	14	DIP	Quad, High Performance Operational Amp	RC4136N	110-6011●	1.070	0.760	0.580	– –	– –
4137 TI	14	SOIC	1MHz GBWP FET Input Op Amp.	OPA4137UA.	NEW SMD 164-8709●	1.690	1.360	1.120	1.020	0.990
4177 ADI	14	TSSOP	Quad Precision Low Noise Low Input Bias Current Op Amp	OP4177ARUZ	NEW SMD 166-1004●	6.910	5.380	4.400	4.030	3.360
4227 TI	14	DIP	Quad, Low Noise, High Precision Amp., 8MHz Bandwidth (IND TEMP)	OPA4227PAG4	121-9414●	7.440	5.540	4.220	– –	– –
4227 TI	14	SOIC	OP Amp Quad Low Noise	OPA4227UA	SMD 121-2303●	6.860	4.680	3.770	– –	– –
4228 TI	14	DIP	Quad, Low Noise, High Precision Amp., 33MHz Bandwidth (IND TEMP)	OPA4228PA	121-4364●	5.430	4.540	3.830	– –	– –
4228 TI	14	SOIC	OP Amp Quad Low Noise HI SPEED	OPA4228UA	SMD 121-2304●	6.860	4.680	3.770	– –	– –
4234 TI	14	SOIC	OP Amp,Quad,Single Supply	OPA4234UG4	SMD 120-7058●	5.340	4.450	3.750	– –	– –
4241 TI	14	SOIC	OP Amp Micro Power BIPOLAR Quad	OPA4241UA	SMD 121-2305●	7.480	5.100	4.120	– –	– –
4244 TI	14	TSSOP	MicroPower Single Supply Op Amp	OPA4244EA/250	NEW SMD 164-8710●	2.280	1.820	1.520	1.370	1.330
4251 TI	14	SOIC	OP Amp uPWR BIPOLAR Quad	OPA4251UA	SMD 121-2306●	7.480	5.100	4.120	– –	– –
4277 BB	14	DIP	Quad, Ultra-Precision Amp. With Low offset Voltage and drift. (OP177 equiv)	OPA4277PA	109-7452	6.550	5.780	5.080	– –	– –
4277 BB	14	SOIC	Quad, High Precision, Ultra Low Drift/Offset Voltage Amp. (IND TEMP)	OPA4277UA	SMD 109-7479●	6.520	4.450	3.590	3.450	3.220
4336 TI	16	SSOP	OP Amp Quad CMOS	OPA4336EA/250G4	SMD 120-7060●	2.630	2.190	1.840	– –	– –
4340 TI	16	SSOP	OP Amp Quad Rail-Rail CMOS	OPA4340EA/250G4	SMD 120-7061●	3.310	2.760	2.220	– –	– –
4340 TI	14	SOIC	OP Amp Quad Rail-Rail CMOS	OPA4340UA	SMD 121-2307●	3.860	2.640	1.960	– –	– –
4342 TI	14	TSSOP	Quad Op Amp R/R I/P & O/P MicroAmplifier	OPA4342EA/250	NEW SMD 162-4411●	2.830	2.240	1.720	1.520	1.400
4343 TI	14	SOIC	Quad, Single Supply, Rail-to-Rail Amp. (IND TEMP)	OPA4343UA	SMD 109-7481●	2.660	1.950	1.450	1.380	1.290
4344 TI	14	SOIC	OP Amp Quad Low PWR Rail-Rail	OPA4344UAG4	SMD 120-7062●	2.700	2.280	1.900	– –	– –
4347 TI	14	SOIC	Micropower R/R I/O Op Amp	OPA4347UA..	NEW SMD 164-8711●	1.520	1.210	1.010	0.910	0.890
4350 TI	16	SSOP	OP Amp, Quad Hi Speed CMOS	OPA4350EA	SMD 121-2309●	5.530	4.610	3.880	– –	– –
4353 TI	14	SOIC	Quad, High Speed 44MHz, Single Supply, Rail-to-Rail Amp. (IND TEMP)	OPA4353UA	SMD 109-7482●	4.780	3.250	2.420	– –	– –
4354 TI	14	SOIC	OP Amp, 250MHZ, RRIO, Quad	OPA4354AID	SMD 121-2311●	2.230	2.110	1.970	1.680	1.480
4376 TI	14	TSSOP	Quad Precision Op Amp R/R 5.5MHz GBWP	OPA4376AIPW	NEW SMD 156-0642●	2.600	2.290	1.660	1.520	1.280
4851 ADI	14	TSSOP	Quad, High Speed, Rail-to-Rail Output Op Amp	ADA4851-4YRUZ	SMD 107-8230●	2.750	1.890	1.400	– –	– –
6002 LT	16	SSOP	Quad 1.8V, 13?A Precision Rail-to-Rail Op Amp	LT6002IGN#PBF	SMD 143-2095●	4.280	2.520	2.050	– –	– –
6002 MCHIP	8	SOIC	OP Amp,1.8V,1MHZ,Dual	MCP6002-I/SN	SMD 129-2246●	0.250	0.200	0.162	– –	– –
6004 MCHIP			Quad 1 MHz Low-Power Op Amp	MCP6004T-I/SL	NEW 162-7186●	0.460	0.350	0.280	– –	– –
6004 MCHIP	14	PDIP	1MHz GBWP R/R I/O Quad Op Amp	MCP6004-I/P.	NEW 160-5571●	0.460	0.350	0.280	– –	– –
6004 MCHIP	14	SOIC	1MHz GBWP R/R I/O Quad Op Amp	MCP6004-I/SL.	NEW SMD 160-5572●	0.460	0.350	0.280	– –	– –
6012 LT	14	SOIC	Quad, Rail-to-Rail Output Precision Op Amp	LT6012ACS#PBF	SMD 133-0742●	6.260	3.810	3.000	2.610	2.550
6012 LT	14	SOIC	Quad, Rail-to-Rail Output Precision Op Amp	LT6012CS#PBF	SMD 133-0744●	5.550	3.380	2.660	2.530	2.460
6024 MCHIP			Quad R/R I/O 10 MHz Op Amp.	MCP6024-I/P	NEW 162-7199●	1.860	1.410	1.110	– –	– –
6024 MCHIP	14	SOIC	OP Amp,2.3V,10MHZ,Quad	MCP6024-I/SL	SMD 129-2247●	1.760	0.990	0.860	– –	– –
6034 NSC	14	SOIC	1.4MHZ GBWP CMOS Quad Op Amp.	LMC6034IM/NOPB	NEW SMD 156-4727●	0.990	0.820	0.660	0.570	0.530
6034 MCHIP	14	SOIC	Quad 0.9 uA, High Precision Op Amp	MCP6034-E/SL	SMD 143-6023●	1.390	0.930	0.680	– –	– –
6044 NSC	14	SOIC	Quad, CMOS MicroPower Operational Amp., Supply Current=10μA/Amp., Vos=6mV mAx. (IND TEMP)	LMC6044IM	SMD 949-4626●	2.340	1.590	1.300	– –	– –
6044 NSC	14	DIP	Quad, CMOS MicroPower Operational Amp., Supply Current=10μA/Amp., Vos=6mV mAx. (IND TEMP)	LMC6044IN	949-4634●	2.000	1.630	1.500	– –	– –
6064 NSC	14	DIP	Quad, MicroPower, Precision CMOS Operational Amp	LMC6064IN	948-6089●	7.670	4.890	3.720	2.320	2.170
6079 LT	16	DFN	Micropower Precision Quad CMOS R/R I/O Op Amp	LTC6079CDHC#PBF	NEW SMD 166-3743●	4.630	3.590	2.870	2.400	2.150
6079 LT	16	SSOP	Micropower Precision Quad CMOS R/R I/O Op Amp	LTC6079IGN#PBF	NEW SMD 166-3745●	5.310	4.110	3.290	2.750	2.450
6084 NSC	14	SOIC	Quad, Precision CMOS Operational Amp., Input bias Current=10fA, Vos=350μV mAx. (IND TEMP)	LMC6084AIM	SMD 121-5212●	7.220	4.890	3.990	– –	– –
6134 NSC	14	SOIC	Quad, Low-Power 10MHz Rail-to-Rail Input/Output Operational Amp. (IND TEMP)	LM6134AIM	SMD 949-0035●	3.730	3.050	2.790	– –	– –
6134 NSC	14	SOIC	Quad, Low-Power 10MHz Rail-to-Rail Input/Output Operational Amp. (IND TEMP)	LM6134BIM	SMD 949-0027●	2.940	2.400	2.210	– –	– –
6134 NSC	14	DIP	Quad, High Speed, Low Power, 7MHz Operational Amp. With Rail-to-Rail I/O	LM6134BIN	949-3999●	2.940	2.400	2.210	2.160	2.020
6144 MCHIP	14	PDIP	Quad 600nA, Non-Unity Gain Rail-to-Rail Input/Output Op Amp	MCP6144-I/P	143-9427●	1.050	0.750	0.590	– –	– –
6144 MCHIP	14	SOIC	Quad 600nA, Non-Unity Gain Rail-to-Rail Input/Output Op Amp	MCP6144-I/SL	SMD 143-9428●	1.050	0.750	0.590	– –	– –
6144 NSC	14	DIP	Quad, High Speed, Low Power, 17MHz Rail-to-Rail, I/O Operational Amp	LM6144BIN	949-3581●	5.880	4.400	3.610	2.920	2.630
6154 NSC	14	SOIC	Rail/Rail I/O Quad Op Amplifier, 75MHZ	LM6154BCM.	SMD 128-6923●	4.790	3.880	3.520	2.450	2.300
6204 LT	14	SOIC	Quad, 100MHz, Rail-to-Rail Input and Output Op Amp	LT6204CS#PBF	SMD 133-0757●	8.510	5.110	4.540	3.970	3.530
6207 LT	16	SSOP	Quad, Single Supply 3V, 100MHz, Video Op Amp	LT6207CGN#PBF	SMD 133-0759●	2.960	1.670	1.380	1.340	1.310
6222 LT	16	SSOP	Quad 60MHz, Low Power, Rail-to-Rail Input and Output Precision Op Amp	LT6222CGN#PBF	SMD 133-0762●	4.430	3.140	2.620	2.450	2.390
6234 MCHIP	14	PDIP	Quad 20uA, 300kHZ Rail-to-Rail Op Amp.	MCP6234-E/P	143-9442●	0.550	0.320	0.280	– –	– –
6234 MCHIP	14	SOIC	Quad 20uA, 300kHZ Rail-to-Rail Op Amp.	MCP6234-E/SL	SMD 143-9444●	0.550	0.320	0.280	– –	– –
6244 MCHIP	14	PDIP	Quad 50uA, 550kHZ Rail-to-Rail Op Amp.	MCP6244-E/P	143-9447●	0.550	0.320	0.280	– –	– –
6244 MCHIP	14	SOIC	Quad 50uA, 550kHZ Rail-to-Rail Op Amp.	MCP6244-E/SL	SMD 143-9448●	0.550	0.320	0.280	– –	– –
6274 MCHIP	14	PDIP	Quad 170uA, 2MHZ Rail-to-Rail Op Amp	MCP6274-E/P	143-9453●	0.970	0.680	0.540	– –	– –
6274 MCHIP	14	SOIC	Quad 170uA, 2MHZ Rail-to-Rail Op Amp	MCP6274-E/SL	SMD 143-9454●	1.150	0.670	0.580	– –	– –
6284 MCHIP	14	PDIP	Quad 450uA, 5MHZ Rail-to-Rail Op Amp	MCP6284-E/P	143-9460●	1.120	0.790	0.630	– –	– –
6284 MCHIP	14	SOIC	Quad 450uA, 5MHZ Rail-to-Rail Op Amp	MCP6284-E/SL	SMD 143-9461●	1.340	0.770	0.670	– –	– –
6294 MCHIP	14	PDIP	Quad 1mA, 10MHZ Rail-to-Rail Op Amp	MCP6294-E/P	143-9471●	1.230	0.880	0.690	– –	– –
6294 MCHIP	14	SOIC	Quad 1mA, 10MHZ Rail-to-Rail Op Amp	MCP6294-E/SL	SMD 143-9472●	1.460	0.850	0.740	– –	– –
6464 NSC	14	DIP	Quad, MicroPower, Rail-to-Rail Input and Output, CMOS Operational Amp, Supply Current=20μA/Amp, Vos=3mV mAx. (IND TEMP)	LMC6464BIN	121-5213●	3.880	3.170	2.920	– –	– –
6551 LT	10	MSOP	Op Amp, Quad	LT6551CMS#PBF	SMD 133-0769●	3.770	2.250	1.810	1.690	1.650
6588 NSC	14	SOIC	TFT-LCD Quad, 16V RRIO High Output Current Op Amp	LM6588MA/NOPB	NEW SMD 168-5385●	2.420	1.890	1.540	1.420	1.270
6588 NSC	14	TSSOP	TFT-LCD Quad, 16V RRIO High Output Current Op Amp	LM6588MT/NOPB	NEW SMD 168-5386●	2.310	1.790	1.460	1.350	1.200
6644 NSC	14	SOIC	Rail/Rail Output Quad Amplifier, 3V, 130MHz	LMH6644MA.	SMD 128-6942●	2.920	1.930	1.400	1.170	1.090
6644 NSC	14	TSSOP	Rail/Rail Output Quad Amplifier, 3V, 130MHz	LMH6644MT	SMD 128-6943●	2.920	1.930	1.390	1.160	1.080
6725 NSC	14	TSSOP	Current Feedback Quad Op Amp	LMH6725MT	SMD 128-6776●	4.030	3.050	2.340	– –	– –
7704 NSC	14	SOIC	Quad Precision CMOS Input R/R I/O 25MHz Op Amp	LMP7704MA	NEW SMD 166-3020●	4.220	3.280	2.680	2.460	2.110
7709 NSC	14	SOIC	Quad Precision CMOS Input R/R I/O 14MHz Op Amp	LMP7709MA	NEW SMD 166-3002●	6.330	4.750	3.810	3.460	3.170
8017 ADI	8	SOIC	High Speed, High Output Current Operational Amp	AD8017ARZ	SMD 942-5705●	4.750	3.270	2.360	– –	– –
8024 ADI	16	SOIC	Quad, 350MHz 24V High Speed Current Feedback Amplifier (IND TEMP)	AD8024ARZ	SMD 960-4260●	4.800	3.870	3.240	– –	– –
8040 ADI	14	SOIC	Low Power, High Speed, Rail-to-Rail Input/Output Amplifier	AD8040ARZ	SMD 839-7830●	3.420	2.600	1.930	– –	– –
8044 ADI	14	SOIC	Quad 150MHz R/R Op Amp.	AD8044ARZ-14	NEW SMD 166-0977●	7.670	6.300	5.170	4.730	3.950
8054 ADI	14	SOIC	Quad, High Speed, Rail-to-Rail, 3V/5V or ±5V operated, Operational Amp	AD8054ARZ	SMD 942-5624●	5.250	3.580	2.890	– –	– –
8334 ADI	64	LFCSP	Quad VGA with Ultralow Noise Preamplifier and Programmable RIN	AD8334ACPZ	SMD 149-8694●	16.090	14.810	13.720	– –	– –
8534 ADI	14	SOIC	3MHz Quad 250mA Output Single-Supply Op Amp.	AD8534ARZ	NEW SMD 166-0993●	1.140	0.880	0.720	0.660	0.560
8544 ADI	14	SOIC	Quad, General Purpose Rail-to-Rail Operational Amp	AD8544ARZ	SMD 942-5748●	1.160	0.790	0.570	– –	– –
8604 ADI	14	TSSOP	8MHz DigiTrim Quad R/R I/O Op Amp	AD8604ARUZ	NEW SMD 166-0995●	2.090	1.610	1.320	1.220	1.010
8608 ADI	14	TSSOP	Quad 10MHz Precision Low Noise CMOS R/R I/O Op Amp.	AD8608ARUZ	NEW SMD 166-0999●	3.220	2.510	2.060	1.880	1.570
8609 ADI	14	SOIC	Precision MicroPower Low Noise CMOS Rail-to-Rail Input/Output Operational Amplifier	AD8609ARZ	SMD 158-1951●	3.620	2.610	1.950	– –	– –

RL Re-reeling available

Operational Amplifiers - continued

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
8618	ADI	14	TSSOP	Quad, Rail-to-Rail I/O, Precision CMOS Op Amp	AD8618ARUZ	SMD 107-8278	4.820	3.380	2.730	– –	– –
8618	ADI	14	SOIC	Quad, Rail-to-Rail I/O, Precision CMOS Op Amp	AD8618ARZ	SMD 107-8279	4.950	3.380	2.730	– –	– –
8630	ADI	14	TSSOP	Quad, Zero Drift, Single-Supply, Rail-to-Rail I/O Op Amp	AD8630ARUZ	SMD 107-8274	4.430	3.940	3.180	– –	– –
8630	ADI	14	SOIC	Quad, Zero Drift, Single-Supply, Rail-to-Rail I/O Op Amp	AD8630ARZ	SMD 107-8275	4.430	3.940	3.180	– –	– –
8644	ADI	14	SOIC	Quad 18 V Operational Amplifier	AD8644ARZ	SMD 143-8873	4.780	3.250	2.420	– –	– –
8648	ADI	14	TSSOP	24 MHz Rail-to-Rail Quad Op Amp	AD8648ARUZ	SMD 127-4217	1.940	1.330	0.990	0.940	0.870
8648	ADI	14	SOIC	24 MHz Rail-to-Rail Quad Op Amp	AD8648ARZ	SMD 127-4216	1.940	1.330	0.990	0.940	0.870
8668	ADI	14	TSSOP	16 V, 4 MHz Rail-to-Rail Output Amplifier 14-Lead	AD8668ARUZ	SMD 127-4213	3.560	2.530	1.880	1.790	1.670
8668	ADI	14	SOIC	16 V, 4 MHz Rail-to-Rail Output Amplifier 14-Lead	AD8668ARZ	SMD 127-4212	3.560	2.530	1.880	1.790	1.670
8674	ADI	14	SOIC	Precision, Very Low Noise, Low Input Bias Current Operational Amplifier	AD8674ARZ	SMD 158-1959	5.740	4.060	3.290	– –	– –
8694	ADI	14	TSSOP	Quad, Low Noise, Rail-to-Rail Output CMOS Op Amp	AD8694ARUZ	SMD 107-8261	2.190	1.490	1.110	– –	– –
8694	ADI	14	SOIC	Quad, Low Noise, Rail-to-Rail Output CMOS Op Amp	AD8694ARZ	SMD 107-8262	1.950	1.430	1.100	– –	– –
33074	ON	14	SOIC	Quad, Single Supply Operational Amp. (IND TEMP)	MC33074DG	SMD 121-1115	1.010	0.780	0.580	– –	– –
33074	ON	14	DIP	Quad, High Performance Operational Amp. (AUTO TEMP)	MC33074PG	966-6800	0.930	0.730	0.630	0.500	– –
33174	ON	14	SOIC	Quad, Low Power, Single Supply, Operational Amp	MC33174DG	SMD 966-5315	1.010	0.750	0.550	0.470	– –
33174	ST	14	DIP	Quad, Low Power, Single Supply, Operational Amp	MC33174N	975-6370	0.870	0.700	0.600	0.440	0.430
33174	ON	14	DIP	Quad, Low Power, Single Supply, Operational Amp	MC33174PG	966-4971	1.070	0.780	0.580	0.480	– –
33179	ON	14	DIP	Quad, High Output Current, Low Power, Low Noise OperationalAmp. (AUTO TEMP)	MC33179PG	966-6826	1.010	0.750	0.550	0.470	– –
33204	ON	14	SOIC	Quad, Single Supply Rail-to-Rail Input and Output Operational Amp	MC33204DG	SMD 966-6699	1.390	1.020	0.750	– –	– –
33204	ON	14	DIP	Quad, Single Supply Rail-to-Rail Input and Output Operational Amp	MC33204PG	966-6702	1.390	1.020	0.750	– –	– –
33274	ON	14	SOIC	Quad, High Slew Rate Single Supply Operational Amp (AUTOTEMP)	MC33274ADG	SMD 119-1815	2.460	2.180	1.750	– –	– –
33274	ON	14	DIP	Quad, High Slew Rate, Single Supply Operational Amp. (AUTO TEMP)	MC33274APG	966-6842	2.370	1.840	1.560	1.090	– –
34074	ON	14	SOIC	Single Supply 3V to 44V, Quad Op Amp	MC34074DG	SMD 110-4701	0.880	0.650	0.480	– –	– –

Operational Amplifiers

ON Semiconductor

492305

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	25+	50+	100+	250+
Single											
201	ON SEMI	8	SOIC	Non compensated single Op Amp	LM201ADG	SMD 142-6350	0.340	0.270	0.250	0.220	0.210
301	ON SEMI	8	SOIC	Non compensated single Op Amp	LM301ADG	SMD 142-6351	0.300	0.240	0.210	0.179	0.168
412	MAX	8	SOIC	Dual 28MHz Precision Op Amp	MAX412ESA+	SMD 142-2318	7.920	5.540	4.810	4.290	3.900
2001	ON SEMI	5	SOT-23	Rail-to-Rail single Op Amp	NCS2001SN1T1G	SMD 142-6374	0.540	0.430	0.390	0.340	0.310
2001	ON SEMI	5	SOT-23	Rail-to-Rail single Op Amp	NCS2001SQ2T1G	SMD 142-6375	0.540	0.430	0.390	0.340	0.300
2002	ON SEMI	6	TSOP	Rail-to-Rail single Op Amp	NCS2002SN2T1	SMD 142-6376	0.570	0.460	0.400	0.380	0.310
4162	MAX	8	SOIC	µPower R/R Op Amp	MAX4162ESA+	SMD 142-2320	2.260	1.740	1.440	1.300	1.160
4252	MAX	8	µMAX	Dual 3MHz R/R Op Amp	MAX4252EUA+	SMD 142-2321	2.710	1.900	1.580	1.410	1.310
5534	ON SEMI	8	SOIC	Low noise single Op Amp	NE5534ADG	SMD 142-6385	0.860	0.710	0.650	0.570	0.530
5534	ON SEMI	8	PDIP	Low noise single Op Amp	NE5534ANG	142-6386	0.900	0.720	0.660	0.580	0.540
5534	ON SEMI	8	SOIC	Low noise single Op Amp	NE5534DG	SMD 142-6387	0.810	0.660	0.590	0.550	0.500
5534	ON SEMI	8	PDIP	Low noise single Op Amp	NE5534NG	142-6388	0.830	0.680	0.620	0.560	0.520
5534	ON SEMI	8	SOIC	Low noise single Op Amp	SA5534ADG	SMD 142-6389	0.950	0.780	0.710	0.650	0.580
5534	ON SEMI	8	PDIP	Low noise single Op Amp	SA5534ANG	SMD 142-6390	0.970	0.790	0.730	0.660	0.560
5534	ON SEMI	8	PDIP	Low noise single Op Amp	SE5534ANG	142-6391	1.010	0.820	0.760	0.680	0.580
34071	ON SEMI	8	PDIP	Single supply Op Amp	MC34071PG	142-6365	0.410	0.350	0.330	0.300	0.280
34071	ON SEMI	8	SOIC	Single supply Op Amp	MC34071ADG	SMD 142-6366	0.510	0.410	0.370	0.320	0.300
33501	ON SEMI	5	SOT-23	Single rail-to-rail op amp	MC33501SNT1G	SMD 142-6413	0.720	0.580	0.540	0.490	0.380
33503	ON SEMI	8	SOT-23	Single rail-to-rail op amp	MC33503SNT1G	SMD 142-6414	0.720	0.580	0.540	0.490	0.380
Dual											
5532	ON SEMI	8	SOIC	Low noise dual Op Amp	NE5532AD8G	SMD 142-6379	0.710	0.570	0.530	0.480	0.450
5532	ON SEMI	8	PDIP	Low noise dual Op Amp	NE5532ANG	142-6380	0.650	0.530	0.490	0.450	0.420
5532	ON SEMI	8	PDIP	Low noise dual Op Amp	SA5532NG	142-6381	0.760	0.620	0.560	0.520	0.470
5532	ON SEMI	8	SOIC	Low noise dual Op Amp	SE5532AD8G	142-6383	0.840	0.690	0.640	0.560	0.530
5532	ON SEMI	8	PDIP	Low noise dual Op Amp	SE5532NG	142-6384	0.860	0.710	0.650	0.570	0.530
33077	ON SEMI	8	SOIC	Low noise dual Op Amp	MC33077DG	SMD 142-6362	0.700	0.540	0.490	0.450	0.420
33077	ON SEMI	8	PDIP	Low noise dual Op Amp	MC33077PG	142-6363	0.790	0.620	0.550	0.500	0.470
34072	ON SEMI	8	SOIC	Single supply Dual Op Amp	MC34072DG	SMD 142-6367	0.360	0.300	0.270	0.250	0.240
34072	ON SEMI	8	PDIP	Single supply Dual Op Amp	MC34072PG	142-6368	0.480	0.430	0.380	0.350	0.300
34072	ON SEMI	8	SOIC	Single supply Dual Op Amp	MC34072ADG	SMD 142-6371	0.520	0.400	0.350	0.330	0.300
Quad											
224	ON SEMI	14	SOIC	Single supply quad Op Amp	LM224DR2G	SMD 142-6352	0.171	0.140	0.123	0.109	0.093
290	ON SEMI	14	SOIC	Single supply quad Op Amp	LM2902DG	SMD 142-6355	0.130	0.118	0.110	0.103	0.083
324	ON SEMI	14	SOIC	Single supply quad Op Amp	LM324ADG	SMD 142-6353	0.128	0.121	0.114	0.105	0.091
3303	ON SEMI	14	SOIC	Single supply quad Op Amp	MC3303DG	SMD 142-6356	0.300	0.250	0.220	0.210	0.179
3303	ON SEMI	14	PDIP	Single supply quad Op Amp	MC3303PG	142-6358	0.340	0.310	0.280	0.240	0.177
3403	ON SEMI	14	SOIC	Single supply quad Op Amp	MC3403DG	SMD 142-6359	0.280	0.220	0.192	0.179	0.168
3403	ON SEMI	14	PDIP	Single supply quad Op Amp	MC3403PG	142-6361	0.380	0.310	0.280	0.250	0.197
34074	ON SEMI	14	SOIC	Single supply Quad Op Amp	MC34074DG	SMD 142-6372	0.680	0.540	0.480	0.400	0.310
34074	ON SEMI	14	SOIC	Single supply Quad Op Amp	MC34074ADG	SMD 142-6373	0.520	0.400	0.350	0.330	0.300

Operational Amplifiers

Texas Instruments

New

499821

	Mftr.	Pins/Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
211	TI	8/SOIC	Low Noise & Power Precision Op Amp	OPA211AIDG4	SMD 154-3760	5.64	5.02	4.13	3.76	3.23
2369	TI	8/SOT-23	Dual 1.8V Zero Crossover R/R I/O Op Amp	OPA2369AIDCNTG4	SMD 154-3762	2.19	1.96	1.57	1.47	1.26
2369	TI	8/MSOP	Dual 1.8V Zero Crossover R/R I/O Op Amp	OPA2369AIDGKTG4	SMD 154-3765	2.19	1.96	1.57	1.47	1.26

Operational Amplifiers

MAXIM

New

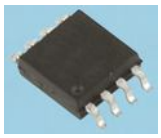
501298

-3dB BW (MHz)	Slew Rate	I/P Offset max. (mV)	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
Single												
/-85	500V/µs	18	5	SOT-23	85MHz Op Amp with Rail-to-Rail Outputs and Disable	MAX4390EUK+T	SMD155-0544	0.74	0.58	0.54	0.45	0.42
90/-	0.04V/µs	0.75	8	SO	1.8V/10microA Beyond-the-Rails Single Op Amp	MAX4241ESA+	SMD155-0541	1.29	1.17	1.07	0.90	0.83
300/-	600V/µs	9	8	SO	300MHz, Single-Supply, R/R Single Op Amp with Enable	MAX4213ESA+	SMD155-0538	2.63	2.05	1.68	1.41	1.31
500/-	220V/µs	9	5	SOT-23	Low-Power 3V/5V, 500MHz Single-Supply Single Op Amp with Rail-to-Rail Output	MAX4412EUK+T	SMD155-0534	1.83	1.41	1.16	0.98	0.92
-/0.2	0.1V/µs	5	6	SC70	200kHz Rail-to-Rail I/O Op Amp with Shutdown	MAX9911EXT+T	SMD155-0529	0.55	0.44	0.40	0.34	0.32
-/0.2	0.1V/µs	5	10	MicroMAX	200kHz Rail-to-Rail I/O Dual Op Amp with Shutdown	MAX9913EUB+	SMD155-0530	0.74	0.66	0.60	0.52	0.49
-/3	0.3V/µs	0.75	8	SO	Low-Distortion, Rail-to-Rail Op Amps Single-Supply	MAX4251ESA+	SMD155-0517	1.29	1.17	1.07	0.90	0.83
-/6.5	1.6V/µs	2	8	SO	Ultra-Low Offset/Drift, Low-Noise Precision Amplifier	MAX4239ASA+	SMD155-0521	1.23	0.98	0.89	0.76	0.71
-/7.5	1.3V/µs	20	8	SO	Very High Precision, 3V/5V Rail-to-Rail Op Amps	MAX4237AESA+	SMD155-0520	1.19	1.10	0.99	0.84	0.78
-/10	10V/µs	6	6	SOT-23	10MHz Rail-to-Rail I/O Op Amps with Shutdown & High-Output-Drive.	MAX4231AUT+T	SMD155-0522	1.21	0.97	0.88	0.75	0.69
-/10	3V/µs	0.35	8	SO	10MHz Low-Noise, Low-Distortion Rail-to-Rail Op Amps	MAX4475ASA+	SMD155-0525	0.94	0.75	0.68	0.57	0.54
-/10	4V/µs	0.6	8	SO	Wide-Bandwidth Single-Supply Rail-to-Rail I/O Single Op Amps	MAX4131ESA+	SMD155-0535	1.72	1.34	1.10	0.93	0.87
-/22	2.1V/µs	0.75	14	SO	Low-Distortion, Rail-to-Rail Op Amps Single-Supply	MAX4249ESD+	SMD155-0516	1.17	0.94	0.86	0.72	0.67
-/42	10V/µs	0.35	8	SO	10MHz Low-Noise, Low-Distortion Rail-to-Rail Op Amps	MAX4488ASA+	SMD155-0528	0.94	0.75	0.68	0.57	0.54
Dual												
85/-	500V/µs	18	8	SO	85MHz Daul Op Amp with Rail-to-Rail Outputs and Disable	MAX4392ESA+	SMD155-0545	0.89	0.80	0.74	0.61	0.57
90/-	0.04V/µs	1.4	10	MicroMAX	1.8V/10microA Beyond-the-Rails Dual Op Amp	MAX4243EUB+	SMD155-0543	1.97	1.77	1.63	1.37	1.27
300/-	600V/µs	9	8	SO	300MHz, Single-Supply, Rail-to-Rail Dual Op Amp with Enable	MAX4216ESA+	SMD155-0540	3.08	2.78	2.52	2.13	1.98
-/10	3V/µs	0.35	8	SO	10MHz Low-Noise, Low-Distortion Rail-to-Rail Dual Op Amps	MAX4477ASA+	SMD155-0527	1.43	1.15	1.04	0.88	0.82
-/10	10V/µs	6	10	MicroMAX	High Output Drive, 10MHz GBWP, Rail-to-Rail I/O Dual Op Amp with Shut-down	MAX4233AUB+	SMD155-0523	0.90	0.80	0.66	0.56	0.52
-/10	4V/µs	0.75	8	SO	Wide-Bandwidth Single-Supply Rail-to-Rail I/O Dual Op Amps	MAX4132ESA+	SMD155-0537	2.47	1.93	1.57	1.33	1.25
Quad												
150/-	600V/µs	20	14	SO	High-Speed, Single-Supply Quad Op Amp with Rail-to-Rail Outputs	MAX4020ESD+	SMD155-0531	3.59	2.80	2.29	2.09	1.81
-/0.5	0.2V/µs	500	14	SOIC	Micropower, Single-Supply, Rail-to-Rail Quad Op Amp	MAX494CSD+	SMD155-0532	5.91	4.58	3.77	3.45	2.96

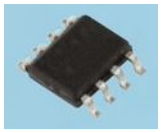
LMP223x Micropower 1.8V Precision Single/Dual Op Amp
LMP7721MA 17MHz GBWP Op Amp

National Semiconductor

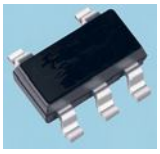
New



8 pin MSOP



8 pin SOIC



5 pin SOT23

LMP223x

- Gain Bandwidth Product 130KHz
- Operating Temperature -40°C to 125°C
- Input Offset Voltage Max 150µV
- Supply Voltage 1.6V to 5.5V
- Supply Current 10µA per Channel
- Input Bias Current 20fA
- PSRR 120dB & CMRR 97dB

The LMP2231/2 are single/dual micropower precision amplifiers designed for battery powered applications. The 1.8V to 5.0V guaranteed supply voltage range and quiescent power consumption of only 18µW/29µW extend the battery life in portable battery operated systems. The high impedance CMOS input makes it ideal for instrumentation and other sensor interface applications. The precise specifications make the devices suitable for maintaining system accuracy and long term stability. The LMP2231/2 has a rail-to-rail output that swings 15 mV from the supply voltage, which increases system dynamic range. The common mode input voltage range extends 200 mV below the negative supply, thus the devices are an ideal choice for use in single supply applications with ground sensing.

501296

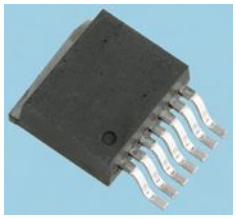
Single/Dual Amp	Max. Input Offset Voltage Drift	Typ. Slew Rate	Pins	Pkg	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
Single	±1.5µV/°C	9.3V/µs	8	SOIC	LMP7721MA	SMD155-2453	7.68	6.83	6.15	5.13	4.40
Single	±0.4µV/°C	48V/ms	8	SOIC	LMP2231AMAE	SMD155-2444	2.61	2.28	1.83	1.52	1.31
Single	±0.4µV/°C	48V/ms	5	SOT-23	LMP2231AMFE	SMD155-2445	2.61	2.28	1.83	1.52	1.31
Single	±2.5µV/°C	48V/ms	8	SOIC	LMP2231BMAE	SMD155-2446	2.07	1.82	1.45	1.19	1.04
Single	±2.5µV/°C	48V/ms	5	SOT-23	LMP2231BMFE	SMD155-2447	2.07	1.82	1.45	1.19	1.04
Dual	±0.5µV/°C	58V/ms	8	SOIC	LMP2232AMAE	SMD155-2449	3.55	3.11	2.50	2.08	1.79
Dual	±0.5µV/°C	48V/ms	8	MSOP	LMP2232AMME	SMD155-2450	3.55	3.11	2.50	2.08	1.79
Dual	±2.5µV/°C	58V/ms	8	SOIC	LMP2232BMAE	SMD155-2451	2.99	2.62	2.10	1.74	1.49
Dual	±2.5µV/°C	48V/ms	8	MSOP	LMP2232BMME	SMD155-2452	2.99	2.62	2.10	1.74	1.49

Apex Precision Power
Single/Dual Power Op Amps & PWM Amps

CIRRUS LOGIC



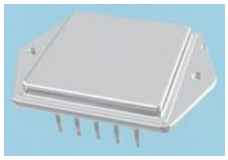
7 Pin TO-220



7 Pin D2PAK



8 Pin TO-3



10 Pin DIP



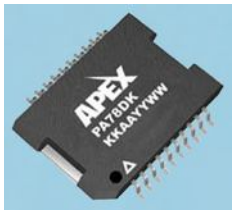
12 Pin SIP



12 Pin SIP



12 Pin DIP



20 Pin PSOP



23 Pin SIP



24 Pin PSOP

New

This family of devices are high voltage, high output current operational amplifiers designed to drive resistive, inductive and capacitive loads. The Op Amps are available in single and dual amplifiers in a single package and are single or dual supply operation. Typical applications are motor and motion control.

RL Re-reeling available

Operational Amplifiers - continued

Apex Precision Power
Single/Dual Power Op Amps & PWM Amps - continued

501297

GBW Product (MHz)	Power BW (KHz)	Supply Voltage (V)	Slew Rate	Pins/Pkg	Op. Temp Min/Max (°C)	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
Single Op Amp											
60	60	150	30V/µs	8 / TO-3	-25 / 85	75mA Peak O/P Current Single Operational Amplifier	PA83	155-3611▲	178.03	152.13	139.45
2.1	6	225	8V/µs	8 / TO-3	-25 / 85	100mA Peak O/P Current Single Operational Amplifier	PA88	155-3615▲	199.23	170.26	156.07
3	30	175	30V/µs	7 / DDPAK	-25 / 85	120mA Peak O/P Current Operational Amplifier	PA240CC	155-3592●	21.35	17.94	14.94
3	30	175	30V/µs	7 / TO-220	-25 / 85	120mA Peak O/P Current Operational Amplifier	PA240CX	155-3593●	25.23	21.20	17.66
3	30	175	30V/µs	8 / TO-3	-25 / 85	120mA Peak O/P Current Operational Amplifier	PA241CE	155-3594●	51.13	42.95	35.79
3	30	175	30V/µs	24 / PSOP	-25 / 85	120mA Peak O/P Current Operational Amplifier	PA241DF	SMD 155-3595●	25.11	21.09	17.57
1	200	100	350V/µs	12 / SIP	-40 / 125	150mA Peak O/P Current Operational Amplifier	PA69EU	155-3601●	25.32	20.26	16.89
90	90	150	30V/µs	8 / TO-3	-25 / 85	150mA Peak O/P Current Operational Amplifier	PA08	155-3587▲	154.68	139.21	116.01
1	200	175	350V/µs	20 / PSOP	-40 / 125	200mA Peak O/P Current Single Operational Amplifier	PA78DK	SMD 155-3608●	30.89	21.63	18.03
1	200	175	350V/µs	12 / SIP	-40 / 125	200mA Peak O/P Current Single Operational Amplifier	PA78EU	155-3609●	49.35	44.42	37.01
100	300	225	1000V/µs	8 / TO-3	-25 / 85	200mA Peak O/P Current Single Operational Amplifier	PA85	155-3612▲	218.29	186.54	170.99
100	300	225	1000V/µs	8 / TO-3	-25 / 85	200mA Peak O/P Current Single Operational Amplifier	PA85A	155-3613▲	259.76	221.97	203.48
1	200	125	350V/µs	12 / SIP	-40 / 125	200mA Peak O/P Current Single Operational Amplifier	PA86EU	155-3614●	40.46	32.38	26.98
1.4	13.6	40	1.4V/µs	12 / SIP	-40 / 125	1.5A Peak O/P Current Operational Amplifier	PA60EU	155-3600●	20.79	16.63	13.86
320	320	150	100V/µs	8 / TO-3	-25 / 85	1.5A O/P Current Single Operational Amplifier	PB58	155-3617▲	145.78	131.20	109.33
320	320	150	100V/µs	8 / TO-3	-25 / 85	2.0A O/P Current Single Operational Amplifier	PB58A	155-3618▲	172.74	147.61	135.31
150	750	40	200V/µs	8 / TO-3	-25 / 85	2A Peak O/P Current Operational Amplifier	PA09	155-3588▲	229.10	195.78	179.47
1	23	60	2.6V/µs	8 / TO-3	-25 / 85	5A Peak O/P Current Operational Amplifier	PA01	155-3582▲	105.82	95.23	79.37
4.5	350	38	20V/µs	8 / TO-3	-25 / 85	5A Peak O/P Current Operational Amplifier	PA02	155-3583▲	88.24	79.41	66.18
4.5	350	38	20V/µs	8 / TO-3	-25 / 85	5A Peak O/P Current Operational Amplifier	PA02A	155-3584▲	114.75	103.28	86.07
4	15	45	3V/µs	8 / TO-3	-25 / 85	5A Peak O/P Current Operational Amplifier	PA10	155-3589▲	99.90	89.90	74.93
1	16	36	2.6V/µs	8 / TO-3	-25 / 85	10A Peak O/P Current Operational Amplifier	PA51	155-3597▲	117.64	105.88	88.23
1	16	40	2.6V/µs	8 / TO-3	-25 / 85	10A Peak O/P Current Operational Amplifier	PA51A	155-3599▲	123.75	111.38	92.81
4	20	45	4V/µs	8 / TO-3	-25 / 85	15A Peak O/P Current Operational Amplifier	PA12	155-3590▲	114.26	102.84	85.69
4	20	50	4V/µs	8 / TO-3	-25 / 85	15A Peak O/P Current Operational Amplifier	PA12A	155-3591▲	139.59	125.63	104.69
90	90	200	50V/µs	12 / DIP	-25 / 85	20A Peak O/P Current Operational Amplifier	PA04	155-3585▲	344.15	311.05	278.22
Dual Op Amp											
3	30	175	30V/µs	24 / PSOP	-25 / 85	120mA Peak O/P Current Dual Operational Amplifier	PA243DF	SMD 155-3596●	54.39	45.69	38.06
1	200	175	350V/µs	20 / PSOP	-40 / 125	200mA Peak O/P Current Dual Operational Amplifier	PA79DK	SMD 155-3610●	52.49	41.99	34.99
1.4	13.6	40	1.4V/µs	7 / DDPAK	-25 / 85	1.5A Peak O/P Current Dual Operational Amplifier	PA75CC	155-3603●	14.17	9.92	8.26
1.4	13.6	40	1.4V/µs	7 / TO-220	-25 / 85	1.5A Peak O/P Current Dual Operational Amplifier	PA75CD	155-3605●	14.17	9.92	8.26
1.4	13.6	40	1.4V/µs	7 / TO-220	-25 / 85	1.5A Peak O/P Current Dual Operational Amplifier	PA75CX	155-3606●	15.50	10.85	9.05
1.4	13.6	40	1.4V/µs	8 / TO-3	-25 / 85	3A Peak O/P Current Dual Operational Amplifier	PA74	155-3602▲	68.17	61.35	51.12
1.4	13.6	40	1.4V/µs	8 / TO-3	-25 / 85	3A Peak O/P Current Dual Operational Amplifier	PA76	155-3607▲	68.17	61.35	51.12
PWM Amp											
–	–	60	–	23 / SIP	-40 / 125	10A Peak O/P Current PWM Amp.	SA305EX	155-3620●	29.19	23.35	19.46
–	–	60	–	23 / SIP	-40 / 125	10A Peak O/P Current PWM Amp.	SA56EX	155-3621●	28.69	20.08	16.74
2	–	100	15V/µs	10 / DIP	-25 / 85	20A PWM Amp	SA01	155-3619▲	452.37	419.47	384.51

Micropower 1.8V Precision Single/Dual Op Amps with CMOS Input

New

National Semiconductor

508934

Op. Temp.	GBWP (MHz)	Typ. Slew Rate	Pins	Pkg	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
Single											
-40 to 125	130	48V/ms	8	SOIC	LMP2231AMAE	SMD 155-2444●	2.61	2.28	1.83	1.52	1.31

FET Operational Amplifiers

210997

	Mftr.	Pins/Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
Single										
031	TI	8/SOIC	BI-FET Operational Amp. - Low Power	TL031CD	SMD 110-2998●	0.770	0.550	0.420	– –	– –
42	ADI	8/DIP	JFET High Speed, Fast Settling, Precision Operational Amp.	OP42FZ	400-543▲	6.480	4.420	3.570	– –	– –
51	TI	8/SOIC	Enhanced-JFET Precision Operational Amplifier	TL051ACD	SMD 145-9676●	1.820	1.270	0.970	0.840	0.830
71	TI	8/SOIC	Low-Noise JFET-Input Operational Amplifier	TL071ACD	SMD 145-9695●	0.340	0.260	0.195	0.173	0.155
71	TI	8/SOIC	Low-Noise JFET-Input Operational Amplifier	TL071BCD	SMD 145-9698●	0.470	0.340	0.260	0.240	0.210
71	TI	8/PDIP	Low-Noise JFET-Input General-Purpose Operational Amplifier	TL071IP	145-9700●	0.720	0.460	0.330	0.240	0.194
74	TI	14/SOIC	Low-Noise JFET-Input Operational Amplifier	TL074BCD	SMD 145-9705●	0.810	0.550	0.400	0.290	0.240
80	TI	8/PDIP	JFET-Input Operational Amplifier	TL080CP	145-9708●	0.680	0.480	0.360	0.270	0.240
81	TI	8/SOIC	JFET-Input Operational Amplifier	TL081ACD	SMD 145-9709●	0.720	0.460	0.330	0.240	0.194
81	TI	8/SOIC	JFET-Input Operational Amplifier	TL081BCD	SMD 145-9710●	0.440	0.320	0.250	0.220	0.195
81	TI	8/SOIC	JFET-Input Operational Amplifier	TL081ID	SMD 145-9712●	0.720	0.460	0.330	0.240	0.194
84	TI	14/SOIC	JFET-Input Operational Amplifier	TL084QD	SMD 145-9714	0.820	0.620	0.470	0.400	0.370
411	TI	8/SOIC	Precision JFET-input Operational Amplifier	LF411CD	SMD 145-9494●	0.930	0.660	0.510	0.360	0.350
051	TI	8/SOIC	Enhanced JFET Precision Operational Amplifier	TL051CD	SMD 959-3179●	1.120	0.800	0.610	– –	– –
051	TI	8/DIP	BI-FET Operational Amp. - Low Noise enhanced TL071	TL051CP	110-2999●	1.160	0.830	0.610	– –	– –
051	TI	8/DIP	BI-FET Operational Amp. - Low Noise enhanced TL071	TL051CP.	400-579	0.660	0.470	0.350	– –	– –
061	TI	8/SOIC	Low-Power JFET-Input Operational Amplifier	TL061ACD	SMD 959-3217●	0.510	0.430	0.350	– –	– –
061	TI	8/SOIC	Low-Power JFET-Input General-Purpose Operational Amplifier	TL061CD	SMD 959-3225●	0.500	0.320	0.230	– –	– –
061	ST	8/DIP	BI-FET Operational Amp. - Low Power	TL061CN	109-4346●	0.410	0.330	0.300	0.240	0.210
061	ST	8/DIP-8	FET Op Amp, Low Power	TL061CN.	400-580▲	0.270	0.220	0.195	0.185	0.180
061	TI	8/DIP	BI-FET Operational Amp. - Low Power	TL061CP	110-3000●	0.500	0.320	0.230	– –	– –
061	TI	8/DIP	BI-FET Operational Amp. - Low Power	TL061CP..	400-592	0.300	0.200	0.138	– –	– –
061	TI	8/SOIC	Low-Power JFET-Input General-Purpose Operational Amplifier	TL061ID	SMD 959-3233●	0.530	0.460	0.350	– –	– –
61	TI	8/PDIP	Low-Power JFET-Input General-Purpose Operational Amplifier	TL061IP	145-9687●	0.850	0.550	0.390	0.290	0.230
62	TI	8/PDIP	Low-Power JFET-Input Operational Amplifier	TL062ACP	145-9688●	0.720	0.460	0.330	0.240	0.194
62	TI	8/SOIC	Low-Power JFET-Input Operational Amplifier	TL062BCD	SMD 145-9689●	1.010	0.720	0.550	0.410	0.370
071	TI	8/SOIC	J-FET Low Noise Op Amp	TL071CD	SMD 958-9449●	0.430	0.270	0.196	– –	– –
071	ST	8/DIP	Op Amp, Low Power	TL071CN	109-4351●	0.410	0.330	0.300	0.240	0.210
071	TI	8/DIP	BI-FET Operational Amp. - Low Noise	TL071CP	110-3001●	0.470	0.320	0.230	– –	– –
071	TI	8/SOIC	Low-Noise JFET-Input General-Purpose Operational Amplifier	TL071ID	SMD 959-3314●	0.420	0.320	0.260	– –	– –
081	TI	8/DIP	JFET-Input Operational Amplifier	TL081ACPG4	959-3365●	0.350	0.270	0.196	– –	– –
081	TI	8/SOIC	BI-FET Op Amp	TL081CD	SMD 110-3182●	0.430	0.270	0.196	0.145	– –
081	ST	8/DIP	BI-FET Op Amp	TL081CN	109-4353●	0.410	0.330	0.300	0.240	0.210
081	TI	8/DIP	BI-FET Operational Amp.	TL081CP	110-3002●	0.450	0.300	0.220	– –	– –

RL Re-reeling available

Farnell

	Mftr.	Pins/Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
081	TI	8/DIP	JFET-Input General-Purpose Operational Amplifier	TL081IPG4	959-3373●	0.510	0.420	0.330	– –	– –
110	TI	16/SOIC	OP Amp, FET-I/P	INA110KU	SMD 121-2396	10.400	7.970	6.760	– –	– –
111	TI	8/TO-99	DI-FET Precision Op Amp. Low Noise, Low offset and Low bias Current	OPA111AM	SMD 109-7523●	27.570	23.830	18.820	– –	– –
121	TI	8/SOIC	Low Cost Precision Difet Operational Amplifier	OPA121KU	SMD 145-9546●	6.930	5.610	4.960	4.450	4.340
124	TI	8/SOIC	OP Amp,Single, DIFET	OPA124UAE4	SMD 120-6924●	7.010	5.860	4.940	– –	– –
124	TI	8/SOIC	OP Amp,Single, DIFET	OPA124UE4	SMD 120-6923●	5.780	4.800	4.040	– –	– –
129	TI	8/SOIC	OP Amp,Single, DIFET	OPA129UBE4	SMD 120-6926●	8.170	6.790	5.720	– –	– –
129	TI	8/SOIC	OP Amp,Single, DIFET Ultra Low Bias Current	OPA129UE4	SMD 120-6925●	4.780	3.990	3.360	– –	– –
130	TI	8/SOIC	OP Amp,Single FET I/P	OPA130UAE4	SMD 120-6927●	2.090	1.760	1.480	– –	– –
132	TI	8/SOIC	OP Amp,Single FET I/P	OPA132UAE4	SMD 120-6929●	2.120	1.770	1.490	– –	– –
137	TI	8/SOIC	Low Cost FET-Input Operational Amplifiers	OPA137U.	SMD 145-9550●	1.313	– –	– –	– –	– –
137	TI	5/SOT-23	OP Amp,Single FET I/P	OPA137NA	SMD 121-2429●	0.910	0.760	0.610	– –	– –
137	BB	8/DIP	FET-Input Operational Amp	OPA137PA	109-7424	1.050	0.860	0.650	– –	– –
137	BB	8/DIP	FET-Input Operational Amp	OPA137PA.	117-274	0.520	0.420	0.320	– –	– –
137	TI	8/SOIC	FET-Input Operational Amp	OPA137UA	SMD 121-4347●	1.340	0.910	0.650	– –	– –
351	ST	8/DIP	JFET Op Amp, WBW	LF351N	136-6577●	0.880	0.580	0.480	0.450	0.340
356	NSC	8/TO-99	BI-FET General Purpose Operational Amp	LF356H	121-6160●	2.210	2.020	1.830	1.640	1.450
356	NSC	8/SOIC	BI-FET General Purpose Operational Amp	LF356M	SMD 948-6992●	0.540	0.440	0.410	0.400	0.370
356	NSC	8/DIP	BI-FET GP Op Amp	LF356N	948-7000●	0.680	0.550	0.510	0.470	0.390
411	NSC	8/DIP	BI-FET Low Offset Operational Amp - Vos 0.5mV mAx. @ 25°C	LF411ACN	948-7018●	4.450	3.510	3.170	3.080	2.890
445	TI	8/PDIP	OP Amp, FET-I/P	OPA445AP...	121-2312●	8.460	5.770	4.660	– –	– –
445	BB	8/SOIC	High Voltage, FET Input Amp	OPA445AU	SMD 109-7483	6.810	5.680	5.120	– –	– –
544	TI	5/TO-220	High Voltage, High Current, Power Operational Amp	OPA544T.	109-7575●	10.210	7.820	6.630	– –	– –
548	ADI	8/SOIC	Precision, Low Power BiFET Op Amp	AD548JRZ	SMD 143-8355●	2.380	1.610	1.200	– –	– –
548	ADI	8/PDIP	Precision, Low Power BiFET Op Amp	AD548KNZ	143-8356●	5.180	3.530	2.850	– –	– –
602	TI	8/SOIC	OP Amp, DIFET	OPA602AUE4	SMD 120-7066●	6.340	5.300	4.780	– –	– –
602	TI	8/PDIP	OP Amp, DIFET	OPA602BP	121-2316●	9.060	6.950	5.890	– –	– –
604	TI	8/DIP	FET Operational Amp. - Low Noise, Low Distortion, High GBW	OPA604APG4	117-8434●	1.850	1.550	1.210	– –	– –
606	TI	8/DIP	DI-FET 13MHz Bandwidth Operational Amp. Low bias Current, offset Voltage and distortion	OPA606KPG4	121-9416●	5.970	4.070	3.280	3.170	3.090
627	TI	8/DIP	DI-FET High Speed Precision Operational Amp. Low Noise, Low offset. Unity Gain stable	OPA627APG4	121-8524●	18.870	15.760	14.170	– –	– –
627	TI	8/SOIC	OP Amp, DIFET	OPA627AUE4	SMD 120-7067●	18.670	15.560	14.040	– –	– –
627	TI	8/PDIP	OP Amp, DIFET	OPA627BP	121-2318●	27.740	23.090	20.510	– –	– –
627	TI	8/TO-99	Precision High-Speed Difet(R) Operational Amplifiers	OPA627AM	145-9637●	31.080	24.710	21.940	21.520	20.810
627	TI	8/TO-99	Precision High-Speed Difet(R) Operational Amplifiers	OPA627BM	145-9638●	29.270	25.270	22.660	22.070	21.510
627	TI	8/TO-99	Precision High-Speed Difet(R) Operational Amplifiers	OPA627SM	145-9639●	56.660	48.930	44.860	43.620	42.500
637	TI	8/TO-99	Precision High-Speed Difet(R) Operational Amplifiers	OPA637AM	145-9640●	27.900	24.100	22.100	20.360	19.880
637	TI	8/TO-99	Precision High-Speed Difet(R) Operational Amplifiers	OPA637BM	145-9641●	29.430	25.410	23.300	21.480	20.960
637	TI	8/PDIP	OP Amp, DIFET	OPA637BP	121-2319●	23.730	18.860	16.750	– –	– –
656	TI	5/SOT-23	Wideband, Unity Gain stable FET Input Op-Amp	OPA656NB	SMD 121-4432▲	7.690	6.010	4.580	– –	– –
657	TI	5/SOT-23	OP Amp, Wideband, JFET, Input VFB	OPA657N	SMD 121-2324	5.410	4.510	3.610	– –	– –
657	TI	5/SOT-23	OP Amp, 1.6GHZ, FET-I/P	OPA657NB	SMD 121-2325●	7.920	6.330	5.270	4.510	3.950
657	TI	8/SOIC	OP Amp, 1.6GHZ, FET-I/P	OPA657U	SMD 121-2326●	6.780	4.620	3.720	3.590	3.340
657	TI	8/SOIC	OP Amp, 1.6GHZ, FET-I/P	OPA657UB	SMD 121-2327●	8.820	6.010	4.850	4.670	4.360
711	ADI	8/DIP	BI-FET High Speed Op Amp	AD711JNZ	960-4839●	2.380	1.610	1.200	– –	– –
711	ADI	8/SOIC	BI-FET High Speed Operational Amp	AD711JRZ	SMD 942-6396●	2.350	1.600	1.190	1.130	– –
744	ADI	8/SOIC	Precision 500ns Settling BiFET Op Amp	AD744JRZ	NEW SMD 165-1300●	4.200	3.260	2.680	2.450	2.100
744	ADI	8/PDIP	Precision, 500 ns Settling BiFET Op Amp	AD744KNZ	143-8362●	5.740	3.910	3.160	– –	– –
744	ADI	8/DIP	BI-FET High Speed Precision Op. Amp - 500ns to 0.01% for 10V step	AD744JNZ	960-4847●	4.540	3.090	2.300	– –	– –
795	ADI	8/SOIC	Low Power Low Noise Precision FET Op Amp	AD795JRZ	NEW SMD 165-1296●	5.380	4.180	3.430	3.140	2.690
820	ADI	8/PDIP	Single-Supply, Rail-to-Rail, Low Power FET-Input Op Amp	AD820ANZ	143-8579●	3.610	2.460	1.830	– –	– –
820	ADI	8/SOIC	FET Op Amp, RR	AD820ARZ	SMD 942-6469●	3.520	2.400	1.790	1.700	– –
825	ADI	8/SOIC	General Purpose, High Speed, FET-Input Operational Amp	AD825ARZ	SMD 960-3735●	3.770	2.570	1.910	– –	– –
843	ADI	8/PDIP	34 MHz, CBFET Fast Settling Op Amp	AD843JNZ	143-8585●	8.610	5.870	4.730	– –	– –
843	ADI	8/PDIP	34 MHz, CBFET Fast Settling Op Amp	AD843KNZ	143-8586●	9.790	6.670	5.380	– –	– –
845	ADI	8/DIP	Fast Settling FET Operational Amp - 350ns to 0.01%, stable Gains > 1	AD845JNZ	960-4855●	6.410	4.370	3.530	– –	– –
845	ADI	8/DIP	Fast Settling FET Operational Amp - 350ns to 0.01%, stable Gains > 1	AD845KNZ	960-5649●	7.430	5.060	4.090	– –	– –
1022	LT	8/DIP	High Speed, Precision JFET Input Op Amp	LT1022CN8#PBF	133-0565●	4.730	2.680	2.270	1.990	1.770
1055	LT	8/SOIC	Single, Precision, High Speed, JFET Input Op Amp	LT1055S8#PBF	SMD 133-0569●	3.620	2.830	2.300	2.030	1.790
1056	LT	8/SOIC	Single, Precision, High Speed, JFET Input Op Amp	LT1056S8#PBF	SMD 133-0570●	3.210	1.890	1.860	1.810	1.770
1792	LT	8/SOIC	Low Noise, Precision,JFET Input Op Amp	LT1792CS8#PBF	SMD 133-0698●	4.500	2.540	2.000	1.950	1.900
1793	LT	8/SOIC	Single, Low Noise, JFET Input Op Amp	LT1793CS8#PBF	SMD 133-0699●	4.500	2.540	2.000	1.950	1.900
2061	TI	8/8	JFET-Input High-OUTPUT-DRIVE UPower Operational Amplifier	TLE2061CDG4	SMD 123-4847●	1.320	0.980	0.760	0.650	0.600
2061	TI	8/PDIP	JFET-Input High-OUTPUT-DRIVE UPower Operational Amplifier	TLE2061CPE4	123-4740●	1.320	0.980	0.760	0.650	0.600
2061	TI	8/SOIC	JFET Input High Output drive, microPower Operational Amp. (IND TEMP)	TLE2061ID	SMD 110-2946●	1.440	1.080	0.820	– –	– –
2061	TI	8/DIP	JFET Input High Output drive, microPower Operational Amp. (IND TEMP)	TLE2061IP	110-2947●	1.440	1.080	0.820	– –	– –
2061	TI	8/DIP	JFET Input High Output drive, microPower Operational Amp. (IND TEMP)	TLE2061IP.	305-5139	0.250	– –	– –	– –	– –
2061	TI	8/SOIC	Excalibur JFET-Input High-Output-Drive uPower Operational Amplifier	TLE2061ACD	SMD 145-9868●	1.670	1.140	0.820	0.760	0.700
2061	TI	8/SOIC	Excalibur JFET-Input High-Output-Drive uPower Operational Amplifier	TLE2061AID	SMD 145-9870●	1.780	1.210	0.870	0.810	0.750
2071	TI	8/SOIC	Excalibur Low-Noise High-Speed JFET-Input Operational Amplifier	TLE2071ACD	SMD 145-9876●	1.570	1.060	0.760	0.710	0.660
2071	TI	8/SOIC	Excalibur Low-Noise High-Speed JFET-Input Operational Amplifier	TLE2071AID	SMD 145-9877●	1.670	1.140	0.820	0.760	0.700
2072	TI	8/SOIC	Excalibur Low-Noise High-Speed JFET-Input Dual Operational Amplifier	TLE2072ACD	SMD 145-9882●	2.400	1.640	1.220	1.160	1.080
2081	TI	8/SOIC	Excalibur High-Speed JFET-Input Operational Amplifier	TLE2081ACD	SMD 145-9889●	1.460	0.990	0.710	0.660	0.610
2081	TI	8/SOIC	High-Speed JFET-Input Operational Amplifier	TLE2081CD	SMD 145-9890●	0.940	0.760	0.560	0.530	0.520
2081	TI	8/SOIC	High-Speed JFET-Input Operational Amplifier	TLE2081ID	SMD 145-9893●	1.460	0.990	0.710	0.660	0.610
2082	TI	8/SOIC	Excalibur High-Speed JFET-Input Dual Operational Amplifier	TLE2082ACD	SMD 145-9894●	2.110	1.440	1.070	1.010	0.950
2131	TI	8/SOIC	General Purpose FET-Input Operational Amplifiers	OPA2131UJ	SMD 145-9555●	2.710	1.850	1.370	1.300	1.220
2161	TI	8/SOIC	JFET-Input High-Output-Drive Low-Power Decompensated Operational Amplifier	TLE2161CD	SMD 145-9917●	1.230	0.840	0.600	0.560	0.520
2161	TI	8/SOIC	JFET-Input High-Output-Drive Low-Power Decompensated Operational Amplifier	TLE2161ID	SMD 145-9918●	1.460	0.990	0.710	0.660	0.610
2071	TI	8/SOIC	Low-Noise High-SPEED JFET-Input Operational Amplifier	TLE2071CDG4	SMD 123-4830●	1.110	0.830	0.620	0.550	0.500
2071	TI	8/PDIP	Low-Noise High-SPEED JFET-Input Operational Amplifier	TLE2071CPE4	123-4799●	1.110	0.830	0.620	0.550	0.500
2071	TI	8/SOIC	Low-Noise High-SPEED JFET-Input Operational Amplifier	TLE2071IDG4	SMD 123-4826●	1.440	1.070	0.820	0.710	0.640
4000	ADI	8/SOIC	Single, Precision JFET Input Operational Amplifier	ADA4000-1ARZ	SMD 149-8688●	1.430	1.040	0.810	– –	– –
4131	TI	16/SOIC	General Purpose FET-Input Operational Amplifiers	OPA4131UA	SMD 145-9611●	6.510	4.430	3.580	3.450	3.210
4601	TI	8/SOIC	OP Amp, FET I/P	THS4601ID	SMD 845-3420●	13.430	10.680	9.490	– –	– –
8033	ADI	8/SOIC	Single High Speed Fast FET Op Amp	AD8033ARZ	SMD 158-1970●	2.140	1.510	1.140	– –	– –
8510	ADI	8/SOIC	Precision, Very Low Noise, Low Input Bias Current, Wide Bandwidth, Single JFET Operational Amplifier	AD8510ARZ	SMD 138-9162●	2.320	1.590	1.180	1.120	1.050
8510	ADI	8/SOIC	Precision, Very Low Noise, Low Input Bias Current, Wide Bandwidth, Single JFET Operational Amplifier	AD8510BRZ	SMD 138-9163●	4.940	3.380	2.510	2.390	2.230
8513	ADI	14/SOIC	Precision, Very Low Noise, Low Input Bias Current, Wide Bandwidth JFET Operational Amplifier	AD8513ARZ	SMD 839-7970●	6.830	4.800	3.870	– –	– –
8610	ADI	8/SOIC	Single Precision Wide BW JFET Op Amp	AD8610ARZ	SMD 862-1578●	7.880	5.400	4.360	– –	– –
8625	ADI	14/SOIC	Precision Low Power Single-Supply JFET Amplifier	AD8625ARZ	SMD 158-1953●	7.380	5.270	4.260	– –	– –
8627	ADI	8/SOIC	Precision Low Power Single-Supply JFET Amplifier	AD8627ARZ	SMD 158-1955●	2.930	2.260	1.730	– –	– –

RL Re-reeling available

Farnell

FET Operational Amplifiers - continued

	Mftr.	Pins/Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
8641	ADI	5/SC-70	Single, Low Power, Rail-to-Rail Output, Precision JFET Amplifier	AD8641AKSZ-R2	SMD 107-8272	3.730	2.710	2.090	– –	– –
8641	ADI	8/SOIC	Single, Low Power, Rail-to-Rail Output, Precision JFET Amplifier	AD8641ARZ	SMD 107-8273	3.510	2.500	1.860	– –	– –
Dual										
32	TI	8/SOIC	Enhanced-JFET Low-Power Low-Offset Dual Operational Amplifier	TL032ACD	SMD 145-9667	1.900	1.290	0.930	0.860	0.800
32	TI	8/SOIC	Enhanced-JFET Low-Power Low-Offset Dual Operational Amplifier	TL032AID	SMD 145-9669	1.670	1.140	0.820	0.760	0.700
032	TI	8/SOIC	Dual, BI-FET Operational Amp - Low Power	TL032CD	SMD 110-3004	1.200	0.850	0.650	– –	– –
032	TI	8/DIP	Dual, BI-FET Operational Amp - Low Power enhanced TL062	TL032CP	110-6012	1.200	0.850	0.650	– –	– –
032	TI	8/SOIC	Dual Enhanced JFET Low-Power Precision Operational Amplifier	TL032ID	SMD 959-3152	0.690	0.490	0.350	– –	– –
52	TI	8/SOIC	Enhanced-JFET Precision Dual Operational Amplifier	TL052ACD	SMD 145-9677	1.030	0.830	0.630	0.580	0.560
52	TI	8/SOIC	Enhanced-JFET Precision Dual Operational Amplifier	TL052AID	SMD 145-9679	3.460	2.420	1.830	1.590	1.570
052	TI	8/SOIC	Dual Enhanced JFET Precision Operational Amplifier	TL052CDG4	SMD 959-3187	1.630	1.340	1.090	– –	– –
052	TI	8/DIP	Dual, BI-FET Operational Amp - Low Noise enhanced TL072	TL052CP	110-6013	1.570	1.060	0.760	– –	– –
052	TI	8/SOIC	Dual Enhanced JFET Precision Operational Amplifier	TL052ID	SMD 959-3195	1.710	1.440	1.190	– –	– –
062	TI	8/SOIC	Low-Power JFET-Input Operational Amplifier	TL062ACD	SMD 959-3241	0.430	0.340	0.270	– –	– –
062	TI	8/SOIC	Dual BI-FET Op Amp	TL062CD	SMD 110-3178	0.450	0.300	0.220	– –	– –
062	ST	8/DIP	Dual, BI-FET Operational Amp - Low Power	TL062CN	109-4347	0.430	0.350	0.310	0.240	0.220
062	TI	8/DIP	Dual BI-FET Op Amp	TL062CP	110-6014	0.420	0.290	0.210	– –	– –
062	TI	8/SOIC	Dual Low-Power JFET-Input GENERAL-PURPOSE Operational Amplifier	TL062CPSR	SMD 123-6509	0.210	0.157	0.120	0.111	0.109
062	TI	8/TSSOP	Dual Low-Power JFET-Input General-Purpose Operational Amplifier	TL062CPW	SMD 959-3250	0.210	0.168	0.139	– –	– –
062	TI	8/SOIC	Dual Low-Power JFET-Input General-Purpose Operational Amplifier	TL062ID	SMD 959-3268	0.420	0.280	0.210	– –	– –
72	TI	8/PDIP	Dual Low-Noise JFET-Input General-Purpose Operational Amplifier	TL072IP	145-9704	0.570	0.360	0.260	0.193	0.155
072	TI	8/SOIC	Dual JFET Op Amp, Low Noise	TL072ACD	SMD 959-3322	0.430	0.300	0.220	– –	– –
072	TI	8/DIP	Dual BI-FET Op Amp	TL072ACP	110-3005	0.720	0.460	0.330	– –	– –
072	TI	8/SOIC	Low-Noise JFET-Input Operational Amplifier	TL072BCD	SMD 959-3330	0.670	0.570	0.470	– –	– –
072	TI	8/SOIC	Dual BI-FET Op Amp, Low Noise	TL072CD	SMD 110-3006	0.380	0.250	0.181	– –	– –
072	ST	8/DIP	Dual BI-FET Op Amp, Low Noise	TL072CN	109-4352	0.650	0.410	0.310	0.260	0.174
072	TI	8/DIP	Dual BI-FET Op Amp, Low Noise	TL072CP	110-6015	0.450	0.300	0.220	– –	– –
072	TI	8/SOIC	Dual, BI-FET Operational Amp - Low Noise (IND TEMP)	TL072ID	SMD 110-3190	0.570	0.360	0.260	– –	– –
82	ADI	8/MSOP	Dual JFET Input Op Amp	ADTL082ARMZ-R2	SMD 133-1019	0.670	0.500	0.370	0.360	0.340
82	ADI	8/SOIC	Dual JFET Input Op Amp	ADTL082JRZ	SMD 133-1020	0.630	0.450	0.350	0.310	0.270
082	TI	8/SOIC	JFET-Input Operational Amplifier	TL082ACD	SMD 959-3381	0.430	0.330	0.240	– –	– –
082	TI	8/SOIC	JFET-Input Operational Amplifier	TL082ACDG4	SMD 123-6510	0.270	0.210	0.182	0.157	0.139
082	TI	8/DIP	Dual, BI-FET Operational Amp., as TL082CP but 6mV mAx. offset Voltage	TL082ACP	110-3189	0.490	0.330	0.240	– –	– –
082	TI	8/DIP	Dual, BI-FET Operational Amp., as TL082CP but 6mV mAx. offset Voltage	TL082ACP..	699-615	0.640	0.400	0.310	– –	– –
082	TI	8/SOIC	JFET-Input Operational Amplifier	TL082BCD	SMD 959-3390	0.680	0.500	0.410	– –	– –
082	TI	8/SOIC	Dual BI-FET Op Amp	TL082CD	SMD 110-3183	0.390	0.270	0.192	– –	– –
082	ST	8/DIP	Dual, BI-FET Operational Amp	TL082CN	109-4354	0.650	0.410	0.310	0.240	0.174
082	TI	8/DIP	Dual BI-FET Op Amp	TL082CP	110-6017	0.390	0.270	0.192	– –	– –
082	TI	8/SOIC	Dual JFET-Input General-Purpose Operational Amplifier	TL082CPSR	SMD 123-6511	0.220	0.168	0.128	0.107	0.105
082	TI	8/TSSOP	Dual JFET-Input General-Purpose Operational Amplifier	TL082CPWE4	SMD 123-6512	0.340	0.260	0.195	0.173	0.155
082	TI	8/SOIC	Dual JFET-Input General-Purpose Operational Amplifier	TL082ID	SMD 959-3403	0.420	0.310	0.240	– –	– –
082	TI	8/DIP	Dual JFET-Input General-Purpose Operational Amplifier	TL082IPG4	959-3411	0.380	0.330	0.270	– –	– –
249	ADI	8/DIP	Dual, JFET Precision, High Speed, Operational Amp	OP249GPZ	960-4863	3.520	2.400	1.790	– –	– –
282	ADI	8/SOIC	Dual Low Power, High Speed JFET Operational Amplifier	OP282GSZ	SMD 138-9169	2.390	1.630	1.210	1.150	1.070
353	NSC	8/SOIC	Dual JFET Input Operational Amplifier	LF353M	SMD 446-5702	0.480	0.390	0.320	– –	– –
353	TI	8/TSSOP	Dual General-Purpose Jfet-Input Operational Amplifier	LF353DG4	SMD 128-7431	0.240	0.191	0.153	0.119	0.110
353	NSC	8/DIP	Dual BI-FET Op Amp	LF353N	948-7034	0.810	0.670	0.610	0.470	0.390
353	TI	8/DIP	Wide-Bandwidth JFET-Input Dual Op-Amp	LF353P	229-1990	0.450	0.310	0.200	– –	– –
411	NSC	8/DIP	BI-FET Op Amp	LF411CN	948-7026	0.960	0.780	0.730	0.700	0.660
442	NSC	8/DIP	Dual BI-FET Op Amp, LP	LF442CN	948-7050	1.070	0.860	0.790	0.780	0.720
445	TI	8/SOIC	High Voltage FET-Input Op Amp	OPA445AUG4	SMD 132-9590	7.020	5.270	4.390	– –	– –
648	ADI	8/DIP	Dual, BI-FET Low Power Operational Amp	AD648JNZ	960-4871	3.500	2.380	1.770	1.680	– –
648	ADI	8/DIP	Dual, BI-FET Low Power Operational Amp	AD648KNZ	960-5622	7.870	5.370	4.330	4.170	– –
712	ADI	8/PDIP	Dual Precision, Low Cost, High Speed, BiFET Op Amp	AD712KNZ	143-8361	6.030	4.120	3.320	– –	– –
712	ADI	8/DIP	Dual BI-FET Op Amp, HS	AD712JNZ	960-4898	3.420	2.320	1.730	– –	– –
712	ADI	8/SOIC	Dual, BI-FET High Speed Operational Amp	AD712JRZ	SMD 942-6400	3.420	2.320	1.730	1.640	– –
746	ADI	8/PDIP	Dual Precision, 500 ns Settling, BiFET Op Amp	AD746JNZ	143-8363	7.340	5.000	4.040	– –	– –
822	ADI	8/PDIP	Dual Precision, Single Supply, Rail to Rail Low Power FET-Input Op Amp	AD822ANZ	143-8581	5.440	3.700	2.750	– –	– –
822	ADI	8/SOIC	Dual FET Op Amp, LP, RR	AD822ARZ	SMD 999-4351	5.630	3.960	2.970	– –	– –
823	ADI	8/PDIP	Dual, 16 MHz, Rail-to-Rail FET Input Amplifier	AD823ANZ	143-8582	5.020	3.430	2.760	– –	– –
1024	LT	14/DIP	Op Amp, Dual	LT1024CN#PBF	133-0566	7.780	6.100	4.960	4.350	3.870
1057	LT	8/SOIC	Op Amp, JFET Dual	LT1057S8#PBF	SMD 133-0571	4.290	3.360	2.760	2.410	2.130
1057	LT	8/DIP	Dual JFET Input, Precision High Speed Op Amp	LT1057CN8#PBF	955-9531	4.630	2.620	1.960	– –	– –
1113	LT	8/DIP	Op Amp, JFET Dual	LT1113CN8#PBF	133-0578	5.670	3.220	2.500	2.380	2.320
1169	LT	8/DIP	Op Amp, JFET Dual	LT1169CN8#PBF	133-0588	6.860	3.890	3.210	3.120	3.040
1457	LT	8/SOIC	Op Amp, JFET Dual	LT1457S8#PBF	SMD 133-0654	3.090	2.670	2.350	2.090	1.990
1462	LT	8/SOIC	Op Amp, JFET Dual	LT1462CS8#PBF	SMD 133-0655	3.250	2.800	2.460	2.200	1.990
1464	LT	8/SOIC	Op Amp, JFET Dual	LT1464CS8#PBF	SMD 133-0657	4.730	2.670	2.120	1.850	1.750
2062	TI	8/SOIC	Excalibur JFET-Input High-Output-Drive UPower Dual Operational Amplifier	TLE2062ACDG4	SMD 123-4963	2.690	1.990	1.530	1.350	1.210
2062	TI	8/SOIC	Excalibur JFET-Input High-Output-Drive UPower Dual Operational Amplifier	TLE2062AIDG4	SMD 123-4889	2.200	1.620	1.250	1.090	1.060
2062	TI	8/SOIC	Dual JFET Input Op-Amp	TLE2062CDG4	SMD 123-4649	2.040	1.520	1.160	1.010	0.920
2062	TI	8/PDIP	Dual JFET, Input, High Output Drive	TLE2062CPE4	123-4657	1.500	1.120	0.850	0.710	0.690
2062	TI	8/SOIC	Dual, JFET Input High Output drive, microPower Operational Amp.(IND TEMP)	TLE2062ID	SMD 110-2948	1.880	1.470	1.120	– –	– –
2062	TI	8/PDIP	Dual JFET-Input High-Output-Drive UPower Operational Amplifier	TLE2062IPE4	123-5033	1.670	1.380	1.170	1.020	0.900
2072	TI	8/PDIP	OP Amp, JFET	TLE2072ACP	845-4728	2.400	1.640	1.220	– –	– –
2072	TI	8/SOIC	Excalibur Low-Noise High-Speed JFET-Input Dual Operational Amplifier	TLE2072AIDG4	SMD 123-4890	2.660	1.960	1.500	1.340	1.200
2072	TI	8/SOIC	Dual, J-FET Input Operational Amp. - Low Noise, High Speed	TLE2072CD	SMD 110-3195	2.040	1.520	1.160	1.010	– –
2072	TI	8/PDIP	OP Amp, JFET Dual	TLE2072CP	845-4736	2.010	1.370	1.020	– –	– –
2072	TI	8/SOIC	Dual Low-Noise High-SPEED JFET-Input Operational Amplifier	TLE2072IDG4	SMD 123-4744	2.270	1.670	1.270	1.130	1.010
2082	TI	8/SOIC	Dual High-Speed Jfet-Input Operational Amplifier	TLE2082CDG4	SMD 123-4745	1.310	0.990	0.760	0.720	0.710
2082	TI	8/PDIP	Dual High-Speed Jfet-Input Operational Amplifier	TLE2082CPE4	123-4974	1.270	0.950	0.730	0.630	0.620
2082	TI	8/SOIC	Dual High-Speed Jfet-Input Operational Amplifier	TLE2082IDG4	SMD 123-4790	2.040	1.520	1.160	1.010	0.920
2107	TI	8/SOIC	OP Amp,Dual DIFET	OPA2107AUE4	SMD 120-6931	14.990	11.160	9.040	– –	– –
2111	TI	8/TO-99	Dual Low-Noise Difet(R) Operational Amplifier	OPA2111KM	145-9553	20.340	17.570	16.100	14.840	14.500
2131	TI	8/SOIC	OP Amp,Dual FET I/P	OPA2131UAE4	SMD 120-6932	3.660	2.930	2.440	2.090	1.830
2132	TI	8/PDIP	OP Amp,Dual FET I/P	OPA2132PA	121-2432	4.670	3.280	2.440	2.320	2.160
2132	TI	8/SOIC	OP Amp,Dual FET I/P	OPA2132UAE4	SMD 120-6934	3.580	3.420	3.250	2.780	2.440
2132	TI	8/SOIC	OP Amp,Dual FET I/P	OPA2132UE4	SMD 120-6933	7.560	6.290	5.320	– –	– –
2134	TI	8/SOIC	OP Amp,Dual FET I/P, Audio	OPA2134UAE4	SMD 120-6935	2.030	1.500	1.160	– –	– –
2137	BB	8/SOIC	Dual, FET-Input Operational Amp	OPA2137UA	SMD 109-7426	1.420	1.170	0.830	– –	– –
2604	TI	8/DIP	Dual FET Op Amp, LN, LD	OPA2604AP.	109-7431	3.060	2.580	2.190	– –	– –
2604	TI	8/SOIC	OP Amp,FET-Input, Dual	OPA2604AUE4	SMD 120-7104	3.140	2.640	2.190	– –	– –
4000	ADI	8/SOIC	Dual, Precision JFET Input Operational Amplifier	ADA4000-2ARZ	SMD 149-8689	2.620	1.900	1.500	– –	– –

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	Mftr.	Pins/Pkg	Description	Mftrs. List No.	Order Code	1+	10+	100+	250+	500+
8034	ADI	8/SOIC	Dual 80 MHZ Fast FET Op Amp	AD8034ARZ	SMD 862-1527	3.750	2.580	1.920	– –	– –
8066	ADI	8/SOIC	High Speed FET Input Amp	AD8066ARZ	SMD 862-1535	4.850	3.300	2.670	– –	– –
8512	ADI	8/SOIC	Dual Precision Low Noise JFET Op Amp.	AD8512ARZ	SMD 862-1560	3.420	2.390	1.780	– –	– –
8620	ADI	8/SOIC	Precision, Low Input Bias Current, Wide BW JFET Op Amp (Dual)	AD8620ARZ	SMD 999-4386	11.060	8.820	7.480	– –	– –
8626	ADI	8/SOIC	Precision Low Power Single-Supply JFET Amplifier	AD8626ARZ	SMD 158-1954	3.730	2.870	2.370	– –	– –
8642	ADI	8/MSOP	Dual, Low Power, Rail-to-Rail Output, Precision JFET Amplifier	AD8642ARMZ-R2	SMD 107-8271	5.960	4.340	3.340	– –	– –
8642	ADI	8/SOIC	Dual, Low Power, Rail-to-Rail Precision JFET Op Amp	AD8642ARZ	SMD 999-4327	5.230	3.560	2.870	– –	– –
8682	ADI	8/SOIC	Dual Low Power, High Speed JFET Operational Amplifiers	AD8682ARZ	SMD 131-6454	3.540	2.500	1.860	1.770	1.660
Quad										
34	TI	14/SOIC	Enhanced-JFET Low-Power Low-Offset Quad Operational Amplifier	TL034ACD	SMD 145-9671	3.010	2.100	1.580	1.410	1.370
34	TI	14/SOIC	Enhanced-JFET Low-Power Low-Offset Quad Operational Amplifier	TL034AID	SMD 145-9674	3.610	2.460	1.830	1.740	1.620
034	TI	14/SOIC	Quad, BI-FET Operational Amp - Low Power.	TL034CD	SMD 110-3007	1.120	0.760	0.540	– –	– –
034	TI	14/DIP	Quad, BI-FET Operational Amp - Low Power enhanced TL064	TL034CN	110-3008	1.120	0.760	0.540	– –	– –
034	TI	14/SOIC	Quad Enhanced JFET Low-Power Precision Operational Amplifier.	TL034IDG4	SMD 959-3160	0.830	0.680	0.580	– –	– –
54	TI	14/SOIC	Enhanced-JFET Precision Quad Operational Amplifier.	TL054ACD	SMD 145-9681	4.910	3.350	2.490	2.370	2.210
054	TI	14/SOIC	ENHANCED-JFET Precision Quad Operational Amplifier	TL054AIDE4	SMD 123-6508	4.770	3.560	2.700	2.390	2.140
054	TI	14/SOIC	Quad Enhanced JFET Precision Operational Amplifier	TL054CD	SMD 959-3209	1.090	0.770	0.570	– –	– –
054	TI	14/DIP	Quad, BI-FET Operational Amp - Low Noise enhanced TL074	TL054CN	110-3009	1.610	1.090	0.780	– –	– –
64	TI	14/SOIC	Quad Low-Power JFET-Input Operational Amplifier	TL064BCD	SMD 145-9693	0.740	0.530	0.410	0.310	0.270
064	TI	14/SOIC	Low-Power JFET-Input Operational Amplifier	TL064ACD	SMD 959-3276	0.680	0.480	0.360	– –	– –
064	TI	14/SOIC	Quad, BI-FET Operational Amp - Low Power.	TL064CD	SMD 110-3181	0.720	0.460	0.330	– –	– –
064	TI	14/DIP	Quad BI-FET Op Amp.	TL064CN	110-6018	0.510	0.330	0.230	– –	– –
064	ST	14/DIP	Quad, BI-FET Operational Amp - Low Power.	TL064CN	109-4349	0.520	0.430	0.350	0.240	0.230
064	TI	14/TSSOP	Quad Low-Power JFET-Input General-Purpose Operational Amplifier.	TL064CPW	SMD 959-3284	0.290	0.220	0.159	– –	– –
064	TI	14/SOIC	Quad Low-Power JFET-Input General-Purpose Operational Amplifier.	TL064ID	SMD 959-3292	0.490	0.370	0.300	– –	– –
064	TI	14/DIP	Quad Low-Power JFET-Input General-Purpose Operational Amplifier.	TL064ING4	959-3306	0.350	0.290	0.250	– –	– –
074	TI	14/SOIC	Quad JFET Op Amp, Low Noise	TL074ACD	SMD 959-3349	0.590	0.380	0.270	– –	– –
074	TI	14/DIP	Quad, BI-FET Operational Amp., as TL074CN but 6mV mAx. offset Voltage.	TL074ACN	110-5902	0.590	0.380	0.270	– –	– –
074	TI	14/DIP	Quad, BI-FET Operational Amp., as TL074CN but 6mV mAx. offset Voltage.	TL074ACN.	204-286	0.590	0.400	0.280	– –	– –
074	TI	14/SOIC	Quad BI-FET Op Amp, Low Noise.	TL074CD	SMD 110-3010	0.430	0.280	0.198	– –	– –
074	ST	14/DIP	Quad BI-FET Op Amp, Low Noise.	TL074CN	975-5934	0.690	0.450	0.370	0.270	0.200
074	TI	14/DIP	Quad, BI-FET Operational Amp - Low Noise	TL074CNE4	125-6325	0.430	0.280	0.198	0.140	0.137
074	TI	14/SOIC	Quad, BI-FET Operational Amp - Low Noise (IND TEMP).	TL074ID	SMD 110-3191	0.550	0.350	0.250	– –	– –
074	TI	14/DIP	Quad Low-Noise JFET-Input General-Purpose Operational Amplifier	TL074ING4	959-3357	0.510	0.420	0.330	– –	– –
84	ADI	14/SOIC	Quad JFET Input Op Amp.	ADTL084ARZ	SMD 133-1021	0.850	0.620	0.470	0.430	0.380
84	ADI	14/SOIC	Quad JFET Input Op Amp.	ADTL084JRZ	SMD 133-1022	0.720	0.570	0.430	0.380	0.340
084	TI	14/SOIC	JFET-Input Operational Amplifier	TL084ACD	SMD 959-3420	0.590	0.410	0.290	– –	– –
084	TI	14/DIP	Quad, BI-FET Operational Amp., as TL084CN but 6mV mAx. offset Voltage.	TL084ACN	110-6129	0.510	0.330	0.230	– –	– –
084	TI	14/SOIC	JFET-Input Operational Amplifier	TL084BCD	SMD 959-3438	0.620	0.400	0.290	– –	– –
084	TI	14/DIP	JFET-Input Operational Amplifier	TL084BCNG4	959-3446	0.530	0.450	0.360	– –	– –
084	TI	14/SOIC	Quad BI-FET Op Amp.	TL084CD	SMD 110-3184	0.490	0.330	0.240	– –	– –
084	TI	14/DIP	Quad, BI-FET Operational Amp.	TL084CN	110-6020	0.490	0.330	0.240	– –	– –
084	ST	14/DIP	Quad BI-FET Op Amp.	TL084CN	109-4355	0.690	0.450	0.370	0.350	0.300
084	TI	14/SOIC	Quad JFET-Input General-Purpose Operational Amplifier.	TL084CNSR	SMD 123-6513	0.450	0.310	0.250	0.196	0.166
084	TI	14/TSSOP	Quad JFET-Input General-Purpose Operational Amplifier.	TL084CPW	SMD 959-3454	0.440	0.350	0.300	– –	– –
084	TI	14/SOIC	Quad JFET-Input General-Purpose Operational Amplifier.	TL084ID	SMD 959-3462	0.490	0.350	0.250	– –	– –
084	TI	14/DIP	Quad JFET-Input General-Purpose Operational Amplifier.	TL084ING4	959-3470	0.460	0.380	0.300	– –	– –
347	TI	14/SOIC	Quad General-Purpose JFET-input Operational Amplifier.	LF347D	SMD 145-9492	0.610	0.390	0.280	0.210	0.165
347	TI	14/PDIP	Quad General-Purpose JFET-input Operational Amplifier.	LF347N	145-9493	0.610	0.390	0.280	0.210	0.165
347	FCH	14/DIP	Quad Operational Amplifier (JFET)	LF347N	141-7639	0.490	0.370	0.280	0.210	0.165
347	NSC	14/DIP	Quad, BI-FET Operational Amp.	LF347BN	948-7069	1.570	1.280	1.180	1.140	1.070
347	NSC	14/DIP	Quad BI-FET Op Amp.	LF347N	948-7077	1.580	1.290	1.190	1.030	0.840
404	TI	14/DIP	Quad, DI-FET High Speed, Fast Settling, Precision Operational Amp...	OPA404KPG4	121-9417	11.210	8.600	7.290	– –	– –
444	NSC	14/DIP	Quad BI-FET Op Amp, LP.	LF444CN	948-7085	1.490	1.220	1.110	0.970	0.920
713	ADI	14/DIP	Quad, BI-FET Precision High Speed Operational Amp. (I/P offset Vdrift 6µV/°C, min open loop Gain 150V/mV)	AD713JNZ	960-4910	6.600	5.330	4.370	– –	– –
822	ADI	8/SOIC	Dual Precision R/R Low Power FET Input Op Amp	AD822BRZ	NEW SMD 165-1303	6.680	5.200	4.260	3.890	3.340
823	ADI	8/SOIC	Dual 16 MHz R/Rl FET Input Amplifier	AD823ARZ	NEW SMD 165-1305	4.740	3.690	3.020	2.760	2.370
824	ADI	14/SOIC	Quad, Low Power, Single Supply, Rail-to-Rail FET - Input Operational Amp.	AD824ARZ-14	SMD 942-5535	7.820	5.330	4.300	– –	– –
1058	LT	16/SOIC	Quad JFET Input Precision High Speed Op Amp	LT1058SW#PBF	SMD 133-0572	9.070	5.130	3.850	3.370	3.180
1058	LT	14/DIP	Quad JFET Input High Speed Op Amp.	LT1058CN.#PBF	955-9540	7.930	4.490	3.350	– –	– –
1463	LT	14/SOIC	Quad Micropower, JFET Input Op Amp.	LT1463CS#PBF	SMD 133-0656	5.520	4.770	4.190	3.730	3.370
1465	LT	14/SOIC	Quad Micropower, JFET Input Op Amp.	LT1465CS#PBF	SMD 133-0658	6.400	4.550	3.660	3.400	3.310
2064	TI	14/SOIC	Excalibur JFET-Input High-Output-Drive UPower Quad Operational Amplifier	TLE2064ACDG4	SMD 123-4789	4.790	3.530	2.720	2.400	2.150
2064	TI	14/SOIC	Excalibur JFET-Input High-Output-Drive UPower Quad Operational Amplifier	TLE2064AIDG4	SMD 123-4964	5.090	3.760	2.900	2.550	2.300
2064	TI	14/SOIC	Quad JFET-Input High-OUTPUT-DRIVE UPower Operational Amplifier	TLE2064CDG4	SMD 123-4692	3.360	2.490	1.900	1.690	1.520
2064	TI	14/PDIP	Quad JFET-Input High-OUTPUT-DRIVE UPower Operational Amplifier	TLE2064CNE4	123-4712	3.360	2.490	1.900	1.690	1.520
2064	TI	14/SOIC	Quad, JFET Input High Output drive, microPower Operational Amp.(IND TEMP).	TLE2064ID	SMD 110-5910	3.610	2.460	1.830	– –	– –
2064	TI	14/DIP	Quad, JFET Input High Output drive, microPower Operational Amp.(IND TEMP).	TLE2064IN	110-2949	2.300	1.630	1.340	– –	– –
2074	TI	14/PDIP	OP Amp, JFET Quad	TLE2074ACN	845-4752	4.410	3.010	2.240	– –	– –
2074	TI	14/PDIP	Quad Low-Noise High-SPEED JFET-Input Operational Amplifier	TLE2074CNE4	123-4901	2.700	1.990	1.700	1.660	1.620
4000	ADI	14/SOIC	Quad, Precision JFET Input Operational Amplifier	ADA4000-4ARZ	SMD 149-8690	3.740	2.720	2.200	– –	– –
4131	TI	14/DIP	Quad, General Purpose FET-Input Operational Amp	OPA4131PAG4	121-9423	6.510	4.430	3.580	– –	– –
4132	TI	14/SOIC	OP Amp,Low Power, FET-I/P	OPA4132UA	SMD 121-2302	8.110	5.530	4.460	– –	– –
4137	TI	14/DIP	Quad, FET Input Amp. (IND TEMP).	OPA4137PA	121-4363	2.210	1.500	1.120	– –	– –
8512	ADI	8/MSOP	Dual Precision Very Low Noise Low Input Bias Current JFET Op Amp	AD8512ARMZ-R2	NEW SMD 165-1297	3.540	2.760	2.250	2.080	1.990
8643	ADI	16/LFCSP	Quad, Low Power, Rail-to-Rail Output, Precision JFET Amplifier	AD8643ACPZ-R2	SMD 107-8269	9.790	7.120	5.460	– –	– –
8643	ADI	14/SOIC	Quad, Low Power, Rail-to-Rail Output, Precision JFET Amplifier	AD8643ARZ	SMD 107-8270	8.570	5.840	4.710	– –	– –
8684	ADI	14/SOIC	Quad Low Power, High Speed JFET Operational Amplifiers	AD8684ARZ	SMD 131-6455	5.330	3.630	2.930	2.820	2.630

BIMOS Operational Amplifiers

210508

	Mftr.	Pins/Pkg	Description	Mftrs. List No.	Order Code	1+	10+	100+	250+	500+
710	NSC	5/SOT-23	BIMOS Operational Amp With CMOS Input stage, Rail-to-Rail output and High output Current drive.	LMV710M5	SMD 977-8861	0.82	0.69	0.63	– –	– –
711	NSC	6/SOT-23	BIMOS Operational Amp With CMOS Input stage, Rail-to-Rail output and High output Current drive and shutdown pin.	LMV711M6	SMD 977-8870	1.05	0.73	0.60	– –	– –
3130	INTS	8/DIP	Improved CA3130E (superior Input characteristics)	CA3130AE	401-468	1.26	1.13	1.01	0.93	0.86
3130	INTS	8/DIP	Op Amp. FET I/p. CMOS O/p	CA3130EZ	101-8161	0.83	0.73	0.60	0.55	0.52
3130	INTS	8/SOIC	Operational Amp. With MOS/FET Input, CMOS Output	CA3130MZ	SMD 101-8162	0.89	0.78	0.63	0.58	0.54
3140	INTS	8/DIP	Op Amp. FET i/p. Bipolar o/p	CA3140AEZ	101-8163	0.63	0.58	0.47	0.45	0.41

RL Re-reeling available

BIMOS Operational Amplifiers - continued

	Mftr.	Pins/Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
3140	INTS	8/DIP	Op Amp. FET i/p. Bipolar o/p	CA3140EZ	966-3614	0.43	0.42	0.41	0.40	0.39
3140	INTS	8/SOIC	Op Amp. FET i/p. Bipolar o/p	CA3140MZ	SMD 966-3622	0.88	0.66	0.49	0.37	0.34
3240	INTS	8/DIP	Operational Amp. With MOS/FET Input, Bipolar Output	CA3240AEZ	966-3525	0.82	0.74	0.64	– –	– –
3240	INTS	8/DIP	Dual Op Amp. FET i/p. Bipolar o/p	CA3240EZ	966-3630	0.85	0.64	0.41	0.36	0.35
3260	INTS	8/DIP	BIMOS Operational Amp. With MOS/FET Input, CMOS Output (Dual)..	CA3260EZ	966-3649	1.11	0.99	0.90	0.82	0.70

CMOS Operational Amplifiers

211021

	Mftr.	Pins/Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
Single										
6	MCHIP	5 / SOT-23	Selectable Gain Amp, Single, 1 Mhz	MCP6G01T-E/OT	SMD 133-2148	0.330	0.280	0.177	– –	– –
6	MCHIP	8 / SOIC	Selectable Gain Amp, Single, 1 Mhz	MCP6G01T-E/SN	SMD 133-2149	0.330	0.280	0.186	– –	– –
26	TI	8 / SOIC	Advanced LinCMOS(TM) Precision Chopper-Stabilized Operational Amplifier	TLC2652AI-8D	SMD 145-9786	4.580	3.120	2.320	2.200	2.050
26	TI	8 / SOIC	Low-Noise Chopper-Stabilized Operational Amplifier	TLC2654C-8D	SMD 145-9787	2.940	2.010	1.490	1.420	1.320
196	ADI	8 / SOIC	Micropower, Rail-to-Rail Input and Output Operational Amplifiers	OP196GSZ	SMD 143-8997	2.730	1.860	1.380	– –	– –
271	TI	8 / SOIC	Lin-CMOS Programmable Operational Amp.	TLC271CD	SMD 110-6021	0.350	0.260	0.197	– –	– –
271	TI	8 / DIP	Lin-CMOS Programmable Operational Amp.	TLC271CP	110-3011	0.680	0.430	0.310	– –	– –
271	ST	8 / SOIC	Lin-CMOS Programmable Operational Amp.	TS271CDT	SMD 109-4365	0.780	0.680	0.620	0.560	0.380
271	ST	8 / SOIC	Lin-CMOS Programmable Operational Amp.	TS271CDT.	SMD 642-824▲	0.370	0.340	0.310	0.290	0.270
271	ST	8 / DIP	CMOS Programmable Operational Amp	TS271CN	109-4366	0.550	0.500	0.440	0.410	0.290
271	ST	8 / DIP	CMOS Programmable Operational Amp	TS271CN.	787-231▲	0.350	0.330	0.310	0.290	0.270
336	TI	8 / SOIC	Single-Supply, MicroPower CMOS Operational Amplifiers MicroAmplifier(TM) Series	OPA336UA	SMD 145-9587	1.460	0.990	0.710	0.660	0.610
337	TI	8 / SOIC	Single Supply, unity Gain stable CMOS Operational Amp. (IND TEMP).	OPA337UAG4	SMD 121-9415	1.150	0.820	0.620	0.470	0.420
340	TI	8 / SOIC	5MHz Single Supply Operational Amp.	OPA340UA	SMD 110-6196	1.580	1.080	0.770	– –	– –
345	TI	5 / SOT-23	Single Low Power Single Supply R/R I/O	OPA345NA/250	NEW SMD 164-8703	0.900	0.720	0.600	0.550	0.530
349	TI	8 / SOIC	MicroPower, Rail-to-Rail, CMOS Operational Amp.	OPA349UAG4	SMD 121-4375	1.590	1.270	1.080	0.910	0.810
350	BB	8 / DIP	Single Supply, Rail-to-Rail CMOS Operational Amp. (IND TEMP)	OPA350PA..	109-7443	2.620	1.900	1.590	– –	– –
350	TI	8 / SOIC	Single Supply, Rail-to-Rail CMOS Operational Amp. (IND TEMP).	OPA350UA	SMD 110-6197	1.960	1.340	0.960	– –	– –
356	TI	5 / SOT-23	200MHz GBW CMOS Op-Amp	OPA356AIDBVT	SMD 110-0953	1.110	0.930	0.770	– –	– –
361	TI	6 / SC-70	3V Video Amplifier with Internal Gain and Filter in SC70.	OPA361AIDCKTG4	SMD 132-9588	0.730	0.630	0.530	0.450	0.390
406	MAX	8 / DIP	Ultra Low Power CMOS Operational Amp	MAX406ACPA+	118-7925	9.700	6.820	5.240	4.420	4.320
452	MAX	8 / DIP	50MHz, CMOS Unity-Gain stable Video Amp.	MAX452CPA+	118-8053	3.590	2.520	2.080	2.030	1.970
531	NSC	6 / TSOT-23	Programmable Micropower CMOS Input, Rail-to-Rail Output Operational Amplifier.	LPV531MK	SMD 131-2855	0.710	0.550	0.440	0.360	0.340
601	MCHIP	8 / DIP	CMOS, Low Power, Rail-to-Rail Output Op. Amp. (IND TEMP)	MCP601-I/P	108-4271	0.420	0.250	0.220	0.191	0.166
601	MCHIP	8 / SOIC	CMOS, Low Power, Rail-to-Rail Output Op. Amp. (IND TEMP)	MCP601-I/SN	SMD 975-8623	0.350	0.250	0.220	0.186	0.160
601	MCP	5 / SOT-23	CMOS Op Amp, RR, LP	MCP601T-I/OT	SMD 975-8631	0.380	0.230	0.200	– –	– –
603	MCHIP	8 / DIP	CMOS, Low Power, Rail-to-Rail Output Op. Amp. With chip select for Low Power mode. (IND TEMP)	MCP603-I/P	119-6796	0.440	0.280	0.240	0.210	0.188
603	MCHIP	8 / SOIC	2.7V to 5.5V Single-Supply CMOS Op Amps.	MCP603-I/SN	SMD 113-7314	0.550	0.360	0.280	– –	– –
606	MCHIP	8 / DIP	Op Amp, Single 25 ua	MCP606-I/P	133-2130	0.530	0.440	0.290	– –	– –
606	MCHIP	8 / SOIC	Op Amp, Single 25 ua	MCP606-I/SN	SMD 133-2131	0.530	0.440	0.290	– –	– –
607	MCHIP	8 / SOIC	Dual MicroPower CMOS 2.5V Op Amp	MCP607-I/SN	SMD 119-6812	0.900	0.500	0.430	– –	– –
608	MCHIP	/	Single R/R O/P 155kHz CMOS GBWP Op Amp	MCP608-I/SN	NEW 162-9355	0.750	0.570	0.450	– –	– –
616	MCHIP	8 / PDIP	2.3V to 5.5V Bi-CMOS Rail-to-Rail Op Amp	MCP616-I/P	143-9429	0.590	0.410	0.330	– –	– –
616	MCHIP	8 / SOIC	2.3V to 5.5V Bi-CMOS Rail-to-Rail Op Amp	MCP616-I/SN	SMD 143-9430	0.590	0.410	0.330	– –	– –
618	MCHIP	8 / PDIP	2.3V to 5.5V Bi-CMOS Rail-to-Rail Op Amp with Chip Select.	MCP618-I/P	143-9434	0.620	0.440	0.350	– –	– –
618	MCHIP	8 / SOIC	2.3V to 5.5V Bi-CMOS Rail-to-Rail Op Amp with Chip Select.	MCP618-I/SN	SMD 143-9435	0.620	0.440	0.350	– –	– –
661	NSC	8 / SOIC	Low Power, CMOS Operational Amp., Input bias Current=2fA,Vos=6mV mAx. (IND TEMP)	LPC661IM	SMD 121-5216	1.630	1.170	0.950	– –	– –
794	NSC	8 / Mini SOIC	88 MHz, Low Noise, 1.8V CMOS Input, Decompensated Operational Amplifiers from the PowerWise® Family	LMV794MM	SMD 143-3176	1.750	1.420	1.170	1.000	0.910
831	NSC	5 / SC-70	3.3MHz Single CMOS Op Amp	LMV831MGE/NOPB	NEW SMD 168-5415	32.510	25.280	20.690	18.960	16.980
861	NSC	5 / SC-70	30MHz Low Power CMOS Op Amp.	LMV861MG/NOPB	NEW SMD 168-5400	13.980	10.880	8.900	8.160	7.300
841	NSC	5 / SC-70	CMOS Input, RRIO, Wide Supply Range Operational Amplifier	LMV841MG	SMD 132-0980	1.140	0.900	0.770	0.630	0.600
921	ST	8 / SOIC	Rail-to-Rail, High output Current Operational Amp. (IND TEMP).	TS921ID	SMD 975-5306	1.110	0.840	0.660	0.560	0.500
1049	LT	8 / DIP	Lo Pwr, Zero Drift OP Amp With Internal Capacitor	LTC1049CN8#PBF	956-0750	4.060	2.300	1.730	– –	– –
1049	LT	8 / SOIC	Low Power, Zero-Drift Op Amp with Internal Capacitors	LTC1049CS8#PBF	SMD 133-0778	5.100	2.890	2.160	2.110	2.070
1050	LT	8 / SOIC	Precision Zero-Drift Op Amp with Internal Capacitors	LTC1050HS8#PBF	SMD 133-0781	5.430	4.230	3.460	3.020	2.690
1050	LT	8 / DIP	Chopper-Stabilised, CMOS Operational Amp.	LTC1050CN8#PBF	956-0769	4.060	2.300	1.730	– –	– –
1050	LT	8 / SOIC	Chopper-Stabilised, CMOS Operational Amp.	LTC1050CS8#PBF	SMD 956-0777	5.100	2.890	2.160	– –	– –
1052	LT	16 / SOIC	Low Noise Op Amp	LTC1052CSW#PBF	SMD 133-0783	8.910	5.790	5.050	4.640	4.320
1150	LT	8 / DIP	Zero-Drift OP-Amp With Internal Capacitor	LTC1150CN8#PBF	956-0874	6.980	3.950	2.960	– –	– –
1152	LT	8 / DIP	Rail to Rail Input and Output, Zero Drift Operational Amplifier (IND TEMP)	LTC1152CN8#PBF	956-0882	5.670	3.220	2.500	– –	– –
1152	LT	8 / SOIC	Rail to Rail Input and Output Zero-Drift OP Amp	LTC1152CS8#PBF	SMD 956-0890	6.140	3.500	2.690	– –	– –
1152	LT	8 / DIP	Rail to Rail Input and Output, Zero Drift Operational Amplifier.	LTC1152IN8#PBF	113-6626	6.890	4.080	3.470	– –	– –
1250	LT	8 / SOIC	Very Low Noise, Zero Drift Bridge Amplifier.	LTC1250CS8#PBF	SMD 956-0955	5.910	3.380	2.540	– –	– –
2050	LT	8 / SOIC	Zero-Drift Op Amp	LTC2050CS8#PBF	SMD 133-0902	2.150	1.700	1.390	1.200	1.080
2050	LT	8 / SOIC	Zero-Drift Op Amp	LTC2050HVCS8#PBF	SMD 133-0903	2.840	1.600	1.190	1.080	1.060
2052	LT	14 / SOIC	Zero-Drift, Op Amp	LTC2052CS#PBF	SMD 133-0911	7.330	4.140	3.000	2.810	2.750
2201	TI	8 / DIP	Ultra Low Noise, Precision CMOS Operational Amp.	TLC2201CP	110-3012	3.150	2.150	1.600	– –	– –
2201	TI	8 / SOIC	Lin-CMOS Low Noise Operational Amp. (IND TEMP).	TLC2201ID	SMD 110-2933	3.340	2.270	1.690	– –	– –
2201	TI	8 / DIP	Lin-CMOS Low Noise Operational Amp. (IND TEMP).	TLC2201IP	110-2934	3.340	2.270	1.690	– –	– –
2471	TI	5 / SOT-23	600µA, Rail to Rail, High-drive, 2.8MHz, CMOS Op. Amp (IND TEMP)	TLV2471IDBVT	SMD 110-2964	1.200	0.900	0.670	– –	– –
2652	TI	8 / DIP	Precision Chopper-Stabilized CMOS Operational Amp.	TLC2652CP	110-2937	4.190	2.860	2.120	– –	– –
2652	TI	8 / DIP	Precision Chopper-Stabilized CMOS Operational Amp.	TLC2652CP.	305-4536	2.850	1.860	1.640	– –	– –
2654	TI	8 / DIP	Low Noise Chopper-Stabilized CMOS Operational Amp. (IND TEMP).	TLC2654IP	305-4550	1.870	1.420	1.110	– –	– –
2654	TI	8 / DIP	Low Noise Chopper-Stabilized CMOS Operational Amp. (IND TEMP).	TLC2654IPE4	121-4351	3.070	2.360	1.840	– –	– –
2703	TI	8 / SOIC	12V, CMOS, Rail-to-Rail I/O, Operational Amplifier	OPA2703UA	SMD 145-9578	4.310	2.940	2.190	2.080	1.940
2705	TI	8 / SOIC	12V, Low Cost, CMOS, Rail-to-Rail I/O, Operational Amplifier	OPA2705UA	SMD 145-9580	2.120	1.440	1.040	0.970	0.890
4122	MAX	5 / SOT-23	Wideband, Low Power, Single-Supply, Rail-to-Rail Input/Output CMOS Operational Amp	MAX4122EUK+T	SMD 118-7954	1.970	1.650	1.300	– –	– –
6001	MCHIP	5 / SOT-23	Single General Purpose Rail-to-Rail Op Amp. 1MHz	MCP6001RT-I/OT	SMD 854-0829	0.240	0.147	0.126	– –	– –
6001	MCHIP	5 / SC-70	Single General Purpose Rail-to-Rail Op Amp. 1MHz	MCP6001T-I/LT	SMD 854-0837	0.300	0.230	0.181	– –	– –
6001	MCP	5 / SOT-23	CMOS Op Amp, RR, GP	MCP6001T-I/OT	SMD 497-4992	0.210	0.140	0.120	– –	– –
6001	MCHIP	5 / SOT-23	Single General Purpose Rail-to-Rail Op Amp. 1MHz	MCP6001UT-I/OT	SMD 854-0845	0.290	0.220	0.181	– –	– –
6001	MCHIP	5 / SOT-23	Op Amp, Single 1MHz	MCP6001T-E/OT	SMD 133-2116	0.240	0.196	0.127	– –	– –
6021	MCHIP	8 / DIP	Op Amp, Single 10MHz	MCP6021-E/P	133-2123	0.800	0.680	0.440	– –	– –
6021	MCHIP	8 / SOIC	Op Amp, Single 10MHz	MCP6021-E/SN	SMD 133-2124	0.800	0.680	0.440	– –	– –
6024	MCHIP	5 / SOT-23	Op Amp, Single 10 Khz	MCP6041T-I/OT	SMD 133-2129	0.400	0.340	0.230	– –	– –
6041	MCHIP	8 / DIP	CMOS, 600nA, Rail-to-Rail Input/Output Op. Amp (IND TEMP)	MCP6041-I/P	975-8682	0.560	0.310	0.260	– –	– –
6041	MCHIP	8 / SOIC	CMOS, 600nA, Rail-to-Rail Input/Output Op. Amp. (IND TEMP).	MCP6041-I/SN	SMD 108-4311	0.380	0.310	0.260	– –	– –
6061	NSC	8 / SOIC	CMOS, Precision MicroPower Operational Amp., Supply Current=20µA, Vos=350µV mAx. (IND TEMP).	LMC6061AIM	SMD 949-4642	1.500	1.230	1.120	– –	– –

RL Re-reeling available

	Mftr.	Pins/Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
Single										
6081	NSC	8 / SOIC	CMOS, Precision Operational Amp., Input bias Current=10fA,Vos=350µV mAx. (IND TEMP)	LMC6081AIM	SMC 121-5211●	3.440	2.820	2.590	– –	– –
6241	MCHIP	8 / SOIC	50µA, 650KHz Rail-to-Rail OP Amp	MCP6241-E/SN	SMC 975-8739●	0.230	0.166	0.142	– –	– –
6601	NSC	6 / SC-70	250 MHz, 2.4V CMOS Op Amp with Shutdown	LMH6601MG	SMC 131-2603●	1.570	1.190	0.980	0.780	0.690
7101	NSC	5 / SOT-23	CMOS Op Amp, RR, LP	LMC7101AIM5	SMC 977-9914●	1.280	0.970	0.820	– –	– –
7101	NSC	5 / SOT-23	CMOS Op Amp, RR, LP	LMC7101BIM5	SMC 121-2200●	0.690	0.530	0.440	– –	– –
7611	INTS	8 / SOIC	Low Power, CMOS Operational Amp.	ICL7611DCBAZ	SMC 101-8165●	0.560	0.500	0.400	0.340	0.320
7611	INTS	8 / DIP	CMOS Op Amp, LP.	ICL7611DCPAZ	101-8166●	1.320	0.680	0.440	0.340	0.290
7612	INTS	8 / DIP	Low Power, CMOS Operational Amp., extended CMVR	ICL7612DCPA	633-392	0.750	0.530	0.490	0.390	0.360
7612	INTS	8 / DIP	Low Power, CMOS Operational Amp., extended CMVR	ICL7612DCPAZ	121-6123●	0.620	0.530	0.470	0.420	0.380
7650	INTS	14 / DIP	Chopper-Stabilised CMOS Operational Amp.	ICL7650SCPD	401-705	2.970	2.550	2.220	1.780	1.620
7708	NSC	8 / Mini SOIC	Precision, CMOS Input, RRIO, Wide Supply Range Decompensated Amplifiers from the PowerWise® Family	LMP7708MM	SMC 143-3151●	2.660	2.120	1.750	1.510	1.390
7709	NSC	14 / TSSOP	Precision, CMOS Input, RRIO, Wide Supply Range Decompensated Amplifiers from the PowerWise® Family	LMP7709MT	SMC 143-3152●	4.100	3.280	2.730	2.340	2.130
7718	NSC	8 / Mini SOIC	88 MHz, Precision, Low Noise, 1.8V CMOS Input, Decompensated Operational Amplifier from the PowerWise® Family	LMP7718MM	SMC 143-3174●	2.830	2.260	1.880	1.590	1.460
8541	ADI	8 / SOIC	General Purpose Rail-to-Rail Operational Amp	AD8541ARZ	SMC 960-3859●	0.720	0.510	0.390	– –	– –
8541	ADI	5 / SC-70	Single, General-Purpose, CMOS, Rail-to-Rail Op Amp	AD8541AKSZ-R2	SMC 133-3253●	0.520	0.490	0.380	0.360	0.340
8541	ADI	5 / SOT-23	Single, General-Purpose, CMOS, Rail-to-Rail Op Amp	AD8541ARTZ-R2	SMC 133-3254●	0.480	0.430	0.370	0.350	0.330
8571	ADI	8 / SOIC	Zero-Drift, Single-Supply, Rail-to-Rail I/O Operational Amplifier (EXT TEMP)	AD8571ARZ	SMC 942-6078●	2.550	1.760	1.310	– –	– –
8603	ADI	5 / TSOT	Precision Single MicroPower R/R I/O Low Noise CMOS	AD8603AUJZ-R2	NEW SMC 165-1290●	1.450	1.130	0.920	0.850	0.810
8613	ADI	5 / SC-70	Single, CMOS, Rail-Rail I/O Op Amp	AD8613AKSZ-R2	SMC 133-3261●	1.120	0.810	0.630	0.600	0.570
8613	ADI	5 / TSOT	Single, CMOS, Rail-Rail I/O Op Amp	AD8613AUJZ-R2	SMC 133-3262●	1.120	0.810	0.630	0.600	0.570
8638	ADI	8 / NSOIC	1.5MHz BW Single R/R & Auto-Zero O/P Op Amp	AD8638ARZ	SMC 160-7239●	2.070	1.650	1.500	1.370	1.180
8661	ADI	8 / SOIC	16V, High Performance CMOS Rail-to-Rail Operational Amplifiers	AD8661ARZ	SMC 111-7886●	1.860	1.350	1.040	0.980	0.900
Dual										
6	MCHIP	8 / MSOP	Rail-to-Rail I/O, Low-Gain Programmable Gain Amp	MCP6S92T-E/MS	SMC 875-2923●	0.770	0.450	0.390	– –	– –
6	MCHIP	8 / SOIC	Selectable Gain Amp, Dual, 1 Mhz	MCP6G02-E/SN	SMC 133-2150●	0.430	0.360	0.240	– –	– –
27	TI	8 / SOIC	LinCMOS Precision Dual.	TLC27M2ACD	NEW SMC 164-8724●	0.400	0.360	0.320	0.280	0.240
27	TI	8 / SOIC	Dual, Lin-CMOS Operational Amp., Low bias	TLC27L2CD	SMC 110-6125	1.010	0.670	0.470	– –	– –
27	TI	8 / DIP	Dual CMOS Op Amp.	TLC27L2CP	110-3013●	0.680	0.430	0.310	– –	– –
27	TI	8 / DIP	Dual CMOS Op Amp.	TLC27M2CP	110-3014●	0.780	0.500	0.360	– –	– –
27	ST	8 / SOIC	Dual, CMOS Operational Amp., Low bias	TS27L2CD	SMC 109-4368●	0.800	0.680	0.620	0.520	0.500
243	TI	8 / SOIC	Dual, Rail-Rail Wide Input Op-Amp	TLV2432IDG4	SMC 137-9262●	1.000	0.810	0.630	0.540	0.510
272	TI	8 / SOIC	Dual CMOS Op Amp.	TLC272CD	SMC 110-6022●	0.650	0.410	0.290	– –	– –
272	TI	8 / DIP	Dual CMOS Op Amp.	TLC272CP	110-3016●	0.650	0.410	0.290	– –	– –
272	ST	8 / SOIC	Dual, Lin-CMOS Operational Amp. (IND TEMP)	TS272ID	SMC 109-4367●	1.290	0.960	0.780	0.590	0.560
295	ADI	8 / DIP	Dual, Rail-to-Rail Input and Output, CMOS, Operational Amp	OP295GPZ	960-5258●	4.090	2.790	2.070	– –	– –
333	TI	5 / SOT-23	Dual CMOS Op-Amp.	OPA333AIDBVTG4	SMC 123-0456●	2.130	1.720	1.430	1.210	1.080
333	TI	5 / SC-70	Dual CMOS Op-Amp.	OPA333AIDCKTG4	SMC 123-0457●	2.130	1.720	1.430	1.210	1.080
333	TI	8 / SOIC	Dual CMOS Op-Amp.	OPA333AIDG4	SMC 123-0458●	1.930	1.540	1.280	1.110	0.950
457	MAX	8 / DIP	Dual, 70MHz, CMOS Unity-Gain stable Video Amp	MAX457CPA+	118-8058●	8.400	6.200	4.740	4.020	– –
602	MCP	8 / SOIC	Dual CMOS Op Amp, RR, LP	MCP602-I/SN	SMC 975-8666●	0.500	0.320	0.280	0.240	0.210
607	MCHIP	8 / DIP	Op Amp, Dual 25 microamp	MCP607-I/P	133-2133●	0.680	0.570	0.380	– –	– –
617	MCHIP	8 / PDIP	Dual 2.3V to 5.5V Bi-CMOS Rail-to-Rail Op Amp.	MCP617-I/P	143-9432●	0.750	0.540	0.420	– –	– –
617	MCHIP	8 / SOIC	Dual 2.3V to 5.5V Bi-CMOS Rail-to-Rail Op Amp.	MCP617-I/SN	SMC 143-9433●	0.750	0.540	0.420	– –	– –
662	NSC	8 / SOIC	Low Power CMOS Dual Op Amp R/R O/P	LPC662AIM/NOPB	NEW SMC 168-5389●	2.270	1.770	1.440	1.330	1.190
662	NSC	8 / SOIC	Dual, Single Supply, Rail-to-Rail Output, CMOS Operational Amp., Input bias Current=2fA, Vos=3mV (EXTD TEMP)	LMC662AIM	SMC 949-4782●	1.500	1.230	1.120	– –	– –
662	NSC	8 / DIP	Dual, Single Supply, Rail-to-Rail Output, CMOS Operational Amp., Input bias Current=2fA, Vos=3mV (EXTD TEMP)	LMC662AIN	949-4790●	1.650	1.350	1.230	– –	– –
662	NSC	8 / SOIC	Dual CMOS Op Amp.	LMC662CM	SMC 949-3395●	1.480	1.110	0.910	0.730	0.660
662	NSC	8 / DIP	Dual CMOS Op Amp.	LMC662CN	948-7093●	1.470	1.210	1.100	1.080	1.010
662	NSC	8 / SOIC	Dual, Low Power, CMOS Operational Amp. With Rail-to-Rail output swing.	LPC662IM	SMC 949-3875●	1.200	1.010	0.870	0.770	0.680
842	NSC	8 / MSOP	4.5MHz GBWP Dual CMOS Input, R/R I/O Op Amp	LMV842MM/NOPB	NEW SMC 168-5352●	2.010	1.570	1.280	1.180	1.050
912	ST	8 / SOIC	Dual 1.0MHz GBWP R/R I/O CMOS Op Amp	TS912IDT	NEW SMC 164-2723●	0.990	0.780	0.630	0.580	0.530
912	ST	8 / SOIC	Dual CMOS Op Amp, RR, LP	TS912ID	SMC 109-4386●	0.910	0.660	0.520	0.460	0.410
912	ST	8 / DIP	Dual, Low Power, Rail-to-Rail Input and Output, CMOS, Operational Amp. Single or Dual Supply	TS912IN	975-6485●	1.230	0.950	0.840	0.630	0.560
913	TS	8 / DIP	Dual Auto-Zeroed, CMOS Operational Amp	TC913BCPA	976-2728●	3.770	3.020	2.440	– –	– –
922	ST	8 / SOIC	Dual CMOS Op Amp.	TS922ID	SMC 975-5292●	1.350	1.010	0.800	0.630	0.570
942	ST	8 / DIP	Dual, MicroPower, Rail-to-Rail Output, CMOS, Operational Amp (3V output - IND TEMP)	TS942IN	109-4401●	1.490	1.240	1.110	0.940	0.920
1047	LT	16 / SOIC	Dual Micropower, Zero-Drift Op Amp with Internal Capacitors	LTC1047CSW#PBF	SMC 133-0777●	6.560	4.270	3.720	3.360	3.270
1051	LT	8 / DIP	Dual, Chopper-Stabilised, CMOS Operational Amp	LTC1051CN8#PBF	956-0785●	7.660	4.330	3.270	– –	– –
1051	LT	16 / WSOIC	Dual Zero-Drift Op Amp With Internal Capacitors	LTC1051CSW#PBF	SMC 133-0782●	9.070	5.130	3.810	3.710	3.610
1151	LT	16 / SOIC	Dual Op Amp, Zero-Drift	LTC1151CSW#PBF	SMC 133-0791●	12.740	7.210	5.350	5.190	5.070
2051	LT	8 / DFN	Dual Op Amp, Zero-Drift	LTC2051CDD#PBF	SMC 133-0904●	3.870	3.020	2.470	2.160	1.920
2051	LT	10 / MSOP	Dual Op Amp, Zero-Drift	LTC2051CMS10#PBF	SMC 133-0905●	4.290	3.360	2.760	2.410	2.130
2051	LT	8 / MSOP	Dual Op Amp, Zero-Drift	LTC2051CMS8#PBF	SMC 133-0906●	4.060	3.170	2.610	2.270	2.030
2051	LT	8 / MSOP	Dual Op Amp, Zero-Drift	LTC2051HMS8#PBF	SMC 133-0907●	4.500	2.540	2.100	2.050	1.990
2051	LT	8 / MSOP	Dual Op Amp, Zero-Drift	LTC2051HVCMS8#PBF	SMC 133-0909●	4.960	3.890	3.170	2.780	2.460
2051	LT	8 / MSOP	Dual Op Amp, Zero-Drift	LTC2051HVHMS8#PBF	SMC 133-0910●	5.670	3.210	2.390	2.130	2.070
2055	LT	8 / MSOP	Dual Micropower Zero-Drift Op Amp	LTC2055CMS8#PBF	SMC 133-0916●	3.020	1.840	1.450	1.360	1.320
2055	LT	8 / MSOP	Dual Micropower Zero-Drift Op Amp	LTC2055HMS8#PBF	SMC 133-0917●	3.620	2.200	1.730	1.600	1.580
2055	LT	8 / MSOP	Dual Micropower Zero-Drift Op Amp	LTC2055HVCMS8#PBF	SMC 133-0918●	3.780	2.300	1.810	1.720	1.680
2055	LT	8 / MSOP	Dual Micropower Zero-Drift Op Amp	LTC2055HVHMS8#PBF	SMC 133-0919●	4.340	3.390	2.770	2.430	2.150
2202	TI	14 / SOIC	Dual, Lin-CMOS Low Noise Operational Amp. (IND TEMP)	TLC2202ID	SMC 110-2935●	4.670	3.180	2.370	– –	– –
2202	TI	8 / DIP	Dual, Lin-CMOS Low Noise Operational Amp. (IND TEMP)	TLC2202IP	110-2936●	4.670	3.180	2.370	– –	– –
2262	TI	8 / SOIC	Advanced LinCMOS(TM) Rail-To-Rail Dual Operational Amplifier.	TLV2262AID	SMC 145-9929●	1.810	1.230	0.880	0.820	0.760
2272	TI	8 / SOIC	Advanced LINCMOS(Tm) Rail-To-Rail Dual Operational Amplifier	TLC2272AQDR	SMC 123-6549	1.220	0.920	0.710	0.620	0.560
2333	TI	8 / SOIC	Dual CMOS Op-Amp.	OPA2333AIDG4	SMC 123-0455●	3.050	2.440	2.040	1.750	1.530
2336	TI	8 / DIP	Dual, Single Supply, MicroPower CMOS Operational Amp With Low offset Voltage, 125µV mAx.	OPA2336PA.	109-7396	2.210	1.500	1.120	– –	– –
2336	TI	8 / SOIC	Dual, Single Supply, MicroPower CMOS Operational Amp With Low offset Voltage, 125µV mAx.	OPA2336UA	SMC 110-6183●	2.210	1.500	1.120	– –	– –
2337	TI	8 / DIP	Dual, Single Supply, Rail-to-Rail Output CMOS Operational Amp	OPA2337PA	109-7410●	0.840	0.720	0.630	0.560	0.510
2337	TI	8 / SOIC	Dual, CMOS, Rail-to-Rail Output, Single Supply Amp. 3MHz	OPA2337UA	SMC 110-6190●	1.340	0.910	0.650	0.610	0.560
2338	TI	8 / SOIC	Dual, Single Supply, =±5 Gain stable CMOS Operational Amp. (IND TEMP)	OPA2338UA	SMC 121-4348●	0.910	0.760	0.640	– –	– –
2338	BB	8 / SOIC	Dual, Single Supply, =±5 Gain stable CMOS Operational Amp. (IND TEMP)	OPA2338UA.	SMC 300-6244	0.500	0.460	0.450	– –	– –
2340	TI	8 / MSOP	Dual, CMOS, Rail-to-Rail I/O, Single Supply Amp. 5.5MHz	OPA2340EA/250	SMC 110-1540●	2.460	1.670	1.240	– –	– –
2340	TI	8 / DIP	Dual, CMOS, Rail-to-Rail I/O, Single Supply Amp. 5.5MHz	OPA2340PAG4	117-8431●	2.440	1.800	1.410	– –	– –
2340	TI	8 / SOIC	Dual, CMOS, Rail-to-Rail I/O, Single Supply Amp. 5.5MHz	OPA2340UA	SMC 110-1541●	2.270	1.540	1.150	1.090	1.020
2342	TI	8 / MSOP	Dual, CMOS, Rail-to-Rail I/O, Single Supply Amp., Low Power 150µA.	OPA2342EA/250	SMC 109-7491●	2.110	1.440	1.070	0.920	0.810
2342	TI	8 / SOIC	Dual, CMOS, Rail-to-Rail I/O, Single Supply Amp., Low Power 150µA.	OPA2342UA	SMC 109-7473●	2.120	1.440	1.040	0.970	0.890
2349	TI	8 / SOIC	Dual, MicroPower, Rail-to-Rail, CMOS Operational Amp.	OPA2349UAG4	SMC 121-9429●	1.130	0.940	0.810	0.710	0.630
2350	TI	8 / MSOP	Dual, Single Supply, Rail-to-Rail CMOS Operational Amp. (IND TEMP)	OPA2350EA/250	SMC 109-7493●	3.290	2.240	1.670	1.410	1.270
2350	BB	8 / DIP	Dual, Single Supply, Rail-to-Rail CMOS Operational Amp. (IND TEMP)	OPA2350PA	109-7444	3.040	2.420	1.920	– –	– –
2350	TI	8 / SOIC	Dual, Single Supply, Rail-to-Rail CMOS Operational Amp. (IND TEMP)	OPA2350UA	SMC 110-1542●	2.940	2.010	1.490	1.420	1.320

RL Re-reeling available

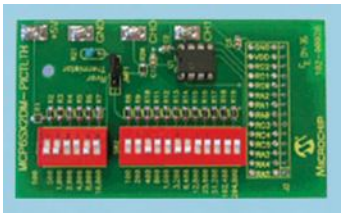
CMOS Operational Amplifiers - continued

	Mftr.	Pins/Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
Dual										
2357	TI	10 / MSOP	Dual 250MHz R/R I/O	OPA2357AIDGST..	NEW SMD 164-8696	1.910	1.530	1.270	1.150	1.120
2374	TI	8 / SOT-23	Dual 6.5MHz R/R I/O	OPA2374AIDCNT..	NEW SMD 164-8698	1.080	0.860	0.710	0.650	0.630
6002	MCHIP	8 / MSOP	Dual General Purpose Rail-to-Rail Op Amp. 1MHz	MCP6002-I/MS	SMD 854-0853	0.320	0.200	0.168	– –	– –
6002	MCHIP	8 / DIP	Op Amp, Dual 1MHz	MCP6002-E/P	133-2117	0.300	0.260	0.167	– –	– –
6002	MCHIP	8 / SOIC	Op Amp, Dual 1MHz	MCP6002-E/SN	SMD 133-2118	0.300	0.260	0.167	– –	– –
6022	MCHIP	8 / DIP	Dual, CMOS, Rail-to-Rail Input/Output Op. Amp. (IND TEMP)	MCP6022-I/P	975-8640	1.200	0.680	0.580	– –	– –
6022	MCHIP	8 / DIP	Op Amp, Dual 10MHz	MCP6022-E/P	133-2125	1.030	0.860	0.580	– –	– –
6022	MCHIP	8 / SOIC	Op Amp, Dual 10MHz	MCP6022-E/SN	SMD 133-2126	1.030	0.860	0.580	– –	– –
6035	NSC	8 / SOIC	Dual, Low Power Single Supply CMOS Operational Amp	LMC6035IM	SMD 949-4286	0.950	0.770	0.720	0.690	0.650
6042	NSC	8 / SOIC	Dual, CMOS MicroPower Operational Amp., Supply Current=10µA/Amp., Vos=3mV mAx. (IND TEMP)	LMC6042AIM	SMD 949-4596	2.580	1.750	1.430	– –	– –
6042	NSC	8 / SOIC	Dual, CMOS MicroPower Operational Amp., Supply Current=10µA/Amp., Vos=6mV mAx. (IND TEMP)	LMC6042IM	SMD 949-4600	1.930	1.310	1.070	– –	– –
6042	MCHIP	8 / DIP	Dual, CMOS 600nA, Rail-to-Rail Op. Amp. (IND TEMP).	MCP6042-I/P.	396-8819	0.400	0.300	0.260	– –	– –
6042	MCHIP	8 / SOIC	Dual, CMOS, 600nA, Rail-to-Rail Op. Amp. (IND TEMP).	MCP6042-I/SN	SMD 975-8690	0.740	0.410	0.360	– –	– –
6062	NSC	8 / SOIC	Dual, Precision CMOS MicroPower Operational Amp., Supply Current=16µA/Amp., Vos=800µV mAx. (IND TEMP)	LMC6062IM	SMD 949-4669	1.720	1.470	1.360	– –	– –
6062	NSC	8 / SOIC	CMOS Dual Op Amp R/R O/P	LMC6062AIM/NOPB	NEW SMD 168-5330	3.050	2.380	1.940	1.780	1.590
6062	NSC	8 / DIP	Dual, MicroPower, Precision CMOS Operational Amp	LMC6062IN	948-6003	2.270	1.850	1.710	1.660	1.500
6078	LT	8 / MSOP	Dual, CMOS, Rail-to-Rail Input/Output Op Amps	LTC6078ACMS8#PBF	SMD 133-0959	3.390	2.580	2.030	1.910	1.860
6078	LT	8 / MSOP	Dual, CMOS, Rail-to-Rail Input/Output Op Amps	LTC6078AHMS8#PBF	SMD 133-0960	3.480	2.990	2.610	2.320	2.080
6078	LT	8 / MSOP	Dual, CMOS, Rail-to-Rail Input/Output Op Amps	LTC6078CMS8#PBF	SMD 133-0961	2.820	1.710	1.350	1.220	1.190
6078	LT	8 / MSOP	Dual, CMOS, Rail-to-Rail Input/Output Op Amps	LTC6078HMS8#PBF	SMD 133-0963	3.060	2.410	1.950	1.730	1.530
6081	LT	10 / DFN	Precision Dual CMOS Rail-to-Rail Input/Output Amplifier	LTC6081CDD#PBF	SMD 143-2782	3.290	2.120	1.680	– –	– –
6081	LT	8 / MSOP	Precision Dual CMOS Rail-to-Rail Input/Output Amplifier	LTC6081CMS8#PBF	SMD 143-2784	3.290	2.120	1.680	– –	– –
6081	LT	8 / MSOP	Precision Dual CMOS Rail-to-Rail Input/Output Amplifier	LTC6081HMS8#PBF	SMD 143-2785	3.970	2.560	2.020	– –	– –
6081	LT	10 / DFN	Precision Dual CMOS Rail-to-Rail Input/Output Amplifier	LTC6081IDD#PBF	SMD 143-2786	3.970	2.560	2.020	– –	– –
6082	NSC	8 / SOIC	Dual, Precision CMOS MicroPower Operational Amp., Input bias Current=10fA/Amp., Vos=350µV mAx. (IND TEMP)	LMC6082AIM	SMD 949-4677	4.430	2.630	2.100	– –	– –
6082	NSC	8 / DIP	Dual, Precision CMOS MicroPower Operational Amp., Input bias Current=10fA/Amp., Vos=350µV mAx. (IND TEMP)	LMC6082AIN	949-4685	4.560	3.740	3.430	– –	– –
6082	NSC	8 / SOIC	Dual, Precision CMOS MicroPower Operational Amp., Input bias Current=10fA/Amp., Vos=800µV mAx. (IND TEMP)	LMC6082IM	SMD 949-4693	2.650	2.160	1.990	– –	– –
6241	LT	8 / SOIC	Dual Low Noise, Rail-to-Rail Output, CMOS Op Amps	LTC6241CS8#PBF	SMD 133-0969	2.260	1.770	1.440	1.260	1.120
6241	LT	8 / SOIC	Dual Low Noise, Rail-to-Rail Output, CMOS Op Amps	LTC6241HVCS8#PBF	SMD 133-0970	3.980	3.110	2.530	2.230	1.960
6462	NSC	8 / SOIC	Dual, MicroPower, Rail-to-Rail Input and Output, CMOS Operational Amp., Supply Current=20µA/Amp., Vos=0.5mV mAx. (IND TEMP)	LMC6462AIM	SMD 949-4715	2.580	1.530	1.220	– –	– –
6462	NSC	8 / DIP	Dual, MicroPower, Rail-to-Rail Input and Output, CMOS Operational Amp., Supply Current=20µA/Amp., Vos=0.5mV mAx. (IND TEMP)	LMC6462AIN	949-4588	2.900	1.970	1.610	– –	– –
6462	NSC	8 / DIP	Dual, MicroPower, Rail-to-Rail Input and Output, CMOS Operational Amp.	LMC6462BIN	949-3808	2.270	1.850	1.710	1.660	1.550
6462	NSC	8 / DIP	Dual, MicroPower, Rail-to-Rail Input and Output, CMOS Operational Amp.	LMC6462BIN.	642-710	2.220	1.780	1.500	1.010	0.970
6482	NSC	8 / SOIC	Dual, Rail-to-Rail Input and Output, CMOS Operational Amp., Input Current=20fA/Amp., Vos=0.75mV mAx. (IND TEMP)	LMC6482AIM	SMD 949-4723	1.750	1.310	1.020	– –	– –
6482	NSC	8 / DIP	Dual, Rail-to-Rail Input and Output, CMOS Operational Amp., Input Current=20fA/Amp., Vos=0.75mV mAx. (IND TEMP)	LMC6482AIN	949-4731	1.620	1.320	1.220	– –	– –
6482	NSC	8 / SOIC	Dual, Rail-to-Rail Input and Output, CMOS Operational Amp., Input Current=20fA/Amp., Vos=3mV mAx. (IND TEMP)	LMC6482IM	SMD 949-4740	1.390	1.060	0.790	– –	– –
6482	NSC	8 / DIP	Dual CMOS Op Amp, RR	LMC6482IN	948-6062	1.320	1.090	1.000	0.970	0.910
6492	NSC	8 / SOIC	1.5MHz GBWP CMOS Dual R/R I/O Op Amp	LMC6492BEM/NOPB	NEW SMD 168-5368	1.900	1.470	1.200	1.110	0.990
7621	INTS	8 / SOIC	Dual, Low Power, CMOS Operational Amp	ICL7621DCBAZ	SMD 966-3657	0.960	0.740	0.670	0.610	0.530
7621	INTS	8 / DIP	Dual, Low Power, CMOS Operational Amp., internally compensated - 15mV	ICL7621DCPAZ	966-3665	0.910	0.710	0.640	0.580	0.500
8502	ADI	8 / SOT-23	Dual 1 uA Micropower CMOS Operational Amplifier	AD8502ARJZ	SMD 149-8684	1.660	1.210	0.950	– –	– –
8542	ADI	8 / SOIC	Dual, General purpose Rail-to-Rail Operational Amp	AD8542ARZ	SMD 942-5730	0.960	0.680	0.520	– –	– –
8542	ADI	8 / MSOP	Dual, Rail-to-Rail I/O, Single-Supply Op Amp	AD8542ARMZ-R2	SMD 133-3255	0.800	0.620	0.530	0.490	0.420
8542	ADI	8 / TSSOP	Dual, Rail-to-Rail I/O, Single-Supply Op Amp	AD8542ARUZ	SMD 133-3256	0.810	0.630	0.510	0.390	0.350
8592	ADI	10 / MSOP	Op Amp, Rail-Rail I/O,Dual	AD8592ARMZ-REEL	SMD 133-3259	0.630	0.480	0.360	0.350	0.330
8602	ADI	8 / SOIC	Dual, Precision CMOS Single Supply, Rail-to-Rail I/O, Wideband Operational Amplifier (EXT TEMP)	AD8602ARZ	SMD 960-4308	1.720	1.170	0.840	– –	– –
8606	ADI	8 / SOT-23	Precision Low Noise CMOS Dual Rail-to-Rail Input/Output Operational Amp.	AD8606ARZ	SMD 999-4343	2.370	1.670	1.250	– –	– –
8607	ADI	8 / MSOP	Precision Dual MicroPower R/RI I/O	AD8607ARMZ-R2	NEW SMD 165-1293	2.350	1.820	1.500	1.360	1.310
8616	ADI	8 / MSOP	Precision 20MHz CMOS Dual R/R Op Amp	AD8616ARMZ-R2	NEW SMD 165-1299	2.740	2.140	1.750	1.590	1.530
8617	ADI	8 / SOIC	MicroPower, Low Noise CMOS Rail-to-Rail Input/Output Operational Amplifier	AD8617ARZ	SMD 111-7888	1.900	1.310	0.940	0.870	0.810
8617	ADI	8 / MSOP	Op Amp,Rail-Rail I/O,Dual	AD8617ARMZ-R2	SMD 133-3263	1.820	1.350	1.030	0.990	0.930
8652	ADI	8 / SOIC	50 MHz, Precision, Low Distortion, Low Noise CMOS Amplifiers	AD8652ARZ	SMD 999-4335	4.670	3.150	2.470	– –	– –
8656	ADI	8 / SOIC	Low Noise, Precision CMOS Dual Amplifier.	AD8656ARZ	SMD 111-7887	2.700	1.910	1.420	1.350	1.260
8667	ADI	8 / SOIC	16 V, 250 microA, Dual Precision, CMOS, Rail-to-Rail Output Operational Amplifier	AD8667ARZ	SMD 143-8874	1.800	1.230	0.880	– –	– –
Quad										
6	MCHIP	14 / SOIC	Selectable Gain Amp, Quadl, 1MHz	MCP6G04-E/SL	SMD 133-2151	0.680	0.570	0.370	– –	– –
27	TI	14 / SOIC	LinCMOS Precision Quad	TLC27M4CD	NEW SMD 164-8725	0.420	0.330	0.280	0.260	0.240
27	TI	14 / SOIC	Quad, Lin-CMOS Operational Amp., Low bias	TLC27L4CD	SMD 110-6127	0.730	0.490	0.380	– –	– –
27	TI	14 / DIP	Quad, Lin-CMOS Operational Amp., Low bias	TLC27L4CN	110-3017	0.780	0.500	0.360	– –	– –
27	TI	14 / DIP	Quad, Lin-CMOS Operational Amp., medium bias	TLC27M4CN	110-3018	0.720	0.510	0.390	– –	– –
27	TI	14 / DIP	Quad, Lin-CMOS Operational Amp., medium bias	TLC27M4CN..	401-833	1.100	0.720	0.580	– –	– –
274	TI	14 / SOIC	Quad, Lin-CMOS Operational Amp., High bias	TLC274CD	SMD 110-3019	0.710	0.480	0.390	– –	– –
274	TI	14 / DIP	Quad CMOS Op Amp	TLC274CN	110-3020	0.680	0.480	0.360	– –	– –
496	ADI	14 / SOIC	Quad, Micropower, Rail-to-Rail Input and Output Operational Amplifiers	OP496GSZ	SMD 143-9001	5.170	3.530	2.620	– –	– –
604	MCHIP	14 / DIP	Quad, CMOS, Low Power, Rail-to-Rail Output Op. Amp.(IND TEMP)	MCP604-I/P	975-8712	0.830	0.600	0.520	0.440	0.390
604	MCHIP	14 / SOIC	Quad, CMOS, Low Power, Rail-to-Rail Output Op. Amp.(IND TEMP)	MCP604-I/SL	SMD 975-8720	0.810	0.600	0.520	0.430	0.400
604	MCHIP	/	Quad R/R O/P 2.8MHz GBWP CMOS Op Amp	MCP604-E/SL	NEW 162-9354	1.250	0.950	0.750	– –	– –
609	MCHIP	14 / DIP	Op Amp, Quad 25 ua	MCP609-I/P	133-2134	1.030	0.860	0.580	– –	– –
619	MCHIP	14 / PDIP	Quad 2.3V to 5.5V Bi-CMOS Rail-to-Rail Op Amp	MCP619-I/P	143-9436	1.160	0.810	0.640	– –	– –
619	MCHIP	14 / SOIC	Quad 2.3V to 5.5V Bi-CMOS Rail-to-Rail Op Amp	MCP619-I/SL	SMD 143-9437	1.100	0.780	0.680	– –	– –
660	NSC	14 / SOIC	Low Power CMOS Quad Op Amp R/R O/P	LPC660AIM/NOPB	NEW SMD 168-5388	2.720	2.110	1.730	1.590	1.420
660	NSC	14 / SOIC	CMOS Quad Op Amp R/R O/P	LMC660AIM/NOPB	NEW SMD 168-5336	1.620	1.270	1.040	0.950	0.850
660	NSC	14 / DIP	Quad, CMOS Operational Amp - Industrial Temperature Range	LMC660AIN	948-7107	1.990	1.350	1.100	1.030	0.970
660	NSC	14 / SOIC	Quad CMOS Op Amp	LMC660CM	SMD 948-7115	1.320	1.080	0.990	0.970	0.880
660	NSC	14 / DIP	Quad CMOS Op Amp	LMC660CN	948-7123	1.400	1.150	1.060	1.020	0.970
834	NSC	14 / TSSOP	Quad 3.3 MHz Low Power CMOS Op Amp	LMV834MT	NEW SMD 167-9690	2.000	1.560	1.280	1.080	1.000
914	ST	14 / SOIC	Quad, Rail to Rail, Low Power (400µA/Amp.) Op. Amp.	TS914ID	SMD 109-4387	1.750	1.300	1.020	0.870	0.800
924	ST	14 / SOIC	Quad CMOS Op Amp	TS924ID	SMD 109-4392	1.800	1.430	1.110	0.930	0.840
924	ST	14 / DIP	Quad, Rail-to-Rail, High output Current (80mA) Op. Amp., 4MHz	TS924IN	109-4393	2.260	1.760	1.470	1.280	1.110
1035	LT	18 / SOIC	Quad , Precision Chopper Stabilised Operation Amplifiers With Internal Capacitors	LTC1053CSW#PBF	SMD 113-6625	15.240	8.650	6.810	– –	– –
1079	TI	14 / SOIC	Quad Micropower Precision Low-Voltage Operational Amplifier	TLC1079CD	SMD 145-9737	5.410	3.690	2.980	2.870	2.680
2234	NSC	14 / SOIC	130kHz GBWP CMOS Quad Op Amp R/R O/P	LMP2234AMA/NOPB	NEW SMD 168-5333	4.460	3.460	2.830	2.590	2.330

RL Re-reeling available

	Mftr.	Pins/Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
Quad										
2264	TI	14 / SOIC	Advanced LINCMOS(Tm) Rail-To-Rail Quad Operational Amplifier	TLV2264AQD	SMC 123-6561	2.130	1.590	1.210	1.070	0.970
2274	TI	14 / SOIC	Advanced LINCMOS(Tm) Rail-To-Rail Quad Operational Amplifier	TLC2274AQDR	SMC 123-6550	1.500	1.120	0.850	0.760	0.670
2274	TI	14 / SOIC	Automotive CataLog Advanced LINCMOS(Tm) Rail-To-Rail Operational Amplifiers	TLC2274AQDRQ1	SMC 123-6551	1.500	1.120	0.850	0.760	0.670
4342	BB	14 / SOIC	Quad, CMOS, Rail-to-Rail I/O Single Supply Amp., Low Power 150µA	OPA4342UA	SMC 109-7480	1.940	1.210	1.080	– –	– –
4342	TI	14 / SOIC	Quad, CMOS, Rail-to-Rail I/O Single Supply Amp., Low Power 150µA	OPA4342UAG4	SMC 121-9413●	3.250	2.210	1.650	1.560	1.460
4350	TI	14 / SOIC	Quad, Single Supply, Rail-to-Rail CMOS Operational Amp. (IND TEMP)	OPA4350UA	SMC 109-7445●	6.510	4.430	3.580	– –	– –
4364	TI	14 / SOIC	7MHz 90dB CMRR R/R I/O	OPA4364AID	NEW SMC 164-8712●	2.140	1.720	1.430	1.290	1.260
4364	TI	14 / TSSOP	7MHz 90dB CMRR R/R I/O	OPA4364AIPWT	NEW SMC 164-8713●	2.310	1.900	1.580	1.430	1.390
6004	MCHIP	14 / TSSOP	Quad General Purpose Rail-to-Rail Op Amp. 1MHz	MCP6004-I/ST	SMC 854-0861●	0.460	0.390	0.330	– –	– –
6004	MCHIP	14 / DIP	Op Amp, Quad 1MHz	MCP6004-E/P	133-2121●	0.380	0.310	0.220	– –	– –
6004	MCHIP	14 / SOIC	Op Amp, Quad 1MHz	MCP6004-E/SL	SMC 133-2122●	0.380	0.310	0.220	– –	– –
6024	MCHIP	14 / DIP	Op Amp, Quad 10MHz	MCP6024-E/P	133-2127●	1.480	1.240	0.830	– –	– –
6024	MCHIP	14 / SOIC	Op Amp, Quad 10MHz	MCP6024-E/SL	SMC 133-2128●	1.480	1.240	0.830	– –	– –
6036	NSC	14 / SOIC	Quad, Low Power Single Supply CMOS Operational Amp	LMC6036IM	SMC 949-4294●	1.860	1.250	1.030	0.970	0.900
6044	NSC	14 / DIP	CMOS Quad Micropower Op Amp	LMC6044AIN/NOPB	NEW 168-5316●	2.070	1.610	1.310	1.210	1.090
6044	NSC	14 / SOIC	Quad, CMOS MicroPower Operational Amp., Supply Current=10µA/Amp., Vos=6mV mAx. (IND TEMP)	LMC6044IM	SMC 949-4626●	2.340	1.590	1.300	– –	– –
6044	NSC	14 / DIP	Quad, CMOS MicroPower Operational Amp., Supply Current=10µA/Amp., Vos=6mV mAx. (IND TEMP)	LMC6044IN	949-4634●	2.000	1.630	1.500	– –	– –
6044	MCHIP	14 / DIP	Quad, CMOS, 600nA, Rail-to-Rail Op. Amp. (IND TEMP)	MCP6044-I/P	108-4312●	1.300	0.730	0.630	– –	– –
6044	MCHIP	14 / SOIC	Quad, CMOS, 600nA, Rail-to-Rail Op. Amp. (IND TEMP)	MCP6044-I/SL	SMC 975-8704●	1.300	0.730	0.630	– –	– –
6064	NSC	14 / DIP	Quad, MicroPower, Precision CMOS Operational Amp	LMC6064IN	948-6089●	7.670	4.890	3.720	2.320	2.170
6064	NSC	14 / SOIC	100kHz GBWP CMOS Quad Op Amp R/R O/P	LMC6064IM/NOPB	NEW SMC 168-5346●	3.560	2.760	2.260	2.080	1.860
6079	LT	16 / SSOP	Quad, CMOS, Rail-to-Rail Input/Output Op Amps	LTC6079CGN#PBF	SMC 133-0964●	4.770	2.900	2.290	2.180	2.120
6082	LT	16 / DFN	Precision Quad CMOS Rail-to-Rail Input/Output Amplifier	LTC6082CDHC#PBF	SMC 143-2787●	5.620	3.610	2.860	– –	– –
6082	LT	16 / SSOP	Precision Quad CMOS Rail-to-Rail Input/Output Amplifier	LTC6082CGN#PBF	SMC 143-2788●	5.620	3.610	2.860	– –	– –
6082	LT	16 / SSOP	Precision Quad CMOS Rail-to-Rail Input/Output Amplifier	LTC6082HGN#PBF	SMC 143-2789●	6.800	4.390	3.460	– –	– –
6082	LT	16 / DFN	Precision Quad CMOS Rail-to-Rail Input/Output Amplifier	LTC6082IDHC#PBF	SMC 143-2790●	6.800	4.390	3.460	– –	– –
6082	LT	16 / SSOP	Precision Quad CMOS Rail-to-Rail Input/Output Amplifier	LTC6082IGN#PBF	SMC 143-2791●	6.800	4.390	3.460	– –	– –
6084	NSC	14 / SOIC	Quad, Precision CMOS Operational Amp., Input bias Current=10fA, Vos=350µV mAx. (IND TEMP)	LMC6084AIM	SMC 121-5212●	7.220	4.890	3.990	– –	– –
6084	NSC	14 / SOIC	Quad, Precision CMOS Operational Amp., Input bias Current=10fA, Vos=800µV mAx. (IND TEMP)	LMC6084IM	SMC 949-4707●	4.140	3.140	2.530	– –	– –
6242	LT	16 / SSOP	Quad 18MHz, Low Noise, Rail-to-Rail, CMOS Op Amp	LTC6242HVCGN#PBF	SMC 146-2132●	4.010	2.800	2.740	– –	– –
6464	NSC	14 / SOIC	CMOS Quad Op Amp R/R I/P	LMC6464BIM/NOPB	NEW SMC 168-5334●	3.270	2.550	2.080	1.910	1.710
6464	NSC	14 / DIP	Quad, MicroPower, Rail-to-Rail Input and Output, CMOS Operational Amp, Supply Current=20µA/Amp, Vos=3mV mAx. (IND TEMP)	LMC6464BIN	121-5213●	3.880	3.170	2.920	– –	– –
6484	NSC	14 / SOIC	Quad CMOS Op Amp. RR	LMC6484AIM	SMC 949-4758●	2.790	1.660	1.320	– –	– –
6484	NSC	14 / DIP	Quad, Rail-to-Rail Input and Output, CMOS Operational Amp., InputCurrent=20fA, Vos=0.75mV mAx. (IND TEMP)	LMC6484AIN	949-4766●	8.440	5.430	3.750	– –	– –
6484	NSC	14 / SOIC	Quad, Rail-to-Rail Input and Output, CMOS Operational Amp., InputCurrent=20fA, Vos=3mV mAx. (IND TEMP)	LMC6484IM	SMC 949-4774●	2.170	1.290	1.030	– –	– –
6484	NSC	14 / DIP	Quad, Rail-to-Rail Input and Output, CMOS, Operational Amp	LMC6484IN	948-6070●	2.350	1.940	1.770	1.720	1.610
6494	NSC	14 / SOIC	CMOS Quad Op Amp R/R O/P	LMC6494AEM/NOPB	NEW SMC 168-5335●	5.450	4.240	3.470	3.180	2.850
6494	NSC	14 / SOIC	Quad, Rail-to-Rail Input and Output, CMOS Operational Amp., InputCurrent=150fA, Vos=6mV mAx. (IND TEMP)	LMC6494BEM	SMC 121-5214●	3.980	2.690	2.200	– –	– –
8504	ADI	14 / TSSOP	Quad 1 uA Micropower CMOS Operational Amplifier	AD8504ARUZ	SMC 149-8685●	2.360	1.720	1.350	– –	– –
8544	ADI	14 / SOIC	Quad, General Purpose Rail-to-Rail Operational Amp.	AD8544ARZ	SMC 942-5748●	1.160	0.790	0.570	– –	– –
8554	ADI	14 / SOIC	Quad, Zero-Drift, Single-Supply, Rail-to-Rail I/O, Operational Amplifier (EXT TEMP)	AD8554ARZ	SMC 960-4286●	5.790	3.950	3.190	– –	– –
8544	ADI	14 / TSSOP	Quad, General-Purpose CMOS Rail-to-Rail Op amp.	AD8544ARUZ	SMC 133-3257●	1.160	0.790	0.570	0.520	0.510
8574	ADI	14 / SOIC	Quad, Zero-Drift, Single-Supply, Rail-to-Rail I/O Operational Amplifier (EXT TEMP)	AD8574ARZ	SMC 960-4294●	6.490	4.460	3.600	– –	– –
8594	ADI	16 / SOIC	Op Amp, Rail-Rail I/O,Quad	AD8594ARZ	SMC 133-3260●	1.230	0.840	0.600	0.560	0.520
8604	ADI	14 / SOIC	Quad, Precision CMOS Single Supply, Rail-to-Rail I/O, Wideband Operational Amplifier (EXT TEMP)	AD8604ARZ	SMC 960-4316●	2.080	1.420	1.060	– –	– –
8619	ADI	14 / TSSOP	Op Amp,Rail-Rail I/O,Quad	AD8619ARUZ	SMC 133-3265●	2.150	1.540	1.220	1.160	1.140
8619	ADI	14 / NSOIC	Op Amp,Rail-Rail I/O,Quad	AD8619ARZ	SMC 133-3266●	2.730	1.860	1.380	1.310	1.230
8664	ADI	14 / SOIC	Quad 16 V Precision CMOS Rail - to - Rail Operational Amplifier	AD8664ARZ	SMC 149-8687●	4.560	3.290	2.610	– –	– –

MCP6S22 PGA PICtail Demo Board



The MCP6S22 PGA PICtail™Demo Board is used to evaluate and demonstrate Microchip Technology's MCP6S21/2/6/8 Programmable and MCP6S91/2/3 Gain Amplifier (PGA) families.
It is Interfaced with Microchip's PICkit™ 1 Flash Starter Kit to demonstrate firmware integration between the PIC MCU and PGA devices, while allowing the designer to modify and develop firmware for specific requirements.
The MCP6S22 PGA PICtail™Demo Board can also be used in stand-alone mode, wherein the board uses a USB interface to communicate directly to a PC and Graphical User Interface (GUI) to display the PGA output voltage.

Features:

- Demonstrates MCP6S22/92 PGA functionality
- Interfaces to the PICKit™ 1 Flash Starter kit
- Interfaces directly to a PC via the USB port for stand-alone mode of operation
- 13-Bit Analog-to-Digital Converter (ADC) with SPI interface
- An optical sensor circuit connects to the PGA
- An adjustable voltage source connects to the PGA
- Four-layer PCB with separate ground and power supply planes provide noise immunity

450881

		Order Code	Price Each
MCP6S22DM-PICTL	MCP6S22 PGA PICtail Demo Board	111-2753	18.54

Buffer Amplifiers

211036

	Mftr.	Pins	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
3	INTS	8 / DIP	Monolithic, Wideband, High slew rate, High output Current buffer(enhanced LH002)	HA3-5002-5Z	101-8169●	3.02	2.72	2.26	2.09	1.94
9	INTS	8 / SOIC	110MHz, 1300V/µs Slew Rate, ±200mA Current Buffer	HA9P5002-5Z	NEW SMD 156-1931●	2.72	2.11	1.74	1.47	1.36
15	NSC	48 / TQFP	4-Channel LVDS Buffer/Repeater with Pre-Emphasis	DS15BR400TVS/NOPB	NEW SMD 168-5362●	8.24	6.41	5.24	4.81	4.31
25	NSC	8 / LLP	3.125Gbps LVDS Buffer with Receive Equalization	DS25BR110TSD/NOPB	NEW SMD 168-5392●	5.19	4.03	3.30	3.03	2.71
25	NSC	8 / LLP	3.125Gbps LVDS Buffer with Transmit Pre-Emphasis.	DS25BR120TSD/NOPB	NEW SMD 168-5393●	5.19	4.03	3.30	3.03	2.71
25	NSC	40 / LLP	3.125Gbps Quad LVDS Buffer	DS25BR440TSQ/NOPB	NEW SMD 168-5403●	17.95	13.96	11.42	10.46	9.38
112	NSC	8 / LLP	40 MHz Dual Clock Buffer	LMV112SD/NOPB	NEW SMD 168-5395●	8.68	6.75	5.53	5.06	4.54
633	ADI	8 / SOIC	4-Quad Analogue Multiplier, Accuracy 2% Max., 1MHz smAll signal bandwidth	AD633JRZ	SMD 942-6221●	6.97	4.85	3.91	– –	– –

RL Re-reeling available

Buffer Amplifiers - continued

	Mftr.	Pins	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
634	TI	5 / TO-220	Power Booster/Buffer	BUF634TG3	120-7894	6.37	5.28	4.03	– –	– –
634	TI	8 / SOIC	Power Booster/Buffer	BUF634U	SMD 121-2267	5.33	4.42	3.52	– –	– –
692	TI	8 / SOIC	Wideband Fixed Gain Buffer Amplifier with Disable	OPA692ID.	NEW SMD 164-8726	1.58	1.27	1.07	0.98	0.93
860	TI	8 / SOIC	Op Amp Transconductance & Buffer	OPA860ID	SMD 118-0132	4.51	3.07	2.29	2.17	2.03
1112	INTS	8 / DIP	High Speed, Programmable Gain Buffer Amp	HFA1112IP	639-424	2.63	1.89	1.70	1.66	1.62
1112	INTS	8 / DIP	High Speed, Programmable Gain Buffer Amp	HFA1112IPZ	121-6125	3.53	3.14	2.57	2.36	2.18
1804	TI	24 / QFN	1:3 LVPECL Clock Buffer + Additional LVCMOS Output and programmable Divider	CDCM1804RGETG4	SMD 139-0655	9.56	7.74	6.53	5.44	5.31
4200	MAX	8 / SO	Single 780MHz Ultra-High-Speed Open-Loop Buffer	MAX4200ESA+	NEW SMD 156-9950	1.81	1.59	1.30	1.11	1.01
4203	MAX	8 / SO	Dual 780MHz Ultra-High-Speed Open-Loop Buffer	MAX4203ESA+	NEW SMD 156-9951	2.16	1.93	1.57	1.33	1.20
4278	MAX	8 / SOIC	330MHz Closed-Loop Buffer	MAX4278ESA+	SMD 142-2322	2.62	1.85	1.52	1.37	1.34
6295	INTS	8 / TSSOP	Low Voltage Fuel Gauge	ISL6295CVZ	SMD 136-1037	4.47	3.04	1.94	1.72	1.67
6299	INTS	10 / DFN	Li-ion/Li-Polymer Battery Charger Accepting Two Power Sources	ISL6299AIRZ	136-1034	1.48	1.19	1.03	0.86	0.82
6321	NSC	8 / SOP	High Speed, High Output Current Buffer	LMH6321MR	SMD 128-6935	5.68	4.04	2.94	– –	– –
6321	NSC	7 / TO-263 (D2-Pak)	High Speed, High Output Current Buffer	LMH6321TS	128-6937	5.68	4.04	2.94	– –	– –
6559	NSC	8 / SOIC	High-Speed, Closed-Loop Buffer	LMH6559MA	SMD 818-0997	1.97	1.54	1.28	– –	– –
6560	NSC	14 / SOIC	Quad, High-Speed, Closed-Loop Buffer	LMH6560MA	SMD 818-1012	5.11	4.06	3.38	– –	– –
6560	NSC	14 / TSSOP	Quad, High-Speed, Closed-Loop Buffer	LMH6560MT	SMD 818-1020	5.11	4.35	3.48	– –	– –
6718	NSC	8 / SOIC	Dual, High Output, Programmable Gain Buffer	LMH6718MA	SMD 818-1039	3.43	2.32	1.90	– –	– –
6734	NSC	16 / SSOP	Single Supply, Ultra High-Speed, Triple Selectable Gain Buffer from the PowerWise® Family	LMH6734MQ	SMD 143-3156	4.94	3.97	3.30	2.94	2.65
8074	ADI	16 / TSSOP	500 MHz, G = +1, 2 Triple Video Buffer With Disable (IND TEMP)	AD8074ARUZ	SMD 942-6027	4.63	3.16	2.55	– –	– –
8075	ADI	16 / TSSOP	500 MHz, G = +2, 2 Triple Video Buffer With Disable (IND TEMP)	AD8075ARUZ	SMD 942-6035	4.63	3.16	2.55	– –	– –
8905	ROHM	28 / SOP	3V/ 5V O/P Half Duplex Bi-directional Buffer IC Card Interface.	BD8905F-E2	NEW 160-3631	1.83	1.42	1.17	1.07	0.99
9200	INTS	12 / DFN	Charging System Safety Circuit	ISL9200IRZ	SMD 136-1036	1.57	1.27	1.08	0.94	0.89
9204	INTS	8 / DFN	High Input Voltage Charger	ISL9204IRZ-T	SMD 136-1032	1.70	1.28	1.03	0.85	0.81
9206	INTS	5 / SOT-23	FlexiHash+™ For Battery Authentication	ISL9206DRZ	SMD 136-1035	1.79	1.55	1.35	1.15	1.03
9208	INTS	32 / QFN	Multi-Cell Li-ion Battery Pack OCP/Analog Front End	ISL9208IRZ	SMD 136-1038	4.11	3.28	2.99	2.73	2.35
9214	INTS	10 / DFN	Li-ion/Li-Polymer Battery Charger Accepting Two Power Sources	ISL9214IRZ	SMD 136-1033	1.65	1.38	1.20	1.01	0.93
55005	INTS	6 / SC-70	MMIC Silicon Bipolar Broadband Amplifier	ISL55005IEZ	SMD 136-0996	0.83	0.69	0.61	0.46	0.43
55007	INTS	6 / SC-70	MMIC Silicon Bipolar Broadband Amplifier	ISL55007IEZ	SMD 136-0997	0.83	0.73	0.62	0.52	0.43
55008	INTS	6 / SC-70	MMIC Silicon Bipolar Broadband Amplifier	ISL55008IEZ	SMD 136-0998	0.83	0.73	0.62	0.52	0.48
55009	INTS	6 / SC-70	MMIC Silicon Bipolar Broadband Amplifier	ISL55009IEZ	SMD 136-0999	0.78	0.69	0.59	0.49	0.45
55010	INTS	6 / SC-70	MMIC Silicon Bipolar Broadband Amplifier	ISL55010IEZ	SMD 136-1000	0.83	0.73	0.62	0.54	0.48
55011	INTS	6 / SC-70	MMIC Silicon Bipolar Broadband Amplifier	ISL55011IEZ	SMD 136-1001	0.83	0.73	0.62	0.52	0.48
59111	INTS	6 / CSP	8MHz Rail-to-Rail Composite Video Driver	ISL59111IIZ	SMD 136-1006	2.41	2.21	1.99	1.63	1.45

1

Buffer Amplifiers

MAXIM intersil

492330

	Mftr.	Pins/Package	Description	Mftrs. List No.	Order Code	Price Each 1+	25+	50+	100+	250+
4278	MAX	8 / SOIC	330MHz Closed-Loop Buffer	MAX4278ESA+	SMD 142-2322	2.62	1.85	1.52	1.37	1.34
4200	MAX	8 / SO	Single 780MHz Ultra-High-Speed Open-Loop Buffer	MAX4200ESA+	NEW SMD 156-9950	1.81	1.59	1.30	1.11	1.01
4203	MAX	8 / SO	Dual 780MHz Ultra-High-Speed Open-Loop Buffer	MAX4203ESA+	NEW SMD 156-9951	2.16	1.93	1.57	1.33	1.20
6295	INTS	8 / TSSOP	Low Voltage Fuel Gauge	ISL6295CVZ	SMD 136-1037	4.47	3.04	1.94	1.72	1.67
6299	INTS	10 / DFN	Li-ion/Li-Polymer Battery Charger Accepting Two Power Sources	ISL6299AIRZ	136-1034	1.48	1.19	1.03	0.86	0.82
9200	INTS	12 / DFN	Charging System Safety Circuit	ISL9200IRZ	SMD 136-1036	1.57	1.27	1.08	0.94	0.89
9204	INTS	8 / DFN	High Input Voltage Charger	ISL9204IRZ-T	SMD 136-1032	1.70	1.28	1.03	0.85	0.81
9206	INTS	5 / SOT-23	FlexiHash+™ For Battery Authentication	ISL9206DRZ	SMD 136-1035	1.79	1.55	1.35	1.15	1.03
9208	INTS	32 / QFN	Multi-Cell Li-ion Battery Pack OCP/Analog Front End	ISL9208IRZ	SMD 136-1038	4.11	3.28	2.99	2.73	2.35
9214	INTS	10 / DFN	Li-ion/Li-Polymer Battery Charger Accepting Two Power Sources	ISL9214IRZ	SMD 136-1033	1.65	1.38	1.20	1.01	0.93
55005	INTS	6 / SC-70	MMIC Silicon Bipolar Broadband Amplifier	ISL55005IEZ	SMD 136-0996	0.83	0.69	0.61	0.46	0.43
55007	INTS	6 / SC-70	MMIC Silicon Bipolar Broadband Amplifier	ISL55007IEZ	SMD 136-0997	0.83	0.73	0.62	0.52	0.43
55008	INTS	6 / SC-70	MMIC Silicon Bipolar Broadband Amplifier	ISL55008IEZ	SMD 136-0998	0.83	0.73	0.62	0.52	0.48
55009	INTS	6 / SC-70	MMIC Silicon Bipolar Broadband Amplifier	ISL55009IEZ	SMD 136-0999	0.78	0.69	0.59	0.49	0.45
55010	INTS	6 / SC-70	MMIC Silicon Bipolar Broadband Amplifier	ISL55010IEZ	SMD 136-1000	0.83	0.73	0.62	0.54	0.48
55011	INTS	6 / SC-70	MMIC Silicon Bipolar Broadband Amplifier	ISL55011IEZ	SMD 136-1001	0.83	0.73	0.62	0.52	0.48

Current Amplifiers

210736

	Mftr.	Pins	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
101	TI	14 / PDIP	Precision Low Drift 4 to 20mA Two Wire Transmitter	XTR101AP.	NEW 164-8756	11.53	9.65	8.84	7.99	7.78
106	TI	14 / SOIC	4-20mA Current Transmitter with Bridge Excitation & Linearization	XTR106U.	NEW SMD 164-8757	7.59	6.58	5.69	5.14	5.01
116	TI	8 / SOIC	4-20mA Current Loop Transmitter	XTR116U.	NEW SMD 164-8758	1.99	1.58	1.32	1.22	1.17
193	TI	5 / SOT-23	Common Mode Voltage -16V to 80V Current Shunt Monitor	INA193AIDBVT	NEW SMD 156-4940	1.82	1.50	1.34	1.10	0.92
193	TI	5 / SOT-23	Voltage Output High Side Measurement Current Shunt Monitor	INA193AIDBVT.	NEW SMD 164-8651	1.38	1.10	0.91	0.83	0.80
195	TI	5 / SOT-23	Common Mode Voltage -16V to 80V Current Shunt Monitor	INA195AIDBVT	NEW SMD 156-4941	1.82	1.50	1.34	1.10	0.92
196	TI	5 / SOT-23	Common Mode Voltage -16V to 80V Current Shunt Monitor	INA196AIDBVT	NEW SMD 156-4942	1.82	1.50	1.34	1.10	0.92
198	TI	5 / SOT-23	Common Mode Voltage -16V to 80V Current Shunt Monitor	INA198AIDBVT	NEW SMD 156-4943	1.82	1.50	1.34	1.10	0.92
1206	LT	8 / DIP	250mA/60MHz Current Feedback Amplifier	LT1206CN8#PBF	NEW 166-3393	5.93	4.44	3.55	2.96	2.66
1210	LT	7 / TO-220	1.1A 35MHz Current Feedback Amplifier	LT1210CT7#PBF.	NEW 166-3394	12.41	9.31	7.45	6.21	5.56
1223	LT	8 / DIP	100MHz Current Feedback Amplifier	LT1223CN8#PBF	133-0621	5.39	3.05	2.19	1.92	1.88
1395	LT	5 / SOT-23	Single 400MHz Current Feedback Amplifier	LT1395CS5#TRMPBF	NEW SMD 166-3758	2.03	1.58	1.26	1.04	0.94
1787	LT	8 / MSOP	Precision, High Side Current Sense Amplifiers	LT1787CMS8#PBF	SMD 133-0696	4.29	3.36	2.76	2.41	2.13
1787	LT	8 / MSOP	Precision, 60V, High Side Current Sense Amplifiers	LT1787HVCMS8#PBF	SMD 133-0697	5.87	4.59	3.73	3.29	2.93
3001	TI	8 / SOIC	420MHz High-speed, Current Feedback Op Amp. (0 to +70°C Temp. range)	THS3001CD	SMD 110-2958	5.44	3.70	2.99	– –	– –
3001	TI	8 / SOIC	420MHz High-speed, Current Feedback Op Amp. (-40 to +85°C Temp. range)	THS3001ID	SMD 110-2959	5.62	3.83	3.09	– –	– –
4080	MAX	8 / SOIC	Unidirectional Current-Sense Amplifiers with Voltage Output	MAX4080TASA+	NEW SMD 159-3368	1.57	1.21	1.10	0.92	0.78
4112	MAX	8 / SOIC	500MHz, Low Power, Current-Mode Feedback Amp. for Video applications	MAX4112ESA+	SMD 118-8064	3.15	2.58	2.11	1.79	– –
6100	LT	8 / MSOP	Precision, Gain Selectable High Side Current Sense Amplifier	LT6100IMS8#PBF	SMD 141-7731	2.44	1.41	1.16	– –	– –
6100	LT	8 / MSOP	Precision, Gain Selectable High Side Current Sense Amplifier	LT6100CMS8#PBF	SMD 133-0749	2.21	1.36	1.07	1.02	0.99
6100	LT	8 / MSOP	Op Amp, Current Sense	LT6100HMS8#PBF	SMD 133-0750	2.68	2.10	1.71	1.51	1.33
6101	LT	5 / SOT-23	High Voltage High Side Current Sense Amplifier	LTC6101HVACS5#TRMPBF	NEW SMD 166-3920	3.29	2.55	2.04	1.70	1.52
6101	LT	8 / MSOP	Current Sense Op Amp	LTC6101HVAHMS8#PBF	SMD 133-0968	4.27	3.34	2.71	2.38	2.11
6102	LT	8 / MSOP	Zero Drift High Side Current Sense Amplifier	LTC6102HVIMS8#PBF	SMD 143-2115	4.52	2.74	2.16	– –	– –
6102	LT	8 / MSOP	Zero Drift High Side Current Sense Amplifier	LTC6102CMS8#PBF	SMD 141-7725	3.27	1.96	1.56	– –	– –
6102	LT	8 / MSOP	Zero Drift High Side Current Sense Amplifier	LTC6102IMS#PBF	SMD 141-7726	3.55	2.05	1.69	– –	– –
6102	LT	8 / MSOP	Zero Drift High Side Current Sense Amplifier	LTC6102HMS#PBF	SMD 141-7727	4.08	2.52	2.46	– –	– –
6103	LT	8 / MSOP	Dual High Voltage, High Side Current Sense Amplifier	LTC6103IMS8#PBF	SMD 143-2116	3.41	1.96	1.60	– –	– –
6104	LT	8 / MSOP	High Voltage, High Side, Bi-Directional Current Sense Amplifier	LTC6104CMS8#PBF	SMD 141-7728	2.47	1.43	1.17	– –	– –
6104	LT	8 / MSOP	High Voltage, High Side, Bi-Directional Current Sense Amplifier	LTC6104IMS8#PBF	SMD 141-7729	2.85	1.63	1.34	– –	– –
6104	LT	8 / MSOP	High Voltage, High Side, Bi-Directional Current Sense Amplifier	LTC6104HMS8#PBF	SMD 141-7730	3.21	1.86	1.52	– –	– –
6105	LT	8 / MSOP	Precision R/R Input Current Sense Amplifier	LT6105CMS8#PBF	NEW SMD 166-3585	1.92	1.49	1.19	1.00	0.89
6106	LT	5 / SOT-23	36V High Side Current Sense Amplifier	LT6106CS5#TRMPBF	NEW SMD 166-3841	1.61	1.25	1.00	0.83	0.75

RL Re-reeling available

Farnell

	Mftr.	Pins	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
6106LT		5 / SOT-23	36V High Side Current Sense Amplifier	LT6106HS5#TRMPBF	NEW SMD 166-3842	1.83	1.42	1.14	0.94	0.85
6106LT		5 / TSOT-23	Low Cost, 36V High Side Current Sense Amplifier	LT6106HS5#PBF	SMD 143-2117	1.78	1.03	0.85	– –	– –
8001ADI		5 / SOT-23	800 MHz 50mW Current Feedback Amplifier	AD8001ARTZ-R2	NEW SMD 165-1271	2.21	1.72	1.41	1.29	1.23
8004ADI		14 / PDIP	Quad 3000 V/µs, 35mW Current Feedback Amplifier	AD8004ANZ	143-8588	7.70	5.90	5.00	– –	– –
8009ADI		8 / SOIC	Single 1GHz Low Distortion Amp	AD8009ARZ	NEW SMD 166-0970	3.58	2.79	2.28	2.09	1.74
8009ADI		5 / SOT-23	1GHz Low Distortion Amplifier	AD8009JRTZ-R2	NEW SMD 165-1269	3.66	2.84	2.32	2.14	2.03
8011ADI		8 / SOIC	300MHz 1mA Current Feedback Amplifier	AD8011ARZ	NEW SMD 165-1270	3.73	2.89	2.37	2.17	1.86
8212ADI		8 / MSOP	High Voltage Current Shunt Monitor	AD8212YRMZ	SMD 139-0953	1.51	1.06	0.84	0.81	0.73
8213ADI		8 / MSOP	Dual, High Voltage Current Shunt Monitor	AD8213YRMZ	SMD 139-0954	3.25	2.31	1.80	1.73	1.61
8332ADI		28 / TSSOP	Dual VGA with Ultralow Noise Preamplifier and Programmable RIN	AD8332ARUZ	SMD 149-8693	13.26	12.12	11.73	– –	– –
9928MAX		8 / UMAX	Uni-/Bidirectional, Current-Sense Amplifier	MAX9928FAUA+	NEW SMD 167-3100	1.81	1.29	1.00	0.90	0.83
9929MAX		8 / UMAX	Uni-/Bidirectional, Current-Sense Amplifier	MAX9929FAUA+	NEW SMD 167-3101	1.81	1.29	1.00	0.90	0.83

Differential Amplifiers

210737

	Mftr.	Pins	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
3	ADI	8 / SOIC	High-Speed Differential Amplifier, Nonlinearity 0.001% Max	AMP03GSZ	SMD 138-9160	5.23	3.56	2.87	2.77	2.58
03	ADI	8 / DIP	Precision, Unity Gain Differential Amp. Non-Linearity 0.001% Max.	AMP03GPZ	960-4081	5.23	3.56	2.87	– –	– –
15	NSC	8 / LLP	1.5 Gbps Differential Buffer with Adjustable Output Voltage	DS15BA101SD/NOPB	NEW SMD 168-5361	7.19	5.60	4.58	4.19	3.76
26	TI	8 / SOIC	Differential High-Frequency Amplifier with AGC	TL026CD	SMD 145-9444	1.12	0.76	0.54	0.51	0.47
105	TI	8 / TO-99	Precision Unity Gain Differential Amplifier	INA105AM	145-9422	12.52	10.84	9.93	9.14	8.93
105	BB	8 / SOIC	Precision, Unity Gain Differential Amp. Non-Linearity 0.001% Max	INA105KU	SMD 109-7436	6.92	5.64	4.56	3.66	– –
106	TI	8 / DIP	Precision Fixed-Gain Differential Amplifier	INA106KP	141-7415	10.02	7.52	6.26	– –	– –
106	TI	8 / SOIC	OP Amp, Differential	INA106U	SMD 121-2395	7.43	5.69	4.83	– –	– –
117	TI	8 / SOIC	OP Amp, Differential	INA117KUG4	SMD 120-6895	6.42	5.45	4.61	– –	– –
117	TI	8 / TO-99	High Common-Mode Voltage Difference Amplifier	INA117BM	145-9425	43.58	37.63	34.51	31.80	31.06
132	TI	8 / SOIC	OP Amp, Differential, Low Power Single Supply	INA132U	SMD 121-2416	3.01	2.05	1.53	– –	– –
132	BB	8 / SOIC	Low Power, Differential Amp	INA132UA	SMD 109-7402	2.59	2.38	1.91	– –	– –
133	BB	8 / SOIC	High Speed Precision Difference Amp., 1.5MHz bandwidth, Unity-Gain, Non-linearity 0.002% Max	INA133UA	SMD 109-7460	2.31	1.57	1.17	– –	– –
134	TI	8 / SOIC	OP Amp, Differential, Line Receiver	INA134UAE4	SMD 120-6899	1.80	1.32	1.06	– –	– –
137	TI	8 / SOIC	OP Amp, Differential, Audio Line Receiver	INA137UA	SMD 121-2418	1.80	1.32	1.06	– –	– –
137	TI	8 / SOIC	OP Amp, Differential, Audio Line Receiver	INA137UA..	SMD 846-6971	1.56	1.27	1.08	– –	– –
138	TI	5 / SOT-23	OP Amp, Differential	INA138NA/250G4	SMD 120-6900	1.49	1.23	1.07	– –	– –
143	TI	8 / SOIC	High-Speed, Precision, G = 10 or G = 0.1 Difference Amplifiers	INA143U	SMD 145-9428	2.81	1.91	1.42	1.35	1.26
143	BB	8 / SOIC	High Speed Precision Difference Amp., G=10 or G=0.1, Non-lin-earity 0.002% Max	INA143UA	SMD 109-7461	2.16	1.43	1.23	– –	– –
145	TI	8 / SOIC	Programmable Gain 1 to 1000	INA145UA	NEW SMD 164-8649	2.29	1.83	1.53	1.38	1.34
146	BB	8 / SOIC	High Voltage Programmable Gain Difference Amp., ±100V at Vs±15V, Non-linearity 0.01% Max	INA146UA	SMD 109-7463	4.10	2.96	2.70	– –	– –
148	TI	8 / SOIC	OP Amp, Differential	INA148UAG4	SMD 120-6902	3.14	2.63	2.09	– –	– –
152	TI	8 / VSSOP	OP Amp, Differential	INA152EA/250	SMD 120-6903	1.81	1.50	1.26	– –	– –
157	TI	8 / SOIC	High Speed & Precision Diff. Amp.	INA157U.	NEW SMD 164-8650	2.14	1.72	1.43	1.29	1.26
168	TI	5 / SOT-23	OP Amp, Differential	INA168NA/250	SMD 120-6907	2.79	1.90	1.41	1.28	1.25
547	BB	7 / TO-220	High Voltage/High Current Power Op Amp, operates from Single or Dual supplies	OPA547T	109-7395	7.75	5.28	4.30	– –	– –
605	ADI	16 / PDIP	Dual, Low Noise, Single-Supply Variable Gain Amplifier	AD605ANZ	143-8366	16.00	12.27	10.41	– –	– –
626	ADI	8 / DIP	Single Supply Differential Amp. With pin selectable Gains	AD626ANZ	960-5606	6.39	4.35	3.51	3.38	3.15
626	ADI	8 / PDIP	Single-Supply Differential Amplifier	AD626BNZ	143-8351	8.69	5.93	4.78	– –	– –
628	ADI	8 / MSOP	High Common-Mode Voltage Programmable Gain Difference Amplifier	AD628ARMZ	SMD 158-1926	3.19	2.47	1.88	– –	– –
628	ADI	8 / SOIC	High Common-Mode Voltage Programmable Gain Difference Amplifier	AD628ARZ	SMD 839-7201	3.96	2.94	2.19	– –	– –
629	ADI	8 / DIP	High Common-Mode Voltage Difference Amplifier, ±270V Voltage Range, 10µV/°C Offset Drift (IND TEMP)	AD629ANZ	960-4227	5.94	4.07	3.28	– –	– –
629	ADI	8 / SOIC	High Common-Mode Voltage Difference Amplifier	AD629ARZ	SMD 999-4203	5.00	3.54	2.86	– –	– –
629	ADI	8 / DIP	High Common-Mode Voltage Difference Amplifier, ±270V Voltage Range, 20µV/°C Offset Drift (IND TEMP)	AD629BNZ	960-4235	5.52	4.46	3.74	– –	– –
629	ADI	8 / SOIC	High Common-Mode Voltage Difference Amplifier	AD629BRZ	SMD 999-4220	7.72	5.48	4.42	– –	– –
733	TI	14 / PDIP	Differential Video Amplifier	UA733CN	145-9450	0.77	0.55	0.42	0.32	0.28
815	ADI	24 / SOIC	High Output Current Differential Driver	AD815ARBZ-24	NEW SMD 165-1277	9.53	7.43	6.07	5.57	5.33
830	ADI	8 / DIP	High Speed, Video Difference Amp. (IND TEMP)	AD830ANZ	107-9432	5.41	3.69	2.98	2.87	– –
1535	INTS	24 / QFN	Dual Channel Differentiated Op Amp	ISL1535IRZ	SMD 143-9849	4.45	3.39	3.11	2.68	2.45
1535	INTS	28 / HTSSOP	Dual Channel Differentiated Op Amp	ISL1535IVEZ	SMD 143-9850	4.58	3.40	3.20	2.74	2.51
1539	INTS	24 / QFN	Dual Channel Differential VDSL2 Line Driver	ISL1539IRZ	SMD 143-9851	5.42	4.21	3.79	3.20	2.98
1539	INTS	24 / HTSSOP	Dual Channel Differential VDSL2 Line Driver	ISL1539IVEZ	SMD 143-9852	5.42	4.21	3.79	3.20	2.98
1632	TI	8 / SOIC	OP Amp Differential, High Speed	OPA1632D	SMD 846-7455	3.51	2.39	1.78	1.69	1.58
1632	TI	8 / HTSSOP	OP Amp Differential, High Speed	OPA1632DGN	SMD 846-7463	3.51	2.39	1.78	1.69	1.58
1787	LT	8 / SOIC	High Side Current Sense Amplifier	LT1787HVCS8#PBF	NEW SMD 166-3502	5.79	4.34	3.47	2.89	2.59
1990	LT	8 / SOIC	Op Amp, Diff	LT1990ACS8#PBF	SMD 133-0732	3.69	2.08	1.66	1.46	1.38
1990	LT	8 / SOIC	Op Amp, Diff	LT1990CS8#PBF	SMD 133-0733	2.55	1.44	1.15	1.02	0.98
1991	LT	10 / MSOP	Op Amp, Diff	LT1991ACMS#PBF	SMD 133-0734	3.58	2.02	1.60	1.40	1.36
1991	LT	10 / MSOP	Op Amp, Diff	LT1991CMS#PBF	SMD 133-0735	2.51	1.95	1.60	1.41	1.25
1991	LT	10 / MSOP	0.1mA Gain Selectable Amplifier	LT1991HMS#PBF	NEW SMD 166-3538	3.20	2.40	1.92	1.60	1.43
1992	LT	8 / MSOP	Op Amp, Diff	LTC1992-1CMS8#PBF	SMD 133-0892	7.44	4.21	3.35	3.13	3.05
1992	LT	8 / MSOP	Op Amp, Diff	LTC1992-1HMS8#PBF	SMD 133-0893	5.93	3.85	3.41	3.32	3.23
1992	LT	8 / MSOP	Op Amp, Diff	LTC1992-2CMS8#PBF	SMD 133-0894	7.44	4.21	3.35	2.93	2.83
1992	LT	8 / MSOP	Op Amp, Diff	LTC1992-2HMS8#PBF	SMD 133-0896	5.93	3.85	3.41	3.32	3.23
1992	LT	8 / MSOP	Op Amp, Diff	LTC1992-5CMS8#PBF	SMD 133-0897	7.12	5.56	4.54	3.97	3.54
1992	LT	8 / MSOP	Op Amp, Diff	LTC1992CMS8#PBF	SMD 133-0899	3.12	2.25	1.66	1.45	1.29
1992	LT	8 / MSOP	Op Amp, Diff	LTC1992HMS8#PBF	SMD 133-0900	3.62	2.83	2.30	2.03	1.79
1993	LT	16 / QFN	800MHz Low Noise/Distortion Differential Amplifer	LT1993IUD-2#PBF	SMD 134-5611	5.89	3.74	3.06	2.78	2.00
1993	LT	16 / QFN	900MHz Low Noise/Distortion Differential Amplifer	LT1993IUD-4#PBF	SMD 134-5612	5.89	3.74	3.06	2.78	2.00
1993	LT	16 / QFN	700MHz Low Noise/Distortion Differential Amplifer	LT1993IUD-10#PBF	SMD 134-5614	5.89	3.74	3.06	2.78	2.39
1994	LT	8 / MSOP	70MHz Low Noise/Distortion Differential Amplifer	LT1994IMS8#PBF	SMD 134-5613	2.71	2.46	2.24	2.04	1.53
1994	LT	8 / DFN	Fully Differential I/O Amplifier/Driver	LT1994CDD#PBF	NEW SMD 166-3539	3.12	2.34	1.87	1.57	1.40
1994	LT	8 / MSOP	Op Amp, Diff	LT1994CMS8#PBF	SMD 133-0736	2.99	2.34	1.91	1.68	1.48
1995	LT	10 / MSOP	Op Amp, Diff	LT1995CMS#PBF	SMD 133-0737	3.41	2.67	2.18	1.91	1.70
2132	TI	14 / SOIC	Dual, Low Power, Single-Supply Difference Amplifier	INA2132U	SMD 145-9433	4.71	3.21	2.39	2.27	2.12
2132	TI	14 / SOIC	OP Amp, Differential, Dual	INA2132UAE4	SMD 120-6909	2.70	2.28	1.90	– –	– –
2141	ADI	8 / SOIC	Differential Amp With balanced line Inputs and High common mode rejec-tion	SSM2141SZ	SMD 107-9392	3.19	2.17	1.62	– –	– –
2142	ADI	16 / SOIC	Differential output Amp With Single ended Input and High output drive	SSM2142SZ	SMD 942-6329	4.78	3.31	2.46	– –	– –
2143	TI	14 / SOIC	High-Speed, Precision, G = 10 or G = 0.1 Difference Amplifiers	INA2143U	SMD 145-9434	3.85	2.83	2.23	2.04	2.00
3054	INTS	14 / SOIC	Dual, Independent Differential Amp	CA3054MZ	SMD 120-1538	0.51	0.47	0.45	0.41	0.35
4120	TI	8 / HTSSOP	OP Amp, Differential	THS4120IDGN	SMD 845-3241	2.84	2.30	1.82	– –	– –
4121	TI	8 / SOIC	3.3 V, 100 MHz, 43 V/us, Fully Differential CMOS Amplifier	THS4121ID	SMD 145-9435	4.01	2.73	2.03	1.93	1.80
4130	TI	8 / SOIC	Fully Differential Input/Output Low Noise Amplifier With Shutdown	THS4130CD	SMD 145-9436	4.77	3.31	2.76	2.47	2.44
4130	TI	8 / SOIC	High speed, Low Noise, fully-differential I/O Amp.	THS4130ID	SMD 110-3108	5.17	3.52	2.84	– –	– –
4131	TI	8 / SOIC	Fully Differential Input/Output Low Noise Amplifier	THS4131CDG4	SMD 123-4946	4.71	3.48	2.73	2.70	2.46
4131	TI	8 / MSOP	High speed, Low Noise, fully-differential I/O Amp.	THS4131CDGN	SMD 110-3047	5.05	3.71	2.94	– –	– –
4131	TI	8 / SOIC	OP Amp, Differential	THS4131ID	SMD 845-3250	5.08	3.46	2.79	– –	– –
4140	TI	8 / SOIC	OP Amp, Differential	THS4140ID	SMD 845-3268	6.24	4.25	3.43	– –	– –

RL Re-reeling available

Differential Amplifiers - continued

Mftr.	Pins	Description	Mftrs. List No.	Order Code	1+	10+	100+	250+	500+
					Price Each				
4141 TI	8 / SOIC	Fully Differential Input/Output High Slew Rate Amplifier	THS4141CD	SMD 145-9440	5.79	4.03	3.34	3.01	2.96
4141 TI	8 / SOIC	OP Amp, Differential	THS4141ID	SMD 845-3276	4.02	3.43	2.99	– –	– –
4151 TI	8 / SOIC	OP Amp, Differential	THS4151ID	SMD 845-3292	8.56	5.83	4.70	– –	– –
4500 TI	8 / SOIC	OP Amp, Differential	THS4500ID	SMD 845-3365	6.68	4.55	3.68	– –	– –
4501 TI	8 / SOIC	OP Amp, Differential	THS4501ID	SMD 845-3373	6.68	4.55	3.68	– –	– –
4502 TI	8 / SOIC	OP Amp, Differential	THS4502ID	SMD 845-3381	7.30	4.98	4.02	– –	– –
4502 TI	8 / HTSSOP	OP Amp, Differential	THS4502IDGN	SMD 845-3390	7.30	4.98	4.02	– –	– –
4503 TI	8 / SOIC	Wideband fully differential Amp (IND TEMP)	THS4503ID	SMD 136-5426	7.30	4.98	4.02	– –	– –
4503 TI	8 / HTSSOP	OP Amp, Differential	THS4503IDGN	SMD 845-3403	7.30	4.98	4.02	– –	– –
4505 TI	8 / SOIC	OP Amp, Differential	THS4505D	SMD 845-3411	3.34	2.27	1.69	– –	– –
4509 TI	16 / QFN	Wideband, Low Noise, Low Distortion, Fully Differential Amplifier	THS4509RGTT	SMD 959-4027	7.40	5.04	4.07	– –	– –
4922 ADI	8 / SOIC	High Voltage, Differential 18-Bit ADC Driver	ADA4922-1ARDZ	SMD 127-4190	6.95	4.77	3.85	3.71	3.46
4941 ADI	8 / SOIC	Single-Supply, Differential 18-Bit ADC Driver	ADA4941-1YRZ	SMD 127-4189	5.06	3.45	2.78	2.68	2.50
6400 LT	16 / QFN	1.8GHz Low Noise, Low Distortion Differential ADC Driver for 300MHz IF	LTC6400IUD-20#PBF	SMD 143-2100	6.94	4.23	3.33	– –	– –
6401 LT	16 / QFN	1.3GHz Low Noise, Low Distortion Differential ADC Driver for 140MHz IF	LTC6401IUD-20#PBF	SMD 143-2101	6.41	3.90	3.07	– –	– –
6402 LT	16 / QFN	Op Amp, Diff	LT6402CUD-20#PBF	SMD 133-0766	2.89	2.27	1.86	1.60	1.56
6402 LT	16 / QFN	300mhz Low distortion, Low noise, Diff Amplifier/ADC Driver, 20dB	LT6402IUD-20#PBF	SMD 134-5582	3.92	3.55	3.22	2.94	2.11
6402 LT	16 / QFN	300mhz Low distortion, Low noise, Diff Amplifier/ADC Driver, 12dB	LT6402IUD-12#PBF	SMD 134-5584	3.53	3.20	2.91	2.63	1.95
6402 LT	16 / QFN	300mhz Low distortion, Low noise, Diff Amplifier/ADC Driver, 6dB	LT6402IUD-6#PBF	SMD 134-5596	3.93	3.56	3.24	2.94	2.17
6405 LT	16 / QFN	Single 2.7GHz 5V Low Noise R/R I/P Differential Amplifier/Driver	LTC6405CUD	NEW SMD 164-7764	5.33	4.15	3.39	3.11	2.67
6405 LT	16 / QFN	Single 2.7GHz 5V Low Noise R/R I/P Differential Amplifier/Driver	LTC6405IUD	NEW SMD 164-7765	5.88	4.57	3.75	3.43	2.95
6406 LT	16 / QFN	3GHz, Low Noise, Rail-to-Rail Input Differential Amplifier/Driver	LTC6406IUD#PBF	SMD 143-2103	7.16	4.35	3.44	– –	– –
6406 LT	16 / QFN	3GHz, Low Noise, Rail-to-Rail Input Differential Amplifier/Driver	LTC6406CUD#PBF	SMD 143-2792	6.49	3.95	3.12	– –	– –
6411 LT	16 / QFN	650MHz Differential ADC Driver/Dual Selectable Gain Amplifi er	LT6411IUD#PBF	SMD 134-5592	3.80	3.21	2.78	2.45	2.25
6420 LT	20 / QFN	Dual Matched 1.8GHz Differential Amplifier/ADC Driver	LTC6420IUDC-20#PBF	NEW SMD 167-3526	11.17	8.51	7.15	5.96	5.11
6420 LT	20 / QFN	Dual Matched 1.8GHz Differential Amplifier/ADC Driver	LTC6420CUDC-20#PBF	NEW SMD 167-3532	9.74	7.42	6.23	5.20	4.45
6421 LTC	20 / QFN	Dual Matched 1.3GHz BW Differential Amplifier/ADC Driver	LTC6421CUDC-20#PBF	NEW SMD 160-9735	7.61	6.80	5.81	5.32	4.56
6421 LTC	20 / QFN	Dual Matched 1.3GHz BW Differential Amplifier/ADC Driver	LTC6421IUDC-20#PBF	NEW SMD 160-9736	8.79	7.85	6.71	6.15	5.27
6552 NSC	8 / SOIC	Amplifier, differential, 1GHZ	LMH6552MA	SMD 135-9427	6.39	5.29	4.21	3.79	3.45
6552 NSC	8 / LLP	1.5 GHz Fully Differential Amplifier from the PowerWise® Family	LMH6552SD	SMD 147-1249	4.64	4.34	4.05	3.77	3.09
6552 LT	8 / SOIC	Op Amp, Diff, Video	LT6552CS8#PBF	SMD 133-0770	2.08	1.25	1.00	0.94	0.91
6553 NSC	8 / SOP	900 MHz Fully Differential Amplifier	LMH6553MR	NEW SMD 166-7414	5.71	4.45	3.63	3.08	2.86
6553 NSC	8 / SOP	900 MHz Fully Differential Amplifier	LMH6553MRE	NEW SMD 166-7416	5.71	4.45	3.63	3.08	2.86
6553 NSC	8 / LLP	900 MHz Fully Differential Amplifier	LMH6553SD	NEW SMD 166-7417	5.71	4.45	3.63	3.08	2.86
6553 NSC	8 / LLP	900 MHz Fully Differential Amplifier	LMH6553SDE	NEW SMD 166-7418	5.71	4.45	3.63	3.08	2.86
6600 LT	8 / SO	Differential Driver with 10MHz LP Filter	LT6600IS8-10#PBF	SMD 134-5585	5.36	3.61	3.00	2.73	2.19
6600 LT	8 / SO	Differential Driver with 20MHz LP Filter	LT6600IS8-20#PBF	SMD 134-5587	5.89	3.61	3.00	2.72	2.39
6600 LT	8 / SO	Differential Driver with 2.5MHz LP Filter	LT6600IS8-2.5#PBF	SMD 134-5594	4.35	3.94	3.59	3.25	2.50
6600 LT	8 / SO	Differential Driver with 5MHz LP Filter	LT6600IS8-5#PBF	SMD 134-5601	4.82	4.38	3.98	3.62	2.61
8129 ADI	8 / MSOP	200 MHz Differential Receiver Amplifier	AD8129ARMZ	NEW SMD 165-1275	2.71	2.10	1.73	1.58	1.55
8129 ADI	8 / SOIC	200 MHz Differential Receiver Amplifier	AD8129ARZ	NEW SMD 165-1276	2.71	2.10	1.73	1.58	1.55
8130 ADI	8 / MSOP	270MHz Differential Receiver Amplifier	AD8130ARMZ	NEW SMD 166-0990	3.18	2.49	2.03	1.86	1.54
8130 ADI	8 / SOIC	270 MHz Differential Line Receiver Amplifier (IND TEMP)	AD8130ARZ	SMD 960-4278	3.67	2.53	1.88	– –	– –
8132 ADI	8 / MSOP	350MHz Differential Amplifier	AD8132ARMZ	NEW SMD 166-0958	3.39	2.64	2.16	1.97	1.65
8132 ADI	8 / SOIC	350MHz High-Speed Differential Amplifier (IND TEMP)	AD8132ARZ	SMD 942-6043	3.94	2.69	2.00	– –	– –
8138 ADI	8 / MSOP	Low Distortion Differential ADC Driver	AD8138ARMZ	NEW SMD 166-0991	7.00	5.76	4.71	4.32	3.61
8138 ADI	8 / SOIC	Single High Speed Differential Amp	AD8138ARZ	SMD 862-1551	7.61	5.22	4.21	– –	– –
8139 ADI	8 / LFCSP	Ultra Low Noise Fully Differential ADC Driver	AD8139ACPZ-R2	SMD 107-8297	6.15	5.53	5.02	– –	– –
8202 ADI	8 / MSOP	High Common-Mode Voltage, Single-Supply Difference Amplifier - 50MHz	AD8202YRMZ	SMD 107-8295	3.09	2.13	1.59	– –	– –
8202 ADI	8 / SOIC	High Common-Mode Voltage, Single-Supply Difference Amplifier - 50MHz	AD8202YRZ	SMD 107-8296	3.09	2.13	1.59	– –	– –
8203 ADI	8 / MSOP	High Common-Mode Voltage, Single-Supply Difference Amplifier - 60MHz	AD8203YRMZ	SMD 107-8294	1.70	1.20	1.00	– –	– –
8205 ADI	8 / SOIC	Single Supply 42V System, Difference Amplifier	AD8205YRZ	SMD 907-9416	1.78	1.32	1.01	– –	– –
8206 ADI	8 / SOIC	Single-Supply 42V System Difference Amplifier	AD8206YRZ	SMD 111-7892	2.62	1.85	1.44	1.37	1.28
8210 ADI	8 / SOIC	High Voltage, Bidirectional Current Shunt Monitor	AD8210YRZ	SMD 127-4226	3.77	2.57	1.91	1.82	1.69
8270 NSC	8 / SOIC	Differential Amplifier	LMP8270MA	SMD 128-6781	2.65	1.70	1.24	– –	– –
8271 NSC	8 / SOIC	Differential Amplifier	LMP8271MA	SMD 128-6782	2.52	1.92	1.46	– –	– –
8272 NSC	8 / SOIC	Differential Amplifier	LMP8272MA	SMD 128-6783	1.63	1.22	1.12	– –	– –
8331 ADI	20 / QSOP	UltraLow Noise VGAs With PreAmplifier and Programmable Input Resistance	AD8331ARQZ	SMD 158-1949	9.01	6.37	5.14	– –	– –
8350 ADI	8 / MSOP	1.0 GHz Differential Amplifier	AD8350ARMZ20	SMD 143-8867	5.78	3.94	3.18	– –	– –
8351 ADI	10 / MSOP	Low Distortion Differential RF/IF Amplifier	AD8351ARMZ	SMD 839-7945	5.81	4.06	3.27	– –	– –
8352 ADI	16 / LFCSP	2 GHz Ultra Low Distortion Differential RF/IF Amplifier	AD8352ACPZ-WP	SMD 127-4221	6.18	4.38	3.39	3.29	3.05

OutSmarts™ Balanced Line Drivers

THAT Corporation

Monolithic audio differential line drivers offering improved performance over conventional cross-coupled designs by the use of OutSmarts technology - a dual feedback-loop design that prevents the excessive ground currents typical of cross-coupled output stages (CCOS) when clipping into single-ended loads.
OutSmarts uses two individual negative-feedback loops to separately control the differential output voltage and common mode output currents, making the designs inherently more stable and less sensitive to component tolerances than common CCOSes. As a result, THAT's topology prevents the loss of common-mode feedback that plagues common CCOS designs when clipping into single-ended loads. This avoids excessive ground currents that would otherwise upset power supplies and create additional distortion, even in adjacent channels.

- Balanced, transformer-like floating output
- OutSmarts technology improves clipping into single-ended loads
- Stable driving long cables and capacitive loads

Output	18Vrms into 600Ω	Distortion	0.0007% @ 1kHz
Bandwidth	≥22Mhz	Noise	-101dBu
Slew Rate	15V/µs		

The 1646 is pin-compatible with the DRV134 and DRV135, as well as the SSM2142. The 1606 offers an advanced common-mode offset voltage reduction scheme, which requires a small single capacitor instead of the two electrolytics required by the 1646 and its pin-compatible cousins.

467530

Mftrs. List No.	Pins	Pkg	Order Code	1+	10+	100+	250+	500+
				Price Each				
THAT1606Q16-U	16	QSOP	SMD 135-4155	2.90	2.32	1.94	1.66	1.55
THAT1646S08-U	8	SO	SMD 135-4156	2.74	2.19	1.83	1.57	1.47
THAT1646W16-U	16	WSO	SMD 135-4157	2.83	2.26	1.88	1.62	1.51
THAT1646P08-U	8	DIP	135-4158	2.74	2.19	1.83	1.57	1.47

InGenius® High-CMRR Balanced Input Line Receivers

THAT Corporation

Series of InGenius balanced line receivers with good common mode rejection, not just on paper, but in real-world applications.
The patented InGenius input stage uses clever bootstrapping to raise its common-mode input impedance into the megohm range without the noise penalty from the obvious solution of using high-valued resistors.
Like transformers, InGenius line receivers maintain their high CMRR over a wide range of source impedance imbalances - even when fed from single-ended sources. But unlike transformers, these wide bandwidth solid state devices offer dc-coupling, low distortion, and transparent sound in a small package.

- Extremely high common-mode input impedance
- Maintains balance under real-world conditions
- Transformer-like performance in an IC

CMRR	90dB at 60Hz	Distortion	0.0006% THD
Bandwidth	≥22Mhz	Noise	-107dBu
Slew Rate	12V/µs		

467485

Mftrs. List No.	Pins	Pkg	Gain	Order Code	1+	10+	100+	250+	500+
					Price Each				
THAT1200P08-U	8	DIP	0dB	135-4149	3.57	2.86	2.38	2.05	1.90
THAT1200S08-U	8	SO	0dB	SMD 135-4150	3.65	2.92	2.43	2.09	1.95
THAT1206P08-U	8	DIP	-6dB	135-4151	3.57	2.86	2.38	2.05	1.90
THAT1206S08-U	8	SO	-6dB	SMD 135-4153	3.65	2.92	2.43	2.09	1.95

RL Re-reeling available

Balanced Line Receivers

THAT Corporation

Series of precision differential amplifiers designed for use as balanced line receivers for audio applications.
Laser trimmed in wafer form to give the precision resistor matching needed for high CMR performance and precise gain.
Manufactured in THAT Corporation's proprietary complementary dielectric isolation (DI) process, the THAT 1240-series provides the sonic benefits of discrete designs with the simplicity, reliability, matching, and small size of a fully integrated solution.

The THAT 1246 is pin-compatible with the INA137 and SSM2143, while the THAT 1240 is pin-compatible with the INA134 and the SSM2141.

CMRR	90dB at 60Hz	Distortion	0.0006% THD
Bandwidth	≥8.6Mhz	Noise	-103dBu (re: input)
Slew Rate	12V/µs	Current	2mA

467527

Mftrs. List No.	Pins	Pkg	Gain	Order Code	Price Each 1+	10+	100+	250+	500+
THAT1240P08-U	8	DIP	0dB	135-4130●	1.88	1.51	1.26	1.08	1.00
THAT1240S08-U	8	SO	0dB	SMD 135-4146●	1.92	1.53	1.28	1.10	1.03
THAT1246P08-U	8	DIP	-6dB	135-4147●	1.88	1.51	1.26	1.08	1.00
THAT1246S08-U	8	SO	-6dB	SMD 135-4148●	1.92	1.53	1.28	1.10	1.03

Instrumentation Amplifiers

210738

	Mftr.	Pins	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
1	ADI	20 / SOIC	Low Noise Precision Instrumentation Amplifier	AMP01GSZ	NEW SMD 165-1280●	14.51	12.90	10.55	9.67	8.30
02	ADI	8 / DIP	High Accuracy, Low Noise, Low Offset, Instrumentation Amp, 1 external resistor sets Gain from 1 to 1000	AMP02EPZ	960-3590●	14.40	11.04	9.37	– –	– –
02	ADI	8 / DIP	High Accuracy, Low Noise, Low Offset, Instrumentation Amp. - 1 external resistor sets Gain from 1 to 10,000	AMP02FPZ	960-4928●	8.64	6.63	5.62	– –	– –
04	ADI	8 / DIP	Precision Single Supply Instrumentation Amp. - 1 external resistor sets Gain from 1 to 1000	AMP04FPZ	960-3816●	9.41	6.41	5.18	– –	– –
4	ADI	8 / PDIP	Precision Single Supply Instrumentation Amplifier	AMP04EPZ	143-8684●	11.00	8.44	7.16	– –	– –
6	MCHIP	14 / NSOIC	12MHz GW 6 Channel Programmable Gain Amplifiers R/R I/O	MCP6S26-I/SL	NEW SMD 160-5575●	1.96	1.49	1.17	– –	– –
6	MCHIP	8 / MSOP	1 Channel, Single Ended, Rail-to-Rail I/O, Low Gain PGA	MCP6S91-E/MS	SMD 919-0465●	0.78	0.43	0.37	– –	– –
6	MCHIP	8 / DIP	1 Channel, Single Ended, Rail-to-Rail I/O, Low Gain PGA	MCP6S91-E/P	919-0473●	0.68	0.36	0.32	– –	– –
6	MCHIP	8 / SOIC	1 Channel, Single Ended, Rail-to-Rail I/O, Low Gain PGA	MCP6S91-E/SN	SMD 919-0481●	0.73	0.43	0.37	– –	– –
6	MCHIP	8 / DIP	2 Channel, Single Ended, Rail-to-Rail I/O, Low Gain PGA	MCP6S92-E/P	919-0503●	1.00	0.54	0.47	– –	– –
6	MCHIP	8 / SOIC	2 Channel, Single Ended, Rail-to-Rail I/O, Low Gain PGA	MCP6S92-E/SN	SMD 919-0511●	0.94	0.51	0.45	– –	– –
6	MCHIP	10 / MSOP	2 Channel, Single Ended, Rail-to-Rail I/O, Low Gain PGA	MCP6S93-E/UN	SMD 919-0520●	1.17	0.63	0.55	– –	– –
101	TI	14 / CDIP SB	Very High Accuracy Instrumentation Amplifier	INA101AG	145-9451●	29.36	23.35	20.74	20.34	19.03
101	TI	10 / TO-100	Very High Accuracy Instrumentation Amplifier	INA101AM	145-9452●	22.10	17.57	15.60	15.30	14.32
101	TI	14 / CDIP SB	Precision, Low Drift 4-20mA Two-Wire Transmitter	XTR101AG	145-9474●	54.53	47.10	43.19	39.79	37.69
101	BB	16 / SOIC	Precision Instrumentation Amp. - 1 external resistor sets Gains of 1, 10, 100, 1000	INA101KU	SMD 109-7437	17.97	15.40	12.73	– –	– –
103	TI	16 / PDIP	OP Amp, Instrumentation, Low Noise	INA103KP	121-2392●	7.43	5.69	4.83	– –	– –
103	TI	16 / SOIC	OP Amp, Instrumentation, Low Noise	INA103KU	SMD 121-2393●	6.76	5.69	4.83	– –	– –
110	BB	16 / DIP	Precision Monolithic FET Instrumentation Amp. - internal Gains 1, 10, 200, 500	INA110KP	109-7535	12.22	10.28	8.92	– –	– –
111	TI	8 / PDIP	2MHz FET-Input Instrumentation Amplifier	INA111AP.	NEW 164-8638●	6.36	5.09	4.24	3.84	3.74
111	TI	16 / SOIC	High Speed FET - Input Instrumentation Amp.	INA111AUE4	SMD 121-9424●	5.79	4.66	3.81	3.45	– –
111	TI	8 / PDIP	OP Amp, Instrumentation	INA111BP	121-2397●	9.94	7.62	6.46	– –	– –
111	TI	16 / SOIC	OP Amp, Instrumentation	INA111BU	SMD 121-2398●	9.94	7.62	6.46	– –	– –
114	TI	8 / PDIP	1MHz BW Precision Instrumentation Amplifier	INA114AP	NEW 156-4886●	8.44	6.96	6.18	5.06	4.29
114	TI	16 / SOIC	Precision Instrumentation Amp	INA114AUE4	SMD 117-8436●	6.41	5.09	4.21	3.75	3.66
114	TI	8 / PDIP	Amp, Instrumentation	INA114BP	121-2399●	8.45	6.48	5.49	– –	– –
114	TI	16 / SOIC	OP Amp, Instrumentation	INA114BU	SMD 121-2401●	8.45	6.48	5.49	– –	– –
115	TI	16 / SOIC	Precision Instrumentation Amplifier	INA115AU	SMD 145-9457●	7.48	5.10	4.12	3.96	3.70
116	TI	16 / DIP	FET-Input Instrumentation Amp. - 1 external resistor sets Gains from 1 to 1000	INA116PAG4	121-9422●	6.58	5.18	4.21	– –	– –
116	TI	16 / SOIC	OP Amp, Instrumentation	INA116UA	SMD 121-2402●	5.98	4.71	3.83	– –	– –
117	TI	8 / PDIP	200kHz High Common Mode Voltage Inst. Amp	INA117P.	NEW 164-8641●	4.12	3.29	2.74	2.48	2.41
118	BB	8 / DIP	Precision, Low Power, Instrumentation Amp. - 1 external resistor sets Gains of 1 to 10,000	INA118P	109-7546	7.43	5.06	4.09	3.94	3.67
118	TI	8 / PDIP	OP Amp, Instrumentation	INA118PB	121-2403●	9.60	7.37	6.25	– –	– –
118	TI	8 / SOIC	OP Amp, Instrumentation	INA118U	SMD 121-2404●	7.43	5.06	4.09	– –	– –
118	TI	8 / SOIC	OP Amp, Instrumentation	INA118UB	SMD 121-2405●	8.41	7.00	5.89	– –	– –
121	TI	8 / PDIP	600kHz FET Input Low Power	INA121P....	NEW 164-8642●	5.41	4.32	3.61	3.26	3.18
121	TI	8 / PDIP	600kHz FET Input Low Power	INA121PA..	NEW 164-8643●	3.82	3.05	2.54	2.30	2.24
121	TI	8 / SOIC	600kHz FET Input Low Power	INA121UA	NEW SMD 164-8644●	3.82	3.05	2.54	2.30	2.24
121	TI	8 / SOIC	OP Amp, Instrumentation	INA121U	SMD 121-2406●	6.33	4.31	3.48	– –	– –
122	TI	8 / DIP	Single Supply, MicroPower Instrumentation Amplifier for Precision, Low-Noise differential signal acquisition	INA122PA	121-2848●	4.13	2.91	2.17	– –	– –
122	TI	8 / SOIC	OP Amp, Instrumentation	INA122U	SMD 121-2407●	4.95	3.38	2.73	– –	– –
122	BB	8 / SOIC	Single Supply, MicroPower Instrumentation Amplifier for Precision, Low-Noise differential signal acquisition	INA122UA	SMD 109-7394	3.98	3.52	2.96	– –	– –
125	TI	16 / PDIP	150kHz Inst. Amp with Precision Voltage Reference	INA125PA	NEW 164-8645●	3.12	2.50	2.09	1.88	1.84
125	TI	16 / SOIC	150kHz Inst. Amp with Precision Voltage Reference	INA125UA	NEW SMD 164-8646●	3.12	2.50	2.09	1.88	1.84
125	TI	16 / PDIP	Instrumentation Amplifier with Precision Voltage Reference	INA125P	145-9461●	4.55	3.10	2.50	2.41	2.24
126	TI	8 / VSSOP	OP Amp, Instrumentation	INA126EA	SMD 121-2408●	1.73	1.52	1.37	1.22	1.12
126	TI	8 / DIP	Micropower Instrumentation Amplifier Single and Dual Versions	INA126PA	141-7402●	2.01	1.37	1.28	– –	– –
126	TI	8 / SOIC	OP Amp, Instrumentation	INA126U	SMD 121-2409●	2.66	1.82	1.35	– –	– –
126	BB	8 / SOIC	Instrumentation Amp. for Precision Low-Noise differential signal acquisition	INA126UA	SMD 109-7401	2.82	2.45	2.31	– –	– –
128	TI	8 / PDIP	OP Amp, Instrumentation	INA128P	121-2410●	8.37	5.71	4.61	– –	– –
128	TI	8 / PDIP	OP Amp, Instrumentation	INA128PA	121-2411●	5.17	3.52	2.84	– –	– –
128	TI	8 / SOIC	OP Amp, Instrumentation	INA128U	SMD 121-2413●	8.37	5.71	4.61	– –	– –
128	TI	8 / SOIC	OP Amp, Instrumentation	INA128UAE4	SMD 120-6896●	4.01	3.33	2.75	– –	– –
129	TI	8 / PDIP	OP Amp, Instrumentation, Low Power	INA129P	121-2414●	5.39	3.67	3.01	– –	– –
129	TI	8 / SOIC	OP Amp, Instrumentation, Low Power	INA129U	SMD 121-2415●	5.39	3.67	2.96	– –	– –
129	TI	8 / SOIC	OP Amp, Instrumentation, Low Power	INA129UAE4	SMD 120-6897●	3.92	3.28	2.75	– –	– –
131	TI	8 / DIP	Precision G = 100 Instrumentation Amplifier	INA131AP	141-7406●	6.51	5.26	4.27	– –	– –
131	TI	8 / PDIP	Precision G = 100 Instrumentation Amplifier	INA131BP	145-9463●	8.46	6.49	5.50	5.28	4.94
141	TI	8 / SOIC	OP Amp, Instrumentation	INA141U	SMD 121-2419●	8.05	6.17	5.23	– –	– –
141	TI	8 / SOIC	Instrumentation Amp	INA141UAE4	SMD 123-4670●	4.44	3.91	3.49	3.14	2.87
155	BB	8 / SOIC	Single Supply, Rail-to-Rail CMOS Instrumentation Amp. Gain=10V/V OR 50V/V	INA155UA	SMD 110-6188●	2.43	1.58	1.37	– –	– –
155	TI	8 / SOIC	OP Amp, Instrumentation, Rail-to-Rail	INA155UG4	SMD 120-6905●	2.21	1.74	1.46	– –	– –
163	TI	14 / SOIC	OP Amp, Instrumentation	INA163UAE4	SMD 120-6906●	3.76	3.05	2.52	– –	– –
202	TI	14 / PDIP	Digitally Controlled Programmable Gain	PGA202KP	NEW 164-8647●	10.28	8.60	7.88	7.12	6.94
203	TI	14 / PDIP	Digital Programmable-Gain Instrumentation Amplifier	PGA203KP	154-4015●	10.12	9.20	8.45	7.79	7.23
204	TI	16 / PDIP	1MHz Programmable Gain	PGA204AP.	NEW 164-8648●	11.07	9.27	8.48	7.67	7.47
205	TI	16 / PDIP	Programmable Gain Instrumentation Amplifier	PGA205AP	154-4016●	10.08	9.11	8.30	7.64	6.77
217	TI	8 / PDIP	OP Amp, Instrumentation	INA217AIP	121-2423●	4.46	3.04	2.45	– –	– –
217	TI	16 / SOIC	Low Noise, Low-Distortion Instrumentation Amplifier	INA217AIDWT	SMD 145-9470●	4.90	3.34	2.70	2.53	2.46
321	TI	8 / VSSOP	OP Amp, Instrumentation, MicroPower CMOS	INA321E/250G4	SMD 120-6911●	2.22	1.76	1.46	– –	– –

RL Re-reeling available

Farnell

Instrumentation Amplifiers - continued

	Mftr.	Pins	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
321	TI	8 / VSSOP	OP Amp, Instrumentation, MicroPower CMOS	INA321EA/250G4	SMD 120-6912●	1.51	1.26	1.00	– –	– –
322	TI	8 / MSOP	Single Supply/Channel CMOS Instrumentation Amplifier	INA322EA/250	NEW SMD 164-5384●	1.83	1.39	1.03	0.92	0.89
326	TI	8 / MSOP	Instrumentation Rail\Rail Amp	INA326EA/250G4	SMD 123-4688●	3.05	2.68	2.39	2.15	1.98
327	TI	10 / VSSOP	OP Amp, Instrumentation, Low Power	INA327EA/250	SMD 120-6913●	2.94	2.44	1.96	– –	– –
331	TI	8 / VSSOP	Low-Power, Single Supply, CMOS, Instumentation Amplifier	INA331IDGKT	SMD 145-9472●	2.51	2.01	1.66	1.48	1.45
332	TI	8 / MSOP	Single Supply/Channel CMOS Instrumentation Amplifier	INA332AIDGKT..	NEW SMD 164-5385●	1.64	1.28	0.95	0.89	0.83
333	TI	8 / MSOP	Zero Drift R/R/P Instrumentation Amplifier	INA333AIDGKT	NEW SMD 164-5386●	3.59	2.66	1.98	1.83	1.79
337	TI	8 / MSOP	Wide temperature Precision Instrumentation Amp	INA337AIDGKT	SMD 110-0951	2.48	2.08	1.74	– –	– –
524	ADI	16 / DIP	Precision Instrumentation Amp. - pin Programmable Gains: 1, 10,100, 1000.	AD524AD	402-138▲	19.35	18.36	14.20	– –	– –
524	ADI	16 / DIP	Precision Instrumentation Amp., Low drift - pin Programmable Gains: 1, 10, 100, 1000	AD524BD	642-782▲	30.17	29.44	20.10	– –	– –
524	ADI	16 / DIP	Precision, Pin Programmable Gains, Low Noise 0.3μV 0.1Hz to10Hz (Cerdip)	AD524CD	318-2101▲	45.50	37.93	30.52	26.99	– –
620	ADI	8 / DIP	Low Power, Instrumentation Amp. 1 external resistor sets Gains of 1 to 1000	AD620ANZ	107-9404●	6.03	4.12	3.32	– –	– –
620	ADI	8 / SOIC	Low Power Instrumentation Amp	AD620ARZ	SMD 942-6183●	6.03	4.12	3.32	– –	– –
620	ADI	8 / DIP	Low Power, Instrumentation Amp. 1 external resistor sets Gains of 1 to 1000 (50μV mAx i/p offset Voltage)	AD620BNZ	960-3522●	9.07	6.18	4.99	– –	– –
620	ADI	8 / SOIC	Low Power Instrumentation Amp	AD620BRZ	SMD 942-6191●	9.07	6.18	4.99	– –	– –
621	ADI	8 / SOIC	Low Drift Low Power Instrumentation Amp with fixed gains of 10/100	AD621ARZ	NEW SMD 166-0960●	8.16	6.71	5.49	5.04	4.19
621	ADI	8 / PDIP	Low Drift, Low Power Instrumentation Amp with fixed gains of 10 and 100	AD621BNZ	143-8352●	9.71	7.45	6.32	– –	– –
621	ADI	8 / DIP	Low Drift, Low Power, Instrumentation Amp. Pin-strappable Gains of 10 to 100	AD621ANZ	960-3808●	5.35	3.79	3.05	– –	– –
622	ADI	8 / DIP	Instrumentation Amp. With optional Gain range (2 to 1000) set by an external resistor (IND TEMP)	AD622ANZ	960-5614●	5.17	3.53	2.62	– –	– –
622	ADI	8 / SOIC	Low Power Instrumentation Amp	AD622ARZ	SMD 942-6205●	5.17	3.53	2.62	– –	– –
623	ADI	8 / MSOP	Single Supply R/R Instrumentation Amplifier	AD623ARMZ	NEW SMD 166-0961●	2.98	2.31	1.89	1.74	1.45
623	ADI	8 / DIP	Single Supply, Rail-to-Rail Instrumentation Amp. Gain range 1 to1000, set by an external resistor	AD623ANZ	960-3700●	4.05	2.76	2.05	– –	– –
623	ADI	8 / SOIC	Low Power Instrumentation Amp	AD623ARZ.	SMD 942-6213●	2.84	2.15	1.74	– –	– –
624	ADI	16 / DIP	High Precision Low Noise Instrumentation Amplifier	AD624ADZ	NEW 165-1279●	23.09	18.98	15.53	14.23	12.80
624	ADI	16 / DIP	Low Noise, Low Gain, Precision instrumentation Amp. Pin Programmable Gains: 1, 100, 200, 500, 1000. (200μVmAx i/p offset Voltage)	AD624AD	102-076▲	24.11	19.44	18.36	– –	– –
624	ADI	16 / DIP	Low Noise, Low Gain, Precision instrumentation Amp. Pin Programmable Gains: 1, 100, 200, 500, 1000. (75μVmAx i/p offset Voltage)	AD624BD	102-088▲	39.00	28.54	19.56	– –	– –
625	ADI	16 / DIP	Programmable Gain (1 to 1000) Instrumentation Amp. I/P drift<0.25μV/°C, O/P drift <15μV/°C. Gain Error ±0.02%. Temp. Coefficient 5 ppm/°C. Temp. range -40°C to +85°C (Ceramic)	AD625CD	318-2289▲	47.69	39.72	37.34	33.49	– –
625	ADI	16 / DIP	Programmable Gain, Precision Instrumentation Amp. - 3 external resistors set Gain from 1 to 10,000	AD625JNZ	960-4936●	12.57	9.64	8.18	– –	– –
625	ADI	16 / PDIP	Programmable Gain Instrumentation Amplifier	AD625KNZ	143-8353●	16.04	12.75	11.33	– –	– –
627	ADI	8 / SOIC	Micropower, Single and Dual Supply Rail-to-Rail Instrumentation Amplifier	AD627BRZ	SMD 138-9161●	6.93	5.13	4.14	3.88	3.61
627	ADI	8 / PDIP	Micropower, Single and Dual Supply Rail-to-Rail Instrumentation Amplifier	AD627BNZ	143-8354●	7.49	5.13	4.14	– –	– –
627	ADI	8 / DIP	MicroPower, Rail-to-Rail output Instrumentation Amp	AD627ANZ	960-3824●	5.39	3.67	2.96	– –	– –
627	ADI	8 / SOIC	MicroPower, Single and Dual Supply, Rail-to-Rail Instrumentation Amplifier	AD627ARZ	SMD 999-4211●	5.05	3.56	2.67	– –	– –
725	NSC	8 / DIP	Instrumentation Operational Amp	LM725CN	948-7158●	2.31	1.89	1.74	1.69	1.59
822	ADI	8 / MSOP	Dual Precision R/Rl Low Power FET Input Op Amp	AD822ARMZ-R2.	NEW SMD 165-1281●	5.38	4.18	3.43	3.14	2.69
1100	LT	8 / DIP	Precision, Chopper-Stabilized Instrumentation Amp.	LTC1100CN8#PBF	956-0866●	11.62	6.57	4.96	– –	– –
1101	LT	8 / DIP	Precision, MicroPower Instrumentation Amp. With Fixed Gains=10 or 100	LT1101CN8#PBF	955-9930●	8.98	5.08	3.81	– –	– –
1101	LT	16 / SOIC	Op Amp, Instr	LT1101SW#PBF	SMD 133-0576●	10.76	6.09	4.58	4.14	3.76
1102	LT	8 / DIP	Op Amp, Instr	LT1102CN8#PBF	133-0577●	8.26	4.69	3.81	3.39	3.12
1167	LT	8 / SOIC	Single Resistor Gain Programmable Precision Inst. Amp.	LT1167ACS8#PBF	NEW SMD 166-3384●	10.52	7.89	6.31	5.26	4.71
1167	LT	8 / SOIC	Single Resistor Gain Programmable Precision Inst. Amp.	LT1167AIS8#PBF	NEW SMD 166-3385●	12.07	9.06	7.24	6.04	5.40
1167	LT	8 / SOIC	Single Resistor Gain Programmable Precision Inst. Amp.	LT1167CS8#PBF.	NEW SMD 166-3386●	6.04	4.53	3.62	3.02	2.70
1167	LT	8 / SOIC	Single Resistor Gain Programmable Precision Inst. Amp.	LT1167IS8#PBF	NEW SMD 166-3387●	6.98	5.23	4.19	3.50	3.12
1167	LT	8 / DIP	Gain Programmable, Precision Instrumentation Amplifier	LT1167AIN8#PBF	956-0130●	11.53	7.46	6.10	– –	– –
1167	LT	8 / DIP	Gain Programmable, Precision Instrumentation Amplifier	LT1167CN8#PBF	956-0149●	6.02	3.41	2.54	– –	– –
1168	LT	8 / DIP	Op Amp, Instr	LT1168CN8#PBF	133-0587●	6.89	5.39	4.39	3.92	3.53
1789	LT	8 / SOIC	Micropower Single Supply R/R Output Instrumentation Amplifier Gain 1.	LT1789CS8-1#PBF	NEW SMD 166-3503●	6.04	4.53	3.62	3.02	2.70
1789	LT	8 / SOIC	Micropower Single Supply R/R Output Instrumentation Amplifier Gain 10.	LT1789CS8-10#PBF	NEW SMD 166-3504●	6.04	4.53	3.62	3.02	2.70
1920	LT	8 / SOIC	Single Resistor Gain Programmable Precision Instrumentation Amplifier	LT1920CS8#PBF	NEW SMD 166-3517●	5.93	4.44	3.55	2.96	2.66
1920	LT	8 / DIP	Op Amp, Instr	LT1920CN8#PBF	133-0729●	5.91	3.34	2.50	2.21	2.15
2053	LT	8 / MSOP	Precision R/R Zero-Drift Resistor Programmable Instrumentation Amplifier	LTC2053IMS8#PBF	NEW SMD 166-3681●	6.75	5.23	4.19	3.50	3.12
2053	LT	8 / MSOP	Op Amp, Instr, Zero-Drift.	LTC2053CMS8#PBF	SMD 133-0912●	6.02	3.41	2.54	2.36	2.30
2053	LT	8 / MSOP	Op Amp, Ext Clk Input	LTC2053CMS8-SYNC#PBF	SMD 133-0914●	4.57	3.94	3.46	3.09	2.78
2053	LT	8 / MSOP	Op Amp, Instr, Zero-Drift.	LTC2053HMS8#PBF	SMD 133-0915●	7.12	5.56	4.54	3.97	3.54
2126	TI	8 / DIP	Micropower Instrumentation Amplifier Single and Dual Versions	INA2126PA	141-7403●	3.25	2.21	1.65	– –	– –
2126	TI	16 / SOIC	MICROPower Instrumentation Dual Amplifier	INA2126UAE4	SMD 123-4796●	2.36	1.85	1.53	1.38	1.34
2126	TI	16 / SOIC	Micropower Instrumentation Dual Amplifier	INA2126U	SMD 145-9464●	3.09	2.46	2.04	1.77	1.73
2128	TI	16 / SOIC	Dual Instrumentation Amplifier	INA2128U	SMD 121-2421●	11.07	8.49	7.20	– –	– –
2332	TI	14 / TSSOP	OP Amp, Instrumentation, Dual Low Power Wide Bandwidth	INA2332AIPWRG4	SMD 120-6910●	1.48	1.30	1.27	1.24	1.21
4208	MAX	8 / MicroMAX	Instrumentation Amplifiers with REF Buffer & Adjustable Gain	MAX4208AUA+	NEW SMD 159-3369●	2.71	2.11	1.90	1.58	1.36
4208	MAX	8 / MicroMAX	Adjustable Gain Ultra-Low Offset/Drift, Precision Instrumentation Amplifiers with REF Buffer	MAX4208AUA+T	NEW SMD 155-0518●	2.40	1.91	1.74	1.48	1.37
4209	MAX	8 / MicroMAX	Adjustable Gain Ultra-Low Offset/Drift, Precision Instrumentation Amplifiers with REF Buffer	MAX4209HAUA+T	NEW SMD 155-0519●	2.40	1.91	1.74	1.48	1.37
4460	MAX	8 / SO	Adjustable Gain Precision Instrumentation Amplifier Single-Supply Rail-to-Rail	MAX4460ESA+	NEW SMD 155-0515●	1.53	1.23	1.12	0.95	0.88
6800	LT	8 / MSOP	Op Amp, Instr	LTC6800HMS8#PBF	SMD 133-0972●	2.93	1.81	1.42	1.24	1.10
7704	NSC	14 / TSSOP	Precision RRIO Quad Amplifier	LMP7704MT	SMD 128-6779●	4.28	2.76	2.01	– –	– –
8220	ADI	8 / MSOP	Rail to Rail Output JFET Input Instrumentation Amplifier	AD8220ARMZ	SMD 127-4225●	5.02	3.43	2.76	2.66	2.48
8220	ADI	8 / MSOP	Rail to Rail Output JFET Input Instrumentation Amplifier	AD8220BRMZ	SMD 127-4224●	7.61	5.23	4.22	4.07	3.79
8221	ADI	8 / SOIC	Precision Instrumentation Amplifier	AD8221ARZ	NEW SMD 166-0959●	4.77	3.72	3.04	2.79	2.31
8222	ADI	16 / LFCSP	Precision, Dual-Channel Instrumentation Amplifier.	AD8222ACPZ-WP	SMD 143-8868●	6.04	4.57	3.70	– –	– –
8224	ADI	16 / LFCSP	Precision, Dual-Channel, JFET Input, Rail-to-Rail Instrumentation Amplifier	AD8224ACPZ-WP	SMD 143-8869●	6.92	5.24	4.24	– –	– –
8231	ADI	16 / LFCSP	Zero Drift, Digitally Programmable Instrumentation Amplifier	AD8231ACPZ-WP	SMD 143-8870●	2.95	2.23	1.81	– –	– –
8250	ADI	10 / MSOP	10 MHz, 20 V/us, G = 1, 2, 5, 10 iCMOS® Programmable Gain Instrumentation Amplifier.	AD8250ARMZ	SMD 139-1032●	8.26	6.21	5.05	– –	– –
8251	ADI	10 / MSOP	10 MHz, 20 V/us, G = 1, 2, 4, 8 iCMOS® Programmable Gain Instrumentation Amplifier	AD8251ARMZ	SMD 143-8871●	8.26	6.26	5.05	– –	– –

RL Re-reeling available

	Mftr.	Pins	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
8555	ADI	16 / LFCSP	Digitally Programmable Sensor Signal Zero-Drift Amplifier	AD8555ACPZ-R2	SMD 107-8282●	5.57	4.17	3.34	– –	– –
8556	ADI	8 / SOIC	Digitally Programmable Sensor Signal Amplifier With EMI Filters	AD8556ARZ	SMD 107-8281●	6.68	4.59	3.71	– –	– –
8557	ADI	8 / SOIC	Digitally Programmable Sensor Signal Amplifier 96 dB CMRR	AD8557ARZ	SMD 143-8953●	3.40	2.79	2.29	– –	– –
28273	INTS	16 / QSOP	Dual Channel Micropower Instrument Amp	ISL28273FAZ	SMD 143-9857●	3.22	2.50	2.25	1.93	1.77
28274	INTS	24 / QSOP	Single Chip with 1 Inst. & 1 Op Amp	ISL28474FAZ	SMD 143-9858●	4.06	3.17	2.85	2.44	2.13

Instrumentation Amplifiers

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492331

	Mftr.	Pins/Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
28270	INTS	16 / QSOP	Micropower, Single Supply, Rail-to-Rail Input and Output (RRIO) Instrumentation Amplifier	ISL28270IAZ	SMD 136-0973●	2.62	2.25	2.01	1.71	1.54
28271	INTS	16 / QSOP	Dual Micropower, Single Supply, Rail-to-Rail Input and Output (RRIO)	ISL28271FAZ	SMD 136-0974●	2.62	2.25	2.01	1.71	1.54
28271	INTS	16 / QSOP	Dual Micropower, Single Supply, Rail-to-Rail Input and Output (RRIO)	ISL28272FAZ	SMD 136-0975●	2.68	2.25	2.01	1.71	1.54
28470	INTS	28 / QSOP	Micropower, Single Supply, Rail-to-Rail Input and Output (RRIO) Instrumentation Amplifier	ISL28470FAZ	SMD 136-0984●	2.55	2.26	2.05	1.87	1.71

Isolation Amplifiers

210541

	Mftr.	Pins	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
103	BB	24 / DIP	Internally Powered Isolation Amp. 1500Vrms, bandwidth 20kHz (0.6" wide package)	ISO103	109-7518●	144.71	134.56	127.13	– –	– –
120	BB	24 / DIP	Precision Isolation Amp. 1500Vrms, bandwidth 60kHz (0.3" wide package)	ISO120G	109-7521●	94.78	88.95	83.10	73.23	65.46
122	TI	16 / DIP	Precision Isolation Amp. 1500Vrms, bandwidth 50kHz, ±0.05% FSR	ISO122JPE4	117-8426●	20.97	16.98	12.47	– –	– –
122	TI	16 / DIP	Precision Isolation Amp. 1500Vrms, bandwidth 50kHz, ±0.02% FSR	ISO122PE4	117-8433●	18.56	15.02	11.09	– –	– –
122	TI	28 / SOIC	OP Amp, Isolation	ISO122JUE4	SMD 120-6914●	17.50	14.19	10.42	– –	– –
122	TI	28 / SOIC	OP Amp, Isolation	ISO122UE4	SMD 120-6915●	18.88	15.21	11.53	– –	– –
124	TI	8 / SO	Precision Isolation Amplifier	ISO124U	SMD 154-4012●	10.02	9.06	8.26	7.60	6.98
124	TI	16 / PDIP	OP Amp, Isolation	ISO124P	121-2425●	10.71	8.21	6.96	– –	– –
124	TI	28 / SOIC	OP Amp, Isolation	ISO124U...	SMD 121-2426●	10.71	8.21	6.96	– –	– –
124	TI	8 / SO	Precision Isolation Amplifier	ISO124U	SMD 154-4012●	10.02	9.06	8.26	7.60	6.98
202	ADI	11 / SIL	High Performance Miniature Isolation Amp., 750V rms, Powered directly from +15V	AD202JY	398-354▲	40.95	32.56	28.92	– –	– –
204	ADI	11 / SIL	High Performance Miniature Isolation Amp., 750Vrms (use AD246JY driver)	AD204JY	398-366▲	36.57	30.61	22.22	– –	– –
210	ADI	30 / DIP	Precision Wide Bandwidth 3 Port Isolation Amp., 20kHz, 2.5kV isolation, Non-linearity ±0.002%	AD210AN	318-2034▲	71.69	56.99	50.62	49.64	– –
210	ADI	30 / DIP	Precision Wide Bandwidth 3 Port Isolation Amp., 20kHz, 2.5kV isolation, Non-linearity ±0.012%	AD210BN	318-2046▲	86.31	68.62	60.95	59.78	– –
210	ADI	30 / DIP	Precision Wide Bandwidth 3 Port Isolation Amp., 20kHz, 1.5kV isolation, Non-linearity ±0.012%	AD210JN	318-2058▲	64.37	53.62	45.63	42.62	– –
721	TI	8 / SOIC	High Speed Digital Isolator, 4000V, 100MBPS	ISO721DG4	SMD 139-0642●	2.31	1.84	1.52	1.29	1.21
721	TI	8 / SOIC	High Speed Digital Isolator, 4000V, 150MBPS	ISO721MDG4	SMD 139-0643●	2.38	1.90	1.56	1.36	1.25
7220	TI	8 / SOIC	High Speed Dual Digital Isolator, 4000V, 25MBPS	ISO7220CD	SMD 139-0644●	3.29	2.64	2.15	1.85	1.74
7220	TI	8 / SOIC	High Speed Dual Digital Isolator, 4000V, 1MBPS	ISO7220AD	SMD 139-0649●	1.55	1.23	1.01	0.88	0.82
7220	TI	8 / SOIC	High Speed Dual Digital Isolator, 4000V, 150MBPS	ISO7220MD	SMD 139-0646●	4.03	3.13	2.46	2.44	2.28
7221	TI	8 / SOIC	High Speed Bidirectional Dual Digital Isolator, 4000V, 25MBPS	ISO7221CD	SMD 139-0645●	3.29	2.64	2.15	1.85	1.74
7221	TI	8 / SOIC	High Speed Bidirectional Dual Digital Isolator, 4000V, 150MBPS	ISO7221MD	SMD 139-0647●	4.03	3.13	2.46	2.44	2.28
7221	TI	8 / SOIC	High Speed Bidirectional Dual Digital Isolator, 4000V, 1MBPS	ISO7221AD	SMD 139-0651●	1.55	1.23	1.01	0.88	0.82
7800	AV	8 / DIP	High CMR Isolation Amp	HCPL-7800	459-446▲	8.22	6.18	5.71	4.75	4.24

Sample and Hold Amplifiers

210739

	Mftr.	Pins	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
1	INTS	14 / DIP	High Speed Sample and Hold Amp. 500ns acquistion, 0.5mV typ. hold step, internal capacitor	HA1-5330-5	402-278▲	18.25	16.42	13.69	12.63	11.74
3	INTS	14 / DIP	Sample and Hold Amp. 4µs acquistion, 10mV typ. hold step.	HA3-2425-5	402-230	5.24	3.50	3.19	2.48	2.22
3	INTS	14 / DIP	High Speed Sample and Hold Amp. 1µs acquistion, 1.0mV typ. hold step, internal capacitor	HA3-5320-5	633-410	5.01	4.17	3.48	3.05	2.97
4	ADI	16 / SOIC	CMOS Quad Sample and Hold Amplifier	SMP04ESZ	NEW SMD 166-1013●	9.10	7.49	6.13	5.62	4.68
4	ADI	16 / PDIP	CMOS Quad Sample-and-Hold Amplifier	SMP04EPZ	143-8698●	8.21	6.30	5.34	– –	– –
8	ADI	16 / SOIC	Low Droop Rate Octal Sample-and-Hold with Multiplexed Input	SMP08FSZ	SMD 143-8699●	13.04	10.05	8.53	– –	– –
9	INTS	16 / SOIC	1µs Precision Sample & Hold Amplifier	HA9P5320-5Z	NEW SMD 156-2033●	7.68	6.72	4.89	4.14	3.74
298	NSC	14 / SOIC	Sample and Hold Circuit	LF298M	SMD 822-1820●	1.94	1.64	1.34	– –	– –
398	NSC	8 / TO-99	Sample and Hold Amp. 4µs acquistion, 1.0mV typ. hold step	LF398H	121-6161●	7.33	4.97	4.06	3.50	3.17
398	NSC	8 / DIP	Sample and Hold Amp. (enhanced LF398N)	LF398AN	948-5937●	2.67	2.19	2.01	1.96	1.83
398	NSC	8 / DIP	Sample and Hold Amp. 4µs acquistion, 1.0mV typ. hold step	LF398N	948-7140●	1.78	1.21	0.99	0.81	0.80
585	ADI	14 / DIP	Sample and Hold Amp. 3µs acquistion, 3mV typ. hold step, internal capacitor.	AD585AQ	402-163▲	24.83	19.74	17.54	– –	– –
781	ADI	8 / DIP	Sample and Hold Amp. 700ns Acquisition Time, internal hold capacitor.	AD781JNZ	960-4073●	10.76	8.25	7.00	– –	– –
783	ADI	8 / SOIC	High Speed Sample and Hold Amp. 250nS Acquisition Time. Internal capacitor	AD783JRZ	SMD 107-9328●	17.60	14.00	12.43	12.19	– –
197	MAX	28 / DIP	12Bit DAC, 8 Analogue I/P, Selectable I/P Voltage	MAX197BCNI+	142-2294●	26.66	17.14	14.18	10.50	8.12

Miscellaneous Amplifiers

Trimmable Blackmer® VCAs

THAT Corporation



THAT 2181 Series integrated circuit Blackmer voltage controlled amplifiers (VCAs) are high-performance current-in/current-out devices with two opposing-polarity, voltage-sensitive control ports. They offer wide-range exponential control of gain and attenuation with low signal distortion.
The parts are selected after packaging based primarily on after-trim THD and control-voltage feedthrough performance. In-circuit adjustment is required to achieve the guaranteed distortion and feedthrough performance.
THAT Blackmer VCAs are the successors to the original dbx line of VCAs. To overcome the problems related to limited GBW product, the 218X series of VCAs has topological enhancements that minimize the effect of non-linearities in the VCA drive circuitry on high frequency distortion. These VCAs do not exhibit the rising distortion at higher frequencies characteristic of VCAs built on a junction isolated process.

Dynamic Range	≥120dB	Gain-Bandwidth	20MHz
Gain Range	≥130dB	Package	8 pin SIP

467590

Mftrs. List No.	Max Trimmed 1V, 1kHz, 0dB	Order Code	Price Each 1+	10+	100+	250+	500+
THAT2181AL08-U	0.005%	135-4171●	5.36	4.29	3.57	3.06	2.86
THAT2181BL08-U	0.01%	135-4172●	3.47	2.77	2.32	1.99	1.85
THAT2181CL08-U	0.02%	135-4173●	2.80	2.24	1.86	1.60	1.49

Pre-Trimmed Blackmer® VCAs

THAT Corporation

THAT 2180 Series integrated circuit Blackmer voltage controlled amplifiers (VCAs) are high-performance current-in/current-out devices with two opposing-polarity, voltage-sensitive control ports. They offer wide-range exponential control of gain and attenuation with low signal distortion.
The parts are trimmed during wafer processing to minimise THD and control-voltage feedthrough. After packaging, the parts are tested and graded based on the degree to which the trim survived packaging. No further adjustment is required to achieve the guaranteed distortion and feedthrough performance.
THAT Blackmer VCAs are the successors to the original dbx line of VCAs. To overcome the problems related to limited GBW product, the 218X series of VCAs has topological enhancements that minimize the effect of non-linearities in the VCA drive circuitry on high frequency distortion. These VCAs do not exhibit the rising distortion at higher frequencies characteristic of VCAs built on a junction isolated process.

Dynamic Range	≥120dB	Distortion	≤0.01% (2180A)
Gain Range	≥130dB	Gain-Bandwidth	20MHz

RL Re-reeling available

Miscellaneous Amplifiers - continued

Pre-Trimmed Blackmer® VCAs - continued

467550

Mftrs. List No.	Pins	Pkg	Max THD @ 1V, 1kHz, 0dB	Order Code	Price Each 1+	10+	100+	250+	500+
THAT2180AL08-U	8	SIP	0.01%	135-4166●	6.09	4.87	4.06	3.48	3.25
THAT2180BL08-U	8	SIP	0.02%	135-4167●	3.73	2.98	2.48	2.13	1.99
THAT2180CL08-U	8	SIP	0.05%	135-4168●	2.98	2.38	1.99	1.71	1.59

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210740

	Mftr.	Pins	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
6	MCHIP	8 / SOIC	Amp, Pg 1Ch. 12 MHz SPI.	MCP6S21-I/SN	SMC 133-2152●	1.01	0.55	0.48	– –	– –
6	MCHIP	8 / DIP	Amp, Pg 2Ch. 12 MHzSpi	MCP6S22-I/P	133-2153●	1.10	0.92	0.62	– –	– –
6	MCHIP	16 / SOIC	Amp, Pg 8Ch. 12 MHz SPI.	MCP6S28-I/SL	SMC 133-2154●	1.85	1.55	1.00	– –	– –
6	MCHIP	8 / PDIP	Single-Ended, Rail-to-Rail I/O, Low Gain PGA	MCP6S21-I/P	143-9474●	1.06	0.59	0.51	– –	– –
6	MCHIP	8 / SOIC	2-Channel Single-Ended, Rail-to-Rail I/O, Low Gain PGA	MCP6S22-I/SN	SMC 143-9475●	0.95	0.55	0.48	– –	– –
6	MCHIP	16 / PDIP	8-Channel Single-Ended, Rail-to-Rail I/O, Low Gain PGA	MCP6S28-I/P	143-9476●	2.16	1.21	1.06	– –	– –
57	CIR	64 / QFP	Switching Amplifier	SA57-IHZ	NEW SMC 167-3825●	19.54	15.19	12.00	10.27	9.13
57	CIR	64 / QFP	Switching Amplifier	SA57A-FHZ	NEW SMC 167-3902●	19.52	15.80	14.12	11.64	9.90
112	TI	10 / MSOP	Programmable Gain Amplifier with 2 Channel Multiplexed O/P	PGA112AIDGST	NEW SMC 156-5875●	1.80	1.58	1.44	1.29	1.11
112	TI	14 / SOIC	PrecisionLogarithmic &Log Ratio Amp.	LOG112AID	SMC 121-4431●	11.73	8.99	7.63	– –	– –
221	NSC	6 / LLP	50 MHz to 3.5 GHz 40 dB Logarithmic Power Detector for CDMA and WCDMA	LMV221SD	SMC 132-0978●	1.93	1.55	1.28	1.11	1.00
306	CIR	64 / QFP	3 Phase Switching Amplifier	SA306A-FHZ	NEW SMC 167-3901●	27.27	22.07	19.73	16.27	13.83
306	CIR	64 / QFP	3 Phase Switching Amplifier	SA306-IHZ	NEW SMC 167-3824●	23.47	19.00	15.48	13.57	11.41
452	BB	7 / TO-220	High Voltage (80V)/High Current (50mA) Operational Amp. (IND TEMP).	OPA452TA	109-7497●	3.74	3.11	2.61	– –	– –
526	ADI	16 / DIP	Software Programmable Gain Amp. Gains of 1, 2, 4, 8, 16.	AD526AD	402-140▲	12.84	10.47	7.78	– –	– –
526	ADI	16 / DIP	Software Programmable Gain Amp. Gains of 1, 2, 4, 8, 16.	AD526JNZ	960-5444●	9.14	7.00	5.94	– –	– –
547	BB	7 / TO-220	High Voltage/High Current Power Op Amp, operates from Single or Dual supplies.	OPA547T	109-7395●	7.75	5.28	4.30	– –	– –
549	ADI	8 / TO-99	Electrometer Amp	AD549JH	402-151▲	21.26	18.54	12.32	– –	– –
549	ADI	8 / TO-99	Ultra-Low Input Bias Current Electrometer Operational Amp	AD549LH	318-2186▲	36.21	30.20	25.43	21.47	– –
603	ADI	8 / SOIC	Low Noise 90MHz Variable Gain Amplifier	AD603ARZ	NEW SMC 166-1010●	9.87	8.10	6.63	6.07	5.06
604	ADI	24 / PDIP	Dual, Ultralow Noise Variable Gain Amplifier.	AD604ANZ	143-8875●	22.95	18.80	15.52	12.89	12.55
604	ADI	24 / SOIC	Dual, Ultralow Noise Variable Gain Amplifier.	AD604ARZ	SMC 143-8877●	21.17	16.82	14.94	– –	– –
605	ADI	16 / SOIC	Dual, Low Noise, Single-Supply Variable Gain Amplifier	AD605BRZ	SMC 143-8878●	17.96	14.69	12.16	10.10	9.83
606	ADI	16 / PDIP	50 MHz, 80 dB Demodulating Logarithmic Amplifier with Limiter Output.	AD606JNZ	143-8364●	39.10	31.08	27.61	– –	– –
640	ADI	22 / PDIP	120 MHz, 50 dB Demodulating Logarithmic Amplifier.	AD640JNZ	143-8365●	46.24	37.31	33.14	– –	– –
810	TI	8 / SOIC	High-Gain Adjustable Range, Wideband, Voltage-Controlled Amplifier.	VCA810AIDG4	SMC 133-7076●	8.27	7.60	7.02	6.53	6.09
951	MAX	8 / DIP	Low Power, Single Supply Operational Amp. and Comparator With internal Reference. (IND TEMP)	MAX951EPA+	129-0865●	3.54	2.54	1.94	1.65	– –
951	MAX	8 / DIP	Low Power, Single Supply Operational Amp. and Comparator With internal Reference. (IND TEMP)	MAX951EPA+	129-0865●	3.54	2.54	1.94	1.65	– –
1250LT		8 / DIP	Low Noise, Zero-Drift Bridge Amplifier	LTC1250CN8#PBF	956-0947●	5.20	2.98	2.23	– –	– –
2164ADI		16 / SOIC	Quad Voltage Controlled Amplifier	SSM2164SZ	NEW SMC 166-1011●	5.94	4.62	3.79	3.47	2.89
3001CIR		8 / SOIC	Precision, Low-Voltage Amplifier, DC to 2 kHz.	CS3001-ISZ	SMC 102-3349●	1.61	1.10	0.82	– –	– –
3002CIR		8 / SOIC	Dual, Precision, Low-Voltage Amplifier, DC to 2 kHz	CS3002-ISZ	SMC 102-3350●	2.40	1.64	1.22	– –	– –
3011CIR		8 / SOIC	Precision, Low-Voltage Amplifier, DC to 1 kHz.	CS3011-ISZ	SMC 102-3351●	1.79	1.33	1.29	– –	– –
3012CIR		8 / SOIC	Dual, Precision, Low-Voltage Amplifier, DC to 1 kHz	CS3012-ISZ	SMC 102-3352●	2.40	1.64	1.22	– –	– –
3310CIR		16 / SOIC	Stereo Digital Volume Control	CS3310-KSZ	SMC 102-3353●	6.74	5.34	4.42	– –	– –
3096INTS		16 / SOIC	NPN-PNP Ultra High Frequency 5 Transistor Array	HFA3096BZ	NEW SMC 156-2039●	2.76	2.08	1.66	1.38	1.19
4106MAX		8 / SOIC	350MHz, Ultra-Low-Noise Amp. for Pulse/RF applications	MAX4106ESA+	SMC 972-6446●	6.99	5.63	4.67	3.95	– –
6505NSC		8 / SOIC	VGA Wideband	LMH6505MA	SMC 128-6774●	4.63	2.97	2.42	2.20	2.06
6505NSC		8 / MSOP	Wideband, Low Power, Linear-in-dB, Variable Gain Amplifier	LMH6505MM	SMC 131-2602●	3.34	2.53	2.07	1.79	1.62
6514NSC		16 / LLP	Variable Gain Amplifier	LMH6514SQE	SMC 155-2443●	8.42	7.36	5.89	4.91	4.19
6910LT		8 / SOT-23	Digitally Controlled Programmable Gain Amplifier	LTC6910-1CTS8#TRMPBF	NEW SMC 166-3930●	2.27	1.76	1.41	1.17	1.06
6910LT		8 / SOT-23	Digitally Controlled Programmable Gain Amplifier	LTC6910-2CTS8#TRMPBF	NEW SMC 166-3931●	2.27	1.76	1.41	1.17	1.06
6911LT		10 / MSOP	Dual Op Amp, Prog Gain	LTC6911CMS-1#PBF	SMC 133-0973●	3.60	2.83	2.30	2.03	1.79
6911LT		10 / MSOP	Op Amp Prog Gain, Dual	LTC6911HMS-2#PBF	SMC 133-0977●	4.52	3.54	2.87	2.52	2.25
6912LT		16 / SSOP	Op Amp Prog Gain, Dual	LTC6912CGN-1#PBF	SMC 133-0978●	3.88	3.03	2.49	2.17	1.92
6912LT		16 / SSOP	Op Amp Prog Gain, Dual	LTC6912CGN-2#PBF	SMC 133-0979●	3.88	3.03	2.49	2.17	1.92
6912LT		16 / SSOP	Op Amp Prog Gain, Dual	LTC6912HGN-2#PBF	SMC 133-0981●	4.78	3.73	3.05	2.68	2.38
8037ADI		8 / DIP	Low Distortion, 240MHz bandwidth CIAmping Amp	AD8037ANZ	107-9416●	8.68	5.96	4.81	– –	– –
8304ADI		14 / TSSOP	160dB Logarithmic Amplifier with Photo-Diode Interface	AD8304ARUZ	NEW SMC 166-1040●	20.98	16.79	13.99	12.91	11.66
8307ADI		8 / SOIC	DC to 500 MHz 92dB Logarithmic Amplifier	AD8307ARZ	NEW SMC 166-1041●	10.84	8.67	7.22	6.66	6.01
8310ADI		8 / MSOP	DC-440 MHz Voltage Out 90 dB Logarithmic Amplifier	AD8310ARMZ	NEW SMC 166-1042●	8.16	6.71	5.49	5.04	4.19
8318ADI		16 / LFCSP	1MHz to 8GHzLogarithmic Detector/Controller	AD8318ACPZ-R2	SMC 107-8291●	6.99	5.70	5.00	– –	– –
8318ADI		16 / LFCSP	1MHz to 8GHzLogarithmic Detector/Controller	AD8318ACPZ-WP	SMC 107-8292●	6.99	5.70	5.00	– –	– –
8368ADI		24 / LFCSP	800 MHz, Linear-in-dB VGA With AGC Detector	AD8368ACPZ-WP	SMC 127-4220●	7.52	5.32	4.30	3.69	3.59
9001TI		6 / SOT-23	Amp, 50-350MHZ CASCADEABLE.	THS9001DBVT	SMC 845-3578●	1.36	1.04	0.77	– –	– –

MCP6S2X PGA Evaluation Board

MICROCHIP



The MCP6S2X PGA Evaluation Board features the MCP6S21/91 and MCP6S26 devices. The PGA devices interface to a PIC16F676 providing versatile selection of input channels and gains to evaluate device performance.

A prototype area is available for user circuit interfacing. The inputs, outputs and reference voltage traces of the PGAs conveniently pass near the prototype area for ease of connection. Test point connectors are available to interface with external circuits.

Features:

- Device gains from 1 to 32 V/V can be configured
- Reference voltage inputs of 0V, 2.5V and 5.0V
- SMD pads for adding SMD connectors
- Reprogrammable PIC16F676 with ICSP™ (In-Circuit Serial Programming) interface

494843

Mftrs. List No.	Description	Order Code	Price Each 1+
MCP6S2XEV	MCP6S2X PGA Evaluation Board	133-2155●	15.12

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Power Amplifiers

Bipolar and MOSFET Power Amplifiers



The HY series of Power Amplifier Modules are a versatile range of building blocks for constructing high quality audio amplifiers with a minimum of additional components. The HY200x range includes the latest technology incorporating anti-thump circuitry and modules with on-board PSU components.

These modular hybrid amplifiers have been designed using Bipolar or MOSFET (HY2006/7) technology to provide high fidelity performance. Encapsulation to an integral heatsink together with internal circuitry providing output stage protection make them extremely rugged, both electrically and mechanically, and therefore suitable for all audio applications. For loudspeaker protection the use of a quickblow fuse is recommended - please refer to the data sheet.

The modules only require a minimum of external connection, and should be mounted to allow a vertical flow of air through the heatsink fins. T slots in the heatsink facilitate mounting using the nuts and screws provided.

	HY2000	HY2001	HY2002	HY2003	HY2004	HY2005	HY2006	HY2007
Output Power into 4 ohms (rms)	40W	40W	75W	75W	150W	150W	240W	240W
Output Power into 8 ohms (rms)	40W	40W	75W	75W	150W	150W	240W	240W
Power supply voltage	±30Vd.c.	20V - 0 - 20Vd.c.	±40Vd.c.	28V - 0 - 28Vd.c.	±55Vd.c.	40V - 0 - 40Vd.c.	±60Vd.c.	±60Vd.c.
Loudspeaker fuse (Quick Blow) 4Ω	2A	2A	2.5A	2.5A	3.15A	3.15A	5A	5A
Loudspeaker fuse (Quick Blow) 8Ω	1.5A	1.5A	2A	2A	2.5A	2.5A	—	—
Module dimensions H x W (mm)	30 x 76	30 x 76	30 x 120	30 x 120	80 x 120	80 x 120	80 x 190	80 x 190
Frequency response	15Hz - 50kHz	15Hz - 50kHz	15Hz x 50kHz	15Hz - 50kHz	15Hz - 50kHz	15Hz - 50kHz	15Hz - 50kHz	15Hz - 70kHz
Total harmonic distortion @ 1KHz	>0.005%	>0.005%	>0.005%	>0.005%	>0.005%	>0.005%	>0.005%	>0.005%
Signal to noise ratio (DIN Audio)	100dB	100dB	100dB	100dB	100dB	100dB	100dB	100dB
Input impedance, Ω	100kohm	100kohm	100kohm	100kohm	100kohm	100kohm	100kohm	100kohm
Load impedance, Ω	4/8ohm	4/8ohm	4/8ohm	4/8ohm	4/8ohm	4/8ohm	4ohm	4ohm
Damping factor (8Ω @ 100Hz)	<400	<400	<400	<400	<400	<400	<400	<400

*Max. DC rails (8Ω load)

211038

The HY2000/1/2/3/4/5 series are switchable for 4 or 8 Ohm operation, the power supply requirements will change depending on this setting.
The modules HY2001, 2003, 2005, 2007 feature on-board rectifier and smoothing capacitors and therefore only require an AC source from a suitable transformer.
The modules HY2000/2002/2004/2006 require smoothing capacitors, rectifier and transformer.

		Price Each		
Mftrs. List No.	Order Code	1+	5+	10+
HY2000	121-1574●	16.15	13.95	12.06
HY2001	121-1577●	20.17	17.43	15.09
HY2002	121-1578●	20.17	17.43	15.09
HY2003	121-1579●	29.39	25.62	22.20
HY2004	121-1580●	47.02	40.98	35.51
HY2005	121-1581●	58.77	51.21	44.39
HY2006	121-1582●	82.26	71.72	62.14
HY2007	121-1583●	101.87	88.77	76.94

Analogue Multiplexers

211041

	Mftr.	Pins	Pkg	Description	rDS (on) Ω max.	Mftrs. List No.	Order Code	1+	10+	100+	250+	500+
1-Channel												
787	ADI	10	MSOP	CMOS Low Power Dual 2:1 Mux/Demux USB 1.1 Switch	-	ADG787BRMZ	SMD 111-7867●	1.860	1.490	1.150	1.090	1.020
4051	MAX	16	NSOIC	Low-Voltage, CMOS Analog Multiplexers/Switches	100	MAX4051AESE+	SMD 137-9961●	4.120	2.950	2.300	2.070	– –
817	ADI	8	DIP	Op Amp, Video, WBW		AD817ANZ	960-4006●	3.610	2.460	1.830	– –	– –
4544	MAX			Single Channel SPDT Analog Switch		MAX4544ESA+	NEW 161-0111●	0.970	0.800	0.660	0.550	0.520
2-Channel												
1675	LT	8	SOIC	250MHz, Triple and Single RGB Multiplexer with Amplifier		LT1675CS8-1#PBF	NEW SMD 166-3467●	3.890	2.930	2.340	1.950	1.750
4052	MAX			Dual Quad Channel CMOS Analogue Multiplexer		MAX4052ACEE+	NEW 161-0105●	3.000	2.460	2.020	1.710	1.580
8170	ADI	8	SOIC	2 Channel Buffered, 250MHz 10 ns Multiplexer w/Amplier		AD8170ARZ.	NEW SMD 165-1288●	3.820	2.980	2.440	2.230	1.920
8183	ADI	24	TSSOP	380 MHz, 25 mA, Triple 2:1 Multiplexer (G = +1) (IND TEMP)	-	AD8183ARUZ	SMD 942-6051●	3.160	2.310	1.930	– –	– –
8188	ADI	24	TSSOP	350 MHz Single-Supply (5 V) Triple 2:1 Multiplexer		AD8188ARUZ	SMD 149-8723●	3.670	2.660	2.160	– –	– –
9415	SLX	10	TSSOP	2.7V to 12V Dual 2 x 1 CMOS Analogue Multiplexer	-	DG9415DQ-T1-E3	SMD 110-2512●	1.280	1.120	0.930	0.840	0.720
3-Channel												
4053	MAX	16	NSOIC	Low-Voltage, CMOS Analog Multiplexers/Switches	100	MAX4053ACSE+	SMD 137-9785●	3.160	2.260	1.900	1.580	– –
4332	INTS	16	SOIC	Triple 2:1 300MHz Mux-Amp Gain of 2 Slew Rate 650V/microsec	30	EL4332CSZ	NEW SMD 156-1956●	6.360	4.950	4.040	3.430	3.180
59446	INTS	32	QFN	500MHz Triple 4:1 Gain-of-2, Multiplexing Amplifier	–	ISL59446IRZ	SMD 136-1007●	4.960	4.460	4.050	3.710	3.420
59448	INTS	24	QSOP	500MHz Triple 2:1 Gain-of-2, Multiplexing Amplifier	–	ISL59448IAZ	SMD 136-1008●	4.470	3.670	3.350	2.840	2.540
4-Channel												
3	INTS	16	PDIP	4-Channel Differential CMOS Analogue MUXs with Active Overvoltage Protection	1.5	HI3-0509A-5Z	NEW 156-2047●	4.350	3.270	2.620	2.170	1.860
24	ADI	16	DIP	4-Channel Double Pole JFET Analogue Multiplexer, over Voltage and Power supply loss protected.	400	MUX24FPZ	107-9378●	7.110	5.790	4.600	– –	– –
74	TI	16	SSOP	Dual 4-Channel Analog Multiplexer/Demultiplexer	100	SN74LV4052ADBR	SMD 123-6280● RL	0.450	0.300	0.220	0.185	0.177
74	TI	16	TSSOP	Dual 4-Channel Analog Multiplexer/Demultiplexer		SN74LV4052APWG4	123-6281●	0.640	0.450	0.310	0.270	0.260
100	TI	14	CDIP	Four Quadrant Multiplier/Divider		MPY100AG	NEW 156-4956●	73.040	60.260	53.560	43.830	37.070
309	MAX	16	NSOIC	Dual Four Channel CMOS Differential Analogue Multiplexer	100	MAX309CSE+	NEW SMD 160-6630●	5.140	4.120	3.750	3.440	2.870
350	MAX	20	SSOP	Dual 4-channel, seperately controlled Single-pole Single throw multi-plexer.	100	MAX350EAP+	SMD 118-7969●	7.640	5.210	4.280	– –	– –
409	ADI	16	SOIC	LC2MOS ±15 V 4 Channel High Performance Analog Multiplexer	40	ADG409BRZ	SMD 143-8942●	4.750	3.240	2.410	– –	– –
409	ADI	16	PDIP	LC2MOS ±15 V 4-Channel High Performance Analog Multiplexer		ADG409BNZ	143-8746●	4.890	3.330	2.480	– –	– –
409	INTS	16	DIP	4-Channel Double Pole CMOS AnaLogue Multiplexer	100	DG409DJZ	966-4084●	1.400	1.050	0.690	0.640	0.600
409	SLX	16	SOIC	4-Channel Double Pole CMOS Analogue Multiplexer	100	DG409DY-E3	SMD 107-7098●	2.060	1.350	1.130	0.720	0.700
409	INTS	16	SOIC	4-Channel Double Pole CMOS Analogue Multiplexer	100	DG409DYZ	SMD 966-3835●	1.490	0.990	0.650	– –	– –
409	SLX	16	SOIC	4Channel Double Pole CMOS Analogue Multiplexer	40	DG409LDY-E3	SMD 107-7100●	1.400	0.970	0.850	0.670	0.660
509	ADI	16	SOIC	CMOS 4 Channel Analog Multiplexers		ADG509FBRNZ	NEW SMD 166-1034●	6.550	5.390	4.400	4.040	3.370
509	ADI	16	DIP	4-Channel Double Pole CMOS AnaLogue Multiplexer	450	ADG509AKNZ	960-4944●	4.510	3.070	2.290	– –	– –
509	TI	28	DIP	4-Channel Double Pole CMOS AnaLogue Multiplexer. Over-Voltage protected and ESD resistant	1500	MPC509AP	121-4449●	4.740	3.230	2.610	– –	– –
509	TI	16	SOIC	Multiplexer, 4-Channel		MPC509AUG4	SMD 120-6921●	4.830	4.010	3.140	– –	– –
509	MAX	16	DIP	Monolithic CMOS Analog Multiplexer	130	DG509ACJ+	137-9794●	5.080	3.260	2.670	2.220	– –
509	MAX	16	SOIC	Monolithic CMOS Analog Multiplexers	130	DG509ACWE+	SMD 137-9795●	7.620	5.240	4.410	3.820	– –
509	MAX	16	SOIC	Monolithic CMOS Analog Multiplexers	130	DG509ADY+	SMD 137-9796●	5.860	4.020	3.420	2.950	– –
604	ADI	14	TSSOP	1pC Charge Injection, Low Leakage CMOS 4-Channel Multiplexer		ADG604YRUZ	SMD 143-8751●	3.670	2.510	1.870	– –	– –
609	ADI	16	PDIP	LC2MOS, ± 5 V, 4-Channel High Performance Analog Multiplexer	22	ADG609BNZ	143-8945●	3.730	3.040	2.440	– –	– –
609	ADI	16	SOIC	LC2MOS, ± 5 V, 4-Channel High Performance Analog Multiplexer	22	ADG609BRZ	SMD 143-8946●	4.660	3.180	2.370	– –	– –
659	ADI	16	TSSOP	3V/5V ± 5V CMOS 4 Channel Analog Multiplexer	45	ADG659YRUZ	SMD 143-8948●	2.030	1.380	1.030	– –	– –
704	ADI	10	MSOP	4-Channel Single Pole CMOS Analogue Multiplexer	35	ADG704BRMZ	SMD 942-5756●	2.190	1.490	1.110	– –	– –
709	ADI	16	TSSOP	Dual, CMOS, 3-Ohm Low Voltage, 4-Channel Multiplexer (IND TEMP)	5	ADG709BRUZ	SMD 960-4359●	3.060	2.100	1.570	– –	– –
729	ADI	16	TSSOP	Dual, CMOS, Low-Voltage, 2-Wire Serially-Controlled, 4 way Matrix Switch (IND TEMP)	2.5	ADG729BRUZ	SMD 107-9348●	2.590	2.110	1.680	– –	– –
739	ADI	16	TSSOP	Dual, CMOS, Low-Voltage, 3-Wire Serially-Controlled, 4 way Matrix Switch (IND TEMP)	2.5	ADG739BRUZ	SMD 158-1899●	2.840	2.310	1.860	– –	– –
774	ADI	16	SOIC	4-Channel Double Pole CMOS Analogue Multiplexer	8	ADG774BRZ	SMD 942-5799●	3.740	2.570	1.910	– –	– –
804	ADI	10	MSOP	1.65V to 3.6V 4-Channel CMOS Multiplexer	0.5	ADG804YRMZ	SMD 107-8225●	1.680	1.340	1.050	– –	– –

RL Re-reeling available

Analogue Multiplexers - continued

	Mftr.	Pins	Pkg	Description	rDS (on)	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
4-Channel												
1204	ADI	14	TSSOP	Low Capacitance, Low Charge Injection, Multiplexer	120	ADG1204YRUZ	SMD 111-7872	4.470	3.070	2.480	2.390	2.230
1209	ADI	16	SOIC	Low Capacitance, 4-Channel, ±15 V/+12 V iCMOS™ Multiplexer	120	ADG1209YRZ	SMD 143-8939	4.510	3.520	2.840	– –	– –
1308	ADI	16	TSSOP	4-Channel ±15 V/+12 V Multiplexer	130	ADG1308BRUZ	SMD 127-4179	3.320	2.360	1.930	1.820	1.720
1309	ADI	16	TSSOP	4-Channel ±15 V/+12 V Multiplexer	130	ADG1309BRUZ	SMD 127-4178	3.170	2.170	1.750	1.690	1.580
1409	ADI	16	TSSOP	4 - Channel ±15 V /12 V /±5 V Multiplexer	4	ADG1409YRUZ	SMD 143-8941	5.670	4.430	3.580	– –	– –
3194	FCH	14	SOIC	4:1 High Performance Multiplexer for High Speed Video Applications		FHP3194IM14X	SMD 149-5494	1.360	1.170	0.890	0.830	0.770
4314	INTS	14	SOIC	400MHz, 4x1 Video Crosspoint Switch		HA4314BCBZ	NEW SMD 156-2012	4.020	3.020	2.420	2.020	1.730
4052	MAX	16	NSOIC	Analogue Multiplexer/Switch	100	MAX4052ACSE+	NEW SMD 142-2313	3.160	2.380	1.970	1.740	1.530
4052	MAX	16	QSOP	Analogue Multiplexer/Switch	100	MAX4052EEE+	NEW SMD 142-2314	3.780	2.580	2.110	1.940	1.840
4524	MAX	10	TSSOP	4-Channel Single Pole CMOS AnaLogue Multiplexer. (TSSOP)	200	MAX4524CUB+	SMD 118-7936	2.800	1.910	1.570	– –	– –
4614	MAX			Quad Channel SPST NO CMOS Analog Switch		MAX4614CSD+	NEW 161-0112	1.460	1.190	0.970	0.830	0.770
4639	MAX	16	TSSOP	3.5Ω, Single 8:1 and Dual 4:1, Low-Voltage Analog Multiplexers	2.5	MAX4639EUE+	SMD 137-9780	3.270	2.360	1.970	1.650	– –
8184	ADI	14	SOIC	700 MHz, 5 mA 4-to-1 Video Multiplexer		AD8184ARZ	NEW SMD 166-1014	4.510	3.510	2.870	2.620	2.190
8-Channel												
3	INTS	16	DIP	8-Channel Single Pole CMOS Analogue Multiplexer	400	HI3-0508-5Z	966-3673	1.690	1.530	1.280	1.170	1.050
3	INTS	16	PDIP	Differential 8-Channel CMOS Analogue MUXs with Active Overvoltage Protection	1.5	HI3-0508A-5Z	NEW 156-1936	2.980	2.330	1.900	1.600	1.500
3	INTS	28	PDIP	8-Channel CMOS Analog MUXs with Active Overvoltage Protection	1.5	HI3-0507A-5Z	NEW 156-1950	13.810	10.750	8.800	7.440	6.900
8	ADI	16	PDIP	8-Channel JFET Analog Multiplexer (Overvoltage & Power Supply Loss Protected)		MUX08EPZ	143-8755	9.960	7.640	6.480	– –	– –
8	ADI	16	DIP	8-Channel Single Pole JFET Analogue Multiplexer, over Voltage and Power supply loss protected.	400	MUX08FPZ	107-9379	10.750	7.020	4.880	– –	– –
9	INTS	16	SOIC	8-Channel Differential CMOS Analogue Multiplexers		HI9P0508-5Z	NEW SMD 156-1986	2.820	2.130	1.700	1.420	1.210
74	TI	16	PDIP	8 Channel Analog Multiplexer/Demultiplexer	100	SN74LV4051AN	123-6279	0.560	0.390	0.300	0.240	0.220
308	MAX	16	SOIC	8-Channel Single Pole CMOS Analogue Multiplexer. (DG408 upgrade).	100	MAX308CSE+	SMD 972-4699	6.630	4.530	3.730	– –	– –
308	MAX	16	DIP	Precision, 8-Channel/Dual 4-Channel, High-Performance, CMOS Analog Multiplexer	100	MAX308CPE+	137-9903	6.660	4.280	3.420	2.930	– –
328	MAX	16	WSOIC	Single-Ended CMOS Analogue 8:1 Multiplexer/Demultiplexer	3500	MAX328CWE+	NEW SMD 160-6636	7.140	5.710	5.180	4.760	3.970
338	MAX	16	NSOIC	Precision, Dual, High-Speed Analog Switch	400	MAX338CSE+	SMD 137-9944	4.940	3.540	2.870	2.470	– –
354	MAX	16	WSOIC	Fault-Protected CMOS Analogue 8:1 Multiplexer/Demultiplexer	350	MAX354EWE+	NEW SMD 160-6639	6.840	5.480	4.980	4.560	3.800
358	MAX	16	WSOIC	Fault-Protected Analog Multiplexers	1500	MAX358CWE+	SMD 137-9956	9.650	6.210	5.140	3.810	– –
407	ADI	28	PLCC	LC2MOS 8 Channel, High Performance Analog Multiplexer		ADG407BPZ	NEW SMD 165-1287	8.750	7.790	6.360	5.840	5.000
407	INTS	28	SOIC	8-Channel Differential CMOS Analogue Multiplexer	100	DG407DYZ	NEW SMD 156-2043	5.770	4.320	3.460	2.880	2.470
407	ADI	28	DIP	8-Channel Double Pole CMOS Analogue Multiplexer	80	ADG407BNZ	107-9429	8.520	6.540	5.540	– –	– –
407	SLX	28	DIP	8-Channel Double Pole CMOS Analogue Multiplexer	100	DG407DJ	107-7079	3.890	2.780	2.210	1.610	1.540
408	ADI	16	DIP	8-Channel Single Pole CMOS Analogue Multiplexer	100	ADG408BNZ	960-5584	4.890	3.330	2.480	– –	– –
408	SLX	16	DIP	8-Channel Single Pole CMOS Analogue Multiplexer	100	DG408DJ-E3	107-7111	2.590	1.680	1.400	0.980	0.940
408	INTS	16	DIP	8-Channel Single Pole CMOS Analogue Multiplexer	100	DG408DJZ	966-3517	1.430	1.050	0.690	– –	– –
408	SLX	16	SOIC	8-Channel Single Pole CMOS Analogue Multiplexer	100	DG408DY	SMD 107-7070	4.880	3.550	2.930	1.050	0.910
408	INTS	16	SOIC	8-Channel Single Pole CMOS Analogue Multiplexer.	100	DG408DYZ	SMD 966-3827	0.910	0.820	0.730	– –	– –
408	SLX	16	SOIC	8-Channel Single Pole CMOS Analogue Multiplexer.	40	DG408LDY-E3	SMD 107-7099	1.400	0.970	0.850	0.670	0.660
428	ADI	18	DIP	8-Channel Single Pole CMOS Analogue Multiplexer	100	ADG428BNZ	107-9430	5.970	4.070	3.280	– –	– –
507	TI	28	PDIP	8 Channel Differential Input Analog Multiplexer		MPC507AP.	NEW 164-8762	6.960	6.010	5.220	4.710	4.590
507	ADI	28	PLCC	CMOS ± 15 V 8-Channel Analog Multiplexer		ADG507AKPZ	SMD 143-8747	9.630	7.380	6.260	– –	– –
507	ADI	28	SOIC	CMOS ± 15 V 8-Channel Analog Multiplexer		ADG507AKRZ	SMD 143-8749	8.320	6.380	5.410	– –	– –
507	ADI	28	DIP	8-Channel Double Pole CMOS Analogue Multiplexer	450	ADG507AKNZ	960-4960	8.560	6.560	5.560	5.330	– –
507	TI	28	SOIC	8-Channel Differential-Input Analog Multiplexer	1.5	MPC507AUG4	SMD 123-4707	8.860	7.350	5.920	5.320	4.800
508	ADI	16	DIP	8-Channel Single Pole CMOS Analogue Multiplexer	450	ADG508AKNZ	960-4979	4.740	3.230	2.610	– –	– –
508	ADI	16	DIP	8-Channel Single Pole CMOS Analogue Multiplexer	250	ADG508FBNZ	107-9419	6.240	4.250	3.430	– –	– –
528	ADI	18	DIP	8-Channel Single Pole CMOS Analogue Latchable Multiplexer	450	ADG528AKNZ	158-1901	6.530	4.620	3.730	– –	– –
538	SLX	28	DIP	8-Channel/Dual 4-Channel Wideband/Video Multiplexer. 500MHz.	90	DG538ADJ-E3	107-7129	7.690	5.610	4.410	3.640	3.090
608	ADI	16	PDIP	LC2MOS ± 5V 8-Channel High Performance Analog Multiplexer.		ADG608BNZ	143-8752	4.770	3.280	2.440	– –	– –
608	ADI	16	SOIC	LC2MOS ± 5V 8-Channel High Performance Analog Multiplexer.	22	ADG608BRZ	SMD 143-8944	4.660	3.180	2.370	– –	– –
658	ADI	16	TSSOP	3V/5V ± 5V CMOS 8 Channel Analog Multiplexer	45	ADG658YRUZ	SMD 143-8947	2.030	1.380	1.030	– –	– –
707	ADI	28	TSSOP	Dual, CMOS, 2.5ohm Low-Voltage, 8-Channel Multiplexer (IND TEMP)	0.3	ADG707BRUZ	SMD 107-9346	5.620	3.830	3.090	– –	– –
708	ADI	16	TSSOP	CMOS, 3-Ohm Low Voltage, 8-Channel Multiplexer (IND TEMP)	5	ADG708BRUZ	SMD 960-4340	3.060	2.100	1.570	– –	– –
728	ADI	16	TSSOP	CMOS, Low-Voltage, 2-Wire Serially-Controlled, 8 way mAtrix Switch (IND TEMP)	2.5	ADG728BRUZ	SMD 960-4383	3.270	2.610	2.000	– –	– –
738	ADI	16	TSSOP	CMOS, Low-Voltage, 3-Wire Serially-Controlled, 8 way mAtrix Switch (IND TEMP)	2.5	ADG738BRUZ	SMD 960-4391	3.940	2.690	2.000	– –	– –
1207	ADI	28	TSSOP	Low Capacitance, 8 - Channel ±15 V/12 V iCMOS™ Multiplexer	120	ADG1207YRUZ	SMD 143-8937	7.900	6.060	5.140	– –	– –
1208	ADI	16	SOIC	Low Capacitance, 8-Channel, ±15 V/+12 V iCMOS™ Multiplexer	120	ADG1208YRZ	SMD 143-8938	4.510	3.520	2.840	– –	– –
1380	LT	16	SOIC	Single-Ended 8-Channel Analog Multiplexer with SMBus Interface	35	LTC1380CS#PBF	SMD 141-7732	5.480	3.160	2.580	– –	– –
1380	LT	16	SOIC	Single-Ended 8-Channel Analog Multiplexer with SMBus Interface	35	LTC1380IS#PBF	SMD 141-7734	6.130	3.550	2.880	– –	– –
1391	LT	16	SSOP	8-Channel Analogue Multiplxer With Cascadable Serial Interface	45	LTC1391CGN#PBF	SMD 113-6627	4.520	2.950	2.260	– –	– –
1391	LT	16	SSOP	8-Channel Analogue Multiplxer With Cascadable Serial Interface (IND TEMP)	45	LTC1391IGN#PBF	SMD 956-1110	3.750	2.370	2.130	– –	– –
1408	ADI	16	TSSOP	8 - Channel ±15 V /12 V /±5 V Multiplexer	4	ADG1408YRUZ	SMD 143-8940	5.670	4.430	3.580	– –	– –
4051	MAX	16	SOIC	8-Channel Single Pole CMOS Analogue Multiplexer	125	MAX4051CSE+	SMD 118-7953	1.750	1.410	1.370	– –	– –
4051	MAX	16	NSOIC	Analogue Multiplexer/Switch	100	MAX4051ACSE+	NEW SMD 142-2311	3.610	2.320	1.920	1.420	1.380
4051	MAX	16	QSOP	Analogue Multiplexer/Switch	100	MAX4051AEEE+	NEW SMD 142-2312	5.010	4.220	3.680	3.200	2.880
7503	ADI	16	PDIP	CMOS 8-Channel Analog Multiplexer.		AD7503JNZ	143-8640	10.190	8.120	6.890	– –	– –
7503	ADI	16	PDIP	CMOS 8-Channel Analog Multiplexer.		AD7503KNZ	143-8641	10.690	8.510	7.230	– –	– –
14752	MAX	16	TSSOP	8-Channel 72V Analog Multiplexer		MAX14752EUE+	NEW SMD 167-3091	5.090	3.640	2.830	2.550	2.310
14753	MAX	16	TSSOP	Dual 4-Channel 72V Analog Multiplexer		MAX14753EUE+	NEW SMD 167-3092	5.090	3.640	2.830	2.550	2.310
84051	INTS	16	SOIC	8:1 Channel Multiplexer	60	ISL84051IBZ	NEW SMD 156-2021	1.220	0.910	0.730	0.610	0.530
10-Channel												
116	TI	20	TSSOP	Zero-Drift, Programmable Gain Amplifier with MUX 10Ch.		PGA116AIPW	NEW SMD 168-4750	4.010	3.120	2.550	2.160	2.000
117	TI	20	TSSOP	Zero-Drift, Programmable Gain Amplifier with MUX 10Ch.		PGA117AIPW	NEW SMD 168-4751	4.010	3.120	2.550	2.160	2.000
16-Channel												
3	INTS	28	PDIP	16-Channel CMOS Analog MUXs with Active Overvoltage Protection	1.5	HI3-0506A-5Z	NEW 156-1949	9.880	7.690	6.280	5.310	4.940
306	MAX	28	SOIC	Precision, 16-Channel/Dual 8-Channel, High-Performance, CMOS Analog Multiplexers	100	MAX306EWI+	SMD 137-9890	14.790	10.620	8.570	7.430	– –
307	MAX	28	SOIC	Precision, 16-Channel/Dual 8-Channel, High-Performance, CMOS Analog Multiplexers	100	MAX307CWI+	SMD 137-9788	14.160	9.110	7.050	6.230	– –
307	MAX	28	SOIC	Precision, 16-Channel/Dual 8-Channel, High-Performance, CMOS Analog Multiplexers	100	MAX307EWI+	SMD 137-9893	14.790	10.620	8.570	7.430	– –
396	MAX	28	SSOP	Precision, 16-Channel/Dual 8-Channel, Low-Voltage, CMOS Analog Multiplexers	60	MAX396CAI+	SMD 137-9958	14.120	9.080	7.030	6.200	– –
396	MAX	28	SOIC	Precision, 16-Channel/Dual 8-Channel, Low-Voltage, CMOS Analog Multiplexers	60	MAX396CWI+	SMD 137-9959	12.510	8.530	7.000	6.280	– –
406	INTS	28	PDIP	Single 16-Channel CMOS Analogue Multiplexer.	100	DG406DJZ	NEW 156-1940	3.160	2.470	2.020	1.710	1.590
406	INTS	28	SOIC	16-Channel Single Pole CMOS Analogue Multiplexer.	100	DG406DYZ	SMD 966-3819	5.020	3.340	2.130	– –	– –
406	ADI	28	DIP	16-Channel Single Pole CMOS Analogue Multiplexer.	80	ADG406BNZ	960-5576	7.820	6.000	5.090	– –	– –

RL Re-reeling available

	Mftr.	Pins	Pkg	Description	rDS (on)	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
16-Channel												
406	SLX	28	DIP	16-Channel Single Pole CMOS Analogue Multiplexer	100	DG406DJ	107-7078●	7.500	4.880	3.880	2.940	2.280
506	ADI	28	DIP	16-Channel Single Pole CMOS Analogue Multiplexer	450	ADG506AKNZ	960-4987●	8.560	6.570	5.570	5.560	– –
506	TI	28	DIP	16-Channel Single-Ended Input Analog Multiplexer	1500	MPC506AP	141-7416●	9.360	8.260	5.620	– –	– –
508	ADI	16	SOIC	CMOS 8 Channel Analog Multiplexer		ADG508AKRZ	NEW SMD 166-1033●	4.450	3.460	2.830	2.590	2.160
508	TI	16	SOIC	Multiplexer, 16-Channel		MPC508AUG4	SMD 120-6920●	3.960	3.280	2.580	– –	– –
526	ADI	28	DIP	16-Channel Single Pole CMOS Analogue Latchable Multiplexer	450	ADG526AKNZ	107-9380●	9.370	7.180	6.090	– –	– –
535	SLX	28	DIP	16-Channel Wideband/Video Multiplexer, 200MHz	90	DG535DJ-E3	107-7112●	9.830	6.290	5.000	3.790	3.690
706	ADI	28	TSSOP	CMOS, 2.5ohm Low-Voltage,16-Channel Multiplexer (IND TEMP)	0.3	ADG706BRUZ	SMD 960-4332●	5.550	3.830	3.090	– –	– –
726	ADI	48	TQFP	16-Channel, Serially Controlled 3.5 Ohm 1.8 V to 5.5 V, ±2.5 V, Analog Multiplexer		ADG726BSUZ	SMD 143-8753●	8.260	6.340	5.380	– –	– –
1206	ADI	28	TSSOP	Low Capacitance, 16 - Channel ±15 V/12 V iCMOS™ Multiplexer	120	ADG1206YRUZ	SMD 143-8936●	7.840	6.060	5.140	– –	– –
7506	ADI	28	PDIP	CMOS 16-Channel Analog Multiplexer		AD7506KNZ	143-8642●	17.620	14.550	12.930	– –	– –
32-Channel												
732	ADI	48	TQFP	32-Channel, Serially Controlled 3.5 Ohm 1.8 V to 5.5 V, ±2.5 V, Analog Multiplexer		ADG732BSUZ	SMD 143-8754●	8.260	6.340	5.380	– –	– –

Analogue Multipliers

211037

	Mftr.	Pins	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
532	ADI	14 / DIP	Four Quadrant Multiplier. Accuracy 1%, Internally Trimmed, total error ±1%,Output Offset ±40mV	AD532JD	318-2113▲	27.03	23.78	20.59
534	ADI	14 / DIP	Four Quadrant Multiplier. Accuracy 0.25%, Internally Trimmed, total error ±1%,Output Offset ±30n	AD534JD	318-2137▲	33.21	27.64	23.71
534	ADI	10 / TO-100	4-Quad Analogue Multiplier. Accuracy 1% mAx. Scale factor 10 trimmAble to 3...	AD534JH	402-655▲	26.97	20.91	16.80
534	ADI	14 / DIP	Four Quadrant Multiplier. Accuracy 0.25%, Internally Trimmed, total error ±0.5%, Output Offset ±1	AD534KD	318-2149▲	43.08	34.25	30.42
534	ADI	14 / DIP	Four Quadrant Multiplier. Accuracy 0.25%, Internally Trimmed, total error ±0.25%, Output Offset ±	AD534LD	318-2150▲	88.85	74.10	58.24
538	ADI	18 / DIP	Real Time Computational Circuit providing accurate anaLogue multiplication, division and exponentiation. Accuracy 1% mAx.	AD538AD	402-667▲	39.67	28.36	19.22
633	ADI	8 / PDIP	Four-Quadrant Analog Multiplier, Accuracy 2% max	AD633ANZ	143-8410●	7.11	4.85	3.91
633	ADI	8 / DIP	4-Quad AnaLogue Multiplier. Accuracy 2% Max., 1MHz smAll signal bandwidth...	AD633JNZ	960-4995●	7.11	4.85	3.91
633	ADI	8 / SOIC	4-Quad Analogue Multiplier, Accuracy 2% Max., 1MHz smAll signal bandwidth	AD633JRZ	SMD 942-6221●	6.97	4.85	3.91
634	TI	14 / DIP	10MHz Precision Analogue Multiplier	MPY634KP	NEW 156-4887●	23.74	19.60	17.43
634	BB	14 / DIP	Wide Bandwidth (10MHz typ.), 4-Quad AnaLogue Multiplier. Accuracy 2%	MPY634KP..	109-7540	18.06	15.97	10.86
634	TI	16 / SOIC	Wide Bandwidth Precision Analog Multiplier	MPY634KUE4	SMD 120-6922●	21.89	17.65	13.92
734	ADI	14 / DIP	4-Quad Analogue Multiplier. Accuracy 0.4% Max., 10MHz bandwidth (upgraded AD534)	AD734ANZ	960-3573●	18.04	14.34	12.73
734	ADI	14 / DIP	4-Quad Analogue Multiplier. Accuracy 0.25% Max., 10MHz bandwidth (upgraded AD534)	AD734BNZ	960-3581●	30.50	24.25	21.54
734	ADI	14 / DIP	4-Quad Analogue Multiplier. Accuracy 0.25% Max., 10MHz bandwidth (upgraded AD534)	AD734BQ	102-155▲	32.73	28.38	25.03
734	ADI	14 / DIP	4-Quad AnaLogue Multiplier. Accuracy 0.4% mAx., 10MHz bandwidth (upgraded AD534) Ceramic Package	AD734AQ	402-709▲	20.26	17.35	15.37
835	ADI	8 / SOIC	250 MHz Voltage Output 4-Quadrant Multiplier	AD835ARZ	NEW SMD 166-1049●	16.53	13.22	11.02
835	ADI	8 / DIP	4-Quad Voltage Output Multiplier. 250MHz -3dB bandwidth	AD835ANZ	107-9407●	14.16	10.86	9.21
54200	INTS	10 / TDFN	USB 2.0 High/Full Speed Multiplexer	ISL54200IRZ	SMD 136-0992●	1.26	1.08	0.97

Analogue Switches

211042/410976

	Mftr.	Pins	Pkg	Description	rDS (on) Ω max.	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
Single												
5	TI	6	SOT-23	1-Ohm SPDT Analog Switch		TS5A3159DBVR	NEW SMD 105-3238● RL	0.430	0.270	0.230	– –	– –
5	TI	10	MSOP	1-Ohm Dual SPDT Analogue Switch 2:1 Multiplexer/Demultiplexer	1.1	TS5A23159DGST	NEW SMD 156-4921●	0.850	0.700	0.620	0.520	0.450
5	TI	6	SC70	10hm SPDT Analog Switch.		TS5A3159DCKR.	NEW SMD 164-8763●	0.197	0.177	0.157	0.137	0.117
5	TI	6	SOT-23	1-Ohm SPDT Analog Switch		TS5A3159DBVRE4	SMD 105-3237●	0.280	0.181	0.153	– –	– –
5	TI	6	SOT-23	1-Ohm SPDT Analog Switch	1.5	TS5A3159DBVTE4	SMD 105-3235●	0.570	0.370	0.300	– –	– –
5	TI	6	SC-70	1-Ohm SPDT Analog Switch	1.5	TS5A3159DCKT	SMD 105-3232●	0.570	0.370	0.300	– –	– –
5	TI	6	SC-70	1-Ohm SPDT Analog Switch	1.5	TS5A3159DCKTE4	SMD 105-3230●	0.570	0.370	0.300	– –	– –
65	TI	48	QFN	4 x 4 LVDS Crosspoint Switch		SN65LVCP404RGZRG4	SMD 144-7483●	16.750	13.370	11.180	9.570	8.930
66	FCH	5	SOT-23	Low Voltage UHS Single SPST NormAlly Open Analogue Switch	60	FSA66M5	SMD 110-2145●	0.360	0.240	0.200	– –	– –
66	FCH	5	SC-70	Low Voltage UHS Single SPST NormAlly Open Analogue Switch	60	FSA66P5	SMD 110-2146●	0.360	0.240	0.200	– –	– –
74	TI	5	SC-70	Single Bilateral Analog Switch	10	SN74AUC1G66DCKR	SMD 123-6206● RL	0.194	0.127	0.103	0.088	0.071
319	MAX	8	PDIP	CMOS SPDT 1 N/O & 1 N/C Analogue Switch	35	MAX319CPA+	NEW 160-6634●	2.460	1.970	1.790	1.650	1.370
319	MAX	8	SOIC	Precision, SPST, CMOS Analog Switches	35	MAX319CSA+	SMD 137-9912●	4.230	2.720	2.180	1.860	– –
319	MAX	8	SOIC	Precision, SPST, CMOS Analog Switches	35	MAX319ESA+	SMD 137-9913●	4.910	3.160	2.080	1.780	– –
325	MAX	8	SOIC	Precision, Single-Supply, SPST Analog Switches	60	MAX325CSA+	SMD 137-9935●	2.690	1.860	1.480	1.290	– –
417	SLX	8	DIP	Precision SPST CMOS Analogue Switch	35	DG417DJ-E3	107-7113●	2.190	1.520	1.390	1.030	0.850
417	SLX	8	SOIC	Precision SPST Low Voltage CMOS Analogue Switch	20	DG417LDY-E3	SMD 107-7104●	1.520	1.030	0.920	0.840	0.760
418	SLX	8	DIP	Precision SPST CMOS Analogue Switch	35	DG418DJ-E3	107-7114●	2.130	1.350	1.060	0.970	0.840
418	SLX	8	SOIC	Precision SPST Low Voltage CMOS Analogue Switch	20	DG418LDY-E3	SMD 107-7105●	1.380	0.940	0.840	0.770	0.690
419	ADI	8	MSOP	Single LC2MOS Precision Analog Switch SPDT		ADG419BRMZ	NEW SMD 166-1023●	2.090	1.610	1.320	1.220	1.010
419	ADI	8	SOIC	Single LC2MOS Precision Analog Switch SPDT		ADG419BRZ	NEW SMD 166-1025●	2.090	1.610	1.320	1.220	1.010
419	MAX	8	NSOIC	Improved, SPST/SPDT Analog Switches	20	DG419CY+	SMD 137-9792●	3.850	2.470	1.980	1.690	– –
419	SLX	8	DIP	Precision SPDT CMOS Analogue Switch	35	DG419DJ-E3	107-7115●	3.460	3.130	2.970	2.430	2.280
419	SLX	8	SOIC	Precision SPDT CMOS Analogue Switch	35	DG419DY	SMD 107-7069●	2.970	2.030	1.510	1.220	1.100
419	SLX	8	SOIC	Single DPST Low Voltage CMOS Analogue Switch	20	DG419LDY-E3	SMD 107-7106●	1.520	1.030	0.920	0.840	0.760
447	SLX	6	TSOP	Low Power, High Voltage SPST Analogue Switch	17	DG447DV-T1-E3	SMD 141-4088●	0.980	0.650	0.560	0.490	0.390
448	SLX	6	TSOP	Low Power, High Voltage SPST Analogue Switch	17	DG448DV-T1-E3	SMD 141-4089●	0.980	0.650	0.560	0.490	0.390
449	SLX	8	SOT-23	High Voltage Single SPST Analogue Switch	38	DG449DS-T1-E3	SMD 141-4090●	1.150	0.770	0.660	0.580	0.460
467	SLX	6	TSOP	Low Power, High Voltage SPST Analogue Switch	7	DG467DV-T1-E3	SMD 141-4105●	0.810	0.540	0.460	0.400	0.330
468	SLX	6	TSOP	Low Power, High Voltage SPST Analogue Switch	7	DG468DV-T1-E3	SMD 141-4106●	1.400	0.940	0.800	0.700	0.560
506	ADI	28	SOIC	16 Channel Multiplexer		ADG506AKRZ	NEW SMD 166-1032●	10.500	8.640	7.060	6.480	5.390
601	ADI	6	SOT-23	2R CMOS ±5 V/+5 V SPST Switch		ADG601BRTZ-REEL7	NEW SMD 166-1035●	1.560	1.210	0.990	0.910	0.740
642	SLX	8	DIP	Precision SPDT CMOS Analogue Switch	8	DG642DJ	107-7080●	3.880	2.280	1.740	1.180	0.970
701	ADI	8	MSOP	Low Voltage SPST CMOS Analogue Switch	3	ADG701BRMZ	SMD 107-9296●	1.130	0.860	0.620	– –	– –
701	ADI	8	MSOP	MOS Low Voltage 2 Ohm SPST NC Switch		ADG701LBRMZ	SMD 149-8697●	1.320	0.960	0.760	– –	– –
702	ADI	8	MSOP	MOS Low Voltage 2 Ohm SPST NO Switch		ADG702LBRMZ	SMD 149-8698●	1.320	0.960	0.760	– –	– –
702	ADI	8	MSOP	Low Voltage SPST CMOS Analogue Switch	3	ADG702BRMZ	SMD 107-9297●	1.170	0.940	0.730	– –	– –
719	ADI	8	MSOP	Low Voltage SPDT CMOS Analogue Switch	5	ADG719BRMZ	SMD 942-5578●	1.730	1.180	0.850	– –	– –
719	ADI	6	SOT-23	Spdt/Mux,2:1		ADG719BRTZ-500RL7	SMD 133-3248●	1.340	1.060	0.850	0.800	0.730
901	ADI	8	MSOP	Wideband, 43 dB Isolation @ 1 GHz, CMOS 1.65 V to 2.75 V, Absorptive Switch		ADG901BRMZ	SMD 134-6344●	2.390	1.630	1.210	1.150	1.070
902	ADI	8	MSOP	Wideband, 43 dB Isolation @ 1 GHz, CMOS 1.65 V to 2.75 V, Absorptive/Reflective Switch		ADG902BRMZ	SMD 134-6345●	2.390	1.630	1.210	1.150	1.070
918	ADI	8	MSOP	Wideband, 43 dB Isolation @ 1 GHz, CMOS 1.65 V to 2.75 V, 2:1 Mux/SPDT Switch		ADG918BRMZ	SMD 134-6346●	2.500	1.710	1.270	1.210	1.130

RL Re-reeling available

Analogue Switches - continued

	Mftr.	Pins	Pkg	Description	rDS (on) Ω max.	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
Single												
919	ADI	8	MSOP	Wideband, 43 dB Isolation @ 1 GHz, CMOS 1.65 V to 2.75 V, 2:1 Mux/SPDT Switch		ADG919BRMZ	SMD 134-6347●	2.500	1.710	1.270	1.210	1.130
936	ADI	20	TSSOP	Dual SPDT Switch, Wideband 36dB at 1GHz, CMOS 1.65V to 2.75V		ADG936BRUZ	SMD 107-8223●	3.580	2.430	1.810	– –	– –
1156	FCH	6	SC-70	Low Ron Low Voltage SPST Analogue Switch	0.75	FSA1156P6	SMD 110-2143●	0.580	0.460	0.380	– –	– –
1157	FCH	6	SC-70	Low RON Low Voltage SPST Analog Switch	0.9	FSA1157P6	SMD 124-1889●	0.570	0.490	0.420	0.360	0.340
2011	SLX	6	SC-89	Low-Voltage, Low Ron, Single SPDT Analogue Switch	1.8	DG2011DXA-T1-E3	SMD 115-5826●	0.610	0.540	0.440	0.400	0.340
2012	SLX	6	SC-70	Low-Voltage Single SPDT Analogue Switch	1	DG2012DL-T1-E3	SMD 110-2492●	0.490	0.450	0.360	0.340	0.300
2020	SLX	6	TSOP	Low Voltage Asymmetrical SPDT CMOS Analogue Switch	20	DG2020DV-T1-E3	SMD 107-7110●	1.050	0.730	0.640	0.580	0.540
2380	FCH	14	TSSOP	Low Ron (0.75 Ohm) DP3T Negative Swing Audio Source Switch		FSA2380MTC	SMD 149-5461●	0.850	0.620	0.580	0.490	0.470
3313	IR	5	TO-263 (D2-Pak)	Programmable Current Sense High Side Switch	7	IR3313SPBF	SMD 149-8179●	3.030	2.420	2.020	1.730	1.610
3314	IR	5	TO-263 (D2-Pak)	Programmable Current Sense High Side Switch	12	IR3314SPBF	SMD 149-8180●	3.170	2.360	1.950	1.710	1.590
3315	IR	5	TO-263 (D2-Pak)	Programmable Current Sense High Side Switch	20	IR3315SPBF	SMD 149-8181●	2.730	2.020	1.670	1.460	1.380
3357	FCH	8	US8	SP3T Analogue Switch 3:1 Multiplexer/Demultiplexer	9	FSA3357K8X	NEW SMD 156-4492●	0.600	0.500	0.440	0.360	0.310
4157	FCH	6	SC70	Single 1.15Ω SPDT Analogue Switch	1.15	FSA4157P6X	NEW SMD 156-4491●	0.280	0.230	0.198	0.165	0.143
4157	FCH	6	SC-70	1 Ohm Low Voltage SPDT Analog Switch	1.15	FSA4157AP6	SMD 122-8241●	0.900	0.620	0.440	– –	– –
4157	FCH	6	SC-70	Low Ron Low Voltage SPST Analogue Switch	0.75	FSA4157P6	SMD 110-2144●	0.650	0.500	0.420	– –	– –
4159	FCH	6	SC-70	Low Voltage, 1 Ohm, SPDT Analog Switch with Power-Off Isolation		FSA4159P6X	SMD 149-5462●	0.360	0.260	0.230	0.210	0.194
4659	MAX	8	MSOP	High-Current, 25Ω, SPDT, CMOS Analog Switches	18	MAX4659EUA+	SMD 137-9738●	3.250	2.260	1.770	1.570	– –
5043	MAX	16	DIP	SPST, Normally Open, CMOS Analog Switch		IH5043CPE+	137-9844●	6.330	4.070	2.740	2.290	– –
5157	FCH	6	SC-70	0.4 Ohm Low Voltage SPDT Analog Switch	0.4	FSA5157P6X	SMD 122-8242●	0.660	0.420	0.280	– –	– –
6818	MAX	20	SSOP	±15kV ESD-Protected, Single/Dual/Octal, CMOS Switch Debouncers		MAX6818EAP+	SMD 138-0016●	6.640	4.520	4.080	2.880	– –
9411	SLX	6	SC-70	Low-Voltage Single SPDT Analogue Switch	7	DG9411DL-T1-E3	SMD 110-2511●	0.660	0.600	0.470	0.440	0.370
9431	SLX	8	SOIC	Low-Voltage Single SPDT Analogue Switch	20	DG9431DY-T1-E3	SMD 110-2514●	0.730	0.650	0.530	0.450	0.400
9461	SLX	8	SOIC	Low-Voltage Single SPDT Analogue Switch	40	DG9461DY-T1-E3	SMD 110-2516●	0.460	0.410	0.340	0.280	0.270
84544	INTS	8	SOIC	Low Voltage, Single Supply, SPDT CMOS Analogue Switch	30	ISL84544IBZ	SMD 966-4025●	0.790	0.700	0.570	– –	– –
Dual												
3	INTS	16	PDIP	Dual SPDT CMOS Analogue Switches	50	HI3-5043-5Z	NEW 156-1983●	4.670	3.740	2.990	2.490	2.140
5	TI	10	MSOP	0.9-Ohm Dual SPDT Analog Switch 5-V/3.3-V 2-Channel 2:1 Multiplexer/Demultiplexer	0.9	TS5A23160DGSTG4	SMD 149-4944●	0.720	0.590	0.480	0.360	0.340
5	TI	8	VSSOP	0.9-Ohm Dual SPST Analog Switch 5-V/3.3-V 2-Channel AnaLog Switch		TS5A23166DCURE4	SMD 105-3239●	0.490	0.340	0.260	– –	– –
9	INTS	14	SOIC	Dual SPDT CMOS Analogue Switch	35	HI9P0303-9Z	NEW SMD 156-1985●	9.290	6.970	5.580	4.640	3.990
25	NSC	16	LLP	3.125 Gbps 2X2 LVDS Crosspoint Switch		DS25CP102TSQ/NOPB	NEW SMD 168-5353●	11.530	8.970	7.330	6.730	6.020
90	NSC	32	LQFP	1.5Gbps 2x2 LVDS Crosspoint Switch		SCAN90CP02VY/NOPB	NEW SMD 168-5753●	5.870	4.830	3.950	3.620	3.250
303	MAX	16	NSOIC	Precision, Dual, High-Speed Analog Switch	35	MAX303ESE+	SMD 137-9889●	10.840	6.970	5.290	3.920	– –
303	SLX	14	DIP	CMOS Dual Analogue Switch	30	DG303BDJ-E3	110-2500●	1.580	1.410	1.160	0.970	0.850
303	SLX	14	SOIC	CMOS Dual Analogue Switch	30	DG303BDY-E3	SMD 110-2501●	1.600	1.430	1.180	0.990	0.880
323	MAX	8	DIP	Dual SPST CMOS AnaLogue Switch	60	MAX323CPA+	118-8038●	2.650	1.700	1.150	0.960	0.840
325	MAX	8	DIP	Dual SPST CMOS AnaLogue Switch	60	MAX325CPA+	118-8039●	2.900	2.610	2.340	2.110	1.430
403	MAX	16	NSOIC	Improved, Dual, High-Speed Analog Switch	20	DG403CY+	SMD 137-9790●	8.790	6.070	4.790	4.230	– –
403	SLX	16	DIP	Dual SPDT CMOS Analogue Switch	45	DG403DJ-E3	107-7116●	2.640	1.700	1.380	1.140	1.030
403	INTS	16	SOIC	Dual SPDT CMOS Analogue Switch	45	DG403DYZ	SMD 966-3800●	0.880	0.680	0.440	– –	– –
412	MAX	16	TSSOP	Improved, Quad, SPST Analog Switches	17	DG412CUE+	SMD 137-9791●	6.700	4.640	3.650	3.230	– –
542	SLX	16	DIP	Dual Monolithic SPDT Wideband/Video Switch, 500MHz	60	DG542DJ-E3	107-7117●	3.610	2.330	1.850	1.660	1.490
722	ADI	8	MSOP	Dual, SPST CMOS Analogue Switch (switch normAlly closed)	40	ADG722BRMZ	SMD 942-5772●	1.430	1.090	0.800	– –	– –
736	ADI	10	MSOP	Dual SPDT Switch CMOS Low Voltage 2.5 Ohm		ADG736LBRMZ	SMD 149-8699●	1.890	1.380	1.080	– –	– –
736	ADI	8	SOIC	RMS to DC Converter		AD736JRZ	SMD 960-5177●	7.220	4.920	3.970	– –	– –
736	ADI	10	MSOP	Dual, SPDT CMOS Analogue Switch	35	ADG736BRMZ	SMD 942-5780●	2.070	1.410	1.050	– –	– –
736	ADI	10	MSOP	Dual SPDT Switch CMOS Low Voltage 2.5 Ohm		ADG736LBRMZ	SMD 149-8699●	1.890	1.380	1.080	– –	– –
821	ADI	8	MSOP	Below 1R, Low Voltage Dual SPST Switches - N/O		ADG821BRMZ	NEW SMD 166-1039●	2.090	1.610	1.320	1.220	1.010
884	ADI	10	MSOP	0.5 ohm CMOS Dual 2:1 MUX/SPDT Audio Switch	0.34	ADG884BRMZ	SMD 107-8224●	1.850	1.470	1.130	– –	– –
888	ADI	16	TSSOP	0.4R CMOS, Dual DPDT Switch	0.4	ADG888YRUZ	SMD 111-7866●	3.090	2.710	2.010	1.910	1.780
936	ADI	20	LFCSP	Dual SPDT Switch, Wideband 36dB at 1GHz, CMOS 1.65V to 2.75V		ADG936BCPZ	SMD 107-8222●	2.600	2.090	1.630	– –	– –
936	ADI	20	TSSOP	Dual SPDT Switch, Wideband 36dB at 1GHz, CMOS 1.65V to 2.75V		ADG936BRUZ	SMD 107-8223●	3.580	2.430	1.810	– –	– –
1222	ADI	10	MSOP	Dual Low Capacitance, Low Charge Injection, ±15 V/+12 V iCMOS® SPST Switch	120	ADG1222BRMZ	SMD 139-0955●	2.160	1.730	1.350	1.290	1.200
1223	ADI	10	MSOP	Dual Low Capacitance, Low Charge Injection, ±15 V/+12 V iCMOS® SPST Switch	120	ADG1223BRMZ	SMD 139-0956●	2.160	1.730	1.350	1.290	1.200
1236	ADI	16	TSSOP	Low Capacitance, Low Charge Injection, Dual SPDT Switch	120	ADG1236YRUZ	SMD 111-7868●	4.200	2.960	2.400	2.290	2.140
1258	FCH	8	MicroPak	Dual Low Voltage SPST Analog Switch	1.1	FSA1258L8X	SMD 143-2168●	0.580	0.480	0.370	0.320	0.290
2016	SLX	10	MSOP	High-Bandwidth, Low Voltage, Dual SPDT Analogue Switch	2.4	DG2016DQ-T1-E3	SMD 110-2494●	1.360	1.190	0.980	0.900	0.770
2257	FCH	10	MicroPak	Dual SPDT Bi-Directional Analogue Switch	0.3	FSA2257L10X	NEW SMD 156-4489●	0.830	0.680	0.600	0.500	0.420
2257	FCH	10	MSOP	Dual SPDT Bi-directional Analog Switch, Low Ron, Low Voltage		FSA2257MUX	SMD 149-5452●	0.580	0.430	0.380	0.340	0.310
2257	FCH	14	TSSOP	Low RON Low Voltage Dual SPDT Bi-directional Analog Switch	1.15	FSA2257MTCX	SMD 122-8238●	1.150	0.690	0.560	– –	– –
2267	FCH	10	MSOP	Dual SPDT Analog Switch, 0.35 Ohm, Low Voltage		FSA2267AMUX	SMD 149-5453●	0.580	0.430	0.380	0.340	0.310
2268	FCH	10	UMLP	Dual SPDT (0.4 Ohm) Analog Switch with 16KV ESD, Low Voltage		FSA2268TUMX	SMD 149-5454●	0.460	0.330	0.300	0.260	0.240
2268	FCH	10	UMLP	Dual SPDT (0.4 Ohm) Analog Switch with 16KV ESD, Low Voltage		FSA2268UMX	SMD 149-5455●	0.460	0.330	0.300	0.260	0.240
2269	FCH	10	MicroPak	Dual-SPDT (0.4Ohm), Low Voltage, Analog Switch w/Negative Swing Audio Capability		FSA2269L10X	SMD 149-5456●	0.520	0.370	0.350	0.300	0.280
2269	FCH	10	MicroPak	Dual-SPDT (0.4Ohm), Low Voltage, Analog Switch w/Negative Swing Audio Capability		FSA2269TSL10X	SMD 149-5457●	0.500	0.350	0.320	0.280	0.250
2402	ADI	14	DIP	Dual SPST Audio Analogue Switch	85	SSM2402PZ	107-9428●	4.670	3.730	2.930	– –	– –
2406	MAX	6	TSOC	Dual Addressable Switch Plus 1kbit Memory		DS2406P+	SMD 137-9761●	5.580	3.740	2.550	2.360	– –
2467	FCH	16	MLP	Low Voltage Dual DPDT Analog Switch	0.4	FSA2467MPX	SMD 122-8239●	1.410	0.850	0.690	– –	– –
2741	SLX	8	MSOP	Low-Voltage, 0.8 ohm Ron, Dual SPST Analogue Switch	0.8	DG2741DQ-T1-E3	SMD 110-2498●	0.790	0.700	0.590	0.540	0.450
2742	SLX	8	MSOP	Low Voltage Dual SPDT Analogue Switch	0.8	DG2742DQ-T1-E3	SMD 141-4081●	1.260	0.830	0.710	0.630	0.500
2743	SLX	8	MSOP	Low Voltage Dual SPDT Analogue Switch	0.8	DG2743DQ-T1-E3	SMD 141-4083●	1.260	0.830	0.710	0.630	0.500
3157	FCH	6	SC70	SPDT Analogue Switch/ 2:1Demultiplexer/Multiplexer Bus Switch	10	FSA3157P6X	NEW SMD 156-4487●	0.440	0.360	0.320	0.260	0.220
3517	SLX	10	Micro Foot	Dual SPDT Analogue Switch	2.5	DG3517DB-T5-E1	SMD 141-4084●	1.540	1.030	0.890	0.770	0.620
3538	SLX	8	Micro Foot	Dual SPST Analogue Switch	4	DG3538DB-T5-E1	SMD 141-4085●	1.050	0.700	0.600	0.530	0.420
3539	SLX	8	Micro Foot	Dual SPST Analogue Switch	4	DG3539DB-T5-E1	SMD 141-4086●	1.050	0.700	0.600	0.530	0.420
3540	SLX	8	Micro Foot	Dual SPST Analogue Switch	4	DG3540DB-T1-E1	SMD 141-4087●	1.000	0.660	0.570	0.490	0.400
4684	NSC	12	Bump Micro SMD	0.5Ohm Low-Voltage, Dual SPDT Analog Switch	0.8	LMS4684ITL	SMD 818-1233●	1.030	0.850	0.680	– –	– –
4684	NSC	10	LLP	0.5Ohm Low-Voltage, Dual SPDT Analog Switch	0.8	LMS4684LD	SMD 818-1241●	1.280	1.070	0.850	– –	– –
7218	ADI	8	MSOP	Dual, SPST CMOS Analogue Switch (switch normAlly open)	40	ADG721BRMZ	SMD 942-5764●	1.730	1.180	0.850	– –	– –
7238	ADI	8	MSOP	Dual, SPST CMOS Analogue Switch (1 switch normAlly open)	40	ADG723BRMZ	SMD 960-3921●	1.730	1.180	0.850	– –	– –

RL Re-reeling available

	Mftr.	Pins	Pkg	Description	rDS (on) Ω max.	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
Dual												
7512	ADI	14	DIP	Dual SPDT CMOS Analogue Switch With ±25V protection above supply	75	AD7512DIJNZ	107-9334●	10.840	8.310	7.050	– –	– –
7592	ADI	14	DIP	Dual SPDT Analogue Switch - integral data latches µP compatible	90	AD7592DIKNZ	960-5002●	12.850	9.860	8.360	– –	– –
9233	SLX	8	SOIC	Low-Voltage Dual SPST AnaLogue Switch	20	DG9233DY-T1-E3	SMD 110-2507●	0.950	0.820	0.680	0.630	0.540
54050	INTS	10	TQFN	Ultra Low ON-Resistance, +1.65V to +4.5V, Single Supply, Dual SPDT Analog Switch	0.3	ISL54050IRUZ-T	SMD 136-0989●	1.700	1.480	1.310	1.110	1.010
54056	INTS	16	µTQFN	Ultra Low ON-Resistance, +1.65V to +4.5V, Single Supply, Quad SPDT (Dual DPDT) Analog Switch	0.4	ISL54056IRUZ-T	SMD 136-0990●	1.960	1.680	1.490	1.260	1.130
54206	INTS	10	TDFN	High Speed Dual Switch		ISL54206AIRTZ	SMD 143-9871●	1.630	1.280	1.130	0.980	0.900
84541	INTS	8	SOIC	Low Voltage, Single Supply, Dual SPST CMOS Analogue Switches	30	ISL84541IB	SMD 412-6865▲	0.240	– –	– –	– –	– –
84541	INTS	8	SOIC	Low Voltage, Single Supply, Dual SPST CMOS Analogue Switches	30	ISL84541IBZ	SMD 966-4017●	0.790	0.700	0.570	– –	– –
Triple												
1234	ADI	16	TSSOP	Low Capacitance, Triple SPDT ±15 V/12 V iCMOS Switch	120	ADG1234YRUZ	SMD 127-4180●	6.370	4.370	3.530	3.400	3.170
2367	FCH	14	TSSOP	Triple SPDT, Negative Swing Audio Source Switch, Low Ron (0.75 Ohm)		FSA2367MTCX	SMD 149-5459●	0.840	0.600	0.550	0.480	0.460
4619	MAX	16	PDIP	3 Channel CMOS SPDT Switch	10	MAX4619CPE+	NEW 159-3372●	1.570	1.210	1.100	0.920	0.780
9053	SLX	16	TSSOP	Low Voltage Triple 2-Ch Analogue Switches/Multiplexers	30	DG9053DQ-T1-E3	SMD 141-4109●	1.680	1.120	0.960	0.840	0.670
84053	INTS	16	QSOP	Triple SPDT Analogue Switch	60	ISL84053IAZ	NEW SMD 156-2056●	1.330	0.990	0.800	0.660	0.570
Quad												
1	INTS	16	DIP	Quad SPST CMOS Analogue Switch	80	HI1-0201-5	402-965▲	2.750	2.470	2.060	1.910	1.790
3	INTS	16	PDIP	Quad SPST CMOS Analogue Switches	55	HI3-0201-5Z	NEW 156-1982●	2.480	1.860	1.490	1.230	1.070
3	INTS	16	DIP	Quad SPST CMOS Analogue Switch	50	HI3-0201HS-5Z	966-3681●	3.090	2.790	2.340	2.160	2.010
3	TI	16	SSOP	10-OHM Quad SPDT Analogue Switch	7	TS3A5018DBQR	SMD 123-6585●	0.850	0.550	0.390	0.290	0.230
3	TI	16	TSSOP	10-Ohm Quad SPDT Analog Switch	10	TS3A5018PWG4	SMD 149-4943●	0.600	0.420	0.330	0.250	0.200
6	ADI	16	DIP	Quad SPST JFET Analogue Switch - 2NO/2NC+Disable	150	SW06GPZ	107-9381●	3.760	2.670	1.970	– –	– –
74	TI	14	SOIC	Quadruple Bilateral Analog Switches	150	SN74HC4066D	SMD 123-6227●	0.340	0.230	0.176	0.135	0.115
74	TI	14	QFN	Quadruple Bilateral Analog Switch	38	SN74LV4066ARGYR	SMD 123-6282● RL	0.560	0.380	0.290	0.240	0.220
90	NSC	32	LLP	1.5 Gbps 4x4 LVDS Crosspoint Switch		DS90CP04TLQ/NOPB	NEW SMD 168-5583●	10.410	8.560	7.000	6.420	5.750
201	ADI	16	DIP	Quad SPST CMOS Analogue Switch	90	ADG201AKNZ	960-5010●	2.980	2.040	1.510	1.440	– –
201	SLX	16	DIP	Quad SPST CMOS Analogue Switch	85	DG201BDJ	107-7075●	1.990	1.460	1.020	0.850	0.690
201	SLX	16	SOIC	Quad CMOS Analogue Switch	45	DG201BDY-E3	SMD 110-2493●	0.870	0.770	0.630	0.540	0.490
202	ADI	16	DIP	Quad SPST CMOS Analogue Switch	90	ADG202AKNZ	107-9382●	2.980	2.040	1.510	1.440	– –
202	SLX	16	DIP	Quad SPST CMOS Analogue Switch	85	DG202BDJ	107-7076●	1.100	0.950	0.830	0.660	0.570
203	LT	16	SOIC	Micropower, Low Charge Injection, Quad CMOS Analog Switch.	65	LTC203CS#PBF	SMD 141-7737●	4.320	3.460	2.200	– –	– –
211	ADI	16	DIP	Quad SPST CMOS Analogue Switch	115	ADG211AKNZ	960-5029●	2.740	1.870	1.390	1.320	– –
211	SLX	16	DIP	Quad SPST CMOS Analogue Switch	85	DG211BDJ	107-7071●	1.780	1.260	1.020	0.760	0.600
211	SLX	16	SOIC	Quad SPST CMOS Analogue Switch	85	DG211BDY-E3	SMD 107-7097●	0.990	0.770	0.620	0.470	0.420
211	INTS	16	DIP	Quad SPST CMOS Analogue Switch	175	DG211CJZ	120-1537●	1.130	0.920	0.710	– –	– –
212	ADI	16	SOIC	Quad SPST Switch		ADG212AKRZ	NEW SMD 166-1016●	2.290	1.790	1.460	1.340	1.120
212	ADI	16	DIP	Quad SPST CMOS Analogue Switch	115	ADG212AKNZ	960-5037●	2.740	1.870	1.390	1.320	– –
212	SLX	16	DIP	Quad SPST CMOS Analogue Switch	85	DG212BDJ	107-7072●	1.780	1.190	1.020	0.760	0.630
221	ADI	16	DIP	Quad SPST CMOS Analogue Switch	90	ADG221KNZ	107-9383●	2.860	1.870	1.630	– –	– –
271	SLX	16	DIP	Quad SPST CMOS Analogue Switch	50	DG271BCJ-E3	107-7118●	4.770	3.070	2.440	2.080	1.970
303	MAX	14	DIP	Dual/Quad TTL Compatible CMOS Analog Switch	30	DG303ACJ+	137-9789●	6.330	4.390	3.460	3.050	– –
308	SLX	16	DIP	Quad SPST CMOS Analogue Switch	85	DG308BDJ	107-7073●	2.620	1.870	1.420	1.030	0.920
308	SLX	16	SOIC	Quad SPST CMOS Analogue Switch	100	DG308BDY-E3	SMD 107-7121●	1.960	1.180	0.930	0.790	0.700
309	SLX	16	DIP	Quad CMOS AnaLog Switches	45	DG309BDJ-E3	111-1234●	1.440	1.000	0.770	0.600	0.530
312	MAX	16	NSO	10R Quad CMOS Analog SPST Switches N/C	10	MAX312CSE+	SMD 142-2299●	8.120	7.280	6.520	5.860	3.920
312	MAX	16	DIP	Quad SPST CMOS Analogue Switch	10	MAX312CPE+	118-8035●	6.470	5.810	5.200	4.670	3.120
313	MAX	16	NSOIC	Quad SPST CMOS Analogue Switch N/O	10	MAX313ESE+	NEW SMD 160-6631●	6.470	5.170	4.710	4.320	3.590
313	MAX	16	NSO	10R Quad CMOS Analog SPST Switches N/O	10	MAX313CSE+	SMD 142-2300●	9.550	6.130	4.040	3.450	3.370
313	MAX	16	DIP	Quad SPST CMOS Analogue Switch	10	MAX313CPE+	118-8036●	6.470	5.810	5.200	4.670	3.120
314	MAX	16	NSO	10R Quad CMOS Analog SPST Switches 2 N/C & 2 N/O	10	MAX314CSE+	SMD 142-2301●	8.120	7.280	6.520	5.860	3.920
314	MAX	16	DIP	Quad SPST CMOS Analogue Switch	10	MAX314CPE+	118-8037●	4.390	3.930	3.530	3.160	2.500
320	MAX	8	SO	10R Quad CMOS Analog SPST Switches 4 N/O	35	MAX320CSA+	SMD 142-2302●	2.690	1.900	1.590	1.430	1.370
330	FCH	16	TSSOP	Quad Channel 2:1 Video Switch SPDT	4	FSAV330MTCX	NEW SMD 156-4490●	0.560	0.420	0.340	0.290	0.240
333	ADI	20	SSOP	±15 V Quad SPDT Switch		ADG333ABRSZ	NEW SMD 166-1017●	5.600	4.350	3.550	3.260	2.730
333	MAX	20	DIP	175R Quad CMOS Analog SPDT Switches	175	MAX333CPP+	142-2308●	6.430	4.130	3.560	2.640	2.570
333	MAX	20	SOIC	Quad SPDT CMOS Analogue Switch	175	MAX333ACWP+	SMD 972-5547●	9.210	5.920	5.100	– –	– –
351	MAX	16	NSOIC	Quad Channel SPST N/C CMOS Analogue Switches	35	MAX351CSE+	NEW SMD 160-6638●	4.930	3.930	3.580	3.270	2.720
365	MAX	16	SOIC	Quad SPST CMOS Analogue Switch	85	MAX365CSE+	SMD 129-0849●	2.780	1.960	1.580	– –	– –
392	MAX	16	SOIC	Quad SPST CMOS Analogue Switch (switch normAlly open)	30	MAX392CSE+	SMD 118-7952●	4.570	3.170	2.420	– –	– –
394	MAX	20	WSOIC	Low-Voltage, Quad, SPDT, CMOS Analog Switch__Replaces MAX333A	17	MAX394CWP+	SMD 137-9957●	10.440	6.710	5.780	4.280	– –
411	INTS	16	DIP	Quad SPST CMOS Analogue switch	35	DG411DJZ	101-8157●	1.550	0.890	0.580	– –	– –
411	SLX	16	SOIC	Quad SPST CMOS Analogue Switch	35	DG411DY-E3	SMD 107-7122●	2.230	1.520	1.290	1.030	0.920
411	INTS	16	SOIC	Quad SPST CMOS Analogue Switch	35	DG411DYZ	SMD 966-3843●	1.430	0.840	0.530	– –	– –
411	SLX	16	SOIC	Quad SPST Low Voltage CMOS Analogue Switch	30	DG411LDY-E3	SMD 107-7101●	1.380	0.940	0.840	0.770	0.690
411	ADI	16	SOIC	LC2MOS Precision Quad SPST Switch		ADG411BRZ	NEW SMD 166-1020●	3.010	2.320	1.900	1.750	1.460
412	ADI	16	SOIC	LC2MOS Precision Quad SPST Switch		ADG412BRZ	NEW SMD 166-1021●	3.010	2.320	1.900	1.750	1.460
412	INTS	16	SOIC	Monolithic Quad SPST, CMOS Analogue Switches	35	DG412DYZ	NEW SMD 156-1924●	1.230	0.930	0.730	0.620	0.540
412	INTS	16	PDIP	Quad SPST CMOS Analogue Switches	35	DG412DJZ	NEW 156-1997●	1.330	0.990	0.800	0.660	0.570
412	SLX	16	DIP	Quad SPST CMOS Analogue Switch	35	DG412DJ-E3	107-7123●	3.150	2.000	1.580	1.280	1.170
412	SLX	16	SOIC	Quad SPST CMOS Analogue Switch	35	DG412DY	SMD 107-7067●	3.080	1.950	1.530	1.140	1.070
412	SLX	16	SOIC	Quad SPST Low Voltage CMOS Analogue Switch	30	DG412LDY-E3	SMD 107-7102●	1.520	1.030	0.920	0.840	0.760
412	MAX	16	NSOIC	Quad SPST Analog Switches 4NO	3	DG412DY+	SMD 142-2275●	3.490	2.800	2.480	2.420	2.360
413	ADI	16	SOIC	LC2MOS Precision Quad SPST Switch		ADG413BRZ	NEW SMD 166-1022●	3.010	2.320	1.900	1.750	1.460
413	MAX	16	NSOIC	Quad SPST Analog Switches 2NO/2NC	3	DG413DY+	SMD 142-2276●	6.440	4.140	3.310	2.830	2.430
413	ADI	16	DIP	Quad SPST CMOS Analogue Switch	35	ADG413BNZ	107-9411●	4.390	2.890	2.000	– –	– –
413	SLX	16	DIP	Quad SPST CMOS Analogue Switch	35	DG413DJ-E3	107-7124●	2.340	1.470	1.150	1.020	0.890
413	INTS	16	DIP	Quad SPST CMOS Analogue Switch	35	DG413DJZ	966-3541●	1.580	0.900	0.590	– –	– –
413	SLX	16	SOIC	Quad SPST CMOS Analogue Switch	35	DG413DY	SMD 107-7068●	2.220	1.520	1.370	1.030	0.920
413	INTS	16	SOIC	Quad SPST CMOS Analogue Switch	35	DG413DYZ	SMD 966-3851●	0.800	0.710	0.640	– –	– –
413	SLX	16	SOIC	Quad SPST Low Voltage CMOS Analogue Switch	30	DG413LDY-E3	SMD 107-7103●	1.470	1.000	0.900	0.820	0.740
441	ADI	16	SOIC	LC2MOS Quad SPST Switch		ADG441BRZ	NEW SMD 166-1026●	1.490	1.160	0.940	0.870	0.720
441	SLX	16	DIP	Quad SPST CMOS Analogue Switch	85	DG441DJ-E3	107-7125●	1.240	0.820	0.640	0.460	0.420
441	SLX	16	SOIC	Quad SPST CMOS Analogue Switch - NormAlly Closed	50	DG441DY-E3	SMD 110-2502●	0.750	0.670	0.550	0.490	0.430
441	INTS	16	SOIC	Quad SPST CMOS Analogue Switch	85	DG441DYZ	SMD 966-3860●	0.550	0.490	0.450	– –	– –
441	SLX	16	SOIC	Quad SPST Low Voltage CMOS Analogue Switch	30	DG441LDY-E3	SMD 107-7108●	0.930	0.650	0.580	0.520	0.480
441	INTS	16	PDIP	Monolithic, Quad SPST, CMOS Analogue Switches	85	DG441DJZ	NEW 156-1941●	0.940	0.720	0.590	0.500	0.470
442	INTS	16	SOIC	Quad SPST CMOS Analogue Switches	85	DG442DYZ	NEW SMD 156-2001●	0.960	0.710	0.570	0.480	0.410
442	INTS	16	DIP	Quad SPST CMOS Analogue Switch	85	DG442DJZ	966-4092●	1.050	0.950	0.870	0.800	0.670
442	SLX	16	SOIC	Quad SPST CMOS Analogue Switch - NormAlly Open	50	DG442DY-E3	SMD 110-2504●	0.750	0.670	0.590	0.520	0.470
442	SLX	16	SOIC	Quad SPST Low Voltage CMOS Analogue Switch	30	DG442LDY-E3	SMD 107-7109●	0.850	0.590	0.530	0.470	0.440
444	SLX	16	SOIC	Quad SPST CMOS Analogue Switch - NormAlly Open	50	DG444DY-E3	SMD 110-2505●	0.750	0.670	0.550	0.490	0.430

RL Re-reeling available

Analogue Switches - continued

	Mftr.	Pins	Pkg	Description	rDS (on) Ω max.	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
Quad												
444	INTS	16	SOIC	Quad SPST CMOS Analogue Switch	85	DG444DYZ	SMD 120-1547●	0.520	0.470	0.430	0.390	0.340
444	SLX	16	SOIC	Quad SPST CMOS Analogue Switch - NormAlly Closed	50	DG445DY-E3	SMD 110-2506●	0.840	0.750	0.600	0.510	0.450
445	INTS	16	SOIC	Quad SPST CMOS Analogue Switch	85	DG445DYZ	SMD 120-1548●	0.710	0.630	0.580	0.530	0.460
451	ADI	16	TSSOP	LC2MOS 5R RON SPST Switch		ADG451BRUZ	NEW! SMD 166-1027●	4.350	3.390	2.780	2.540	2.130
451	SLX	16	TSSOP	High Voltage Quad SPST Analogue Switch	4	DG451EQ-T1-E3	SMD 141-4091●	3.330	2.230	1.910	1.670	1.330
451	SLX	16	SOIC	High Voltage Quad SPST Analogue Switch	4	DG451EY-T1-E3	SMD 141-4092●	2.450	1.640	1.400	1.230	0.980
451	ADI	16	DIP	Quad SPST CMOS Analogue Switch	5	ADG451BNZ	960-3751●	4.550	3.100	2.310	– –	– –
451	ADI	16	SOIC	LC2MOS 5R RON SPST Switch		ADG451BRZ	NEW! SMD 166-1028●	4.350	3.390	2.780	2.540	2.130
452	ADI	16	SOIC	LC2MOS 5R RON SPST Switch		ADG452BRZ	NEW! SMD 166-1029●	4.350	3.390	2.780	2.540	2.130
452	SLX	16	TSSOP	High Voltage Quad SPST Analogue Switch	4	DG452EQ-T1-E3	SMD 141-4093●	3.400	2.280	1.950	1.700	1.360
452	SLX	16	SOIC	High Voltage Quad SPST Analogue Switch	4	DG452EY-T1-E3	SMD 141-4095●	2.450	1.640	1.400	1.230	0.980
452	ADI	16	DIP	Quad SPST CMOS Analogue Switch	5	ADG452BNZ	107-9313●	4.550	3.100	2.310	– –	– –
453	ADI	16	TSSOP	LC2MOS 5R RON SPST Switches		ADG453BRUZ	NEW! SMD 166-1030●	4.350	3.390	2.780	2.540	2.130
453	ADI	16	SOIC	LC2MOS 5R RON SPST Switches		ADG453BRZ	NEW! SMD 166-1031●	4.350	3.390	2.780	2.540	2.130
453	SLX	16	TSSOP	High Voltage Quad SPST Analogue Switch	4	DG453EQ-T1-E3	SMD 141-4096●	3.330	2.230	1.910	1.670	1.330
453	SLX	16	SOIC	High Voltage Quad SPST Analogue Switch	4	DG453EY-T1-E3	SMD 141-4097●	2.400	1.610	1.370	1.210	0.960
453	ADI	16	DIP	Quad SPST CMOS Analogue Switch	5	ADG453BNZ	107-9314●	4.380	3.100	2.290	– –	– –
454	SLX	16	TSSOP	High Voltage Quad SPST Analogue Switch	4	DG454EQ-T1-E3	SMD 141-4098●	3.400	2.280	1.950	1.700	1.360
454	SLX	16	SOIC	High Voltage Quad SPST Analogue Switch	4	DG454EY-T1-E3	SMD 141-4099●	2.450	1.640	1.400	1.230	0.980
455	SLX	16	TSSOP	High Voltage Quad SPST Analogue Switch	4	DG455EQ-T1-E3	SMD 141-4101●	3.400	2.280	1.950	1.700	1.360
455	SLX	16	SOIC	High Voltage Quad SPST Analogue Switch	4	DG455EY-T1-E3	SMD 141-4102●	2.450	1.640	1.400	1.230	0.980
456	SLX	16	TSSOP	High Voltage Quad SPST Analogue Switch	4	DG456EQ-T1-E3	SMD 141-4103●	3.400	2.280	1.950	1.700	1.360
456	SLX	16	SOIC	High Voltage Quad SPST Analogue Switch	4	DG456EY-T1-E3	SMD 141-4104●	2.450	1.640	1.400	1.230	0.980
541	SLX	16	DIP	Quad Monolithic SPST Wideband/Video Switch, 350MHz	60	DG541DJ-E3	107-7126●	3.940	2.550	2.000	1.750	1.590
613	SLX	16	DIP	Quad, High Speed, Low-Glitch D/CMOS Analogue Switch	45	DG613DJ	107-7074●	2.260	1.710	1.470	1.070	1.030
613	SLX	16	DIP	Quad, High Speed, Low-Glitch D/CMOS Analogue Switch	45	DG613DJ.	597-375▲	5.570	4.140	3.210	2.460	2.040
662	ADI	16	TSSOP	Quad Precision SPST CMOS (LC2MOS) Analogue Switch	38	ADG662BRUZ	SMD 960-3646●	4.130	3.180	2.210	– –	– –
711	ADI	16	SOIC	Quad, SPST CMOS Analogue Switch.	35	ADG711BRZ	SMD 107-9322●	1.680	1.340	1.060	– –	– –
712	ADI	16	SOIC	Quad, SPST CMOS Analogue Switch. Inverted controlLogic to ADG711	35	ADG712BRZ	SMD 960-3891●	2.230	1.520	1.130	– –	– –
713	ADI	16	SOIC	Quad, SPST CMOS Analogue Switch. Contains 2 switches With inverted controlLogic to ADG711.	35	ADG713BRZ	SMD 960-3905●	1.950	1.500	1.010	– –	– –
734	ADI	20	TSSOP	CMOS 2.5R Low Voltage Quad SPDT Switch		ADG734BRUZ	NEW! SMD 166-1037●	2.880	2.240	1.830	1.670	1.410
794	ADI	16	SSOP	Low Voltage, 300MHz Quad 2:1 Mux Analog HDTV Audio/Video Switch	5	ADG794BRQZ	SMD 107-8226●	1.510	1.030	0.740	– –	– –
819	ADI	8	MSOP	0.5R CMOS 2:1 Mux/SPDT Switch with BBM Switching Action		ADG819BRMZ	NEW! SMD 166-1038●	1.960	1.530	1.250	1.150	0.950
1211	ADI	16	TSSOP	Low Capacitance, Low Charge Injection Quad SPST Switches	120	ADG1211YRUZ	SMD 111-7871●	4.200	2.960	2.400	2.290	2.140
1212	ADI	16	TSSOP	Low Capacitance, Low Charge Injection Quad SPST Switches	120	ADG1212YRUZ	SMD 111-7870●	4.200	2.960	2.400	2.290	2.140
1213	ADI	16	TSSOP	Low Capacitance, Low Charge Injection Quad SPST Switches	120	ADG1213YRUZ	SMD 111-7869●	4.200	2.960	2.400	2.290	2.140
1233	ADI	16	TSSOP	Low Capacitance, Quad SPDT ±15 V/12 V iCMOS Switch	120	ADG1233YRUZ	SMD 127-4182●	4.950	3.400	2.740	2.640	2.460
1311	ADI	16	TSSOP	± 15 V /12 V Quad SPST NO Switch	130	ADG1311YRUZ	SMD 127-4177●	2.550	1.760	1.310	1.250	1.160
1312	ADI	16	SOIC	± 15 V /12 V Quad SPST NC Switch	130	ADG1312YRZ	SMD 127-4175●	2.240	1.530	1.140	1.080	1.010
1313	ADI	16	TSSOP	± 15 V /12 V Quad SPST Switch	130	ADG1313YRUZ	SMD 127-4174●	1.240	0.950	0.760	0.740	0.720
1313	ADI	16	SOIC	± 15 V /12 V Quad SPST Switch	130	ADG1313YRZ	SMD 127-4173●	1.440	1.020	0.760	0.730	0.710
2011	ADI	16	SOIC	60R Quad SPST Switch		ADG201AKRZ	NEW! SMD 166-1015●	2.500	1.940	1.590	1.460	1.220
4521	MAX	16	NSOIC	Quad, SPST Analogue Switches	100	MAX4521CSE+	SMD 142-2326●	1.330	0.920	0.760	0.680	0.670
4522	MAX	16	NSOIC	Quad, SPST Analogue Switches	100	MAX4522CSE+	SMD 142-2328●	1.330	0.920	0.760	0.680	0.670
4523	MAX	16	NSOIC	Quad, SPST Analogue Switches	100	MAX4523CSE+	SMD 142-2329●	1.330	0.920	0.760	0.680	0.670
4533	MAX	20	SSOP	Quad, Rail-to-Rail, Fault-Protected, SPDT Analog Switch	125	MAX4533CAP+	SMD 137-9970●	7.590	4.870	3.220	2.740	– –
4661	MAX	16	SSOP	2.5 Ohm Quad, SPST, CMOS Analog Switches	1.7	MAX4661CAE+	SMD 137-9971●	8.830	5.680	4.310	3.190	– –
7510	ADI	16	DIP	Quad SPST CMOS Analogue Switch With ±25V protection above supply	75	AD7510DIJNZ	107-9333●	8.440	6.710	5.710	– –	– –
7590	ADI	16	DIP	Quad SPST Analogue Switch - integral data latches μP compatible	90	AD7590DIKNZ	107-9385●	8.290	7.280	6.490	– –	– –
9546	TI	16	TSSOP	Quad I2C & SMBus Multiplexer With Reset Function	9	PCA9546APWT	NEW! SMD 156-4905●	1.490	1.230	1.100	0.900	0.770
9052	SLX	16	TSSOP	Low Voltage Dual 4-Ch Analogue Switches/Multiplexers	30	DG9052DQ-T1-E3	SMD 141-4108●	1.680	1.120	0.960	0.840	0.670
Octal												
355	MAX	24	SOIC	8 Channel N/O SPST CMOS Serial Controlled Switches	150	MAX335EWG+	NEW! SMD 160-6637●	4.940	3.950	3.590	3.280	2.730
335	MAX	24	DIP	SPST CMOS Analogue Switch.	150	MAX335CNG+	118-8014●	6.100	4.070	2.920	2.490	2.420
335	MAX	24	SOIC	SPST CMOS Analogue Switch.	150	MAX335CWG+	SMD 972-5555●	6.940	4.460	3.210	– –	– –
408	ADI	16	TSSOP	LC2MOS ±15 V 8 Channel High Performance Analog Multiplexer		ADG408BRUZ	NEW! SMD 166-1018●	4.090	3.170	2.590	2.390	1.990
408	ADI	16	SOIC	LC2MOS ±15 V 8 Channel High Performance Analog Multiplexer		ADG408BRZ	NEW! SMD 166-1019●	4.090	3.170	2.590	2.390	1.990
714	ADI	24	TSSOP	CMOS, Low Voltage, Serial (SPI) controlled Octal SPST Switch (IND TEMP)	2.5	ADG714BRUZ	SMD 960-4367●	4.320	2.970	2.210	– –	– –
715	ADI	24	TSSOP	CMOS, Low Voltage, Serial (I2C) controlled Octal SPST Switch (IND TEMP)	2.5	ADG715BRUZ	SMD 960-4375●	4.320	2.970	2.210	– –	– –
4802	MAX	28	PLCC	8 Channel SPST Analogue Voltage Switches		MAX4802CQI+	NEW! SMD 160-9600●	20.170	18.030	15.410	13.670	12.110
4800	MAX	48	TQFP	8-Channel, High-Voltage Analog Switches with 20MHz Serial Interface		MAX4800ACCM+	NEW! SMD 167-3127●	21.080	16.400	13.410	12.300	11.220
4802	MAX	48	TQFP	8-Channel, High-Voltage Analog Switches with 20MHz Serial Interface		MAX4802ACCM+	NEW! SMD 167-3128●	21.080	16.400	13.410	12.300	11.220
9051	SLX	16	TSSOP	Low Voltage Precision 8-Ch Analogue Switches/Multiplexers	30	DG9051DQ-T1-E3	SMD 141-4107●	1.680	1.120	0.960	0.840	0.670
Special Function												
10	NSC	40	LLP	1.5 Gbps 4x4 LVDS Crosspoint Switch		DS10CP154ATSQ	NEW! SMD 166-7412●	8.090	6.290	5.150	4.360	4.050
25	NSC	40	LLP	3.125 Gbps 4x4 LVDS Crosspoint Switch		DS25CP104ATSQ	NEW! SMD 166-7413●	13.040	10.420	8.690	8.020	7.450
201	ADI	16	PDIP	Quad SPST Switch, LC2MOS ± 15 V High Speed		ADG201HSJNZ	143-8701●	5.010	3.410	2.750	– –	– –
221	ADI	16	SOIC	Quad SPST Switch LC2MOS ±15 V		ADG221KRZ	SMD 143-8702●	3.360	2.300	1.710	– –	– –
333	ADI	20	PDIP	±15 V Quad SPDT Switch		ADG333ABNZ	143-8703●	5.940	4.070	3.280	– –	– –
412	ADI	16	PDIP	Quad SPST Switch LC2MOS Precision		ADG412BNZ	143-8704●	3.660	2.490	1.850	– –	– –
419	ADI	8	PDIP	LC2MOS Precision Mini-Dip Analog Switch		ADG419BNZ	143-8705●	2.500	1.710	1.270	– –	– –
433	ADI	16	SOIC	Quad SPST Switch LC2MOS Precision		ADG433ABRZ	SMD 143-8706●	6.280	4.280	3.450	– –	– –
433	ADI	16	SOIC	Quad SPST Switch LC2MOS Precision		ADG433BRZ	SMD 143-8707●	4.460	3.030	2.260	– –	– –
436	ADI	16	SOIC	Dual, LC2MOS ±15 V SPDT Switch		ADG436BRZ	SMD 143-8881●	5.290	3.610	2.680	– –	– –
436	ADI	16	PDIP	Dual SPDT Switch LC2MOS ±15 V.		ADG436BNZ	143-8708●	5.440	3.700	2.750	– –	– –
441	ADI	16	PDIP	Quad SPST Switch LC2MOS.		ADG441BNZ	143-8709●	1.920	1.310	0.940	0.870	0.810
444	ADI	16	SOIC	Quad SPST Switch LC2MOS.		ADG444BRZ	SMD 143-8710●	1.920	1.310	0.940	0.870	0.810
467	ADI	18	WSOIC	Octal Channel Protector		ADG467BRZ	SMD 143-8711●	5.360	3.650	2.710	– –	– –
601	ADI	8	MSOP	2ohm, CMOS, ±5 V/+5 V SPST Switch.		ADG601BRMZ	SMD 143-8882●	1.470	1.170	0.930	– –	– –
602	ADI	8	MSOP	2ohm, CMOS, ±5 V/+5 V SPST Switch.		ADG602BRMZ	SMD 143-8883●	1.470	1.170	0.930	– –	– –
611	ADI	16	TSSOP	Quad, CMOS ±5 V/5 V/3 V SPST Switch		ADG611YRUZ	SMD 143-8884●	2.840	2.270	1.750	– –	– –
612	ADI	16	TSSOP	Quad, CMOS ±5 V/5 V/3 V SPST Switch		ADG612YRUZ	SMD 143-8885●	3.420	2.350	1.750	– –	– –
613	ADI	16	TSSOP	Quad, CMOS ±5 V/5 V/3 V SPST Switch		ADG613YRUZ	SMD 143-8886●	3.420	2.350	1.750	– –	– –
619	ADI	8	MSOP	Single, CMOS, ±5 V/+5 V, 4ohm, SPDT Switch (Break-Before-Make Switching Action)		ADG619BRMZ	SMD 143-8887●	2.230	1.520	1.130	– –	– –

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	Mftr.	Pins	Pkg	Description	rDS (on) Ω max.	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
Special Function												
620	ADI	8	MSOP	Single, CMOS, ±5 V/+5 V, 4ohm, SPDT Switch (Make-Before-Break Action)		ADG620BRMZ	SMD 143-8889●	1.560	1.230	0.980	– –	– –
621	ADI	10	MSOP	Dual CMOS ±5 V/+5 V, 4ohm SPST Switch		ADG621BRMZ	SMD 143-8891●	2.230	1.520	1.130	– –	– –
622	ADI	10	MSOP	Dual CMOS ±5 V/+5 V, 4ohm SPST Switch		ADG622BRMZ	SMD 143-8892●	1.850	1.470	1.130	– –	– –
623	ADI	10	MSOP	Dual CMOS ±5 V/+5 V, 4ohm SPST Switch		ADG623BRMZ	SMD 143-8893●	2.230	1.520	1.130	– –	– –
633	ADI	16	TSSOP	Triple CMOS ±5 V/5 V/3 V SPDT Switch		ADG633YRUZ	SMD 143-8894●	2.030	1.380	1.030	– –	– –
636	ADI	14	TSSOP	Dual 1pC Charge Injection, 100pA Leakage CMOS SPDT Switch		ADG636YRUZ	SMD 143-8895●	3.670	2.510	1.870	– –	– –
1433	ADI	16	TSSOP	Triple, 4ohm RON, SPDT ±15 V/+12 V/±5 V iCMOS™ Switch		ADG1433YRUZ	SMD 143-8879●	5.120	3.780	3.050	– –	– –
1434	ADI	20	TSSOP	Quad, 4ohm RON, SPDT ±15 V/+12 V/±5 V iCMOS™ Switch		ADG1434YRUZ	SMD 143-8880●	5.910	4.730	3.940	– –	– –
2018	SLX	16	QFN	Low Voltage Dual DPDT Analogue Switch	4	DG2018DN-T1-E3	SMD 141-4068●	2.530	1.690	1.450	1.280	1.020
2019	SLX	16	QFN	Low Voltage Dual DPDT Analogue Switch	4	DG2019DN-T1-E3	SMD 141-4071●	2.530	1.690	1.450	1.280	1.020
2613	SLX	6	SOT-666	Low Voltage SPDT Analogue Switch	1	DG2613DX-T1-E4	SMD 141-4072●	1.270	0.840	0.720	0.630	0.500
2616	SLX	10	DFN	Low Voltage Dual SPDT Analogue Switch	4.2	DG2616DN-T1-E4	SMD 141-4073●	1.270	0.840	0.720	0.630	0.500
2618	SLX	10	DFN	Low Voltage Dual SPDT Analogue Switch	4.2	DG2618DN-T1-E4	SMD 141-4074●	1.270	0.840	0.720	0.630	0.500
2714	SLX	6	SC-70	Low Voltage Single SPDT Analogue Switch	0.85	DG2714DL-T1-E3	SMD 141-4075●	1.000	0.670	0.570	0.500	0.400
2715	SLX	5	SC-70	Low Voltage Single SPDT Analogue Switch	0.4	DG2715DL-T1-E3	SMD 141-4076●	1.500	1.000	0.870	0.750	0.600
2716	SLX	5	SC-70	Low Voltage Single SPDT Analogue Switch	0.4	DG2716DL-T1-E3	SMD 141-4077●	1.500	1.000	0.870	0.750	0.600
2731	SLX	10	MSOP	Low Voltage Dual SPDT Analogue Switch	0.3	DG2731DQ-T1-E3	SMD 141-4078●	1.020	0.670	0.580	0.500	0.410
2732	SLX	10	MSOP	Low Voltage Dual SPDT Analogue Switch	0.3	DG2732DQ-T1-E3	SMD 141-4079●	1.020	0.670	0.580	0.500	0.410
2733	SLX	10	MSOP	Low Voltage Dual SPDT Analogue Switch	0.3	DG2733DQ-T1-E3	SMD 141-4080●	1.020	0.670	0.580	0.500	0.410
3357	TI	8	US8		5	TS5A3357DCUTG4	SMD 137-9265●	0.570	0.460	0.350	0.260	0.240
7512	ADI	14	PDIP	Dual SPDT Protected Analog Switch		AD7512DIKNZ	143-8589●	11.710	9.330	7.920	– –	– –
8150	ADI	184	LQFP	1.5 Gb/s, 33x17 Digital Crosspoint Switch		AD8150ASTZ	SMD 143-8597●	139.440	116.010	103.020	– –	– –
9655	MAX	16	QSOP	Video Switches for Dual SCART Connectors		MAX9655AEE+	NEW SMD 167-3088●	1.060	0.760	0.580	0.530	0.490
9675	MAX	100	TQFP	Video Crosspoint Switch 110MHz 16-16 Programmable Gain		MAX9675ECQ+	NEW SMD 167-3080●	22.820	17.750	14.520	13.310	12.150
75019	ADI	44	PLCC	AnaLogue Crosspoint Switch Array. 16 x 16 mAtrix signal range to supply rails of 24V or ±12V. 2mV Quiescent Current. (PLCC Package)	150	AD75019JPZ	SMD 107-9327●	17.100	15.670	14.470	– –	– –
84053	INTS	16	SOIC	Triple SPDT Analogue Switch	60	ISL84053IBZ	NEW SMD 156-1991●	1.220	0.910	0.730	0.610	0.530
84514	INTS	8	SOIC	Low Voltage, Single Supply, SPST CMOS Analogue Switch.	20	ISL84514IBZ	SMD 966-4009●	0.590	0.520	0.430	– –	– –
2950	LT	8	DFN	Push Button On/Off Controller		LTC2950CDDB-1#TRMPBF	NEW SMD 167-3533●	3.310	2.530	2.120	1.770	1.520
2950	LT	8	DFN	Push Button On/Off Controller		LTC2950CDDB-2#TRMPBF	NEW SMD 167-3534●	3.310	2.530	2.120	1.770	1.520
2950	LT	8	TSOT-23	Push Button On/Off Controller		LTC2950CTS8-1#TRMPBF	NEW SMD 167-3535●	3.310	2.530	2.120	1.770	1.520
2950	LT	8	TSOT-23	Push Button On/Off Controller		LTC2950CTS8-2#TRMPBF	NEW SMD 167-3536●	3.310	2.530	2.120	1.770	1.520
2950	LT	8	DFN	Push Button On/Off Controller		LTC2950IDDB-1#TRMPBF	NEW SMD 167-3537●	3.870	2.950	2.470	2.070	1.770
2950	LT	8	DFN	Push Button On/Off Controller		LTC2950IDDB-2#TRMPBF	NEW SMD 167-3538●	3.870	2.950	2.470	2.070	1.770
2950	LT	8	TSOT-23	Push Button On/Off Controller		LTC2950ITS8-1#TRMPBF	NEW SMD 167-3539●	3.870	2.950	2.470	2.070	1.770
2950	LT	8	TSOT-23	Push Button On/Off Controller		LTC2950ITS8-2#TRMPBF	NEW SMD 167-3540●	3.870	2.950	2.470	2.070	1.770
2951	LT	8	DFN	Push Button On/Off Controller		LTC2951CDDB-1#TRMPBF	NEW SMD 167-3541●	3.310	2.530	2.120	1.770	1.570
2951	LT	8	DFN	Push Button On/Off Controller		LTC2951CDDB-2#TRMPBF	NEW SMD 167-3542●	3.310	2.530	2.120	1.770	1.520
2951	LT	8	TSOT-23	Push Button On/Off Controller		LTC2951CTS8-1#TRMPBF	NEW SMD 167-3544●	3.310	2.530	2.120	1.770	1.570
2951	LT	8	TSOT-23	Push Button On/Off Controller		LTC2951CTS8-2#TRMPBF	NEW SMD 167-3545●	3.310	2.530	2.120	1.770	1.520
2951	LT	8	DFN	Push Button On/Off Controller		LTC2951IDDB-1#TRMPBF	NEW SMD 167-3546●	3.870	2.950	2.470	2.070	1.770
2951	LT	8	DFN	Push Button On/Off Controller		LTC2951IDDB-2#TRMPBF	NEW SMD 167-3547●	3.870	2.950	2.470	2.070	1.770
2951	LT	8	TSOT-23	Push Button On/Off Controller		LTC2951ITS8-1#TRMPBF	NEW SMD 167-3548●	3.870	2.950	2.470	2.070	1.830
2951	LT	8	TSOT-23	Push Button On/Off Controller		LTC2951ITS8-2#TRMPBF	NEW SMD 167-3549●	3.870	2.950	2.470	2.070	1.770

See our range of **Multiplexers** on page 339

Bus Transceivers

210418

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
001	NSC	8	SOIC	Adjustable LVDS Cable Driver	CLC001AJE.	SMD 128-6813●	3.29	2.30	1.82	1.57	1.47
6	ON	16	QFN	2:1 LVDS Transceiver 2.5Gbps	NB6N11SMNG	SMD 136-9727●	5.83	4.38	3.74	3.34	3.21
10	NSC	16	NSOIC	1.5 Gbps 2X2 LVDS Crosspoint Switch	DS10CP152TMA/NOPB.	SMD 154-2528●	5.72	4.95	4.35	3.95	3.35
10	NSC	40	LLP	1.5 Gbps 1:4 LVDS Repeater	DS10BR254TSQ	SMD 155-2432●	6.44	5.73	5.16	4.29	3.68
25	NSC	16	NSOIC	3.125 Gbps 1:4 LVDS Repeater	DS25BR204TSQ	SMD 154-2529●	11.95	10.09	9.09	8.26	6.99
25	NSC	16	LLP	3.125 Gbps LVDS 2x2 Crosspoint Switch.	DS25CP152TSQ	SMD 155-2433●	7.43	6.60	5.95	4.95	4.23
36	NSC	14	SOIC	Dual, High Speed Bi-directional Differential Transceiver, compatible With IEEE 1394 Signal levels	DS36C200M	SMD 949-4189●	1.43	1.15	0.95	0.81	0.76
40	NSC	48	LLP	1485Mbps Serializer and Driver with LVDS Interface	LMH0040SQE	NEW SMD 160-9170●	39.34	35.40	32.18	29.50	25.30
65	TI	16	SOIC	Quad High Speed Differential Line Receiver	SN65LVDT32BD..	NEW SMD 162-4402●	3.88	2.90	2.28	2.09	1.92
65	TI	8	SOIC	3.3V CAN Transceivers	SN65HVD230QD..	NEW SMD 164-8752●	2.37	1.90	1.58	1.43	1.39
65	TI	16	SOIC	Dual LVDS Transmitter/Receiver.	SN65LVDM051D.	NEW SMD 164-8753●	2.83	2.27	1.89	1.70	1.66
65	TI	16	TSSOP	Dual High Speed Differential Driver & Receiver	SN65LVDS049PW.	NEW SMD 164-8754●	1.28	1.02	0.86	0.77	0.75
65	TI	8	SOIC	RS-485 Transceiver	SN65HVD24D	SMD 118-0136●	2.63	2.12	1.80	1.67	1.53
65	TI	8	DIP	RS-485 Transceiver	SN65HVD24P	118-0138●	3.61	2.46	1.83	1.74	1.62
65	TI	28	SSOP	10:1 LVDS Transmitter.	SN65LV1021DB	SMD 845-2288●	6.97	4.75	3.83	– –	– –
65	TI	28	SSOP	10:1 LVDS Transmitter.	SN65LV1023ADB	SMD 845-2296●	5.39	3.67	2.96	– –	– –
65	TI	28	SSOP	1:10 LVDS Receiver.	SN65LV1212DB	SMD 845-2318●	7.87	5.37	4.33	– –	– –
65	TI	28	SSOP	1:10 LVDS Receiver.	SN65LV1224ADB	SMD 845-2326●	5.62	4.94	4.47	– –	– –
65	TI	64	TSSOP	LVDM Transceiver	SN65LVDM1677DGGG4	SMD 120-7272●	8.33	7.30	6.61	– –	– –
65	TI	16	SOIC	LVDS Receiver, Quad.	SN65LVDS048AD	SMD 845-2369●	2.03	1.38	1.03	– –	– –
65	TI	16	SOIC	Differential Line Transceiver, Dual.	SN65LVDS050DG4	SMD 120-7273●	2.38	2.09	1.83	– –	– –
65	TI	8	SOIC	Repeater, LVDS	SN65LVDS100D	SMD 845-2393●	3.98	3.31	2.46	– –	– –
65	TI	8	SOIC	Repeater, LVDS	SN65LVDS101D	SMD 845-2407●	4.24	3.31	2.46	– –	– –
65	TI	16	SOIC	Repeater, TTL - LVDS	SN65LVDS105D	SMD 845-2415●	3.34	2.47	1.84	– –	– –
65	TI	8	SOIC	LVDS Transceiver	SN65LVDS179D	SMD 845-2458●	1.82	1.49	1.11	– –	– –
65	TI	8	SOIC	LVDS Driver.	SN65LVDS1D	SMD 845-2474●	0.68	0.61	0.57	– –	– –
65	TI	5	SOT-23	LVDS Driver.	SN65LVDS1DBVT	SMD 845-2482●	0.51	0.49	0.46	– –	– –
65	TI	5	SOT-23	LVDS Receiver.	SN65LVDS2DBVT	SMD 845-2490●	0.46	0.45	0.42	– –	– –
65	TI	8	SOIC	LVDS Receiver, Dual	SN65LVDS34D	SMD 845-2539●	1.43	1.38	1.06	– –	– –
65	TI	64	TSSOP	LVDS Driver.	SN65LVDS387DGGG4	SMD 120-7274●	5.73	5.50	5.04	– –	– –
65	TI	16	SOIC	LVDS Driver, Quad.	SN65LVDS391D	SMD 845-2563●	2.25	1.72	1.28	– –	– –
65	TI	8	SOIC	LVDS RECEIVER, Dual.	SN65LVDS9637D	SMD 845-2601●	1.59	1.40	1.06	– –	– –
65	TI	8	SOIC	LVDS Driver, Dual	SN65LVDS9638D	SMD 845-2610●	1.59	1.40	1.06	– –	– –
65	TI	8	SOIC	Repeater, LVDS-LVDS	SN65LVDT100D	SMD 845-2628●	4.32	3.31	2.46	– –	– –
65	TI	8	SOIC	LVDS Receiver.	SN65LVDT2D	SMD 845-2644●	0.59	0.54	0.49	– –	– –
65	TI	5	SOT-23	Dual LVDS RECEIVER	SN65LVDT2DBVTG4	SMD 123-4935●	0.77	0.59	0.50	0.43	0.37
65	TI	8	SOIC	LVDS Transceiver	SN65MLVD200AD	SMD 845-2660●	2.67	1.90	1.41	– –	– –
65	TI	8	SOIC	LVDS Transceiver	SN65MLVD204AD	SMD 845-2679●	2.59	1.90	1.41	– –	– –
65	TI	16	SOIC	Quad High-speed Differential Driver	SN65LVDS31D	SMD 110-2952●	1.73	1.34	1.09	– –	– –
65	TI	16	SOIC	Quad High-speed Differential Line Receiver.	SN65LVDS32D	SMD 110-2954●	2.38	1.61	1.20	– –	– –

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Bus Transceivers - continued

Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
65 TI	38	TSSOP	Octal Lvds Transmitter	SN65LVDS389DBTG4	SMD 123-4907	5.24	3.76	2.95	2.49	2.29
65 TI	48	TSSOP	Serdes (Serializer/Deserializer) Receiver	SN65LVDS96DGGG4	SMD 123-4934	4.94	3.46	2.67	2.36	2.14
65 TI	16	SOIC	Quad LVDS Transmitter	SN65LVDS3487DG4	SMD 123-4998	2.72	1.90	1.48	1.29	1.18
65 TI	16	SOIC	LVDS Driver, Quad	SN65LVDS047D	SMD 845-2350	1.58	1.08	0.77	– –	– –
65 TI	64	TSSOP	16-Channel Receiver	SN65LVDT386DGGG4	SMD 123-5013	10.01	7.00	5.40	4.77	4.35
65 TI	8	SOIC	Differential Bus Transceiver	SN65ALS1176D	SMD 958-9988	3.67	2.67	1.99	– –	– –
65 TI	8	SOIC	Differential Bus Transceiver	SN65ALS176D	SMD 958-9996	1.57	1.06	0.84	– –	– –
65 TI	16	TSSOP	3-V To 5.5-V Multichannel RS-232 Line Driver/Receiver	SN65C3221PW	SMD 959-0005	1.67	1.35	1.03	– –	– –
65 TI	16	SOIC	3-V To 5.5-V Multichannel RS-232 Compatible Line Driver/Receiver	SN65C3232D	SMD 959-0013	4.27	3.42	2.59	– –	– –
65 TI	28	TSSOP	3-V To 5.5-V Multichannel RS-232 Line Driver/Receiver	SN65C3238PWG4	SMD 959-0021	5.03	4.03	3.05	– –	– –
65 TI	28	SOIC	3-V To 5.5-V Multichannel RS-232 Line Driver/Receiver	SN65C3243DW	SMD 959-0030	3.73	2.99	2.27	– –	– –
65 TI	28	TSSOP	3-V To 5.5-V Multichannel RS-232 Line Driver/Receiver	SN65C3243PWG4	SMD 959-0048	3.97	3.19	2.41	– –	– –
65 TI	8	PDIP	Transceiver, RS-485, High Output	SN65HVD05P	845-2032	2.69	1.83	1.36	– –	– –
65 TI	8	SOIC	Transceiver, RS-485, High Output	SN65HVD06D	SMD 121-2358	2.61	1.78	1.32	– –	– –
65 TI	8	PDIP	Transceiver, RS-485, High Output	SN65HVD06P	845-2059	2.61	1.78	1.32	– –	– –
65 TI	8	SOIC	Transceiver, RS-485, High Output	SN65HVD07D	SMD 121-2359	2.52	1.72	1.28	– –	– –
65 TI	8	SOIC	Transceiver, RS-485, Wide Supply Range	SN65HVD08D	SMD 121-2360	3.78	2.60	1.93	– –	– –
65 TI	8	PDIP	Transceiver, RS-485, Wide Supply Range	SN65HVD08P	845-2083	3.50	2.60	1.93	– –	– –
65 TI	8	SOIC	Transceiver, RS-485, 3.3V Differential	SN65HVD10DG4	SMD 120-7267	2.02	1.77	1.76	– –	– –
65 TI	8	SOIC	Transceiver, RS-485, ProfiBus	SN65HVD1176D	SMD 845-2113	2.57	2.01	1.49	– –	– –
65 TI	8	SOIC	3.3V RS-485 Differential Transceiver (10Mbps signalling rate, IND TEMP)	SN65HVD11D	SMD 110-0955	2.19	1.49	1.45	– –	– –
65 TI	8	SOIC	3.3V RS-485 Differential Transceiver (1Mbps signalling rate, IND TEMP)	SN65HVD12D	SMD 110-0957	2.19	1.49	1.35	– –	– –
65 TI	8	SOIC	Transceiver, RS-485, 5.0V	SN65HVD20D	SMD 121-2361	2.81	1.91	1.42	– –	– –
65 TI	8	SOIC	Transceiver, RS-485, 5.0V	SN65HVD22D	SMD 121-2362	2.81	1.91	1.42	– –	– –
65 TI	8	SOIC	3.3V CAN Transceiver With standby mode (IND TEMP)	SN65HVD230D	SMD 110-3105	2.66	2.13	1.67	– –	– –
65 TI	8	SOIC	3.3V CAN Transceiver With sleep mode (IND TEMP)	SN65HVD231D	SMD 110-6059	2.71	1.85	1.37	– –	– –
65 TI	8	SOIC	3.3V CAN Transceiver (IND TEMP)	SN65HVD232D	SMD 110-3107	2.01	1.37	1.11	– –	– –
65 TI	8	PDIP	Transceiver, RS-485 w/Receiver Equalization	SN65HVD23P	845-2199	3.38	2.46	1.83	– –	– –
65 TI	8	SOIC	Transceiver, RS-485, Low Power	SN65HVD3082ED	SMD 845-2210	1.53	1.15	0.83	– –	– –
65 TI	8	PDIP	Transceiver, RS-485, Low Power	SN65HVD3082EP	845-2229	1.53	1.15	0.83	– –	– –
65 TI	8	SOIC	CMOS Differential Bus Transceiver (RS-485/RS-422). (IND TEMP)	SN65LBC176D	SMD 121-2853	0.99	0.74	0.68	– –	– –
65 TI	8	DIP	CMOS Differential Bus Transceiver (RS-485/RS-422). (IND TEMP)	SN65LBC176P	121-2854	1.58	1.08	0.77	– –	– –
65 TI	8	SOIC	High speed Low Power differential and receiver pair	SN65LBC179AD	SMD 110-2962	1.69	1.15	0.83	– –	– –
65 TI	8	SOIC	Transceiver, Differential	SN65LBC179D	SMD 845-2261	0.86	0.76	0.72	– –	– –
65 TI	14	SOIC	High speed Low Power differential and receiver pair.	SN65LBC180AD	SMD 110-5914	2.27	1.54	1.15	– –	– –
65 TI	14	PDIP	Transceiver, Differential	SN65LBC180AN	845-2270	1.45	0.92	0.78	– –	– –
65 TI	14	SOIC	Low-Power Differential Line Driver And Receiver Pair	SN65LBC180DG4	SMD 123-4757	1.41	0.99	0.76	0.68	0.61
65 TI	8	SOIC	CMOS Differential Bus Transceiver With transient Voltage suppression.(IND TEMP)	SN65LBC184D	SMD 110-2927	2.61	1.78	1.32	– –	– –
65 TI	8	DIP	CMOS Differential Bus Transceiver With transient Voltage suppression.(IND TEMP)	SN65LBC184P	110-2931	2.61	1.78	1.32	– –	– –
65 TI	8	SOIC	Low Voltage, High-speed Differential Line Transceiver	SN65LVDM176D	SMD 110-5912	2.88	1.95	1.45	– –	– –
65 TI	8	VSSOP	Half-Duplex LVDM Transceiver	SN65LVDM176DGKG4	SMD 123-4933	2.28	1.59	1.23	1.09	0.99
65 TI	16	SOIC	Differential Line RCVR Quad RS-485	SN65LBC173AD	SMD 845-2245	2.25	1.72	1.28	– –	– –
65 TI	16	SOIC	Quadruple Low-Power Differential Line Receiver	SN65LBC173DG4	SMD 123-4876	2.17	1.54	1.16	1.06	0.94
65 TI	16	SOIC	Quadruple Low-Power Differential Line Receiver	SN65LBC175DG4	SMD 123-4737	1.46	1.18	0.99	0.85	0.74
65 TI	8	SOIC	Half-Duplex RS-485 Transceiver	SN65HVD485EDG4	SMD 134-4380	1.02	0.80	0.62	0.57	0.51
65 TI	8	MSOP	Half-Duplex RS-485 Transceiver	SN65HVD485EDGKG4	SMD 134-4381	1.59	1.25	0.98	0.91	0.80
70 NSC	48	LLP	270Mbps Serializer and Driver with LVDS Interface	LMH0070SQE	NEW! SMD 160-9169	24.83	22.35	20.32	18.63	15.96
74 TI	48	TSSOP	16 Bit 16 Noninverting 3-state Transceivers	SN74ABTE16245DGGR	SMD 154-4017 RL	6.18	5.51	4.95	4.50	4.13
74 TI	48	TSSOP	11-bit Noninverting Transceiver	SN74ABTE16246DGGR	SMD 154-4018 RL	7.99	7.19	6.54	5.99	5.14
74 ST	48	TSSOP	Log Transceiver, IEEE1284	74LVC161284TTR	SMD 128-8463 RL	1.80	1.32	1.07	0.90	0.88
74 ST	42	FBGA	16bit Dual Supply Bus Transceiver	74VCX1632245TBR	SMD 128-8495	3.19	2.13	1.73	1.54	1.36
74 IDT	20	SSOP	Octal Tri-State Transceiver With Resistor	IDT74FCT2245ATQG.	SMD 121-8003	2.45	1.28	0.97	– –	– –
74 TI	56	SSOP	18-Bit Bus Trandceiver With 3-State Output	SN74ABT16863DL	123-6205	6.42	4.58	3.46	2.86	2.55
74 TI	48	SOIC	16Bit 2.5V To 3.3V/3.3V To 5V Level Shifting Transceiver With 3-State O/P	SN74ALVC164245DL	SMD 128-7493	1.01	0.72	0.55	0.43	0.42
74 TI	6	SOT-23	Single-Bit Dual-Supply Bus Transceiver With Configurable Voltage Translation and 3-State Outputs	SN74AVC1T45DBVT	SMD 105-3519 RL	0.50	0.32	0.23	– –	– –
74 TI	6	SC-70	Single-Bit Dual-Supply Bus Transceiver With Configurable Voltage Translation and 3-State Outputs	SN74AVC1T45DCKT	SMD 105-3514 RL	0.47	0.31	0.30	– –	– –
74 TI	8	VSSOP	Dual-Bit Dual-Supply Bus Transceiver With Configurable Voltage Translation and 3-State Outputs	SN74AVC2T45DCUT	SMD 105-3505	0.66	0.43	0.31	– –	– –
74 TI	16	TSSOP	4-Bit Dual-Supply Bus Transceiver With Configurable Voltage Translation and 3-State Outputs	SN74AVC4T245PW	SMD 105-3499	0.58	0.39	0.37	– –	– –
74 TI	16	TSSOP	4-Bit Dual-Supply Bus Transceiver With Configurable Voltage Translation and 3-State Outputs	SN74AVC4T245PWT	SMD 105-3494	0.80	0.57	0.44	– –	– –
74 TI	24	TSSOP	8-Bit Dual-Supply Bus Transceiver With Configurable Voltage Translation and 3-State Outputs	SN74AVC8T245PW	SMD 105-3490	0.99	0.70	0.58	– –	– –
74 TI	48	SSOP	16-Bit Buffer/Driver With 3-State Outputs	SN74LVCH16240ADL	SMD 123-6411	0.97	0.64	0.49	0.39	0.36
74 TI	56	VFBGA	16-Bit Buffer/Driver With 3-State Outputs	SN74LVCH16244AZQLR	123-6412	1.81	1.20	0.92	0.75	0.70
74 TI	56	VFBGA	16-Bit Bus Transceiver And Register With 3-State Outputs	SN74LVCH16245AZQLR	SMD 123-6413 RL	1.28	0.91	0.68	0.56	0.51
74 TI	96	BGA	32-Bit Buffer/Driver With 3-State Output	SN74LVCH32244AZKER	SMD 123-6417	3.55	2.36	1.77	1.48	1.35
74 TI	48	SSOP	16-Bit Bus Transceiver And Register With 3-State Outputs	SN74LVCR16245ADL	SMD 123-6418	2.60	1.85	1.41	1.17	1.03
74 TI	24	SOIC	3.3V Embedded Test-Bus Controller, IEEE Std 1149.1 Tap Master, with 8Bit Generic Host Interface.	SN74LVT8980DW	SMD 121-6734	16.13	13.48	10.97	– –	– –
74 TI	48	TVSOP	8-Bit Universal Bus Transceiver And Two 1-Bit Bus Transceivers With 3-State Outputs	SN74VMEH22501ADGVR	SMD 123-6484 RL	4.55	3.10	2.31	2.19	2.05
74 TI	48	TSSOP	19-Bit IEEE 1284 Std Bus Interface	SN74LVCZ161284AGR	SMD 123-6422	1.57	1.06	0.76	0.71	0.66
74 TI	20	SOIC	Octal Buffer/Line Driver (3-State)	SN74LVCZ244ADW	SMD 123-6424	1.07	0.71	0.53	0.45	0.39
74 TI	20	TSSOP	Octal Buffer/Line Driver (3-State)	SN74LVCZ244APW	SMD 123-6425	0.59	0.51	0.43	0.35	0.27
82 INTS	44	PLCC	24 I/O CMOS Programmable Peripheral Interface	CS82C55A-5Z	NEW! SMD 156-2070	4.47	3.35	2.69	2.23	1.91
90 NSC	100	TQFP	8 LVDS to 48Bit Channel Link Deserializer	DS90CR484AVJD	NEW! SMD 160-9182	16.06	14.45	13.15	12.05	10.32
90 NSC	48	TQFP	5 to 43MHz DC Balanced 24Bit LVDS Serializer/Deserializer	DS90UR241QVS	NEW! SMD 158-9514	8.78	7.81	6.39	5.86	5.01
90 NSC	48	TQFP	5 to 35MHz DC Balanced 24Bit LVDS Serializer/Deserializer	DS90C241QVS	NEW! SMD 158-9515	8.60	7.65	6.26	5.74	4.92
90 NSC	64	TQFP	5 to 43MHz DC Balanced 24Bit LVDS Serializer/Deserializer	DS90UR124QVS	NEW! SMD 158-9516	8.78	7.81	6.39	5.86	5.01
90 NSC	56	TSSOP	1.848 Gbps CMOS Transmitter 28-Bit Converter to 4 Channel at 66MHz Clock	DS90CR285MTD/NOPB	NEW! SMD 156-4785	5.22	4.50	3.70	3.18	3.03
90 NSC	48	TQFP	5-43 MHz DC Balanced 24Bit LVDS Serializer & Deserializer	DS90UR241IVS/NOPB	NEW! SMD 156-4770	12.86	10.55	8.59	7.41	6.73
90 NSC	48	TQFP	5-35MHz DC-Balanced 24-Bit LVDS Serializer and Deserializer	DS90C241IVS	SMD 131-3857	12.43	9.41	7.37	6.05	5.66
90 NSC	48	TQFP	SERDES, 24Bit, 5-35MHZ	DS90C124IVS	SMD 131-3876	10.96	8.69	7.59	6.23	5.77
90 NSC	16	SOIC	Quad, CMOS LVDS Differential Line Driver	DS90C031TM	SMD 949-0108	2.32	1.38	1.10	– –	– –
90 NSC	16	SOIC	Quad, CMOS LVDS Differential Line Receiver	DS90C032TM	SMD 949-0094	2.32	1.38	1.10	– –	– –
90 NSC	48	TQFP	24 Bit LVDS Serializer and Deserializer	DS90C124IVS.	SMD 128-6734	7.62	6.53	5.31	4.56	4.15
90 NSC	64	TQFP	5-43 MHz DC-Balanced 24-Bit LVDS Serializer and Deserializer	DS90UR124IVS	SMD 131-3870	12.80	10.15	8.83	7.26	6.49
90 NSC	48	TQFP	SERDES, 24Bit, 5-43MHZ	DS90UR241IVS	SMD 131-3871	12.07	9.54	8.31	6.84	6.12
90 NSC	48	TSSOP	+3.3V Programmable LVDS Transmitter 18-Bit Flat Panel Display (FPD) Link-65 MHz	DS90C363BMT	SMD 818-1250	3.33	2.73	2.22	– –	– –
90 NSC	48	TSSOP	+3.3V Programmable LVDS Transmitter 18-Bit Flat Panel Display Link-85 MHz	DS90C365AMT	SMD 818-1268	5.38	4.50	3.65	– –	– –
90 NSC	56	TSSOP	+3.3V Programmable LVDS Transmitter 24-Bit Flat Panel Display (FPD) Link-65 MHz	DS90C383BMT	SMD 818-1276	5.47	4.45	3.62	– –	– –

RL Re-reeling available

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
90	NSC	56	TSSOP	+3.3V Programmable LVDS Transmitter 24-Bit Flat Panel Display Link-85 MHz	DS90C385AMT	SMD 818-1284	4.31	3.52	3.23	– –	– –
90	NSC	56	TSSOP	+3.3V Programmable LVDS Transmitter 24-Bit Flat Panel Display (FPD) Link -65 MHz.	DS90CF383BMT	SMD 823-8626	3.69	3.01	2.46	– –	– –
90	NSC	16	SOIC	2X2 800 Mbps LVDS Switch	DS90CP22M-8	SMD 128-6818	4.96	4.22	3.62	3.10	2.59
90	NSC	16	TSSOP	2X3 800 Mbps LVDS Switch	DS90CP22MT	SMD 128-6819	7.03	5.57	4.76	4.38	3.73
90	NSC	48	TSSOP	Data Strobe LVDS 21-Bit Cahnnel Link -66 MHz, rising edge.	DS90CR215MTD	SMD 446-5635	2.95	2.89	2.84	– –	– –
90	NSC	48	TSSOP	21 Bit LVDS Channel Link, 85 MHz.	DS90CR218AMTD.	SMD 128-6820	7.09	5.75	4.68	4.03	3.42
90	NSC	56	TSSOP	CMOS, 3.3V LVDS Receiver, 28-Bit channel link, 66MHz. (TSSOP).	DS90CR286AMTD	SMD 977-8233	8.20	5.77	4.64	– –	– –
90	NSC	56	TSSOP	CMOS, 3.3V LVDS Transmitter, 28-Bit channel link, 85MHz	DS90CR287MTD	SMD 121-5184	14.92	10.11	8.26	– –	– –
90	NSC	100	TQFP	48 Bit LVDS Channel Link, 133 MHz.	DS90CR485VS	SMD 128-6822	23.94	20.82	17.27	14.79	12.58
90	NSC	100	TQFP	48 Bit LVDS Channel Link, 133 MHz.	DS90CR486VS	SMD 128-6823	16.67	14.48	12.02	10.29	8.75
90	NSC	8	SOIC	LVDS to LVDS Buffer, 3.3V	DS90LV001TM.	SMD 128-6824	1.39	0.98	0.79	0.68	0.64
90	NSC	48	TQFP	4 Channel LVDS Repeater	DS90LV004TVS/NOPB	SMD 128-6736	7.02	6.24	5.12	4.19	3.63
90	NSC	5	SOT-23	3V LVDS Single High Speed Differential Driver	DS90LV011ATMF	SMD 820-6821	0.86	0.70	0.58	– –	– –
90	NSC	8	SOIC	LVDS Driver, 3V.	DS90LV017ATM.	SMD 128-6825	1.11	0.77	0.59	0.53	0.49
90	NSC	8	SOIC	CMOS, 3V LVDS Differential Line Receiver	DS90LV018ATM	SMD 948-5821	1.50	1.23	1.12	– –	– –
90	NSC	8	SOIC	CMOS, 3V LVDS Differential Line Receiver	DS90LV018ATM.	SMD 120-868	0.87	0.75	0.66	– –	– –
90	NSC	14	SOIC	Physical Transceiver, 155 MBS	DS90LV019TM.	SMD 128-6826	1.93	1.36	1.10	0.96	0.89
90	NSC	14	TSSOP	Driver/Receiver LVDS.	DS90LV019TMTC	SMD 822-1839	2.20	1.87	1.49	– –	– –
90	NSC	8	SOIC	CMOS, 3V LVDS Dual Differential Line Receiver	DS90LV028ATM	SMD 948-5830	2.48	1.68	1.38	– –	– –
90	NSC	16	TSSOP	Quad Receiver, LVDS, 400MBPS	DS90LV032ATMTC	SMD 121-1795	2.32	2.00	1.70	– –	– –
90	NSC	16	SOIC	CMOS, 3V LVDS Quad Differential Line Driver.	DS90LV047ATM	SMD 948-5848	2.55	1.98	1.65	– –	– –
90	NSC	16	SOIC	CMOS, 3V LVDS Quad Differential Line Receiver.	DS90LV048ATM	SMD 948-5856	2.75	2.21	1.73	– –	– –
90	NSC	28	TSSOP	1 to 10 LVDS Data/Clock Distributor With Failsafe	DS90LV110ATMT	SMD 100-8241	9.74	7.80	6.00	– –	– –
90	NSC	28	TSSOP	LVDS Buffer, 1:10	DS90LV110TMTC.	SMD 128-6827	6.48	5.22	4.37	3.76	3.35
90	NSC	32	LLP	4-Channel 800 Mbps LVDS Buffer/Repeater	DS90LV804TSQ	SMD 131-2541	3.68	3.06	2.62	2.23	1.92
91	NSC	32	LLP	125MHz Quad M-LVDS Transceiver	DS91M040TSQE	NEW SMD 160-9179	6.19	4.96	4.50	4.13	3.54
91	NSC	14	SOIC	MLDVS Driver and Receiver	DS91C180TMA	SMD 128-6829	2.20	1.68	1.29	– –	– –
91	NSC	8	SOIC	MLVDS Transceiver	DS91D176TMA	SMD 128-6830	2.89	2.20	1.67	– –	– –
92	NSC	8	SOIC	B/LVDS to B/LVDS Buffer, 3.3V	DS92001TMA	SMD 128-6832	2.02	1.63	1.35	1.03	0.96
92	NSC	24	TSSOP	6 Channel BLVDS to TTL Driver	DS92CK16TMTC	SMD 128-6834	4.65	4.05	3.45	2.85	2.25
92	NSC	8	SOIC	3.3V, 1-Bit LVDS Bus Transceiver	DS92LV010ATM	SMD 948-5791	2.73	1.62	1.29	– –	– –
92	NSC	44	LLP	4 Channel Bus LVDS Transceiver	DS92LV040ATLQA	SMD 149-5091	7.87	5.89	4.81	4.12	3.67
92	NSC	64	TQFP	9 Channel Bus LVDS Tranceiver	DS92LV090ATVEH..	SMD 128-6835	9.40	8.03	6.63	5.11	4.72
92	NSC	28	SSOP	16-40 MHz 10 Bit Bus LVDS Serializer	DS92LV1021AMSA	SMD 820-6830	7.95	5.39	4.40	– –	– –
92	NSC	28	SSOP	10-Bit wide Bus LVDS Serializer, transforms parallel CMOS/TTL data Bus into a Single serial data stream With embedded clock (SSOP).	DS92LV1021TMSA	SMD 977-8217	14.22	11.05	9.38	– –	– –
92	NSC	80	PQFP	16-Bit Bus LVDS Serializer/Deserializer - 25-80 MHz	DS92LV16TVHG	SMD 820-6848	9.47	8.06	6.44	– –	– –
201	MCHIP	8	PDIP	LIN Transceiver with Voltage Regulator.	MCP201-I/P	143-9385	1.34	0.76	0.67	– –	– –
201	MCHIP	8	SOIC	LIN Transceiver with Voltage Regulator.	MCP201-I/SN	SMD 143-9386	1.34	0.76	0.67	– –	– –
202	ST	16	SOIC	230 KBPS ESD Protected 5V Dual RS-232 Transceiver	ST202ECDR	NEW SMD 156-4302	0.93	0.74	0.65	0.53	0.46
222	ADI	18	PDIP	High Speed, +5V, 0.1 µF CMOS RS-232 Transceiver with 2 Drivers, 2 Receivers, 200kBPS Data Rate and a Shutdown Pin	ADM222ANZ	143-8714	1.74	1.20	1.17	– –	– –
232	ST	16	SOIC	RS-232 Dual Driver & Dual Receiver.	ST232CDR	NEW SMD 156-4303	0.74	0.59	0.52	0.43	0.36
232	ADI	16	PDIP	High-Speed, 5 V, 0.1 µF CMOS RS-232 Driver/Receiver.	ADM232AANZ	143-8715	1.19	0.97	0.95	– –	– –
233	ADI	20	PDIP	Low Power, +5V CMOS RS-232 120kBPS Transceiver with 2 Drivers & 2 Receivers. No External Capacitors Required	ADM233LANZ	143-8716	4.28	3.02	2.36	– –	– –
233	ADI	20	PDIP	Low Power, +5V CMOS RS-232 120kBPS Transceiver with 2 Drivers & 2 Receivers. No External Capacitors Required	ADM233LJNZ	143-8717	4.28	3.02	2.11	– –	– –
242	ADI	18	PDIP	High Speed, +5V, 0.1 µF CMOS RS-232 200kBPS Transceiver with 2 Drivers, 2 Receivers, Shutdown and Enable Pins	ADM242ANZ	143-8718	1.86	1.27	1.23	– –	– –
324	FCH	40	MLP	24-Bit Ultra-Low Power Serializer Deserializer Supporting Single and Dual Displays	FIN324CMLX	SMD 149-5469	2.00	1.45	1.33	1.14	1.07
340	NSC	48	LLP	2970Mbps Serializer and Driver with LVDS Interface	LMH0340SQE	NEW SMD 160-9171	46.49	41.84	38.04	34.87	29.90
483	ADI	8	SOIC	5 V Low Power, Slew-Rate Limited RS-485/RS-422 Transceiver	ADM483ARZ	SMD 143-8722	1.47	1.00	0.72	0.67	0.62
485	ST	8	SOIC	RS-485 / RS-422 Transceiver	ST485BDR	NEW SMD 156-4306	0.93	0.74	0.65	0.53	0.46
485	ST	8	SOIC	RS-485 / RS-422 Transceiver	ST485CDR	NEW SMD 156-4307	0.78	0.62	0.55	0.44	0.37
485	ADI	8	PDIP	+5 V Low Power EIA RS-485 Transceiver	ADM485ANZ	143-8723	1.49	1.07	1.03	0.98	0.90
485	ADI	8	PDIP	+5V High Speed, Ultra-Low Power EIA RS-485 Transceiver.	ADM1485JNZ	143-8713	2.13	1.46	1.05	0.98	0.90
1485	ADI	8	SOIC	CMOS, Low Power Differential Bus Transceiver (RS485)	ADM1485ARZ	SMD 942-6434	2.23	1.52	1.13	1.07	– –
1535	LTC	28	SOIC	Isolated RS485 Transceiver	LTC1535CSW#PBF	NEW SMD 160-9802	7.03	6.38	5.85	5.41	4.88
1535	LTC	28	SOIC	Isolated RS485 Transceiver	LTC1535ISW#PBF	NEW SMD 160-9803	10.08	8.58	7.33	6.72	5.77
1685	LTC	8	SOIC	52Mbps Precision Delay RS485 Fail-Safe Transceiver	LTC1685CS8#PBF	NEW SMD 160-9800	4.44	3.77	3.22	2.96	2.53
1685	LTC	8	SOIC	52Mbps Precision Delay RS485 Fail-Safe Transceiver	LTC1685IS8#PBF	NEW SMD 160-9801	5.13	4.37	3.72	3.42	2.94
1780	LTC	18	SOIC	Dual RS232 Transceiver	LT1780CSW#PBF	NEW SMD 160-9788	4.55	3.87	3.31	3.03	2.61
1780	LTC	18	SOIC	Dual RS232 Transceiver	LT1780ISW#PBF	NEW SMD 160-9789	5.74	4.88	4.18	3.83	3.28
2021	MCHIP	8	SOIC	3.3V LIN Transceiver with Voltage Regulator	MCP2021-330E/SN	NEW SMD 164-2482	1.23	0.93	0.73	– –	– –
2021	MCHIP	8	SOIC	5.0V LIN Transceiver with Voltage Regulator	MCP2021-500E/SN	NEW SMD 164-2483	1.23	0.93	0.73	– –	– –
2022	MCHIP	14	SOIC	3.3V LIN Transceiver with Voltage Regulator	MCP2022-330E/SL	NEW SMD 164-2485	1.39	1.05	0.83	– –	– –
2022	MCHIP	14	SOIC	5.0V LIN Transceiver with Voltage Regulator	MCP2022-500E/SL	NEW SMD 164-2486	1.36	1.03	0.81	– –	– –
2801	LTC	12	DFN	Single RS232 Half-Duplex Transceiver	LTC2801CDE#PBF	NEW SMD 160-9790	2.52	2.15	1.83	1.69	1.44
2801	LTC	12	DFN	Single RS232 Half-Duplex Transceiver	LTC2801IDE#PBF	NEW SMD 160-9791	3.01	2.55	2.18	2.00	1.73
2802	LTC	12	DFN	Single RS232 Half-Duplex Transceiver	LTC2802CDE#PBF	NEW SMD 160-9792	2.61	2.23	1.90	1.75	1.49
2802	LTC	12	DFN	Single RS232 Half-Duplex Transceiver	LTC2802IDE#PBF	NEW SMD 160-9793	3.16	2.69	2.30	2.11	1.81
2803	LTC	16	DFN	Dual RS232 Half-Duplex Transceiver	LTC2803CDHC#PBF	NEW SMD 160-9794	3.01	2.55	2.18	2.00	1.73
2803	LTC	16	DFN	Dual RS232 Half-Duplex Transceiver	LTC2803IDHC#PBF	NEW SMD 160-9795	3.55	3.02	2.60	2.38	2.04
2854	LTC	10	DFN	Single RS485/RS422 Half Duplex Transceiver	LTC2854CDD#PBF	NEW SMD 160-9796	2.51	2.13	1.83	1.68	1.44
2854	LTC	10	DFN	3.3V 20Mbps RS485/RS422 Transceivers with Termination.	LTC2854HDD#PBF	NEW SMD 160-9797	3.31	2.82	2.42	2.21	1.90
2854	LTC	10	DFN	3.3V 20Mbps RS485/RS422 Transceivers with Termination.	LTC2854IDD#PBF	NEW SMD 160-9799	2.86	2.57	2.20	1.94	1.73
3152	INTS	8	SOIC	5V Half Duplex, 115kbps Slew Rate Limited, IEC61000 ESD Protected with 2.4V Vod RS-485/RS-422 Transceiver	ISL3152EIBZ	SMD 136-0987	2.08	1.79	1.58	1.35	1.24
3172	INTS	8	SOIC	3.3V Half Duplex, 250kbps Slew Rate Limited, IEC61000 ESD Protected, RS-485/RS-422 Transceiver	ISL3172EIBZ	SMD 136-0988	2.08	1.79	1.58	1.35	1.24
3179	INTS	8	SOIC	RS-485 / RS-422 Transceiver	ISL3179EFBZ	SMD 143-9859	2.44	1.90	1.71	1.46	1.35
3179	INTS	8	SOIC	RS-485 / RS-422 Transceiver	ISL3179EIBZ	SMD 143-9860	1.87	1.45	1.31	1.07	1.02
3202	ADI	16	PDIP	High-Speed, 2-Channel RS232/V.28 Interface Devices	ADM3202ANZ	143-8719	1.81	1.28	1.12	– –	– –
3202	ADI	16	WSOIC	High-Speed, 2-Channel RS232/V.28 Interface Devices	ADM3202ARWZ	SMD 143-8720	1.55	1.05	1.04	– –	– –
3222	ADI	20	SSOP	High-Speed, +3.3V, 2-Channel RS232/V.28 Interface Device with 460kBPS Data Rate and Shutdown and Enable Pins	ADM3222ARSZ	SMD 143-8721	1.53	1.07	1.04	– –	– –
3237	TI	28	SSOP	RS232 1MBit/s 5 Drivers, 3 Receivers with Dual Charge Pump Circuit	MAX3237EIDB	SMD 154-4013	1.64	1.27	1.06	0.95	0.89
3695	NSC	8	SOIC	Differential Bus Transceiver (RS485/RS422)	DS3695AM	SMD 949-3409	1.19	0.98	0.90	0.88	0.82
3695	NSC	8	DIP	Differential Bus Transceiver (RS485/RS422)	DS3695N	948-7166	1.27	1.04	0.96	0.78	0.77
4308	NSC	49	MICRPO Bump	18-bit CPU Display Interface Master/Slave	LM4308GR	NEW SMD 160-9188	2.87	2.29	2.09	1.92	1.63
4308	NSC	40	LLP	18-bit CPU Display Interface Master/Slave	LM4308SQ	NEW SMD 160-9189	2.72	2.18	1.98	1.83	1.56
4309	LT	12	DFN	Level Shifting Hot Swappable 2-Wire Bus Buffer	LTC4309IDE#PBF	NEW SMD 162-8776	4.27	3.79	3.10	2.84	2.44
4309	LT	16	SSOP	Level Shifting Hot Swappable 2-Wire Bus Buffer	LTC4309IGN#PBF	NEW SMD 162-8777	4.27	3.79	3.10	2.84	2.44
6014	HT	18	DIP	Remote Control Encoder	HT6014-18DIPLF	142-0868	0.95	0.76	0.62	0.58	0.50
7306	ADI	24	PDIP	+5 V Powered RS-232/RS-422 Transceiver	AD7306JNZ	143-8409	10.21	7.82	6.63	– –	– –
8427	CIR	28	SOIC	96 kHz Stereo Digital Audio Interface Transceiver	CS8427-CSZ	NEW SMD 155-7472	8.88	7.89	6.46	5.92	5.07
9205	MAX	28	SSOP	10-Bit Bus LVDS Serializer System Clock 16MHz to 40MHz	MAX9205EAI+	NEW SMD 159-3395	6.95	5.40	4.87	4.06	3.48

RL Re-reeling available

Bus Transceivers - continued

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
9206	MAX	28	SSOP	10-Bit Bus LVDS Deserializer System Clock 16MHz to 45MHz	MAX9206EAI+	NEW SMD 159-3396	6.95	5.40	4.87	4.06	3.48
9217	MAX	48	TQFP	27-Bit DC-Balanced LVDS Serializer	MAX9217ECM+	NEW SMD 159-3397	9.86	7.67	6.90	5.74	4.94
9235	MAX	16	TQFN	10-Bit wide LVDS Serializer, transforms parallel LVCMOS/LVTTL data into a serial high-speed data stream	MAX9235ETE+	SMD 143-3224	4.09	2.77	2.05	2.00	1.94
65176	TI	8	SOIC	Differential Bus Transceiver	SN65176BD	SMD 958-9970	0.59	0.38	0.27	– –	– –
75176	NSC	8	NSOIC	Multipoint RS-485/422 Transceiver	DS75176BTM/NOPB	NEW SMD 156-4748	0.74	0.64	0.54	0.46	0.42

See our range of **Receivers & Line Drivers** on page 445

Commutateurs / Répétiteurs LVDS

National Semiconductor

New

515108

Data Rate (Gbps)	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+
0.55	64	TQFP	16 I/P to 8 O/P 550 MHz Analogue Multiplexer with Gain of 2	LMH6583YA	SMD 155-4781	88.14	70.76	57.64	48.06
1.5	40	LLP	1.5 Gbps 1:4 LVDS Repeater	DS10BR254TSQ	SMD 155-2432	6.44	5.73	5.16	4.29
3.125	16	LLP	3.125 Gbps LVDS 2x2 Crosspoint Switch.	DS25CP152TSQ	SMD 155-2433	7.43	6.60	5.95	4.95

RS232/422/485/CAN Transceivers

MAXIM

518724

Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+
RS232								
18	WSOIC	116 kbps RS232 Dual Transceiver	MAX563CWN+	SMD 159-3378	3.62	2.82	2.54	2.11
16	WSOIC	120kbps Dual RS-232 Transceiver	MAX202EEWE+	SMD 159-3331	3.55	2.77	2.48	2.07
20	SSOP	120kbps Dual RS232 Transceiver with AutoShutdown	MAX3218CAP+	SMD 159-3346	3.12	2.42	2.18	1.82
24	WPDIP	120 kbps 5 Channel RS-232 Transeceiver	MAX235CPG+	159-3334	10.76	8.36	7.53	6.27
28	TSSOP	120kbps 3Tx / 5Rx RS-232 Transceivers with AutoShutdown	MAX3243EUI+	SMD 159-3352	7.23	5.63	5.07	4.22
20	PDIP	200 kbps 2 Channel RS-232 Transeceiver	MAX233ACPP+G36	159-3332	7.06	5.50	4.95	4.12
20	PDIP	200 kbps 2 Channel RS-232 Transeceiver	MAX233AEPP+G36	159-3333	9.61	7.46	6.72	5.61
16	SSOP	250kbps Single RS232 Transceiver with AutoShutdown Plus	MAX3226EAE+	SMD 159-3348	2.67	2.07	1.86	1.55
16	TSSOP	250kbps Dual RS232 Transceiver	MAX3232CUE+	SMD 159-3350	2.72	2.12	1.91	1.59
16	TSSOP	250kbps Dual RS232 Transceiver	MAX3232ECUE+	SMD 159-3351	2.27	1.75	1.58	1.31
16	SSOP	1Mbps Single RS232 Transceiver with AutoShutdown Plus.	MAX3227ECAE+	SMD 159-3349	2.14	1.68	1.50	1.25
20	SSOP	1Mbps Dual RS232 Transceiver with AutoShutdown Plus	MAX3225EEAP+	SMD 159-3347	4.74	3.67	3.31	2.77
RS485								
8	SOIC	250kbps Half Duplex Single RS485 Transceiver	MAX3430CSA+	SMD 159-3358	3.64	2.83	2.55	2.12
8	SOIC	250kbps Half Duplex Single RS485 Transceiver	MAX3442EESA+	SMD 159-3359	3.55	2.77	2.48	2.07
8	SOIC	10Mbps Half Duplex Single RS485 Transceiver.	MAX3443EESA+	SMD 159-3360	4.43	3.45	3.10	2.59
RS485/422								
8	SOIC	115kbps Half Duplex Single RS485/422 Transceiver.	MAX3082ECSA+	SMD 159-3342	2.03	1.57	1.41	1.18
8	SOIC	250kbps Half Duplex Single RS485/422 Transceiver.	MAX3483CSA+	SMD 159-3361	2.50	1.95	1.75	1.47
24	PDIP	250kbps RS 485/422 Full Duplex Data Interface	MAX1490BCPG+	159-3312	16.42	12.77	11.51	9.58
24	PDIP	250kbps RS 485/422 Full Duplex Data Interface	MAX1490BEPG+	159-3313	21.35	16.60	14.94	12.45
8	SOIC	250kbps Full Duplex Single RS485/422 Transceiver	MAX3071EESA+	SMD 159-3337	2.82	2.19	1.97	1.65
8	SOIC	250kbps Full Duplex Single RS485/422 Transceiver	MAX3488ESA+	SMD 159-3363	3.14	2.44	2.19	1.83
8	SOIC	500kbps Half Duplex Single RS485/422 Transceiver.	MAX3075EESA+	SMD 159-3338	2.82	2.19	1.97	1.65
8	PDIP	500kbps RS 485/422 Half Duplex Transceiver	MAX13085EEPA+	159-3305	2.24	1.73	1.55	1.30
8	SOIC	500kbps RS 485/422 Half Duplex.	MAX13085EESA+	SMD 159-3306	2.19	1.71	1.53	1.28
8	SOIC	500kbps RS 485/422 Half Duplex Transceiver	MAX13485EESA+	SMD 159-3307	2.03	1.57	1.41	1.18
8	SOIC	500kbps RS 485/422 Half Duplex with AutoDirection Control	MAX13487EESA+	SMD 159-3308	2.03	1.57	1.41	1.18
8	SOIC	1Mbps Half Duplex Single RS485/422 Transceiver	MAX3088CSA+	SMD 159-3343	1.96	1.53	1.38	1.15
28	WSOIC	1Mbps Full Duplex Single RS485/422 Transceiver with 2500VRMS Isolation.	MAX3535ECWI+	SMD 159-3364	8.63	6.71	6.04	5.04
28	PDIP	2.5Mbps RS 485/422 Half Duplex Data Interface Transceiver	MAX1480AEPI+	159-3309	21.81	16.96	15.26	12.73
8	SOIC	2.5Mbps RS 485/422 Half Duplex Transceiver	MAX1487EESA+	SMD 159-3310	3.24	2.52	2.27	1.88
8	SOIC	2.5Mbps Half Duplex Single RS485/422 Transceiver.	MAX3486CSA+	SMD 159-3362	2.50	1.95	1.75	1.47
8	SOIC	2.5Mbps Half Duplex Single RS485/422 Transceiver	MAX481ESA+	SMD 159-3373	2.27	1.75	1.58	1.31
24	PDIP	2.5Mbps RS 485/422 Full Duplex Data Interface	MAX1490AEPG+	159-3311	21.81	16.96	15.26	12.73
14	SOIC	16Mbps Full Duplex Single RS485/422 Transceiver	MAX3076EESD+	SMD 159-3339	2.82	2.19	1.97	1.65
8	SOIC	16Mbps Full Duplex Single RS485/422 Transceiver	MAX3077EESA+	SMD 159-3340	2.82	2.19	1.97	1.65
RS485/422/232								
20	SSOP	10Mbps Programmable Half/Full Duplex RS485/422/232 Transceivers	MAX3160EEAP+	SMD 159-3344	13.28	10.33	9.29	7.75
CAN								
8	SOIC	2Mbps High Speed, Slope Control & Shutdown Mode CAN Transceiver	MAX3053ESA+	SMD 159-3335	2.44	1.90	1.71	1.43
8	SOIC	2Mbps High Speed, Slope Control, Standby & Shutdown Mode CAN Transceiver	MAX3057ASA+	SMD 159-3336	2.44	1.90	1.71	1.43
Clock/Data								
28	SSOP	10Mbps Triple Channel Software-Selectable Clock/Data Transceiver	MAX3170CAI+	SMD 159-3345	10.95	8.52	7.66	6.39
Line Driver								
8	SOIC	20kbps Local Interconnect Network Transceiver with ±60V Fault Protection	MAX13020ASA+	SMD 159-3303	1.11	0.87	0.78	0.64
ASK/FSK								
32	TQFN	450MHz Programmable ASK/FSK Transceiver	MAX7032ATJ+	SMD 159-3380	6.26	4.87	4.39	3.65

Clock Conditioning/Distribution, Counters & Dividers

Clock Buffer

New

National Semiconductor

508899

Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
NSC	8	LLP	75 MHz Dual Clock Buffer.	LMH2180SDE	NEW SMD 155-2440	1.84	1.59	1.28	1.07	0.91
NSC	8	LLP	75 MHz Dual Clock Buffer.	LMH2180YD	NEW SMD 155-2441	1.84	1.59	1.28	1.07	0.91

RL Re-reeling available

Farnell

Silicon Oscillator from 1kHz to 170MHz

This is a range of solid-state instant clocks, which can be set to output a broad range of frequencies using a single resistor, SPI or I2C interface.

- Switching power supply clock reference
- Portable and battery powered equipment
- PDAs
- Mobilel phones
- Mobilel phones
- Clocking switched capacitor filters

525310

Frequency MHz	Pins	Case Pkg	Supply Max Voltage (V)	Op Temp Range	Mftrs. List No	Order Code	Price Each 1+	10+	100+	250+	500+
20	10	MSOP	5.5	0°C to +70°C	LTC6902CMS#PBF	SMD 166-3748	4.03	3.12	2.50	2.08	1.86
68	8	MSOP	5.5	-40°C to +85°C	LTC6903CMS8#PBF	SMD 166-3749	3.58	2.77	2.21	1.84	1.66
68	8	MSOP	5.5	-40°C to +85°C	LTC6904CMS8#PBF	SMD 166-3750	3.85	2.97	2.38	1.99	1.78
1	6	TSOT-23	5.5	0°C to +70°C	LTC6906CS6#TRMPBF	SMD 166-3928	2.47	1.92	1.53	1.27	1.15
4	6	TSOT-23	3.6	0°C to +70°C	LTC6907CS6#TRMPBF	SMD 166-3929	2.47	1.92	1.53	1.27	1.15
20	5	TSOT-23	5.5	0°C to +70°C	LTC6900CS5#TRMPBF	SMD 166-3921	3.19	2.47	1.98	1.65	1.48
20	5	TSOT-23	5.5	-40°C to +85°C	LTC6900IS5#TRMPBF	SMD 166-3922	3.53	2.74	2.19	1.83	1.63
33	5	TSOT-23	5.5	0°C to +70°C	LTC1799CS5#TRMPBF	SMD 166-3863	3.19	2.47	1.98	1.65	1.48
33	5	TSOT-23	5.5	-40°C to +85°C	LTC1799IS5#TRMPBF	SMD 166-3864	3.53	2.74	2.19	1.83	1.63
80	5	TSOT-23	5.5	-40°C to +85°C	LTC6905CS5-80#TRMPBF	SMD 166-3927	2.29	1.77	1.42	1.18	1.06
133	5	TSOT-23	5.5	-40°C to +85°C	LTC6905CS5-133#TRMPBF	SMD 166-3924	2.29	1.77	1.42	1.18	1.06
170	5	TSOT-23	5.5	-40°C to +85°C	LTC6905CS5#TRMPBF	SMD 166-3923	3.22	2.50	2.00	1.67	1.49

FOR REAL TIME CLOCKS **SEE PAGE 253**

210419

Silicon Oscillators

Linear's solid-state "instant clocks" can be set to output a broad range of frequencies using a single resistor, or via an SPI or I2C interface.

- Long Term Stability 300ppm/kH
- Operating temperature range -40°C to 85°C

488549

Pins	Pkg	Program Method	Frequency Range	Frequency Accuracy %	Isupply mA	Timing Jitter %	Frequency Temp Drift ppm/°C	Comments	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
5	SOT-23	Resistor	1kHz - 20MHz	1.5	0.5	0.1	40	Low Power	LTC6900IS5#PBF	SMD 143-2104	3.35	1.93	1.58
10	MSOP	Resistor	5kHz - 20MHz	1.5	0.5	0.1	40	Multiphase, SSM	LTC6902IMS#PBF	SMD 143-2105	4.95	2.84	2.33
8	MSOP	Serial SPI	1kHz - 68MHz	1.1	3	0.4	10	SPI Interface	LTC6903IMS8#PBF	SMD 143-2106	4.01	2.32	1.88
8	MSOP	Serial I2C	1kHz - 68MHz	1.1	3	0.4	10	I2C Interface	LTC6904IMS8#PBF	SMD 143-2107	4.32	2.49	2.04
5	SOT-23	Resistor	17MHz - 170MHz	0.5	3	0.8	20		LTC6905IS5#PBF	SMD 143-2108	3.55	2.04	1.68
6	TSOT-23	Resistor	10kHz - 1MHz	0.25	0.012	0.03	50	Low Power	LTC6906IS6#PBF	SMD 143-2109	2.69	1.54	1.26
6	TSOT-23	Resistor	40kHz - 4MHz	0.25	0.04	0.12	50	Micropower	LTC6907IS6#PBF	SMD 143-2110	2.69	1.54	1.26
6	TSOT-23	Resistor	50kHz - 10MHz	1.5	0.4	0.1	40	SSM, Comp O/P (0°/180°)	LTC6908IS6-1#PBF	SMD 143-2111	3.63	2.10	1.71
6	TSOT-23	Resistor	50kHz - 10MHz	1.5	0.4	0.1	40	SSM Quad O/P (0°/90°)	LTC6908IS6-2#PBF	SMD 143-2112	3.63	2.10	1.71

SSM = Spread Spectrum Modulation

210427

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
4	ON	32	LQFP	Differential 2x2 Clock Switch	NB4L6254FAG	SMD 136-9724	14.960	11.220	9.620
115	NSC	10	MSOP	GSM Baseband 30MHz 2.8V Oscillator Buffer	LMV115MG	SMD 131-2823	0.600	0.470	0.360
346	NSC	24	LLP	3Gbps HD/SD SDI Reclocker with Dual Differential Outputs	LMH0346SQE/ NOPB	NEW SMD 168-5412	28.540	23.690	23.050
356	NSC	48	LLP	3 Gbps HD/SD SDI Reclocker with 4:1 Input Mux	LMH0356SQE	NEW SMD 167-9651	37.280	31.070	26.630
1000	NSC	48	LLP	1.6GHz Clock Buffer, Divider and Distributor 3 LVDS & 5 LVPECL O/P	LMK01000ISQE	NEW SMD 158-9517	12.010	10.660	8.730
1010	NSC	48	LLP	1.6GHz Clock Buffer, Divider and Distributor 8 LVDS O/P	LMK01010ISQE	NEW SMD 158-9518	12.010	10.660	8.730
1020	NSC	48	LLP	1.6GHz Clock Buffer, Divider and Distributor 8 LVPECL O/P	LMK01020ISQE	NEW SMD 158-9521	12.010	10.660	8.730
1372	MAX	8	SOP	32-Bit Binary Counter Clock with 64-Bit ID	DS1372U+	SMD 143-3229	1.830	1.340	1.140
1982	NSC	32	LLP	Multi-Rate Video Clock Generator with Genlock	LMH1982SQE/ NOPB	NEW SMD 168-5407	21.920	21.510	20.930
2000	NSC	48	LLP	Clock distributor, W/PLL	LMK02000ISQ	SMD 135-9429	20.300	16.230	13.530
2000	NSC	48	LLP	Clock conditioner with Integrated 1.52GHz VCO	LMK03001ISQ	SMD 135-9430	24.790	19.580	15.940
2180	NSC	8	LLP	75 MHz Dual Clock Buffer	LMH2180SDE	NEW SMD 155-2440	1.840	1.590	1.280
2180	NSC	8	LLP	75 MHz Dual Clock Buffer	LMH2180YD	NEW SMD 155-2441	1.840	1.590	1.280
3033	NSC	48	LLP	Precision Clock Conditioner with Integrated 2GHz VCO	LMK03033CISQE/ NOPB	NEW SMD 168-5413	29.860	23.230	19.000
3033	NSC	48	LLP	Precision Clock Conditioner with Integrated 2GHz VCO	LMK03033ISQE/ NOPB	NEW SMD 168-5414	31.190	24.250	19.840
3033	NSC	48	LLP	Clock Conditioner with Integrated VCO	LMK03033CISQ	NEW SMD 166-7424	21.330	16.600	13.580
4011	NSC	48	LLP	Precision Clock Conditioners Low-Noise Clock Jitter Cleaner	LMK04011BISQE	NEW SMD 167-9687	22.970	18.380	15.320
4031	NSC	48	LLP	Precision Clock Conditioners Low-Noise Clock Jitter Cleaner	LMK04031BISQE	NEW SMD 167-9688	22.970	18.380	15.320
4033	NSC	48	LLP	Precision Clock Conditioners Low-Noise Clock Jitter Cleaner	LMK04033BISQE	NEW SMD 167-9689	22.970	18.380	15.320
4510	TI	16	PDIP	CMOS Presettable BCD Up/Down Counter	CD4510BE	NEW 156-4958	0.270	0.220	0.194
7060	LSI	18	DIP	32-Bit Binary Up Counter With Latch, Multiplexer and Tri-state Drivers	LS7060	121-9011	17.950	14.050	11.720
7166	LSI	20	DIP	24-Bit Multi-mode Counter	LS7166	121-9014	16.060	12.140	10.150
22800	CYP	8	SOIC	Multi-function clock generator with PLL VCXO technology	CY22800FXC	SMD 132-1697	1.660	1.340	1.140

CY36800 InstaClock Universal Programmable Clock Generator Development Kit



The CY36800 InstaClock Universal Programmable Clock Generator Development Kit contains the programming board with a USB cable, and 3 samples each of the CY22800 and CY22801 devices. When using the CY22800 and InstaClock software, users can select from a list of over 100+ different predefined configurations of commonly used frequencies in today's designs. The CY22801 enables users to generate custom clock configurations that are not supported by the CY22800. The CyberClocks software tool allows users to specify the XIN/CLKIN frequency, crystal load capacitance, and output frequencies for the CY22801.Both the CY22800 and CY22801 devices are programmed through the same programming board included in this kit. The selected configuration is then downloaded via USB to the programmer in a matter of moments.

496745

Mftrs. List No.	Order Code	Price Each
CY36800	147-2491	25.27

Communications - Radio Frequency ICs

Octal LNA/VGA/AAF/ADC and Crosspoint Switch

The AD9271 contains eight channels of a variable gain amplifier (VGA) with low noise preamplifier (LNA); an antialiasing filter (AAF); and a 12-bit, 10 MSPS to 50 MSPS analog-to-digital converter (ADC).

Communications - Radio Frequency ICs - continued

Octal LNA/VGA/AAF/ADC and Crosspoint Switch - continued

It makes portable ultrasound increasingly realisable by combining eight channels of the receive signal chain applicable to both pulsed- and continuous-wave Doppler systems.

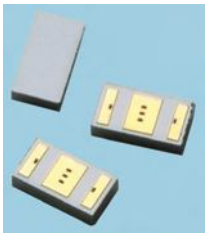
492361

Pins/Pkg	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
100/TQFP	AD9271BSVZ-25	SMD 143-8866●	48.81	40.84	34.99

Vixen Low Noise Amplifiers

AVAGO TECHNOLOGIES

New



WaferCap chipscale packaging technology gives all the performance of a ceramic package with the size and convenience of plastic packages. With a footprint of 1.0mm x 0.5mm and broadband operation upto 26GHz this family of products will revolutionise designs giving higher performance in a smaller space.

Bias Condition Specifications @ 50 Ohms match

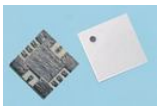
Mftrs List No.	Frequency	Test Frequency	Gain	Noise Figure	P1dB	Output IP3
VMMK-1218-BLKG	0.5 - 18GHz	10GHz	9dB	0.71dB	+12dBm	+22dBm
VMMK-1225-BLKG	0.5 - 26GHz	12GHz	11dB	0.87dB	+8dBm	+23dBm
VMMK-2103-BLKG	0.5 - 6GHz	3GHz	14dB	2.4dB	–	+23dBm
VMMK-2203-BLKG	1 - 10GHz	5GHz	16dB	2.4dB	–	+15dBm
VMMK-2303-BLKG	0.5 - 6.0GHz	6GHz	13dB	2.2dB	+10dBm	+24dBm
VMMK-2403-BLKG	2 - 4GHz	3GHz	15dB	2.5dB	+20dBm	+32dBm
VMMK-2503-BLKG	1 - 12GHz	3GHz	14dB	3.7dB	+17dBm	+28dBm

523823

Package	Description	Mftrs.List No.	Order Code	Price Each 1+	10+	100+	250+	500+
LLP	E-pHEMT Amplifier	VMMK-1218-BLKG	SMD 165-0249●	1.27	0.92	0.78	0.72	0.67
LLP	E-pHEMT Amplifier	VMMK-1225-BLKG	SMD 165-0250●	1.40	1.02	0.87	0.81	0.75
LLP	E-pHEMT Amplifier	VMMK-2103-BLKG	SMD 165-0251●	1.50	1.09	0.93	0.86	0.81
LLP	E-pHEMT Amplifier	VMMK-2203-BLKG	SMD 165-0252●	1.50	1.09	0.93	0.86	0.81
LLP	E-pHEMT Amplifier	VMMK-2303-BLKG	SMD 165-0253●	1.50	1.09	0.93	0.86	0.81
LLP	E-pHEMT Amplifier	VMMK-2403-BLKG	SMD 165-0254●	1.50	1.09	0.93	0.86	0.81
LLP	E-pHEMT Amplifier	VMMK-2503-BLKG	SMD 165-0255●	1.50	1.09	0.93	0.86	0.81

Low Noise MMIC Amplifiers

AVAGO TECHNOLOGIES



AMMP-6232 - 18 to 32 GHz GaAs LNA - an easy-to-use broadband, high gain, high linearity Low Noise Amplifier. The wide band and un-conditionally stable performance makes this MMIC ideal as a primary or sub-sequential low noise block or a transmitter driver. It has 4 gain stages and requires a 4V, 138mA power supply for optimal performance. This MMIC is fully SMT compatible with backside grounding and I/Os.

Features:
- Surface Mount Package, 5.0 x 5.0 x 1.25 mm
- Single Power Supply Pin
- Unconditionally Stable
- 50Ω Input and Output Match

Specifications (Vdd= 4.0V, Id= 138mA):
- RF Frequencies: 18 - 32 GHz
- High Output IP3: 29dBm
- High Small-Signal Gain: 23dB
- Typical Noise Figure: 3dB

Mftrs. List No.		Order Code	Price Each
AMMP-6232-BLKG	18 to 32 GHz GaAs High Linearity LNA	SMD 134-7198▲	27.88



MGA-645T6 - a GaAs LNA with Bypass/Shutdown Mode. It has low noise and high linearity. The Bypass/Shutdown mode enables the LNA to be bypassed during high input signal power and reduce current consumption. Its compact footprint and low profile coupled with low noise, high linearity make the MGA-645T6 ideal as an amplifier for mobile receivers in the WiMax, WLAN(802.11b/g), WiBro and DMB applications.

Features:
- 2.0 x 1.3 x 0.4 mm3 6-lead Ultra Thin Package
- Low bias current
- Simple matching network
- 1.5 GHz - 3 GHz operating range
- Adjustable bias current
- Low Noise Figure
- Bypass/Shutdown Mode using a single pin
- Low current consumption in Bypass Mode, ≤100uA
- Fully matched to 50 Ohm in Bypass Mode
- High Linearity (LNA and Bypass Mode)
- Low profile package

Typical Performance (2.4 GHz; 3V, 7mA)
- 15 dB Gain
- 1.1 dB Noise Figure with 9dB Input Return Loss
- +7 dBm Input IP3
- -5 dBm Input Power at 1dB gain compression
- 4.5 dB Insertion Loss in Bypass Mode
- 16dBm IIP3 in Bypass Mode (Pin = -20dBm)

Mftrs. List No.		Order Code	Price Each
MGA-645T6-BLKG	GaAs LNA with Bypass/Shutdown Mode	SMD 134-7882●	0.85



MGA-71543 - LNA with Bypass Switch - an easy-to-use GaAs MMIC designed for receiver systems. It features a minimum noise figure of 0.8 dB and 16 dB available gain from a single stage, feedback FET amplifier. The input and output are partially matched, requiring only a simple series/shunt inductor match to achieve low noise figure and VSWR into 50Ω.The MGA-71543 offers an integrated solution of LNA with adjustable IIP3 where the IIP3 can be fixed to a desired current level for the receiver's linearity requirements. The LNA has a bypass switch function, which provides low insertion loss at zero current. The bypass mode also boosts dynamic range when high level signal is being received.

Features:
- Operating frequency: 0.1 GHz ~ 6.0 GHz
- Noise figure: 0.8 dB (NFmin)
- Gain: 16 dB
- Average Idd = 2mA in CDMA handset
- Bypass switch on chip Loss = -5.6 dB (Id ≤ 5 µA), IIP3 = +35 dBm
- Adjustable input IP3: 0 to +9 dBm
- 2.7 V to 4.2V operation
- SOT-343/4-lead SC70 housing

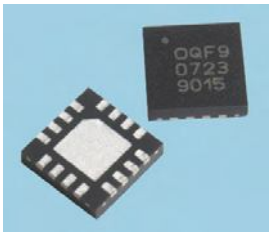
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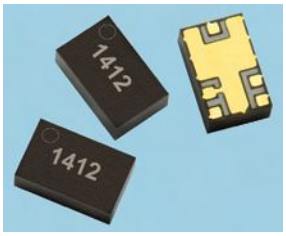
Mftrs. List No.		Order Code	Price Each
MGA-71543-BLKG	GaAs MMIC LNA with Bypass Switch	SMD 134-7205●	1.34

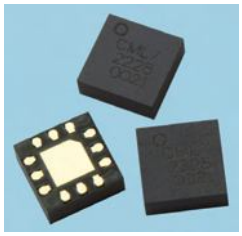
Low Noise Amplifiers

AVAGO TECHNOLOGIES

New







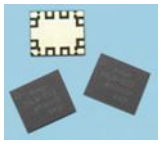
RL Re-reeling available

Mftrs List No.	Specifications	Gain	Noise Figure	Output IP3	Output Power @ 1dB Gain Comp.	Input Return Loss
MGA-12516-BLKG	1.95GHz; 4V, 50mA per channel (typ)	24dB	0.58dB	33.3 dBm	18.4 dBm	13.5 dB
MGA-13516-BLKG	900MHz ; Q1 : 5V, 45mA (typ) Q2 : 5V, 110mA	31.8dB	0.66dB	38 dBm	23.5 dBm	13 dB
MGA-14516-BLKG	1.95GHz ; Q1 : 5V, 45mA (typ) Q2 : 5V, 110mA	31.7dB	0.68dB	38 dBm	23.5 dBm	13 dB
ALM-1412-BLKG.	1.575 GHz, Vdd = 2.85 V, Idd = 8.0 mA	13.5dB	0.82dB	–	–	–
ALM-2812-BLKG	2.45 GHz, 3.3V 15mA / 5.5 GHz, 3.3V 23.4mA	16.7dB / 23.2dB	0.8 dB / 1.4 dB	–	–	–

523708

Pins/Pkg	Description	Mftrs.List No.	Order Code	Price Each 1+	10+	100+	250+	500+
16/SLP	High Gain, Matched-Pair Dual, Very Low Noise Amplifier	MGA-12516-BLKG	SMD 164-5976●	3.86	2.81	2.38	2.06	1.96
16/QFN	High Gain, High Linearity Active Bias Low Noise Amplifier	MGA-13516-BLKG	SMD 164-5977●	3.86	2.81	2.38	2.06	1.96
16/QFN	High Gain, High Linearity Active Bias Low Noise Amplifier	MGA-14516-BLKG	SMD 164-5978●	3.86	2.81	2.38	2.06	1.96
12/MCOB	1.575 GHz GPS Low Noise Amplifier with Integrated Filter	ALM-1412-BLKG.	SMD 164-5979●	1.64	1.19	1.01	0.88	0.84
12/MCOB	Dual-Band (2.4-2.5GHz) & (4.9-6GHz) WLAN Low-Noise Amplifier	ALM-2812-BLKG	SMD 164-5980●	1.20	0.88	0.75	0.64	0.61

ALM-1222/1322 RF Amplifier Modules

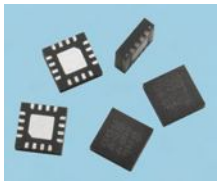


The ALM-1222/1322 are low noise , high gain, low current, 50 OHM matched balanced amplifier modules operating in the 1.8 to 2.2GHz frequency range. All matching components are fully integrated within the module and the 50 OHM RF I/O pins are internally AC-coupled, making the modules easy to use with external DC supply bypass capacitors only.

464825

Mftrs. List No.	Typ Bias V/mA	Gain (dB) @ 2GHz	P1dB/dBm @ 2GHz	OIP3 (dBm) @ 2GHz	NF (dB) @ 2GHz	Pin/Pkg	Order Code	Price Each 1+	10+	100+
ALM-1222-BLKG	5/280	31	27.5	43.7	0.62	22/MCOB	SMD 134-7191●	12.59	10.28	8.71
ALM-1322-BLKG	5/100	29.9	17	35.6	0.57	22/MCOB	SMD 134-7192●	12.79	10.45	8.89

1/2 Watt High Linearity Amplifiers

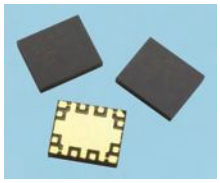


Mftrs List No.	Specifications	Gain	Noise Figure	Output IP3	Output Power @ 1dB Gain Comp.	PAE @ P1dB
MGA-30116-BLKG	900MHz; 5V 202.8mA (typ)	17.0dB	2.0dB	44.1 dBm	27.7 dBm	47.0%
MGA-30216-BLKG	2GHz; 5V, 206mA (typ)	14.2dB	2.8dB	45.3 dBm	29dBm	48.9%
MGA-30316-BLKG	3.5GHz; 5V, 198mA (typ)	12.8dB	2.7dB	44.4 dBm	28.5 dBm	51.3%

521684

Pins/Pkg	Description	Mftrs.List No.	Order Code	Price Each 1+	10+	100+	250+	500+
16/QFN	750MHz - 1GHz 1/2 Watt High Linearity Amplifier	MGA-30116-BLKG	SMD 164-5966●	3.15	2.30	1.95	1.68	1.60
16/QFN	1.7 - 2.7GHz 1/2 Watt High Linearity Amplifier	MGA-30216-BLKG	SMD 164-5967●	3.15	2.30	1.95	1.68	1.60
16/QFN	3.3 - 3.9GHz 1/2 Wtt High Linearity Amplifier	MGA-30316-BLKG	SMD 164-5968●	3.15	2.30	1.95	1.68	1.60

1 Watt High Linearity Amplifiers

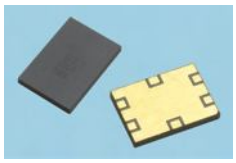


Mftrs List No.	Specifications	Gain	Noise Figure	Output IP3	Output Power @ 1dB Gain Comp.	PAE @ P1dB
ALM-31122-BLKG	900 MHz; 5V, 394mA (typ)	15.6dB	2.0dB	47.6 dBm	31.6 dBm	52.5%
ALM-31222-BLKG	2GHz; 5V, 415mA (typ)	14.9dB	2.7dB	47.9 dBm	31.5 dBm	52.6%
ALM-31322-BLKG	3.5GHz; 5V, 413mA (typ)	13.2dB	2.8dB	47.7 dBm	31 dBm	51.5%

523703

Pins/Pkg	Description	Mftrs.List No.	Order Code	Price Each 1+	10+	100+	250+	500+
22/MCOB	0.7 - 1GHz 1-Watt High Linearity Amplifier	ALM-31122-BLKG	SMD 164-5969●	3.94	2.87	2.43	2.10	2.00
22/MCOB	1.7 - 2.7GHz 1-Watt High Linearity Amplifier	ALM-31222-BLKG	SMD 164-5970●	3.94	2.87	2.43	2.10	2.00
22/MCOB	3.3 - 3.9GHz 1-Watt High Linearity Amplifier	ALM-31322-BLKG	SMD 164-5971●	3.94	2.87	2.43	2.10	2.00

2 Watt High Linearity Amplifiers



Mftrs List No.	Specifications	Gain	Noise Figure	Output IP3	Output Power @ 1dB Gain Comp.	PAE @ P1dB
ALM-32120-BLKG	900MHz; 5V, 800mA (typ)	14.3dB	2.5dB	52.0 dBm	34.4 dBm	50.3%
ALM-32220-BLKG	2GHz; 5V, 800mA (typ)	14.8dB	3.5dB	50.0 dBm	34.4 dBm	47.5%
ALM-32320-BLKG	3.5GHz; 5V, 810mA (typ)	12.6dB	2.5dB	51.0 dBm	34.5 dBm	46.6%

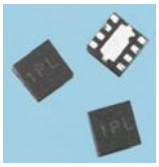
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Pins/Pkg	Description	Mftrs.List No.	Order Code	Price Each 1+	10+	100+	250+	500+
20/MCOB	0.7 - 1GHz 2-Watt High Linearity Amplifier	ALM-32120-BLKG	SMD 164-5972●	7.67	5.58	4.72	4.09	3.89
20/MCOB	1.7 - 2.7GHz 2-Watt High Linearity Amplifier	ALM-32220-BLKG	SMD 164-5974●	7.55	5.50	4.65	4.03	3.83
20/MCOB	3.3 - 3.9GHz 2-Watt High Linearity Amplifier	ALM-32320-BLKG	SMD 164-5975●	7.67	5.58	4.72	4.09	3.89

RL Re-reeling available

Communications - Radio Frequency ICs - continued

MGA-63xP8 Low Noise Amplifiers



The MGA-63xP8 family consists of easy to use low noise amplifiers with built-in active bias and current adjustable gain features. It offers superior linearity while maintaining good return loss and isolation.
The built-in active bias circuit takes care of the Vgs spread, requiring only one external resistor to set the bias current and gain over a wide dynamic range. The current adjustable gain feature enables customers to tune the LNA to the desired gain.

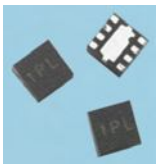
This series is housed in a 8 pin Thin, Small leadless package (TSLP) with the package bottom ground pad providing heat dissipation for enhanced reliability.

The MGA-631P8 is designed for optimum use from 400MHz to 1.5GHz
The MGA-632P8 is designed for optimum use from 1.4GHz to 3GHz

464837

Mftrs. List No.	Specified @	Gain (dB)	O/P (dB) @ 1dBc	OIP3 (dBm)	NF (dB)	Pin/Pkg	Order Code	Price Each 1+	10+	100+
MGA-631P8-BLKG	900MHz(4V, 60mA)	17.5	18	33.1	0.53	8/TSLP	SMD 134-7203●	2.20	1.84	1.61
MGA-632P8-BLKG	1.95GHz(4V, 60mA)	17.6	19.2	34.8	0.62	8/TSLP	SMD 134-7204●	2.20	1.80	1.52

GaAs Medium Power Amplifiers



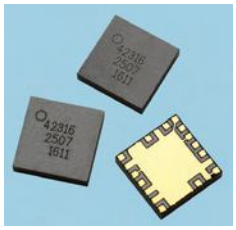
These Power Amplifiers are designed for wireless applications with best in class PAE (PA Efficiency) achieved through proprietary GaAs Enhancement-mode pHEMPT process.

The compact footprint, low profile (2.0x2.0x0.75mm) and thermal efficiency make these devices ideal as power amplifiers in space stringent applications.

464848

Mftrs. List No.	Freq. range (GHz)	Test Freq. (GHz)	Vdd (V)	Idsat (mA)	PAE (%)	Gain (dB)	PSAT (dBm)	OIP3 (dBm)	Pin/ Pkg	Order Code	Price Each 1+	10+	100+
MGA-412P8-BLKG	2.4 - 2.5	2.4	3.3	95	NA	25.5	25.3	38	8/LPCC	SMD 134-7200●	0.86	0.70	0.59
MGA-425P8-BLK	2 - 10	5.25	3.3	65	47	16	20.3	32.9	8/LPCC	SMD 134-7201●	2.20	1.81	1.51

Linear Wireless Data Power Amplifiers

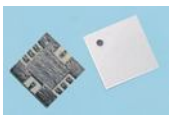


Mftrs List No.	Specifications	Gain	P1dB	Detector range	Switchable Gain Attenuation	Shutdown Current
ALM-42216-BLKG	2.5GHz; 3.3V, Iqtotal=240 mA (typ)	30dB	30dBm	10dB (0.5V - 2.5V)	20dB	< 20uA
ALM-42316-BLKG	3.5GHz; 3.3V, Iqtotal=240 mA (typ)	30dB	30.5dBm	10dB (0.3V - 2.0V)	18dB	< 20uA

523711

Package	Description	Mftrs.List No.	Order Code	Price Each 1+	10+	100+	250+	500+
MCOB	Linear Wireless Data Power Amplifier for 2.3 - 2.7GHz Operation	ALM-42216-BLKG	SMD 164-5981●	3.28	2.39	2.02	1.75	1.66
MCOB	Linear Wireless Data Power Amplifier for 3.3 - 3.8GHz Operation	ALM-42316-BLKG	SMD 164-5982●	3.42	2.49	2.10	1.83	1.73

6-20GHz Amplifiers



These easy to use amplifiers have integrated 50 OHM I/O match, DC blocking, self-bias and choke, eliminating tuning and assembly processes generally required by hybrid or discrete-FET based amplifiers.

The AMMP-6220 is a high-gain, Low Noise Amplifier ideal for gain stages facilitated by the broad and unconditionally stable performance.
The AMMP-5618 is a high power, medium gain general purpose amplifier, usable as a LO buffer or transmit driver.

464869

Mftrs. List No.	Freq. (GHz)	Bias Condition (V @ mA)	NF (dB)	Gain (dB)	P1dB (dBm)	OIP3 (dBm)	PSAT (dBm)	Pin/ Pkg	Order Code	Price Each 1+	10+	100+
AMMP-6220-BLK	6 - 20	3V @ 55	2.5	22	10	21	25.3	8/SM	SMD 134-7197▲	40.08	34.08	29.71
AMMP-5618-BLK	6 - 20	5V @ 107	4.4	13	19.5	26	20.3	8/SM	SMD 134-7193▲	36.42	31.01	26.96

RF General Purpose Amplifiers

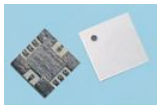
General purpose amplifiers are ideal for applications where signal gain is necessary. These GPAs combine the right level of gain, noise and power consumption specifications to meet the industry's most demanding applications. From general small-signal applications found in consumer and commercial to industrial and military applications.

509409

Mftrs. List No.	Pkg/Pins	Frequency Band (MHz)	Power Gain (Typ)	P1dB (Typ)	Output Power (Typ)	3rd Order Intercept (Typ)	Noise Figure (Typ)	Order Code	Price Each 1+	10+	100+
MMG3007NT1	SOT-89/4	0 to 6000	19dB @ 900MHz	16dBm	16dBm @ 900MHz	30dBm	3.8dB @ 900MHz	SMD 157-8038●	1.58	1.19	1.02
MMG3001NT1	SOT-89/4	40 to 3600	20dB @ 900MHz	18.5dBm	18.5dBm @ 900MHz	32dBm	4.1dB @ 900MHz	SMD 157-8032●	1.68	1.26	1.08
MMG3002NT1	SOT-89/4	40 to 3600	20dB @ 900MHz	21dBm	21dBm @ 900MHz	37.5dBm	4.2dB @ 900MHz	SMD 157-8033●	2.44	1.84	1.58
MMG3003NT1	SOT-89/4	40 to 3600	20dB @ 900MHz	24dBm	24dBm @ 900MHz	40.5dBm	4dB @ 900MHz	SMD 157-8034●	4.28	3.20	2.76
MBC13916NT1	SOT-343/4	100 to 2500	19dB @ 900Mhz	–	2.5dBm @ 900MHz	13dBm	0.9dB @ 900MHz	SMD 157-8031●	0.34	0.26	0.22
MMH3111NT1	SOT-89/4	250 to 4000	12dB @ 900MHz	22.5dBm	22.5dBm @ 900MHz	44dBm	3.2dB @ 900MHz	SMD 157-8039●	3.15	2.36	1.95
MMG3004NT1	PQFN/16	400 to 2200	16dB @ 2140MHz	27dBm	27dBm @ 2140MHz	44dBm	3.4dB @ 2140MHz	SMD 157-8035●	8.94	6.71	5.59
MMG3006NT1	PQFN/16	400 to 2400	13dB @ 2400MHz	33dBm	33dBm @ 2400MHz	49dBm	5dB @ 2400MHz	SMD 157-8037●	15.05	11.29	9.40
MMG3005NT1	PQFN/16	800 to 2200	15dB @ 2140MHz	30dBm	30dBm @ 2140MHz	47dBm	5dB @ 2140MHz	SMD 157-8036●	11.07	8.30	6.92

RL Re-reeling available

Frequency Multipliers



The AMMP-6120 & 6130 are easy to use frequency multipliers for commercial communication systems. The MMIC is fabricated using PHEMT technology. The backside of this package part is both RF and DC ground. This helps simplify the assembly process and reduces assembly related performance variations. Integration matches input/output to 50 OHM, has input and output DC blocking capacitors and bias network.

The AMMP-6130 is a high gain, narrowband doubler. The MMIC takes a 15GHz input signal, passes it through a harmonic frequency multiplier (x2) and follows it through three stages of power amplification

Agilent's AMMP-6120 is a frequency multiplier (x2). The MMIC takes a 4 - 12GHz input signal and doubles it to 8 - 24 GHz. It has integrated amplification, matching, and harmonic suppression.

464871

Mftrs. List No.	Input Freq. (GHz)	Output Freq (GHz)	Pout (dBm)	Fo (dBc)	Pin/ Pkg	Order Code	Price Each 1+	10+	100+
AMMP-6120-BLK	4-12	8-24	16	25	8/SM	SMD 134-7194▲	20.01	16.39	13.86
AMMP-6130-BLKG	15	30	21	60	8/SM	SMD 134-7195▲	21.36	17.48	14.80

RF803 Series Encoder & Decoder IC's

New

The RF803 series are encoder and decoder devices. When combined with a Radio transmitter/receiver they may be used to create a remote control system with up to 3 I/O lines. The decoder IC incorporates an 'easy learn' pairing procedure to create a relationship between encoder and decoder. RF800 Series ICs perform all the necessary data manipulation and encryption for an optimum range reliable radio link whilst providing a simple user interface. In addition all RF800 series chipsets compatible with the RF Solutions range of remote control transmitter or receiver meaning that custom designs using any RF800 part can be used with an off the shelf counterpart.

Features:

- 3 digital I/O
- Serial Data output
- Connects directly to RF Modules
- Easy Enc / Dec Pairing Function
- Performs all Data Encryption for Reliable Operation
- Fast Activation / Deactivation Time
- Compatible with FireFly, FireBlade and 205 series Transmitters
- Sleep mode, for battery saving
- One to many / many to one relationship

524562

List No.	Description	Order Code	Price Each 1+	10+	100+
RF803E	RF803E Encoder IC	165-5508●	1.08	1.08	1.08
RF803E-SO	RF803E Encoder IC	SMD 165-5509●	0.96	0.96	0.96
RF803D	RF803D Deocder IC	165-5510●	1.33	1.33	1.33
RF803D-SO	RF803D Deocder IC	SMD 165-5511●	1.33	1.33	1.33

RF Encoder Chipset



The RF Solutions RF600E and RF600D are encoder and decoder I/Cs. They have been designed to achieve the maximum possible range from any radio/infrared transmitter receiver set.

Unlike other encoder/decoder devices, the RF600E and RF600D provide an unprecedented level of security which prevents copying or grabbing, whilst also obtaining the optimum range from the transmitter and receiver.

The devices are very easy to use and can be inserted directly into a circuit. The RF600D has an Easy Learn feature enabling it to learn up to 50 unique transmitter encoders.

These devices enable a simple but secure remote telemetry application whilst obtaining the maximum range from the radio set.

- Dual in line or surface mount packages
- Highly secure Keeloq protocol
- RF encoder and decoder I/Cs
- Simple to use, stand alone operation
- Achieves maximum range from RF modules
- 1-4 switch options (15 states)
- Decoder Digital and Serial outputs
- LED indication of transmission
- Easy Learn feature allows up to 50 transmitters to be learned
- Directly compatible with Keeloq keyfob encoders

RF600D Decoder

- 4.5V-5.5V operation
- 4 digital outputs (15 states)
- Asynchronous serial interface
- Low transmitter battery output

RF600E Encoder

- 2.0-6.6V operation
- Automatic battery level monitor
- Manchester encoding protocol

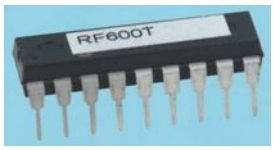
The Decoder I/C RF600D may be used with transmitter keyfobs 110C1-433A (Order Code 167-6041), 110C2-433A (Order Code 167-6043) and 110C3-433A (Order Code 167-6044)

248273

Mftrs. List No.	Order Code	Price Each 1+	5+	10+	25+
Dual In Line					
RF600E	120-0972	3.47	3.44	3.31	3.12
RF600D	120-0973	5.39	5.18	4.90	4.66
Surface Mount					
RF600E-SO	SMD 873-3805●	2.60	2.48	2.38	2.26
RF600D-SO	SMD 873-3813●	4.88	4.64	4.45	4.25

RF Serial Communications Controller

RF600T



The RF600T provides a simple interface between TTL level asynchronous serial data sources and standard RF modules (transceiver, transmitter or receiver). The device allows for either broadcast or addressed point to point modes of operation and is simple to use with minimal interface required. Data packet generation is automatically performed, along with 'Manchester' encoding and CRC based error checking. In addition, in addressed mode, automatic retries ensure that the host is informed of successful or failed data packet delivery. The RF600T uses control lines to handle the flow of data to and from the host, and incorporates a 190-byte data buffer.

- Data communications controller
- Enables direct Serial Data In/Out
- Direct Microcontroller interface
- Addressed Mode with Acknowledge
- Broadcast mode
- Automatic retry
- Stand alone operation
- Achieves optimum range from RF modules
- Flow control option
- Two telemetry I/O lines (addressed mode only)
- Compatible with most RF modules

Hardware Features

- 3.0-5.5V operation (2.0-5.5V optional)
- 190 byte internal buffer
- 'Manchester' modulation on radio link
- CRC error checking
- 18-pin DIP/SOIC package
- 2 digital telemetry lines (addressed mode only)
- Asynchronous serial host interface

Applications

- Wireless RS232
- Cable replacement
- Alarm systems
- Communications systems
- Local area networking

336727

Mftrs. List No.	Order Code	Price Each 1+	5+	10+
RF600T	120-0986	4.25	3.89	3.57

FREE technical support
Our trained engineers are here to help!
08447 11 11 22
techsales@farnell.co.uk
Live technical chat at www.farnell.co.uk

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Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
4 ON	24	QFN-24	Clock Synthesizer, PLL, 3.3V	NB4N441MNG	SMD 136-9725●	8.33	6.22	5.35	4.76	4.58
06 TI	48	QLP	Z-Accel 2.4 GHz ZigBee Processor	CCZACC06A1RTC	NEW SMD 156-0947●	10.97	8.98	7.61	7.06	6.63
15 NSC	16	LLP	0.15 to 1.5 Gbps Adaptive Cable Equalizer with LOS Detection	DS15EA101SQE/NOPB	NEW SMD 168-5565●	11.01	9.06	7.41	6.79	6.08
15 NSC	16	LLP	1.5 Gbps Adaptive Cable Equalizer with LOS Detection	DS15EA101SQ/NOPB	NEW SMD 168-5579●	11.01	9.06	7.41	6.79	6.08
16 TI	64	LQFP	64 Byte FIFO Asynchronous Communication	TL16C750IPM	NEW SMD 162-4397●	6.24	5.09	3.94	3.46	3.12
16 TI	44	PLCC	Asynchronous Communication	TL16C550CIFN	NEW SMD 162-4399●	3.28	2.45	1.89	1.67	1.52
16 TI	44	PLCC	1MBPS Single UART with 16 Byte FIFOs & Auto Flow Control	TL16C550CFN	NEW SMD 156-4955●	3.03	2.49	2.22	1.82	1.54
24 MCHIP	40	QFN	Zigbee, MiWi, IEEE 802.15.4™ 2.4 GHz RF Transceiver	MRF24J40-I/ML	SMD 143-6019●	3.18	2.00	1.75	– –	– –

RL Re-reeling available

Communications - Radio Frequency ICs - continued

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
32	NSC	48	LLP	Programmable Quad Equalizer	DS32EV400SQ/NOPB	NEW SMC 168-5566●	13.01	10.70	8.75	8.02	7.19
34	NSC	16	SOIC	SMPTE 292M/259M Adaptive Cable Equalizer	LMH0034MA/NOPB	NEW SMC 168-5558●	34.11	28.05	22.95	21.03	18.84
64	NSC	48	LLP	Programmable Quad Equalizer	DS64EV400SQ/NOPB	NEW SMC 168-5567●	32.01	26.32	21.53	19.74	17.67
65	TI	8	SOIC	CAN Transceiver with Ultra Low Power Sleep Mode	SN65HVD1040D	NEW SMC 156-4962●	1.43	1.17	1.06	0.85	0.71
101	NSC	49	BGA	Low Voltage IEEE 1149.1 STA Master	SCANSTA101SM/NOPB	NEW SMC 168-5748●	17.01	13.99	11.45	10.49	9.39
111	NSC	48	TSSOP	Enhanced SCAN Bridge Multidrop Addressable IEEE JTAG Port	SCANSTA111MT/NOPB	NEW SMC 168-5749●	8.74	7.19	5.88	5.39	4.83
112	NSC	100	FBGA	7 Port Multidrop IEEE 1149.1 JTAG Multiplexer	SCANSTA112SM/NOPB	NEW SMC 168-5750●	11.41	9.38	7.68	7.04	6.31
112	NSC	100	TQFP	7 Port Multidrop IEEE 1149.1 JTAG Multiplexer	SCANSTA112VS/NOPB	NEW SMC 168-5751●	11.41	9.38	7.68	7.04	6.31
112	MICR	10	MSOP	QwikRadio® UHF ASK/FSK Transmitter	MICRF112YMM	SMC 149-4165●	3.86	2.81	2.57	2.21	2.06
150	NSC	8	LLP	LDVS Buffer 3.125 G b/s	DS25BR150TSD	SMC 137-0037●	3.59	2.89	2.40	2.03	1.86
211	MICR	16	QSOP	QwikRadio® 3V, 433.92 MHz Receiver	MICRF211AYQS	SMC 149-4166●	5.99	4.99	4.62	4.27	4.00
228	NSC	4	Bump Micro SMD	RF Power Detector for CDmA and WCDmA	LMV228TL	SMC 823-8910●	0.50	0.41	0.32	– –	– –
242	NSC	10	LLP	Dual Output, Quad Band, GSM/GPRS Power Amp Controller	LMV242LD	SMC 823-8928●	0.76	0.64	0.48	– –	– –
0286	AV	4	SOIC	Cascadable Silicon Bi-polar MMIC Amplifier, 3dB Bandwidth: DC to 2.5GHz, High Gain: 12.0dB Typ. @ 1.0GHz	MSA-0286-BLKG	SMC 108-5625●	2.23	1.98	1.68	– –	– –
386	AV	4	SOIC	Cascadable Silicon Bipolar MMIC Amplifier, DC to 2.4GHz	MSA-0386-BLKG	SMC 108-5622●	3.07	2.73	2.54	2.16	1.83
405	MICR	24	MLF	290MHZ-980MHZ ITRANSMITTER	MICRF405YML	SMC 129-2980●	2.92	2.34	1.95	1.67	1.49
410	TI	64	HTQFP	PanelBus DVI Transmitter 165MHz	TFP410PAP	NEW SMC 156-4901●	6.07	5.00	4.45	3.64	3.07
421	ADI	16	PDIP	Loop-Powered 4-20 mA DAC	AD421BNZ	143-8368●	12.22	9.44	8.01	– –	– –
0486	AV	4	SOIC	Cascadable Silicon Bi-polar MMIC Amplifier, 3dB Bandwidth: DC to 3.2GHz, High Gain: 8dB Typ. @ 1.0GHz	MSA-0486-BLKG	SMC 108-5626●	1.48	1.30	1.11	– –	– –
505	MICR	32	MLF	433/915MHZ ITRANSCEIVER	MICRF505YML	SMC 129-2978●	6.09	4.33	3.71	3.26	3.10
506	MICR	32	MLF	410/450MHZ ITRANSCEIVER	MICRF506YML	SMC 129-2979●	5.50	4.39	3.66	3.13	2.78
512	MCHIP	18	SOIC	KEELOQ Code Hopping Decoder	HCS512/SO	NEW SMC 161-1127●	2.69	2.07	1.70	– –	– –
565	NSC	14	DIP	Phase Locked Loop	LM565CN	948-7719●	1.50	1.23	1.12	1.10	1.03
600	MICR	–	–	Module,915MHZ-928MHZ ITRANSCEIVER	MICRF600Z	129-2981●	19.60	14.70	11.16	– –	– –
602	NXP	8	SOIC	Low Power double-balanced mixer With Input Amplifier, oscillator and Regulator. (IND TEMP)	SA602AD	SMC 120-1261●	2.47	1.81	1.36	1.22	1.10
602	NXP	8	DIP	Mixer, low power	SA602AN	302-6279●	1.86	1.51	1.22	1.15	1.10
603	ADI	8	DIP	Low Noise, 90MHz Variable-Gain Amp	AD603AQ	563-109▲	8.59	6.58	5.58	– –	– –
604	NXP	16	SOIC	High Performance, Low Power Fm If System. (Ind Temp)	SA604AD	SMC 120-1262●	4.61	3.56	2.79	2.54	2.34
605	NXP	20	SOIC	High Performance, Low Power Mixer Fm If System With High Speed Rssi. (Ind Temp)	SA605D	SMC 120-1263●	5.35	4.11	3.21	2.94	2.70
607	ADI	20	SSOP	Low Power Mixer/AGC/RSSI 3V Receiver IF Subsystem	AD607ARSZ	SMC 143-8896●	6.64	4.53	3.66	– –	– –
608	ADI	16	SOIC	Low Power Mixer/Limiter/RSSI 3 V Receiver IF Subsystem	AD608ARZ	SMC 143-8897●	4.86	3.31	2.46	– –	– –
610	MICR	–	–	Module,868MHZ-870MHZ ITRANSCEIVER	MICRF610Z	129-2982●	14.78	12.32	9.36	– –	– –
612	NXP	8	SOIC	Double-Balanced Mixer and Oscillator (IND TEMP)	SA612AD	SMC 120-1338●	1.83	1.34	1.01	0.89	0.81
614	NXP	16	SOIC	Low Power mixer FM IF System With temperature compensated RSSI. (IND TEMP)	SA614AD	SMC 120-1264●	2.84	2.18	1.71	1.56	1.44
620	MICR	–	–	Module,430MHZ-440MHZ ITRANSCEIVER	MICRF620Z	129-2983●	13.89	11.84	9.25	– –	– –
630	ADI	20	DIP	Balanced Modulator/Demodulator	AD630JNZ	960-3530●	16.21	12.43	10.54	– –	– –
630	ADI	20	PDIP	Balanced Modulator/Demodulator	AD630KNZ	143-8367●	22.83	18.84	16.74	– –	– –
665	AV	8	LPCC	Low Noise Amplifier for Wireless Applications in the 0.5-6GHz Frequency Range	MGA-665P8-BLK	SMC 118-2061●	1.54	1.36	1.21	1.10	1.00
0686	AV	4	SOIC	Cascadable Silicon Bi-polar MMIC Amplifier, usable Gain to 0.8GHz,High Gain: 18.5dB Typ. @ 0.5GHz, Low Voltage	MSA-0686-BLKG	SMC 108-5627●	2.31	2.05	1.73	– –	– –
690	ST	8	SOIC	40MHz to 1GHz wideband RF Amp. With +13.5dBm output Power at 450MHz (IND TEMP)	TSH690ID	SMC 109-4413●	1.43	1.07	0.85	0.74	0.66
706	TI	20	TSSOP	Programmable 3-PLL Clock Synthesizer / Multiplier / Divider 300 MHz	CDCE706PWG4	SMC 139-0653●	5.73	4.63	3.85	3.31	3.23
0786	AV	4	SOIC	Cascadable Silicon Bi-polar MMIC Amplifier, 3dB Bandwidth: DC to 2.0GHz, High Gain: 12.5dB Typ. @ 1.0GHz, Low Voltage	MSA-0786-BLKG	SMC 108-5628●	2.19	1.92	1.60	– –	– –
831	ADI	20	PLCC	Low Distortion Mixer.	AD831APZ	SMC 158-1911●	10.19	8.13	6.87	– –	– –
840	MAX	8	SOIC	Low Noise, Regulated GaAs FET Bias With Fixed -2V or adjustable -0.5V to -9.4V Output at 4mA, for Cellular Telephone transmitter Amplifiers. (IND TEMP)	MAX840ISA+	SMC 118-8054●	3.17	2.28	1.76	1.61	1.57
0886	AV	4	SOIC	Cascadable Silicon Bi-polar MMIC Amplifier, usable Gain to 5.5GHz, High Gain: 22.5dB Typ. @ 1.0GHz	MSA-0886-BLKG	SMC 108-5629●	1.45	1.28	1.11	– –	– –
901	ADI	8	MSOP	Wideband, 43 dB Isolation @ 1 GHz, CMOS 1.65 V to 2.75 V, Absorptive Switch.	ADG901BRMZ	SMC 134-6344●	2.39	1.63	1.21	1.15	1.07
902	ADI	8	MSOP	Wideband, 43 dB Isolation @ 1 GHz, CMOS 1.65 V to 2.75 V, Absorptive/Reflective Switch.	ADG902BRMZ	SMC 134-6345●	2.39	1.63	1.21	1.15	1.07
906	TI	20	TSSOP	Programmable 3-PLL Clock Synthesizer / Multiplier / Divider, 167MHz	CDCE906PWG4	SMC 139-0654●	3.61	2.90	2.37	1.92	1.87
913	TI	14	TSSOP	Programmable 1-PLL VCXO Clock Synthesizer with 2.5-V or 3.3-V LVCMOS Outputs	CDCE913PWG4	SMC 149-4882●	2.54	2.03	1.53	1.36	1.30
918	ADI	8	MSOP	Wideband, 43 dB Isolation @ 1 GHz, CMOS 1.65 V to 2.75 V, 2:1 Mux/SPDT Switch	ADG918BRMZ	SMC 134-6346●	2.50	1.71	1.27	1.21	1.13
919	ADI	8	MSOP	Wideband, 43 dB Isolation @ 1 GHz, CMOS 1.65 V to 2.75 V, 2:1 Mux/SPDT Switch	ADG919BRMZ	SMC 134-6347●	2.50	1.71	1.27	1.21	1.13
925	TI	16	TSSOP	Programmable 2-PLL VCXO Clock Synthesizer with 2.5-V or 3.3-V LVCMOS Outputs	CDCE925PWG4	SMC 149-4881●	2.84	2.28	1.73	1.52	1.48
949	TI	24	TSSOP	Programmable 4-PLL VCXO Clock Synthesizer with 2.5V or 3.3V LVCMOS Outputs	CDCE949PWG4	SMC 149-4886●	3.49	2.77	2.11	1.84	1.81
1000	TI	28	TSSOP	Single CHIP ULTRA Low Power RF TRANSCEIVER for 315/433/868/915 MHZ SRD BAND	CC1000-RTB1	SMC 124-8481●	5.37	5.02	4.44	3.83	3.48
1000	TI	28	TSSOP	RF Transceiver, Very Low Power	CC1000PW	NEW SMC 161-0165●	5.06	4.22	3.40	– –	– –
1010	TI	64	TQFP	Intergated 300-1000 MHZ RF TRANSCEIVER AND MICROCONTROLLER	CC1010-RTY1	SMC 124-8478●	6.38	5.99	5.74	5.59	5.45
1010	TI	64	TQFP	RF Transceiver, Very Low Power, 8051-Compatible Microcontroller	CC1010PAG	NEW SMC 161-0166●	8.52	7.09	5.40	– –	– –
1020	TI	32	QFN	RF Transceiver, Very Low Power, Narrowband	CC1020RSS	NEW SMC 161-0167●	4.60	3.84	3.03	– –	– –
1020	TI	32	QFN	Single-Chip Fsk/Ook Cmos Rf Transceiver For Narrowband Apps In 402-470 And 804-940 Mhz Range	CC1020-RTB1	SMC 124-8482●	6.01	5.58	4.96	4.47	4.06
1050	TI	24	QFN	Single CHIP ULTRA Low Power RF TRANSMITTER for THE 315/433/868/915 MHZ SRD BAND	CC1050-RTB1	SMC 124-8490●	1.63	1.50	1.34	1.15	1.12
1070	TI	20	QFN	Single-Chip, Low-Power, Low-Cost Cmos Fsk/Gfsk/Ask/00k Rf Transmitter For Narrowband & Multi-Ch Apps	CC1070-RTY1	SMC 124-8489●	2.40	2.21	1.97	1.80	1.74
1100	TI	20	QFN	Highly Integrated Multich Rf Transceiver Designed For Low-Power Wireless Apps	CC1100-RTY1	SMC 124-8484●	2.66	2.46	2.19	1.98	1.80
1105	AV	3	Micro-5	Cascadable Silicon Bipolar MMIC Amplifier	MSA-1105-STRG	SMC 134-7206●	2.08	1.71	1.44	1.28	1.14
1106	AV	6	SMT	GPS Low Noise Amplifier With Variable Bias Current and Shutdown function	ALM-1106-BLK	SMC 118-2060●	1.09	0.92	0.79	0.69	0.66
1123	TI	32	QFN	Power Amp, 1W, 2.5GHZ	TRF1123IRTMT	NEW SMC 161-0195●	6.99	5.82	4.60	– –	– –
1201	TI	64	HVQFP	Gigabit Ethernet Transceiver	TLK1201IRCP	NEW SMC 157-6960●	7.07	5.32	4.54	4.43	4.04
1201	TI	64	HVQFP	Gigabit Ethernet Transceiver with Half Rate Option	TLK1201AIRCP	NEW SMC 157-6961●	7.02	5.26	4.51	4.40	4.01
1221	TI	40	QFN	Gigabit Ethernet Transceiver	TLK1221RHAT	NEW SMC 157-6976●	5.22	3.92	3.36	3.27	2.97
1223	TI	32	QFN	Power Amp, 1W, 3.5GHZ	TRF1223IRTMT	NEW SMC 161-0196●	7.33	6.10	4.63	– –	– –
1240	ST	8	DIP-8	Two-Tone Ringer	LS1240A.	113-2011●	0.63	0.52	0.44	0.37	0.35
1496	ON	14	DIP	Balanced Modulator/Demodulator	MC1496PG	966-6761●	0.96	0.65	0.47	0.40	– –
1501	TI	64	HVQFP	0.6 TO 1.5 GBPS Transceiver	TLK1501IRCPG4	SMC 120-7288●	11.00	9.10	7.76	– –	– –
2000	NSC	48	LLP	Clock distributor, W/PLL	LMK02000ISQ	SMC 135-9429●	20.30	16.23	13.53	11.43	10.42

RL Re-reeling available

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
2030	MCHIP	14	DIP	10kbps Three Channel Analogue Front End Device	MCP2030-I/P	NEW 160-5563●	2.29	1.73	1.36	– –	– –
2201	TI	64	HTQFP	1.25-Gigabit Ethernet Transceiver	TNETE2201BPJD	NEW SMD 157-6974●	6.53	4.89	4.20	4.08	3.71
2201	TI	80	BGA	1.0 TO 1.6 Gigabit Ethernet Transceiver	TLK2201AJRZQE	NEW SMD 157-6962●	6.15	4.62	3.95	3.85	3.51
2201	TI	64	HVQFP	1.2 to 1.6 Gigabit Ethernet Transceiver	TLK2201BIRCP	NEW SMD 157-6964●	6.73	5.06	4.30	4.19	4.08
2201	TI	64	HTQFP	1.25-Gigabit Ethernet Transceiver	TNETE2201BPHD	NEW SMD 157-6977●	6.53	4.89	4.20	4.08	3.71
2208	TI	289	BGA	Octal Gigabit Ethernet Transceiver	TLK2208AZPV	NEW SMD 157-6968●	45.59	34.20	29.31	28.49	25.97
2208	TI	289	BGA	Octal Gigabit Ethernet Transceiver	TLK2208BZPV	NEW SMD 157-6969●	45.59	34.20	29.31	28.49	25.97
2218	TI	289	BGA	8-Port Gigabit Ethernet Transceiver	TLK2218ZPV	NEW SMD 157-6970●	55.71	41.78	35.81	34.83	31.74
2231	TI	20	TSSOP	ExpressCard Power Interface Switch	TPS2231PW	NEW SMD 162-4394●	1.66	1.23	0.95	0.84	0.77
2306	NSC	16	TSSOP	Low Power Frequency Synthesizer, Operating up to 550MHz	LMX2306TM	SMD 977-9140●	1.66	1.03	0.82	– –	– –
2316	NSC	16	TSSOP	Low Power Frequency Synthesizer, Operation up to 1.2 GHz	LMX2316TM	SMD 977-9159●	1.73	1.48	0.94	– –	– –
2326	NSC	16	TSSOP	2.8GHz PLL Synthesizer for RF Personal Communication	LMX2326TM/NOPB	NEW SMD 156-4756●	2.63	2.17	1.92	1.63	1.44
2326	NSC	16	TSSOP	Low Power Frequency Synthesizer, Operation up to 2.8 GHz	LMX2326TM	SMD 977-9167●	3.05	2.59	1.99	– –	– –
2354	NSC	24	TSSOP	Low Power Dual Frequency Synthesizer, 2.5 GHz and 550MHz	LMX2354TM	SMD 977-9175●	3.32	2.33	1.91	– –	– –
2400	TI	48	QFN	Low-Cost And Low-Power Single-Chip 2.4 Ghz Ism Band Transceiver With Extensive Hardware Features	CC2400-RTB1	SMD 124-8491●	5.11	4.75	4.21	3.61	3.29
2420	TI	48	QFN	Single-Chip 2.4 Ghz Ieee 802.15.4 Compliant And Zigbee(Tm) Ready Rf Transceiver	CC2420-RTB1	SMD 124-8485●	4.86	4.51	4.02	3.61	3.29
2420	TI	48	QFN	Single-Chip 2.4 Ghz Ieee 802.15.4 Compliant And Zigbee(Tm) Ready Rf Transceiver	CC2420Z-RTB1	SMD 124-8486●	5.40	5.02	4.47	4.02	3.65
2430	NSC	20	UCSP	PLLatinum Dual High Frequenzy Synthesizer for RF Personal Communications	LMX2430SLEX	SMD 818-7681●	2.69	2.30	1.85	– –	– –
2480	TI	48	QLP	Z-Accel 2.4 GHz ZigBee Processor	CC2480A1RTC	NEW SMD 157-3885●	11.73	8.79	7.25	– –	– –
2482	MAX	16	NSOIC	400kHz I2C to 8 I/O Channels 1 Wire Bi-directional Interface	DS2482S-800+	NEW SMD 160-6613●	6.22	4.97	4.52	4.14	3.45
2487	NSC	24	LLP	7.5GHZ DELTA-SIGMA DUAL PLL	LMX2487ESQE	SMD 149-5072●	4.97	4.00	3.32	2.85	2.65
2500	TI	20	QFN	2.4GHz RF Transceiver for Low-Power Wireless Apps	CC2500RTK	NEW SMD 156-4922●	3.03	2.49	2.22	1.82	1.54
2500	TI	20	QFN	Low COST, Low-Power 2.4 GHZ RF TRANSCEIVER DESIGNED for Low-Power WIRELESS APPS IN 2.4 GHZ ISM BAND	CC2500-RTY1	SMD 124-8487●	2.58	2.40	2.13	1.92	1.74
2505	NSC	28	LLP	PLLatinum Frequenzy Synthesizer System With Integrated VCOs	LMX2505LQ1321	SMD 818-7754●	5.38	4.57	3.67	– –	– –
2520	TI	28	QFN	Second generation 2.4 GHz ZigBee/IEEE 802.15.4 RF transceiver	CC2520RHDT	NEW SMD 157-3887●	3.70	3.07	2.35	– –	– –
2531	NSC	36	LLP	Frequency Synthesizer System with Integrated VCO	LMX2531LQ1515E	NEW SMD 160-9181●	10.87	8.70	7.91	7.24	6.20
2531	NSC	36	LLP	Frequency Synthesizer System with Integrated VCO	LMX2531LQ1312E	NEW SMD 160-9185●	10.87	8.70	7.91	7.24	6.20
2531	NSC	36	LLP	Frequency Synthesizer System with Integrated VCO	LMX2531LQ1415E	NEW SMD 160-9186●	10.87	8.70	7.91	7.24	6.20
2532	NSC	28	LLP	PLLatinum Frequenzy Synthesizer System With Integrated VCOs	LMX2532LQ0967	SMD 818-7819●	4.85	4.11	3.29	– –	– –
2550	TI	16	QFN	Low COST 2.4 GHZ TRANSMITTER DESIGNED for Low-Power WIRELESS APPLICATIONS IN 2.4 GHZ ISM BAND	CC2550-RTY1	SMD 124-8488●	1.03	0.95	0.85	0.75	0.74
2591	TI	16	QFN	TRANSCEIVER, RF	CC2591RGVT	NEW SMD 163-1624●	4.51	3.00	2.58	2.53	2.46
2601	MAX	8	SOIC	3.6V, 1W RF Power Transistor for 900MHz cellular/wireless systems..	MAX2601ESA+	SMD 972-5857●	4.09	2.93	2.28	– –	– –
2604	NSC	20	LLP	Triple-band VCO for GSM900/DCS1800/PCS1900	LMX2604LQ	SMD 818-7835●	1.82	1.54	1.24	– –	– –
2620	MAX	8	SOIC	Low Noise oscillator With output buffers for 900MHz cellular/wireless systems	MAX2620EUA+	SMD 972-5830●	4.48	3.73	2.84	– –	– –
2932	TI	14	TSSOP	Phase-Locked Loop System	TLC2932AIPWG4	SMD 128-7659●	2.77	2.39	1.85	1.34	1.31
2932	TI	14	TSSOP	Phase Locked Loop	TLC2932IPWG4	SMD 120-7280●	1.76	1.47	1.25	– –	– –
2933	TI	14	TSSOP	Phase Locked Loop	TLC2933AIPW	SMD 128-7660●	3.01	2.05	1.53	1.45	1.35
2933	TI	14	TSSOP	Phase Locked Loop	TLC2933IPWG4	SMD 120-7281●	1.34	1.11	0.98	– –	– –
3001	NSC	48	LLP	Clock conditioner with Integrated 1.52GHz VCO	LMK03001ISQ	SMD 135-9430●	24.79	19.58	15.94	13.76	12.51
3002	NSC	48	LLP	Precision Clock Conditioner with Integrated VCO from the PowerWise® Family	LMK03002CISQ	SMD 149-5061●	17.85	14.28	11.87	10.20	9.50
3101	INTS	8	SOIC	Gilbert Cell UHF NPN Transistor Array GBWP 10GHz	HFA3101BZ..	NEW SMD 156-1946●	3.19	2.48	2.03	1.73	1.59
3114	TI	289	BGA	10-Gbps XAUI Transceiver	TLK3114SCZPV	NEW SMD 157-6966●	83.58	62.69	53.73	52.23	47.61
3127	INTS	16	SOIC	8GHz 5 NPN Transistor Arrays	HFA3127BZ..	NEW SMD 156-2029●	3.72	2.79	2.23	1.86	1.59
3128	INTS	16	SOIC	5.5GHz 5 PNP Transistor Arrays	HFA3128BZ..	NEW SMD 156-2030●	3.72	2.79	2.23	1.86	1.59
3318	TI	20	TSSOP	Dual 460KBPS RS-232 Transceiver with ESD-Protection	MAX3318EIPW	NEW SMD 156-4926●	2.42	2.01	1.78	1.46	1.23
3718	LT	24	SSOP	DDR Memory and SSTL Termination	LTC3718EG#PBF	SMD 127-3543●	4.46	2.97	2.50	– –	– –
3740	MAX	24	TQFN	3.2Gbps Small Form Factor VCSEL Driver with Diagnostic	MAX3740AETG+	NEW SMD 159-3366●	7.46	5.82	5.24	4.36	3.74
4002	ADI	20	LFCSP	Phase Detector / PLL Frequency Synthesizer	ADF4002BCPZ	SMD 127-4187●	3.17	2.23	1.66	1.50	1.47
4002	ADI	16	TSSOP	Phase Detector / PLL Frequency Synthesizer	ADF4002BRUZ	SMD 127-4186●	4.69	3.19	2.58	2.48	2.32
4015	TI	289	BGA	Quad 0.6 to 1.5 Gbps Transceiver	TLK4015IZPV	NEW SMD 157-6967●	42.56	31.91	27.34	26.60	24.24
4106	MAX	8	SOIC	350MHz, Ultra-Low-Noise Amp. for Pulse/RF applications	MAX4106ESA+	SMD 972-6446●	6.99	5.63	4.67	3.95	– –
4108	ADI	20	LFCSP	PLL Frequency Synthesizer	ADF4108BCPZ	SMD 127-4185●	6.95	4.77	3.85	3.71	3.46
4113	ADI	16	TSSOP	High Voltage Charge Pump, PLL Synthesizer	ADF4113HVBRUZ	SMD 149-8707●	5.09	3.69	2.92	– –	– –
4156	ADI	16	TSSOP	6 GHz Fractional-N Frequency Synthesizer	ADF4156BRUZ	SMD 149-8709●	6.02	4.34	3.43	– –	– –
4302	ADI	20	LFCSP	Active RF Splitter	ADA4302-4ACPZ-R2	SMD 107-8235●	3.27	2.40	1.80	– –	– –
4392	TI	48	TQFP	High-end Combo Sample Rate Converter	SRC4392IPFBG4	SMD 139-0701●	16.33	13.05	10.70	8.97	8.73
4440	LT	8	MSOP	High & Low-Side Driver	LTC4440EMS8E#PBF	SMD 127-3552●	3.31	2.01	1.59	– –	– –
4545	MAX	20	SSOP	Quad, Low Voltage, Bidirectional RF/Video Switches	MAX4545CAP+	SMD 118-7994●	5.00	3.60	2.91	2.57	– –
4556	LT	24	QFN	SmArt Card Interface w/Serial Control	LTC4556EUF#PBF	SMD 127-3555●	3.04	2.04	1.70	– –	– –
4585	INTS	16	SOIC	36MHz PLL Horizontal Genlock	EL4585CSZ	NEW SMD 156-2044●	9.17	8.08	6.79	5.66	4.86
4789	AV	3	SOT-89	Silicon Bipolar Darlington Amplifier	ADA-4789-BLKG	SMD 134-7881●	0.67	0.56	0.44	0.37	0.36
5322	ADI	8	LFCSP	700 MHz to 1000 MHz GaAs Matched RF PA Pre-Driver	ADL5322ACPZ	SMD 134-6358●	5.27	3.95	3.41	3.32	3.23
5323	ADI	8	LFCSP	1700 MHz to 2400 MHz GaAs Matched RF PA Pre-Driver	ADL5323ACPZ	SMD 134-6359●	7.11	5.32	4.09	3.76	3.47
5374	ADI	24	LFCSP	3 GHz to 4 GHz Quadrature Modulator	ADL5374ACPZ-R7	SMD 154-2718●	9.97	8.31	7.13	– –	– –
5387	ADI	24	LFCSP	50 MHz to 2 GHz Quadrature Demodulator	ADL5387ACPZ-WP	SMD 154-2713●	8.26	7.50	6.87	– –	– –
5390	ADI	8	LFCSP	RF Vector Multiplier	ADL5390ACPZ	SMD 134-6364●	6.72	6.21	5.87	5.72	5.57
5500	ADI	4	WLCSP	100 MHz to 6.0 GHz RMS TruPwr Detector	ADL5500ACBZ-P2	SMD 134-6353●	3.70	3.00	2.51	2.49	2.29
5502	LT	24	SSOP	400MHz Quadrature IF Demodulator with RSSI	LT5502EGN#PBF	NEW SMD 154-9263●	10.42	8.68	7.45	– –	– –
5503	LT	20	TSSOP	1.2GHz to 2.7GHz Direct IQ Modulator and Mixer	LT5503EFE#PBF	NEW SMD 154-9264●	8.39	7.00	6.00	– –	– –
5505	LT	5	SOT-23	RF Power Detectors	LTC5505-1ES5#PBF	SMD 134-5595●	1.70	1.35	1.08	0.93	0.91
5505	LT	5	SOT-23	RF Power Detectors	LTC5505-2ES5#PBF	SMD 134-5602●	1.17	1.08	0.97	0.84	0.82
5506	LT	16	QFN	RF Demodulator With VGA	LT5506EUF#PBF	SMD 127-3460●	6.26	3.81	3.00	– –	– –
5507	LT	6	SOT-23	RF Power Detectors	LTC5507ES6#PBF	SMD 134-5579●	2.15	1.78	1.41	1.24	1.20
5508	LT	6	SC-70	7GHZ RF Detectors	LTC5508ESC6#PBF	SMD 134-5604●	2.07	1.63	1.29	1.14	1.11
5511	LT	16	TSSOP	High Signal Level Upconverting Mixer	LT5511EFE#PBF	SMD 127-3461●	4.38	2.85	2.41	– –	– –
5512	LT	16	QFN	High Signal Level Downconverting Mixer	LT5512EUF#PBF	SMD 127-3463●	6.97	4.24	3.34	– –	– –
5514	LT	20	TSSOP	Digitally Programmable Gain Amplifier	LT5514EFE#PBF	SMD 127-3464●	9.80	5.96	4.69	– –	– –
5515	LT	16	QFN	1.5GHz - 2.5GHz Quadrature Demodulator	LT5515EUF#PBF	SMD 134-5600●	12.74	7.76	6.11	5.37	5.23
5516	LT	16	QFN	800MHz - 1500MHz Quadrature Demodulator	LT5516EUF#PBF	SMD 134-5599●	6.88	6.36	5.97	5.23	5.11
5517	LT	16	QFN	40MHz - 900MHz Quadrature Demodulator	LT5517EUF#PBF	SMD 134-5593●	6.95	6.41	5.97	5.23	5.11
5519	LT	16	QFN	700MHz to 1.4GHz Upconverting Mixer	LT5519EUF#PBF	SMD 127-3465●	5.02	3.48	3.09	– –	– –
5520	LT	16	QFN	1.3GHz to 2.3GHz Upconverting Mixer	LT5520EUF#PBF	SMD 127-3466●	4.84	3.36	2.82	– –	– –
5521	LT	16	QFN	Very High Linearity Upconvert Mixer	LT5521EUF#PBF	SMD 127-3467●	9.34	5.69	4.48	– –	– –
5522	LT	16	QFN	600MHz to 2700MHz Downconverting Mixer	LT5522EUF#PBF	SMD 127-3468●	9.81	5.98	4.71	– –	– –
5524	LT	20	TSSOP	Low Power Digitally Programmable Gain Amplifier	LT5524EFE#PBF	SMD 127-3469●	7.91	5.27	4.40	– –	– –
5525	LT	16	QFN	2.5GHz Low Power Downconverting Mixer	LT5525EUF#PBF	SMD 134-5598●	4.89	3.89	3.08	2.70	2.63
5526	LT	16	QFN	2GHz Low Power Downconverting Mixer	LT5526EUF#PBF	SMD 127-3470●	6.43	3.91	3.08	– –	– –
5527	LT	16	QFN	400MHz to 3700MHz Downconverting Mixer	LT5527EUF#PBF	SMD 134-5580●	8.86	5.94	5.12	4.99	4.86
5528	LT	16	QFN	2GHz Direct Quadrature Modulator	LT5528EUF#PBF	SMD 134-5603●	7.07	5.64	4.46	3.92	3.83
5530	ADI	8	LFCSP	DC to 1000 MHz IF Gain Block	ADL5530ACPZ	SMD 134-6360●	3.01	2.25	1.73	1.63	1.47
5530	LT	6	SOT-23	RF Power Detector	LTC5530ES6#PBF	SMD 134-5609●	1.00	0.93	0.78	0.77	0.76
5531	LT	6	SOT-23	RF Power Detector	LTC5531ES6#PBF	SMD 134-5610●	1.01	0.93	0.90	0.87	0.85
5531	ADI	8	LFCSP	IF Gain Block 20 - 500 MHz	ADL5531ACPZ-R7	SMD 154-6524●	3.88	3.23	2.67	– –	– –
5532	LT	6	SOT-23	RF Power Detector	LTC5532ES6#PBF	SMD 134-5605●	2.01	1.60	1.26	1.16	1.12
5533	LT	12	DFN	Dual 11GHz RF Power Detector	LTC5533EDE#PBF	SMD 134-5597●	5.45	3.66	2.89	2.53	2.47
5534	LT	6	SC-70	3GHz Log Amp RF Detector	LTC5534ESC6#PBF	SMD 134-5577●	6.42	5.14	4.05	3.55	3.46

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Communications - Radio Frequency ICs - continued

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
5535	LT	6	SOT-23	RF Power Detector w/ 12MHz BW	LTC5535ES6#PBF	SMD 134-5608●	1.19	1.10	1.06	1.03	1.01
5536	LT	6	SOT-23	RF Power Detector w/ Comparator	LTC5536ES6#PBF	SMD 134-5607●	2.36	2.18	1.85	1.82	1.79
5546	LT	16	QFN	17MHz Demodulator w. VGA	LT5546EUF#PBF	SMD 127-3471●	6.26	3.81	3.00	– –	– –
5557	LT	16	QFN	400MHz to 3.8GHz 3.3V High Signal Level Downconverting Mixer	LT5557EUF#PBF	SMD 132-9362●	11.23	6.82	5.40	4.69	4.59
5558	LT	16	QFN	600MHz - 1100MHz High Linearity Direct Quadrature Modulator	LT5558EUF#PBF	SMD 134-5591●	7.65	6.12	4.82	4.23	4.11
5560	LT	8	QFN	0.01MHz to 4GHz Low Power Active Mixer	LT5560EDD#PBF	SMD 134-5583●	2.96	1.79	1.44	1.33	1.30
5568	LT	8	QFN	700MHz - 1050MHz High Linearity Direct Quadrature Modulator	LT5568EUF#PBF	SMD 134-5581●	9.10	6.11	4.86	4.74	4.62
5571	LT	16	QFN	620MHz - 1100MHz High Linearity Direct Quadrature Modulator	LT5571EUF#PBF	SMD 134-5575●	9.34	5.67	4.49	3.94	3.84
5572	LT	16	QFN	2GHz Direct Quadrature Modulator w/ HiZ & 0.5V Bias	LT5572EUF#PBF	SMD 134-5589●	8.41	5.67	4.49	3.95	3.86
5575	LT	16	QFN	800MHz to 2.7GHz High Linearity Direct Conversion Quadrature Demodulator	LT5575EUF#PBF	SMD 134-5578●	9.19	8.49	7.04	6.67	6.49
6530	AV	8	SM	5-30 GHz Image Reject Mixer	AMMP-6530-BLK	SMD 134-7199▲	27.71	23.56	20.50	18.14	17.08
6630	ADI	16	SOIC	Differential, Low Noise IF Gain Block with Output Clamping	AD6630ARZ	SMD 134-6354●	4.74	3.66	2.87	2.40	2.34
6636	ADI	256	CSPBGA	150 MSPS Wideband (Digital) Receive Signal Processor (RSP), Digital Downconverter (DDC), 4-Channel	AD6636CBCZ	SMD 143-8418●	44.67	41.63	37.38	– –	– –
6653	ADI	64	LFCSP	IF Diversity Receiver, 12-bit, 125 MSPS	AD6653BCPZ-125	SMD 154-6526●	90.91	– –	– –	– –	– –
6653	ADI	64	LFCSP	IF Diversity Receiver, 12-bit, 150 MSPS	AD6653BCPZ-150	SMD 154-6527●	90.91	– –	– –	– –	– –
6655	ADI	64	LFCSP	IF Diversity Receiver	AD6655BCPZ-150	SMD 154-6516●	103.91	– –	– –	– –	– –
6655	ADI	64	LFCSP	IF Diversity Receiver	AD6655BCPZ-125	SMD 154-6517●	103.91	– –	– –	– –	– –
6655	ADI	64	LFCSP	IF Diversity Receiver	AD6655BCPZ-105	SMD 154-6518●	90.91	– –	– –	– –	– –
6655	ADI	64	LFCSP	IF Diversity Receiver	AD6655BCPZ-80	SMD 154-6519●	90.91	– –	– –	– –	– –
7005	TI	48	QFN	High Performance, Low Phase Noise, Low Skew Clock Synchronizer that Synchronizes Ref Clock to VCXO	CDCM7005RGZTG4	SMD 143-0949●	18.74	14.65	11.40	11.07	10.33
7010	ADI	24	TSSOP	High Performance ISM Band ASK/FSK/GFSK Transmitter	ADF7010BRUZ	SMD 134-6365●	2.21	1.79	1.50	1.49	1.37
7011	ADI	24	TSSOP	High Performance ISM Band ASK/FSK/GFSK Transmitter (Europe)	ADF7011BRUZ	SMD 134-6366●	1.58	1.28	1.07	1.06	0.99
7012	ADI	24	TSSOP	Single Chip Low Power ASK/FSK/GFSK UHF Transmitter	ADF7012BRUZ	SMD 134-6367●	4.02	2.76	2.05	1.95	1.82
7020	ADI	48	LFCSP	862-928 / 433-435 MHz ASK/FSK Transceiver	ADF7020BCPZ	SMD 134-6369●	2.25	1.88	1.84	1.78	1.74
7020	ADI	48	LFCSP	High Performance, Ism Band, Fsk/Ask Transceiver Ic	ADF7020-1BCPZ	SMD 127-4184●	4.66	3.17	2.36	2.24	2.09
7021	ADI	48	LFCSP	High Performance Narrowband ISM Transceiver IC	ADF7021BCPZ	SMD 143-8899●	5.45	3.75	3.03	– –	– –
7025	ADI	48	LFCSP	ISM Band Transceiver IC	ADF7025BCPZ	SMD 127-4183●	5.45	3.75	3.03	2.92	2.72
7301	MAX	36	SSOP	4 Wire 26 Mbit Serial Interfaced with 28-Port I/O Expander	MAX7301AAX+	SMD 142-2350●	6.07	4.38	3.46	3.09	3.02
7901	ADI	24	TSSOP	High Performance ISM Band ASK/FSK Transmitter (Echostar)	ADF7901BRUZ	SMD 134-6368●	4.02	2.76	2.05	1.95	1.82
7936	NXP	–	Leadless Stick	HITAG Transponder	PCF7936AS/3851,122	NEW 162-7051●	3.50	2.80	2.34	2.00	1.87
7960	TI	32	QFN	Multi-Standard Fully Integrated 13.56-MHz RFID Transceiver	TRF7960RHBTG4	SMD 132-9612●	8.72	6.54	5.45	– –	– –
7961	TI	32	QFN	Multi-Standard Fully Integrated 13.56-MHz RFID Transceiver	TRF7961RHBTG4	SMD 132-9614●	8.79	6.59	5.50	– –	– –
8307	ADI	8	DIP	DC-500MHz, 92dB DemodulatingLogarithmic Amp	AD8307ANZ	107-9309●	10.61	8.19	6.94	– –	– –
8339	ADI	40	LFCSP	DC to 50 MHz, Quad I/Q Demodulator and Phase Shifter	AD8339ACPZ	SMD 154-2714●	15.76	15.14	14.58	– –	– –
8341	ADI	24	LFCSP	RF Vector Modulator 1.5GHz - 2.4GHz	AD8341ACPZ-WP	SMD 107-8289●	11.65	10.82	10.09	– –	– –
8342	ADI	16	LFCSP	LF to 500MHz Active Receive Mixer	AD8342ACPZ-REEL7	SMD 107-8286●	5.24	4.70	4.27	– –	– –
8342	ADI	16	LFCSP	LF to 500MHz Active Receive Mixer	AD8342ACPZ-WP	SMD 107-8287●	5.24	4.70	4.27	– –	– –
8343	ADI	14	TSSOP	DC-to-2.5 GHz High IP3 Active Mixer	AD8343ARUZ	SMD 134-6361●	7.83	5.36	4.32	4.16	3.88
8344	ADI	16	LFCSP	400MHz to 1.2GHz Active Receive Mixer	AD8344ACPZ.	SMD 134-6363●	4.99	3.96	3.22	2.75	2.55
8348	ADI	28	TSSOP	50 MHz-1000 MHz Quadrature Demodulator	AD8348ARUZ	SMD 839-7929●	8.25	6.33	5.37	– –	– –
8349	ADI	16	TSSOP	700 MHz to 2700 MHz Quadrature Modulator	AD8349AREZ	SMD 839-7937●	7.82	6.00	5.09	– –	– –
8353	ADI	8	LFCSP	100-2700 MHz RF Gain Block	AD8353ACPZ	SMD 134-6356●	1.31	0.93	0.71	0.49	0.43
8354	ADI	8	LFCSP	100-2700 MHz RF Gain Block	AD8354ACPZ	SMD 134-6357●	1.31	0.93	0.71	0.53	0.48
8361	ADI	8	MSOP	DC-2.5GHz True Pwr Detector/Controller RFIC	AD8361ARMZ	SMD 134-6348●	7.07	4.86	3.92	3.78	3.52
8362	ADI	16	TSSOP	LF to 2.7GHz 60dB TruPwr Detector	AD8362ARUZ	SMD 134-6351●	11.19	8.64	7.33	7.03	6.58
8364	ADI	32	LFCSP	LF to 2.7GHz, Dual 60dB TruPwr Detector	AD8364ACPZ-R2	SMD 134-6352●	11.82	9.51	7.99	7.92	7.30
8392	ADI	28	TSSOP	Low Power, High Output Current, Quad Op Amp, Dual-Channel ADSL/ADSL2+ Line Driver	AD8392AAREZ	SMD 149-8681●	5.86	4.23	3.35	– –	– –
9097	MAX	25	25 Way to RJ11 Adapter	Universal 1-Wire COM Port 25 way Adapter	DS9097U-E25#	137-9841●	47.99	35.01	29.41	23.79	– –
9097	MAX	9	9 Way to RJ11 Adapter	Universal 1-Wire COM Port 9 way Adapter	DS9097U-S09#	137-9842●	26.49	19.34	16.25	13.14	– –
9352	ADI	64	LFCSP	WiMAX/WiBro RF MxFE Transceiver	AD9352BCPZ	SMD 154-2717●	20.12	19.35	18.65	– –	– –
9353	ADI	64	LFCSP	AD9353 WiMAX RF MxFE™ Transceiver	AD9353BCPZ	SMD 154-2708●	20.12	19.35	18.65	– –	– –
9503	MAX	6	TSOC	ESD Protection Diode	DS9503P+	NEW SMD 142-2278●	0.74	0.64	0.44	0.37	0.36
9536	TI	8	SOIC	Remote 4-Bit I2C & SMBus I/O Expander with Configuration Register	PCA9536D	NEW SMD 156-4917●	1.12	0.92	0.82	0.66	0.57
9536	TI	8	MSOP	Remote 4Bit I2C & SMBus I/O Expander with Configuration Register	PCA9536DGKR	NEW SMD 156-4927●	1.12	0.92	0.82	0.66	0.57
9554	TI	16	SSOP	Remote 8-Bit I2C & SMBus I/O Expander with Interrupt Output & Configuration Register	PCA9554DB	NEW SMD 156-4918●	1.60	1.34	1.19	0.97	0.83
9554	TI	16	TSSOP	Remote 8-Bit I2C & SMBus I/O Expander with Interrupt Output & Configuration Register	PCA9554PW	NEW SMD 156-4919●	1.60	1.34	1.19	0.97	0.83
9820	NSC	129	FR4	Bluetooth Serial Port Module	LMX9820ASM	SMD 100-8040●	41.09	33.90	26.48	– –	– –
9830	ADI	48	TQFP	CMOS Complete Direct Digital synthesis (DDS) Device, mAx. Freq. out 50MHz, Parallel Data Loading, 5V operation (TQFP)	AD9830ASTZ	SMD 960-4030●	10.43	9.47	8.67	– –	– –
9831	ADI	48	TQFP	CMOS Complete Direct Digital synthesis (DDS) Device, mAx. Freq. out 12.5MHz, Parallel Data Loading, 3V or 5V operation	AD9831ASTZ	SMD 107-9332●	6.61	5.26	4.74	– –	– –
9832	ADI	16	TSSOP	Direct Digital Synthesis for digitized Samples of sine wave to drive a DAC. Uses phase accumulator, sine look up table and DAC. Facilitates phase and frequency modulation (FSK, PSK, QPSK). (IND TEMP/TSSOP)	AD9832BRUZ	SMD 960-3743●	8.83	6.77	5.75	– –	– –
9834	ADI	20	TSSOP	50 MHz DDS	AD9834BRUZ	SMD 839-8330●	8.52	6.71	5.69	– –	– –
9835	ADI	16	TSSOP	CMOS Complete Direct Digital synthesis (DDS) Device, mAx. Freq. out 50MHz, Serial Data Loading, 5V operation (TSSOP)	AD9835BRUZ	SMD 960-4049●	10.11	7.80	6.61	– –	– –
9854	ADI	80	LQFP	CMOS 300 MSPS Quadrature Complete DDS	AD9854ASTZ	SMD 143-8599●	26.15	20.91	18.57	18.22	17.05
9856	ADI	48	LQFP	CMOS 200 MHz Quadrature Digital Upconverter	AD9856ASTZ	SMD 143-8600●	23.30	18.52	16.45	– –	– –
9857	ADI	80	LQFP	CMOS 200 MSPS 14-Bit Quadrature Digital Upconverter	AD9857ASTZ	SMD 149-8705●	20.12	17.87	15.88	– –	– –
9858	ADI	100	TQFP	1 GSPS Direct Digital Synthesizer	AD9858BSVZ	SMD 839-8356●	69.88	57.09	50.71	– –	– –
9859	ADI	48	TQFP	400 MSPS 10-Bit DAC 1.8 V CMOS Direct Digital Synthesizer	AD9859YSVZ	SMD 143-8601●	15.53	12.34	10.96	– –	– –
9861	ADI	64	LFCSP	50 MSPS, Mixed-Signal Front-End (MxFE™) Baseband Transceiver for Broadband Applications	AD9861BCPZ-50	SMD 158-1967●	14.29	11.78	10.46	– –	– –
9865	ADI	64	LFCSP	Broadband Modem Mixed Signal Front End	AD9865BCPZ	SMD 839-8410●	14.58	11.76	9.85	– –	– –
9869	ADI	64	LFCSP	Broadband Modem Mixed-Signal Front End	AD9869BCPZ	SMD 149-8706●	19.33	18.82	18.34	– –	– –
9911	ADI	56	LFCSP	500 MSPS Direct Digital Synthesizer With 10-Bit DAC	AD9911BCPZ	SMD 127-4195●	23.14	18.30	16.36	15.92	15.50
9912	ADI	64	LFCSP	1 GSPS Direct Digital Synthesizer with 14-Bit DAC	AD9912BCPZ	SMD 154-2712●	50.23	48.30	46.51	– –	– –
9913	ADI	32	LFCSP	Low Power 250 MSPS 10-Bit DAC, CMOS Direct Digital Synthesizer	AD9913BCPZ	NEW SMD 154-6530●	14.95	12.93	12.28	– –	– –
9951	ADI	48	TQFP	400 MSPS, 14-Bit, 1.8 V CMOS Direct Digital Synthesizer	AD9951YSVZ	SMD 839-8445●	21.87	17.38	15.44	– –	– –
9952	ADI	48	TQFP	400 MSPS, 14-Bit, 1.8 V CMOS Direct Digital Synthesizer	AD9952YSVZ	SMD 158-1968●	20.50	16.92	15.04	– –	– –
9954	ADI	48	TQFP	400 MSPS, 14-Bit, 1.8 V CMOS Direct Digital Synthesizer	AD9954YSVZ.	SMD 114-3314	17.68	14.59	12.96	– –	– –
9956	ADI	48	LFCSP	400 MSPS, 14-Bit DAC, 48-Bit FTW 1.8 V CMOS DDS Based AgileRF Synthesizer	AD9956YCPZ	SMD 107-8236●	27.27	21.82	19.38	– –	– –
9957	ADI	100	TQFP	1 GSPS Quadrature Digital Upconverter with 18-Bit IQ Data Path and 14-Bit DAC	AD9957BSVZ	SMD 143-8898●	30.74	24.78	20.77	– –	– –
13021	MAX	8	SOIC	±60V Fault-Protected 20kbps LIN Transceiver	MAX13021ASA+	NEW SMD 160-3208●	1.00	0.82	0.68	0.58	0.55
13191	FSL	32	QFN	2.4 GHz ISM Band Low Power Transceiver	MC13191FC	SMD 129-6194●	2.30	1.43	1.25	1.22	1.17
13192	FSL	32	QFN	2.4 GHz Low Power Transceiver	MC13192FC	SMD 129-6195●	3.12	2.32	2.00	1.85	1.78
13193	FSL	32	QFN	2.4 GHz Low Power Transceiver for the IEEE 802.15.4 Standard	MC13193FC	NEW SMD 154-9258●	6.50	5.42	4.65	– –	– –

RL Re-reeling available

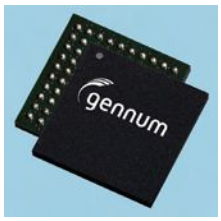
Farnell

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
23008	MCHIP	20	SSOP	8-Bit I/O Expander with I2C 1.7MHz Interface & 3 Address Pins	MCP23008-E/SS	NEW! SMD 160-5564	1.04	0.78	0.62	– –	– –
29504	ROHM	64	VQFP	Serial ATA Bridge Chip	BU29504KV-E2	NEW! SMD 160-3633	14.14	11.00	9.00	8.25	7.62
52543	AV	4	SOT-343	Low Noise 6 GHz Amplifier	MGA-52543-BLKG	SMD 108-5623	3.04	2.30	1.94	– –	– –
72543	AV	4	SOT-343	Low Noise Amplifier With Bypass Switch, 0.1 to 6 GHz	MGA-72543-BLKG	SMD 108-5615	3.90	3.29	2.76	2.43	2.31
81563	AV	6	SOT-363	RFAmplifier 3V, 0.1 - 6 GHz, 14dB	MGA-81563-BLKG	SMD 108-5616	2.83	2.51	2.32	1.96	1.68
82563	AV	6	SOT-363	RF Amplifier 3V, 0.1 - 6 GHz, 17dB	MGA-82563-BLKG	SMD 108-5617	3.10	2.74	2.40	2.02	1.84
83563	AV	6	SOT-363	+22dB, D109PSAT Power Amplifier,C103 3V, 0.5-6 GHz	MGA-83563-BLKG	SMD 108-5618	3.87	3.05	2.31	1.82	1.62
85563	AV	6	SOT-363	Low Noise Amplifier for 0.8-6GHz applications, 3V, +12 to +17dB	MGA-85563-BLKG	SMD 108-5619	2.54	2.10	1.79	1.57	1.49
87563	AV	6	SOT-363	0.5-4 GHz,3V, Low Current GaAs MMIC LNA, 12.5dB at 2.4 GHz	MGA-87563-BLKG	SMD 108-5620	1.90	1.61	1.36	1.19	1.13
91563	AV	6	SOT-363	0.8-6 GHz Downconverter, Single +3V Supply, +0 dBm Input IP3 at 1.9 GHz, 8.5dB SSB Noise Figure at 1.9 GHz, 9.0dB Conversion Gain at 1.9 GHz	IAM-91563-BLKG	SMD 108-5624	2.46	1.85	1.57	– –	– –
370333	TI	24	QFN	Quadrature Modulator, 0.4-4GHZ	TRF370333IRGET	NEW! SMD 161-0197	10.26	8.54	6.75	– –	– –

210448

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
12	HT	18	DIP	REMOTE CONTROL ENCODER	HT12A 18 DIP	120-7996	0.88	0.73	0.58
12	HOLTEK	20	SOP	Encoder IC	HT12A-20SOPLF	SMD 142-0863	0.80	0.64	0.53
12	HT	18	DIP	8-Bit Decoder With 28address code and 4-Bits of encoder data at 4 decoder output pins. Complements HT12E	HT12D	121-1514	2.48	1.90	1.37
12	HOLTEK	20	SOP	Decoder IC	HT12D-20SOPLF	SMD 142-0864	0.80	0.64	0.53
12	HT	18	DIP	12-Bit, Low Power, High Noise Immunity Encoder	HT12E	121-1512	2.48	1.90	1.37
12	HT	20	SOIC	12-Bit, Low Power High Noise immunity Encoder	HT12E-20SOP	SMD 120-7993	0.88	0.73	0.58
12	HT	18	DIP	12-Bit Decoder With 212 address code. Complements HT12E	HT12F	121-1513	1.32	0.95	0.68
12	HT	20	SOIC	12-Bit, Decoder With 212 address code. Complements HT12E	HT12F-20SOP	SMD 120-7995	2.78	2.29	1.82
2270	ATM	16	SOIC	Read/Write Base Station	U2270B-MFPY	SMD 109-5806	2.82	2.04	1.62
6026	HT	16	DIP	39Remote Controller Encoder (MC145026 compatible)	HT6026	121-1515	1.05	0.77	0.59
6034	HOLTEK	18	DIP	Series of Decoders	HT6034-18DIPLF	142-0869	0.97	0.78	0.64
7050	HOLTEK	3	SOT	CMOS 5.0V Voltage Detector	HT7050A-1-SOT89LF	SMD 142-0871	0.40	0.32	0.27

Broadcast Video Products



The **GS2974A** is a high-speed BiCMOS integrated circuit designed to equalize and restore signals received over 75Ω co-axial cable. It is designed to support SMPTE 424M, SMPTE 292M and SMPTE 259M, and is optimized for performance at 1.485Gb/s and 2.97Gb/s.
The **GS2978** is a high-speed BiCMOS integrated circuit designed to drive one or two 75Ω co-axial cables. It may drive data rates up to 2.97Gb/s and provides two selectable slew rates in order to achieve compliance to SMPTE 424M, SMPTE 259M, SMPTE 344M and SMPTE 292M.
The **GS1531** is a multi-standard serializer with an integrated cable driver. When used in conjunction with the GO1555/GO1525 Voltage Controlled Oscillator, a transmit solution can be realized for HD-SDI, SD-SDI and DVB-ASI applications.
The **GS2975A** is a Multi-Rate Serial Digital Reclocker designed to automatically recover the embedded clock from a digital video signal and re-time the incoming video data. It will recover the embedded clock signal and re-time the data from a SMPTE 424M, SMPTE 292M, or SMPTE 259M-C compliant digital video signal.
The **GS9091B** is a 270Mb/s equalizing and reclocking deserializer with an internal FIFO. It provides a complete receive solution for SD-SDI and DVB-ASI applications. In addition to this, the GS9091B performs NRZI -to-NRZ decoding, descrambling as per SMPTE 259M-C, and word alignment when operating in SMPTE mode.
The **GS1559** is a reclocking deserializer with a serial loop-through cable driver. It also includes a range of data processing functions such as error detection and correction, automatic standards detection, and EDH support.
The **GO1555** is a self contained, miniature Voltage Controlled Oscillator. It produces a clean 1.485GHz reference clock signal with low spurious noise content. It is designed to drive 50Ω strip lines.
The **GS4915** provides a low jitter clock output when fed with an HD or SD video clock input. Other input clock frequencies between 12MHz and 165MHz can be automatically passed through to the GS4915 outputs. It can operate in either auto or fixed frequency mode.
The **GS4911B** is a highly flexible, digitally controlled clock synthesis circuit and timing generator with genlock capability. It can be used to generate video and audio clocks and timing signals, and allows multiple devices to be genlocked to an input reference

510304

	Pins	Pkg	Data Rate (Mb/s)	Power (mW)	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
Equalisers										
	16	QFN	143 - 2970	215	GS2974A HD-LINX™ III Adaptive Cable Equalizer	GS2974ACNE3	SMD 160-3763	24.63	20.53	17.60
Cable Drivers										
	16	QFN	143 - 2970	168	GS2978 HD-LINX® III Multi-Rate Dual Slew-Rate Cable Driver	GS2978CNE3	SMD 160-3764	7.87	6.56	5.62
	100	BGA	–	–	GS1531 HD-LINX® II Multi-Rate Serializer with ClockCleaner™	GS1531CBE2	SMD 166-4152	30.84	25.71	22.04
Reclockers										
	64	QFN	270, 1485, 2970	400	GS2975A HD-LINX® III Multi-Rate SDI Automatic Reclocker with Dual Differential Outputs	GS2975ACNE3	SMD 160-3765	31.88	26.57	22.77
Receivers										
	100	BGA	270	350	GS9091B GENLINX® III 270Mb/s Deserializer for SDI and DVB-ASI with Integrated Cable Equalizer.	GS9091BCBE3	SMD 160-3766	44.71	37.26	31.94
	100	BGA	270, 1485	500	GS1559 HD-LINX™ II Multi-Rate Deserializer with Loop-Through Cable Driver	GS1559CBE2	SMD 160-3768	30.84	25.71	22.04
VCOs										
	8	PLL	–	–	GO1555 Voltage Controlled Oscillator	GO1555IXTE3	SMD 160-3769	8.28	6.90	5.92
Timing										
	40	QFN	–	250	GS4915 ClockCleaner™	GS4915INE3	SMD 160-3770	15.32	12.77	10.95
	64	QFN	–	300	GS4911B HD/SD/Graphics Clock and Timing Generator with GENLOCK	GS4911BCNE3	SMD 160-3771	40.37	33.64	28.84

Evaluation Boards for ISM Band Transmitters/ Transceivers

The ADF70xx Series of Transmitters and ADF702x Series of Transceivers from ADI are suitable for automatic meter reading (AMR), Industrial Automation, alarm and security systems, home automation systems, remote controls and other wireless network & telemetry systems where low-power consumption and very long range are required.

These daughter boards allow the functionality and performance of the ADF7012/ADF7020-1 to be easily evaluated. To control the ADF7020/ADF7020-1 register settings via the PC you will need the EVAL-ADF70XXMBZ mother board.

492371

		Order Code	Price Each
Daughter Board For ISM Band Transmitters			
EVAL-ADF7012DBZ2	862MHz - 870MHz	143-9124	36.73
EVAL-ADF7012DBZ5	50MHz - 1.0GHz*	143-9125	40.41
Daughter Board For ISM Band Transceivers			
EVAL-ADF7020-1DBZ5	80 MHz - 650 MHz*	143-9126	41.39
Transmitters/Transceivers			
ADF7012BRUZ	50MHz - 1.0GHz	SMC 134-6367	4.02
ADF7020-1BCPZ	80 MHz - 650 MHz	SMC 127-4184	4.66

* This evaluation board does not have loop filter, matching network, reference crystal or inductor. To set the desired frequency, consult the datasheet for choice of inductor.

PMA71xx Transmitter ICs for Wireless Control

The PMA71xx family contains a fully integrated VCO and integer N PLL synthesizer, a high efficiency power amplifier with selectable output power, an embedded 8051 micro-controller with 6kbyte Flash and 10 GPIOs. The internal multi-channel 10-bit ADC with its flexible high-gain settings can be used as an interface for a broad variety of analog sensors.
The integrated LF-Receiver enables wireless wake-up in battery operated applications for ultra-long-lifetime or even contactless configuration of the device. An associated software function library provides powerful functions like AES-encryption.
All devices are designed for lowest current consumption and include an advanced power control system to save battery life time. The multiband capability allows the usage of

Communications - Radio Frequency ICs - continued

PMA71xx Transmitter ICs for Wireless Control - continued

only one device for four different frequency bands and as such reducing development time and costs.

PMA 7105: ASK/FSK transmitter and embedded microcontroller, ideal for remote controls.
PMA 7106: ASK/FSK Transmitter with integrated microcontroller, additional 3-channel 10 bit ADC with flexible gain settings, targeting wireless sensor applications.
PMA 7107: ASK/FSK Transmitter with integrated microcontroller, additional LF receiver for applications requiring wireless wake-up or contactless device configuration.
PMA 7110: ASK/FSK Transmitter with integrated microcontroller, integrated 3-channel 10 bit ADC and LF receiver for highly sophisticated wireless systems.

519048

Pins/Pkg	Freq. Band	Modulation Type	Transmit Power @ 3V	FLASH	RAM	Emulated EEPROM	ADC	LF Receiver	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
38/TSSOP	315/434/868/915 MHz	ASK/FSK	5.0/8.0/10.0 dBm	6 Kb	256 bytes	31 byte	✓	✓	PMA7110	SMD 163-0559●	10.57	7.93	6.79
38/TSSOP	315/434/868/915 MHz	ASK/FSK	5.0/8.0/10.0 dBm	6 Kb	256 bytes	31 byte	–	✓	PMA7107	SMD 163-0560●	9.15	6.87	5.89
38/TSSOP	315/434/868/915 MHz	ASK/FSK	5.0/8.0/10.0 dBm	6 Kb	256 bytes	31 byte	✓	–	PMA7106	SMD 163-0561●	8.01	6.01	5.15
38/TSSOP	315/434/868/915 MHz	ASK/FSK	5.0/8.0/10.0 dBm	6 Kb	256 bytes	31 byte	–	–	PMA7105	SMD 163-0562●	7.24	5.44	4.66

Programmable Compandors

ON Semiconductor

These devices are dual-channel, high-performance gain control circuit in which either channel may be used for dynamic range compression or expansion. Each channel has a full-wave rectifier to detect the average value of the signal, a linearized temperature-compensated variable gain cell, and an operational amplifier. Typical applications are radio communications systems, modems, telephone, and satellite broadcast/receive audio systems.

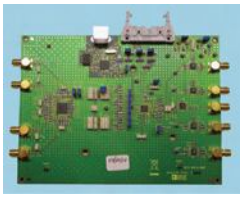
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	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	25+	50+	100+	250+
570	ON SEMI	16	SOIC	Programmable compandor	NE570DG	SMD 142-6392●	3.41	2.78	2.54	2.31	2.10
571	ON SEMI	16	SOIC	Programmable compandor	SA571DG	SMD 142-6393●	3.28	2.68	2.45	2.21	2.02
572	ON SEMI	16	PDIP	Programmable compandor	SA572NG	142-6397●	4.08	3.31	3.02	2.74	2.50

AD8339 Evaluation Board

ANALOG DEVICES

New



This evaluation board is used for the evaluation of the AD8339 Quad I/Q Demodulator and Phase Shifter. Four single-ended RF inputs can be phase aligned using the LNA inputs of an AD8334 and the 16 phase adjustment options of the AD8339. The RF input signals can be derived from three sources, user selectable by jumpers. Test points enable signal tracing at various circuit nodes. The AD8339 requires dual power supplies. A 3.3 V on-board regulator provides power for the USB and EEPROM devices.

504714

Mftrs. List No.	Description	Order Code	Price Each
AD8339-EVALZ	AD8339 Evaluation Board	154-2715●	328.87

AD9912 Evaluation Board

ANALOG DEVICES

New



The AD9912 evaluation board is an evaluation platform for the AD9912 direct digital synthesizer (DDS). It easily connects to a host computer via a USB interface and allows easy access to all AD9912 features via the Windows®-based evaluation software and graphical user interface.

Package Includes:
- AD9912 evaluation board
- USB cable
- CD-ROM featuring evaluation software, Instructions, Datasheet & Schematics

504720

Mftrs. List No.	Description	Order Code	Price Each
AD9912/PCBZ	AD9912 Evaluation Board	154-2711●	197.12

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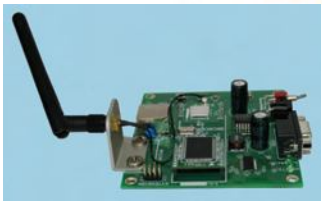
Communications - Embedded Connectivity

iWiFi Secure Socket and Evaluation Board

ConnectOne



iW-SM2128MW-EU



II-EVB-361MW-EU-220

New

The iW-SM2128MW-EU Secure Socket iWiFi is a secure serial-to-wireless LAN device server module that also acts as a bridge to connect serial devices to wireless LANs. It includes the iChip Communication Controller chip and Marvell WiFi chipset. It is packaged in RoHS-compliant SocketModem form factor and uses the standard SocketModem pin-out.

Features:
Security:
- Acts as a security gap between the host application and the network
- One secure SSL3/TLS1 socket
- Provides WEP, WPA and WPA2 wireless LAN security
- Includes a true hardware random number generator

Protocols:
- Up to 10 simultaneous TCP/UDP sockets and two listening sockets
- HTTP client
- DHCP client and server
- Sending and receiving textual email and binary email with attachments

The II-EVB-361MW is an evaluation platform for the Secure Socket iWiFi Internet Controller. Secure Socket iWiFi is a secure serial-to-Wireless LAN device server module that also acts as a bridge to connect serial devices to wireless LANs. Secure Socket iWiFi enables sending and receiving textual and binary data, MIME-encoded email messages; downloading HTML pages or files from a Web server, or items from within a page. It also includes an FTP client and a Telnet client. Secure Socket iWiFi supports numerous security protocols like SSL3/TLS1, 64/128-bit WEP.

Included in the box:
- The II-EVB- 361MW motherboard including Secure Socket iWiFi (iW-SM2128MW)
- A serial cable with two DB-9 connectors
- Antenna
- Power supply adaptor (110V/220V)

502024

Mftrs. List No	Description	Order Code	Price Each
IW-SM2128MW-EU	Secure Socket iWiFi Module	155-4872●	41.25
II-EVB-361MW-EU-220	Evaluation Board for Secure Socket iWiFi Module	155-4873●	111.83

Wi. Development Kits

RADIOTRONIX

New



The RK-Wi.232EUR™ development kit is designed for the evaluation and design of the Wi.232EUR-R™ embedded radio module. This module operates in the 868-870 MHz band and can be used to transmit/receive data for virtually any wireless application. Its built-in protocol controller makes adding wireless communications to your product quick and easy.

Features:
- 6 Channels in narrowband mode
- 2 Channels in wideband mode
- 152.34 kbit/sec. Max RF data rate
- 16 bit CRC error checking
- True UART to Antenna solution
- PHY and MAC layer protocol built in
- 115 dB Link Budget

Kit Includes:
- 1x Development Case
- 1x Development Utility and Documentation CD
- 2x Development Boards
- 2x WI.232EUR-EVM-R modules (pinned)
- 2x 900 MHz Antennas
- 2x RS-232 Cables
- 2x USB Cables
- 6x AAA Batteries
- Quick Start Guide

RK-WI.232EUR-R



The RK-Wi.FS24-100ST development kit is designed to support the Wi.FS24-100ST™ zigbee-ready 802.15.4 radio module. It provides the end user the ability to quickly become familiar with the Wi.Freestar module.

Features:
- Point-to-point and point-to-multipoint
- 4,000+ feet line of sight performance
- Integrated PCB Trace Antenna
- FCC, IC, and CE certified
- Direct Sequence Spread Spectrum
- CSMA-CA
- Flash-based/ upgradable
- 10 bit A/D (2 inputs)
- General Purpose I/O (8 ports)
- Windows- based Config and Test Tool
- Simple Serial UART Interface
- Over 65,000 network addresses

Kit Includes:
- 2x RF Modules
- 2x Interface Evaluation Boards
- 2x RS-232 Interface Cables
- 4x AA Batteries
- 1x CD
- Quick Start Guide

RK-WI.FS24-100ST



The RK-Wi.DP1203-XXX-RTM is a rapid-development/evaluation kit for the Wi.DP1203-XXX-R module.

Features:
- SPI style digital serial interface
- Simple FCC certification as a digital spread spectrum device
- 433/ 868/ 900 MHz
- 32 wideband and 84 narrow band channels
- TX current 62mA @ 14dBm typical
- RX Current 14mA typical
- Supports Frequency Hopping Wi.DP1203-915-R
- 1.2-152.34kb/sec RF data rate
- Maximum +15dBm output power
- Instant radio solution
- Transceiver only radio only device
- RX Sensitivity at Max data rate -103 dBm

Kits Include:
- 1x Development Case
- 1x Development Utility and Documentation CD
- 2x Development Boards
- 2x Wi.DP1203-XXX-EVM-RTM modules (pinned)
- 2x Antennas
- 2x RS-232 Cables
- 2x USB Cables
- 6x AAA Batteries
- Quick Start Guide

RK-DP1203-xxx-R

505575

Mftrs. .List No.	Description	Freq. Band	Modulation Type	Baud Rate	Vcc	Order Code	Price Each
RK-DP1203-433-R	RK-DP1203-433-R (433MHz) Development Kit	433 - 435 MHz	FSK/DTS	1200 - 152340	2.4 - 3.6V	**156-5148**	151.40
RK-DP1203-868-R	RK-DP1203-868-R (868MHz) Development Kit	868 - 870 MHz	FSK/DTS	1200 - 152340	2.4 - 3.6V	**156-5147**	151.40
RK-WI.232EUR-R	RK-WI.232EUR-R Development/Evaluation Kit	868 - 870 MHz	FSK	2400 - 115200	4 - 15V	**156-5145**	151.40
RK-WI.FS24-100ST	Wi.FS24-100ST (Wi.FreeStar™) Development Kit	2400 - 2483.5 MHz	FSK	250	2.4 - 3.6V	**156-5146**	203.06

Wi.FREESTAR™ Module



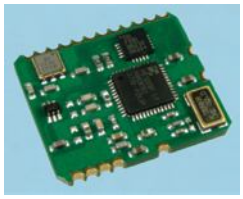
The Wi.FREESTAR™ is a powerful long range 802.15.4, 2.4GHz Zigbee-ready 100mW embedded radio module in a miniature footprint. It is ideally suited for point-to-point/multipoint networks or in Zigbee ™mesh applications. This module is FCC, IC and CE certified for fast and simple integration into an end application. With two programmable output modes (10mW and 100mW) this radio meets worldwide regulatory requirements.

Features Include:
- 4,000+ feet line-of-sight performance
- Integrated PCB Trace Antenna
- Direct Sequence Spread Spectrum
- CSMA-CA
- Flash-based/ upgradable
- 10 bit A/D (2 inputs)
- General Purpose I/O (8 ports)
- MS Windows- Based Configuration and Test Tool
- Simple Serial UART Interface
- 65,000+ network addresses

505709

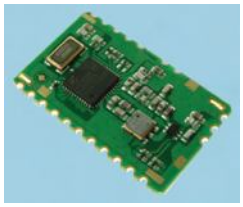
Mftrs. List No.	Freq. Band (MHz)	Modulation Type	Baud Rate	Vcc	Order Code	Price Each 1+
WI.FS24-100ST	2400 - 2483.5	FSK	19200	2.7 - 3.6V	**156-5156**	19.59

Digital Embedded Modules



The Wi.232EUR-R embedded radio module is targeted for the European market. It combines a low power wireless transceiver with a powerful multipoint-to-multipoint protocol controller. This forms an easy transparent SERIAL UART wireless communication solution, interfacing to any host microcontroller capable of replacing wires in any RS-232/422/485 application. No special addressing or formatting of data is required. Multiple modules can operate on the same channel because of the built-in carrier-sense-multiple-access (CSMA) protocol.

Features:
- 16-bit CRC error checking
- 76.8kbit/sec maximum RF data rate
- 2 channels in Wideband mode
- 6 channels in Narrowband mode
- Low power standby and sleep modes
- PHY and MAC layer protocol built in
- CSMA medium access control
- 115dB link budget in Wideband mode
- 8 modes allow user to optimize power/range
- Command mode for volatile and nonvolatile configuration
- 48-bit unique address
- 5 volt tolerant I/O



All the Wi.DP120x modules supports wide band and narrow band communication. These modules are suitable for operation in the European Social alarm bands (25kHz channel spacing) and can meet European (ETSI EN300-220-1 and EN301 439-3) compliance standards.

- The Wi.DP1203-433-R module has +15dBm output power and sensitivity of -111dBm @ 2.4kb/s and will support data rates up to 152.34 kb/s
- The Wi.DP1203-868-R module has +15dBm output power and sensitivity of -113dBm @ 4.5kb/s and will support data rates up to 152.34 kb/s
- The Wi.DP1205 modules have +15dBm output power and sensitivity of -113dBm @ 4.5kb/s and will support data rates up to 304.7 kb/s

Wi.DP1203 / Wi.DP1205 Features:
- SPI style digital serial interface
- TX current 62mA @ 14dBm typical
- Simple FCC certification as a digital spread spectrum device
- 32 wideband and 84 narrow band channels
- RX Current 14mA typical
- Supports Frequency Hopping

505715

Mftrs. .List No.	Description	Freq. Band (MHz)	Modulation Type	Baud Rate	Vcc	Order Code	Price Each
WI.232EUR-R	Wi.232EUR-R Embedded Radio Module	868 - 870	FSK/DTS	2400 - 115200	3.6 - 2.7V	**156-5157**	17.42
WI.DP1203-868-R	WI.DP1203-868-R Embedded Transceiver Radio-only Module	868 - 870	FSK/DTS	1200 - 152340	2.4 - 3.6V	**156-5158**	11.18
WI.DP1203-433-R	Wi.DP1203-433-R Embedded Transceiver Radio-only Module	433 - 435	FSK/DTS	1200 - 152340	2.4 - 3.6V	**156-5159**	11.18
WI.DP1205-868-R	WI.DP1205-868-R Embedded Transceiver Radio-only Module	868 - 870	FSK/DTS	1200 - 304700	2.4 - 3.6V	**156-5160**	11.85
WI.DP1205-433-R	WI.DP1205-433-R Embedded Transceiver Radio-only Module	433 - 435	FSK/DTS	1200 - 304700	2.4 - 3.6V	**156-5161**	11.85

RL Re-reeling available

Communications - Embedded Connectivity - continued

MatchPort™ Embedded Wireless Device Server and Demo Kit

LANTRONIX



MP10010NMK-01



MP100x000G-01

MatchPort™ b/g enables the building of wireless networking into virtually any electronic device with a serial interface. With this full-featured, turnkey embedded device server module, products can be wirelessly accessed and controlled over the Internet. It enables future proofing of designs with a choice of flexible media-independent 802.11 b/g or Ethernet networking products.

Software is not supplied with the wireless devices server, but can be downloaded free directly from the Lantronix website.

Wireless Standards:	IEEE 802.11b; 802.11g
Frequency Range:	2.412 - 2.484 GHz
Output Power:	14dBm +2.0 dBm/-1.5 dBm (does not include antenna gain)
Maximum Receive Sensitivity:	-91dBm @ 1Mbps
Data Rates With Automatic Fallback:	54Mbps - 1Mbps
Range:	Up to 328 feet indoors
Modulation Techniques:	OFDM, DSSS, CCK, DQPSK, DBPSK, 64 QAM, 16 QAM

The MatchPort™ Demonstration Kit is designed to help successfully implement the pin-compatible MatchPort b/g embedded modules into a product design.

MatchPort Demonstration Kit Includes:
- MatchPort Demonstration Board
- RS-232 cable, DB9F, null modem
- CAT5e UTP RJ45M/M Ethernet cable
- Antenna

493351

Mftrs. List No.	Description	Order Code	Price Each
MP1001000G-01	MatchPort b/g Embedded Wireless Device Server	134-5255●	64.49
MP1002000G-01	MatchPort b/g AES Embedded Wireless Device Server	134-5256●	66.76
MP10010NMK-01	MatchPort Demonstration Kit	134-5257●	89.62

WiPort™ Embedded Wireless Networking Device Server

LANTRONIX



The matchbox sized WiPort integrated hardware and software network processor module enables wireless networking to be integrated into virtually any electronic device with serial or Ethernet capability.It is powered by a Lantronix DSTni Ethernet processor SoC, which includes a 10Base-T/100Base-TX MAC/PHY and 256 KB of on-chip SRAM, WiPort also includes a complete 802.11 b/g radio and 2MB of Flash memory for web page storage and system upgrades. WiPort connects through its coaxial pigtail" to an external panel-mounted antenna.
With WiPort products can be wirelessly accessed and controlled over a network or the Internet.

Features:
- Serial-to-Ethernet networking in the same form factor and pinout a wireless WiPort
- Provide a smooth transition to 802.11b/g wireless networking without any board redesign (using WiPort)
- Proven operating system, embedded web server complete network protocol stack
- 256-bit AES encryption for secure communications
- EMC/EMI-compliant

451688

	Order Code	Price Each
WP2001000-01G	129-7889●	76.93

WiPort™ Embedded 10Base-T/100Base-TX Device Modules

LANTRONIX



Features:
- Two serial ports
- 10Base-T/100Base-TX Ethernet connectivity (using external RJ45 jack)
- 2MB of Flash memory for OEM web pages
- 11 GPIOs
- Available CAN, SPI and I2C interfaces
- PoE-capable with external circuitry
- Programmable e-mail alerts
- 256-bit AES Rijndael encryption for secure communications
- Extensive networking protocol including full TCP/IP stack

The matchbox-sized WiPort NR is a 10Base-T/100Base-TX version of the Embedded Wireless Networking Device Server. Both modules share the same form factor and pinout.

451711

Beschreibung	Order Code	Price Each
WP500100S-01	129-7890●	40.82

XPort Direct Embedded Device Gateway Module and Demo Kit

LANTRONIX



XD1001000-01



XD100100K-01

The compact XPort Direct Embedded Device Gateway module delivers network connectivity to virtually any electronic product with a serial interface on its host microcontroller. It offers network connectivity as a standard feature and enables a host of applications such as remote monitoring, networked control, data acquisition and Internet content streaming.The XPort Direct Demo Kit is designed to help implement XPort Direct into product design.

XPort Direct Embedded Device Gateway Module Features:
- Integrated module with RJ45 featuring dedicated networking SoC
- Complete TCP/IP protocol stack and Windows deployment software
- Up to 230 Kbps data rate
- Compact low profile
- 2 x 12 pin, 2 mm headers
- Two GPIO pins
- RS-232/RS-485 ready

XPort Direct Demo Kit Includes:
- XPort Direct Printed Circuit Board Assembly
- CD, XPort Direct (CD-XPD-01)
- Null Modem Cable DB9F to DB9F (6ft)
- CAT5 Ethernet Cable (10ft)

493302

Mftrs. List No.	Description	Order Code	Price Each
XD1001000-01	XPort Direct Embedded Device Gateway Module	134-5252●	27.73
XD100100K-01	XPort Direct Embedded Device Gateway Module, Demo Kit	134-5253●	94.95

XPort® Embedded Ethernet Device Server

LANTRONIX



XPort is a compact, integrated solution to webenable any device with serial capability. XPort removes the complexity of designing network connectivity into a product by incorporating all of the required hardware and software inside a single embedded solution. Smaller than your thumb, it includes all essential networking features, including a 10Base- T/100Base-TX Ethernet connection, proven operating system, an embedded web server, e-mail alerts, a full TCP/IP protocol stack, and 256-bit AES encryption for secure communications (optional).

Features:
- Complete, integrated solution in an RJ45 form factor
- Embedded web server
- Stable, field proven TCP/IP protocol suite and web-based application framework
- EMI tested and compliant
- High-performance processor (12 MIPS at 48 MHz, 22 MIPS at 88 MHz)
- Password protection
- 3.3V power
- Serial-to-10/100 Ethernet conversion
- 921,600 baud serial
- 128, 192, or 256-bit AES Rijndael encryption (optional)

Mftrs. List No	
XP1001000-03R	XPort Extended Temperature
XP1001001-03R	XPort Commercial Temperature
XP1002000-03R	XPort Extended Temperature, With Encryption
XP1002001-03R	XPort Commercial Temperature, With Encryption
XP1004000-03R	XPort With encryption & RS-485 support

451743

	Order Code	Price Each
XP1001001-03R	129-7883●	31.68
XP1001000-03R	129-7884●	38.03
XP1002001-03R	129-7885●	39.05
XP1002000-03R	129-7886●	40.17
XP1004000-03R	129-7887●	41.87

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XPort® AR - Embedded Processor Module



The size of a few sugar cubes, XPort® Architect™(AR) is the first device server solution that goes beyond simple network connectivity to deliver an enterprise grade, programmable device computing and networking platform.
This Embedded Processor Module builds on our proven XPort serial-to-Ethernet/IP technology that enables device manufacturers to add Ethernet or IP connectivity as a standard feature to their products. The additional features above and beyond the original XPort, include:

- Evolution OS operating system
- Two full serial ports with all hardware handshaking signals or three serial portswithout handshaking signals
- 11 configurable pins
- Supports fully compliant Power Over Ethernet (PoE) designs by using PoE compliant magnetics and passing through both the used and unused pairs
- Increased memory: 4MB Flash and 1.25MB RAM
- Hardware capability in place to allow future software support for I2C Bus, SPI Bus, CAN Bus, USB, External interrupts, including one non-maskable, Timer input

451761

	Order Code	Price Each
XP3002000-01R	129-7888●	70.15

Serial to Ethernet Device Servers



UD1100002-01



UD2100002-01

The UDS family of device servers enables users to connect, manage and control just about any piece of equipment with a serial port from virtually anywhere over Ethernet or the Internet. They are a quick, simple and inexpensive way to bring the advantages of remote management and control to equipment not currently connected to a network.

Features:

- Network virtually any device in minutes
- Access, monitor and control equipment over Ethernet
- Replace dedicated PCs and/or modem lines with fast and reliable Ethernet networking
- Configure quickly and easily via HTTP, DHCP, Telnet, serial or Lantronix DeviceInstaller™ utility
- Environmentally-friendly RoHS and WEEE compliant
- Features TruPort® Com port control technology

523954

Mftrs. List No.	Description	Order Code	Price Each
UD1100002-01	1-Port Serial to Ethernet Device Server	165-0340●	107.27
UD2100002-01	2-Port Serial to Ethernet Device Server	165-0341●	143.03

WiBox® Dual-Port Wireless Device Server



The WiBox® dual-port device server enable users to connect equipment to 802.11b/g wireless networks via serial or Ethernet, quickly and easily. By merging wireless communications and Lantronix device server technology, WiBox simplifies connectivity to devices in applications where mobility is required or cabling is impractical.

Features:

- Enables access to remote devices while minimizing costly cabling
- Provides network mobility for untethered communication
- Industry standard 802.11b/802.11g wireless interface
- Transparent communications - no need to develop special software
- Two DB9 DTE serial ports supporting RS-232, RS-422 or RS-485 communication
- Bulletproof wireless security with IEEE 802.11i-PSK,WPA-PSK, TKIP
- 256-bit AES - end-to-end encryption
- Ethernet or wireless communication
- Features TruPort ®Com port control technology

523955

Mftrs. List No.	Description	Order Code	Price Each
WB2100EG2-01	WiBox® Dual-Port Device Server	165-0342●	240.43

WiSpan™ Ethernet-to-Wireless Bridge



The WiSpan™ wireless bridge gives virtually any piece of electronic equipment with an Ethernet port industry-standard wireless 802.11 b/g connectivity quickly and easily. Its built-in IEEE 802.11i-compliant security ensures data privacy and integrity, and it features a rugged design and wide temperature range to easily handle harsh environments.

Features:

- Equips Ethernet-ready electronic equipment with 802.11 b/g wireless connectivity
- Enables remote monitoring and control of devices around the world
- Provides bulletproof wireless security with IEEE 802.11i-PSK, WPA-PSK, TKIP
- Ruggedized design and wide operating temperature range to withstand harsh environments
- FCC Class B, UL and EN EMC and safety-compliant

523960

Mftrs. List No.	Description	Order Code	Price Each
WBG1000002-01	WiSpan™ Wireless Bridge	165-0343●	221.33

Digi Connect ME Family Wired / Wireless Embedded Modules & Kits



Connect ME Embedded Module



Connect Wi-ME Embedded Module



Connect ME/Wi-ME Jumpstart Kit

The industry's first interchangeable secure wired and wireless embedded modules with plug-and-play functionality and comprehensive development tools make it easy to add embedded web-enabled wired and wireless network connectivity.
Based on a unique common platform design approach, the Digi Connect® ME and Digi Connect® Wi-ME embedded modules offer complete 'drop-in' integration. This allows the user to build future-proof products based on a single design supporting secure wired 10/100Base-T and 802.11b wireless Ethernet connectivity. The family of Digi Connect® embedded modules makes all of this possible without the traditional complexities of hardware and software integration work, and at a fraction of the time and cost required to create custom solutions.

The Jumpstart kit provides Rapid application development for the Digi Connect ME or Digi Connect Wi-ME networking modules. Digi Connect Development Kits provide immediate and complete access to the resources and peripherals of a Digi Connect module. Each kit includes everything you need to complete your development, including a module, development baseboard, and hardware and software development tools.

RL Re-reeling available

Communications - Embedded Connectivity - continued

Digi Connect ME Family Wired / Wireless Embedded Modules & Kits - continued

Network Interface:
Digi Connect ME:
- Standard: IEEE 802.3
- Physical Layer: 10/100Base-T
- Data rate: 10/100 Mbps (auto-sensing)
- Mode: Full or half duplex (auto-sensing)
- Connector: RJ-45
- 802.3af mid-span power pass-through

Digi Connect Wi-ME:
- Standard: IEEE 802.11b
- Frequency: 2.4 GHz
- Data rate: Up to 11 Mbps
- Modulation: CCK (11/5 Mbps),DQPSK (2 Mbps), DBPSK (1 Mbps)
- Transmit power: 16 dBm typical
- Receive sensitivity: -82 dBm @ 11 Mbps
- Antenna connector: 1 x RP-SMA

Hardware:
- 32-bit NET+ARM high-performance
- RISC processor (NS7520 @ 55 MHz)
- Digi Connect ME on-board memory
- 2 MB Flash and 8 MB RAM
- Digi Connect Wi-ME on-board memory
- 4 MB Flash and 8 MB RAM
- On-board power supervisor
- High-speed TTL serial interface
- Throughput up to 230 Kbps
- Full signal support for TXD, RXD, RTS, CTS, DTR, DSR and DCD
- Hardware/software flow control
- Five shared GPIO ports
- Wave-solderable design
- No clean flux process

Wireless Security:
- WEP (Wired Equivalent Privacy)
- 64/128-bit encryption (RC4)
- WPA/WPA2/802.11i
- 128-bit TKIP/CCMP encryption
- 802.1x EAP authentication

LEAP (WEP only), PEAP, TTLS, TLS, GTC, MD5, OTP, PAP, CHAP, MSCHAP, MSCHAPv2, TTLS-MSCHAPv2
- Pre-Shared Key mode (PSK)

Dimensions:
(LxWxH)
- Digi Connect ME
36.7mm x 19.05mm x 18.67mm
- Digi Connect Wi-ME
49.4mm x 19.05mm x 18.67mm

Kit Includes:
- Digi Connect ME module
- Digi JumpStart Kit development board
- Digi JTAG Link USB 2.0 hardware debugger
- Digi NET+OS CD
- Documentation and development board schematics
- Power supply and accessories
- Quick start guide

503123

Mftrs List No.	Description	Order Code	Price Each
Digi Connect® ME Modules			
DC-ME-01T-C	Connect ME Embedded Module	155-2645●	31.86
DC-WME-01T-C	Connect Wi-ME Embedded Module	155-2647●	91.00
Digi Connect® ME Kits			
DC-ME-NET	Connect ME JumpStart Kit for NET+OS 7.x	155-2646●	356.79

Digi Connect ME Digi JumpStart Kit

for .NET Micro Framework



The Digi JumpStart Kit™ for Microsoft® .NET Micro Framework provides an easy-to-use and complete solution for embedded development. Complete integration with the Visual Studio tools makes rapid application development instantly accessible to software designers that are already familiar with Microsoft server and desktop platforms.

Kit Contents & Features:
- Digi Embedded Module
- Development Board
- Power Supply
- Sample Code
- User Documentation

The included Microsoft .NET Micro Framework SDK and the fully functional 90-day trial of Microsoft Visual Studio 2005 enables professional embedded C# development right out of the box.

493786

Mftrs List No.	Description	Order Code	Price Each
DC-ME-MF	Digi JumpStart Kit™ for Microsoft® .NET Micro Framework	136-5672	217.23

Digi Connect EM Family Wired & Wireless Embedded Modules



Connect EM Board-Mount Embedded Module



Connect Wi-EM Board-Mount Embedded Module



Connect EM JumpStart Kit for NET+OS 7.x

The Digi Connect® EM and the Digi Connect® Wi-EM are the industry's first interchangeable secure embedded modules, delivering wired and wireless Ethernet networkconnectivity that is cost-effective and easy to implement.
Based on a unique common platform design approach, these embedded modules offer complete drop-in integration. This allows the user to build future-proof products based on a single design supporting secure 10/100Base-T wired and 802.11b wireless Ethernet connectivity.

The easy-to-use, cost-effective, and complete Digi JumpStart Kit for NET+OS delivers a royalty-free turnkey solution for embedded software development based on the ThreadX Real-Time Operating system (RTOS). This kit minimizes product design risks and dramatically shortens traditional time-to-market aspects of C-based embedded product development by providing all needed software and hardware components right out of the box.

Network Interface:
Digi Connect EM:
- Standard: IEEE 802.3
- Physical Layer: 10/100Base-T
- Data rate: 10/100 Mbps (auto-sensing)
- Mode: Full or half duplex (auto-sensing)
- Connector: RJ-45

Digi Connect Wi-EM:
- Standard: IEEE 802.11b
- Frequency: 2.4 GHz
- Data rate: Up to 11 Mbps w/ auto talk back
- Modulation: CCK (11/5 Mbps), DQPSK (2 Mbps), DBPSK (1 Mbps)
- Transmit power: 16 dBm typical
- Receive sensitivity: -82 dBm @ 11 Mbps
- Antenna connector: 2 x RP-SMA

Hardware:
- 32-bit NET+ARM high-performance
-RISC processor (NS7520 @ 55 MHz)
- On-board memory 4 MB Flash and 8 MB RAM
- On-board power supervisor
- Two high-speed TTL serial interfaces
- Throughput up to 230 Kbps
- Full signal support for TXD, RXD,RTS, CTS, DTR, DSR and DCD on port 1
- TXD / RXD signals on port 2
- Hardware/software flow control
- Serial Peripheral Interface (SPI)
- Nine shared General Purpose
- Input/Output (GPIO) ports
- Wave-solderable design
- No clean flux process

Wireless Security:
- WEP (Wired Equivalent Privacy)
- 64/128-bit encryption (RC4)
- WPA/WPA2/802.11i
- 128-bit TKIP/CCMP encryption
- 802.1x EAP authentication

LEAP (WEP only), PEAP, TTLS, TLS, GTC, MD5, OTP, PAP, CHAP, MSCHAP, MSCHAPv2, TTLS-MSCHAPv2
- Enterprise and Pre-Shared Key (PSK)

Dimensions:
(LxWxH)
- Digi Connect EM
49.149mm x 40.005mm x 15.621mm
- Digi Connect Wi-EM
49.149mm x 47.117mm x 19.939mm

Kit Includes:
- Digi Connect EM module
- Digi Connect WiEM module
- Development board
- Full schematics
- Digi ESP IDE
- Digi JTAG Link USB-based debugger
- Power Supply and connecting cables

503124

Mftrs List No.	Description	Order Code	Price Each
Digi Connect® EM Modules			
DC-EM-02T-C	Connect EM Board-Mount Embedded Module	155-2649●	56.56
DC-WEM-02T-S	Connect Wi-EM Board-Mount Embedded Module with Plug-and-Play Firmware	155-2652●	104.00
DC-WEM-02T-C	Connect Wi-EM Board-Mount Embedded Module for NET+OS	155-2653●	104.00
Digi Connect® EM Kits			
DC-EM-NET	Connect EM JumpStart Kit for NET+OS 7.x	155-2651●	356.79

RL Re-reeling available

DIGI Connect ME Wire/Wireless Modules & Development Tools



The industry's first interchangeable secure wired/wireless embedded modules with plug-and-play functionality supported by development tools for custom applications, making it easy to add embedded web-enabled wired and wireless network connectivity. A common platform design approach enables the Digi Connect® ME and Digi Connect® Wi-ME embedded modules to offer complete "drop-in" integration. This supports building of future-proof products on a single layout design by simply selecting between 10/100 Mbit Ethernet or 802.11b WLAN with WPA2/802.11i.

- 32-bit Net + ARM High Performance Processor
- Family of interchangeable and pin-compatible solutions
- 2/4 MB Flash and 8MB RAM
- High-speed TTL serial interface with up to 230 kbps throughput
- 5 shared GPIO port options
- Fully pre-certified radio reduces overall design cost/risk and time-to-market
- Industrial operating temp and FCC Class B low-emission design
- NIST-certified 256-bit AES encryption based on SSL/TLS
- Strong, standards-based wired and wireless security out-of-the-box

Network Interface

Digi Connect ME:
- Standard: IEEE 802.3
- Physical layer: 10/100 Base-T
- Data rate: 10/100Mbps
- Mode: Full or Half duplex
- Connector: RJ-45

Digi Connect Wi-ME:
- Standard: IEEE 802.11b
- Frequency: 2.4GHz
- Data Rate: up to 11Mbps with auto-fallback
- Receive sensitivity: -82dBm @ 11Mbps
- Antenna connector: RP-SMA

464692

Mftrs. List No	Description	Order Code	Price Each
Modules			
DC-ME-01T-S	Ethernet Serial Module	**133-7910●**	33.63
DC-WME-01T-S	WiFi Serial Module	**133-7911●**	94.29
Development Tools			
DC-ME-01T-KT	Serial Ethernet Evaluation Kit	**133-7908●**	178.06
DC-WME-01T-KT	Evaluation WiFi Serial Kit	**133-7909●**	218.69

ConnectCore Wi-9C Module

For NET+OS



The unique design of the ConnectCore Wi-9C combines an ARM9 main processor performance, enterprise-class security, wired and wireless network capabilities, broad embedded platform support, and a seamless migration path to a fully integrated system-on-chip solution.

Features:
- 16 MB SDRAM
- 4 MB Flash
- USB, Ethernet, 2 x RP-SMA antenna connectors (antennas not included)
- Secure 802.11b/g wireless and wired network connectivity

503125

Mftrs List No.	Description	Order Code	Price Each
CC-W9C-V212-Y9	ConnectCore Wi-9C Module	**155-2654●**	136.50

£ € 40,000 PRICES REDUCED

Connect EM/Wi-EM Integration Kits



The EM/Wi-EM Integration Kits provide access to network connection and web services without the need for custom programming. Using a simple web interface, the plug-and-play firmware can be configured to meet the exact needs of a networking application. WPA2/802.11i software is provided for wireless applications.

EM Integration Kit Contents:
- Digi Connect EM w/LED array & RJ-45
- Digi Connect EM development board
- Full schematics for development board
- Power supply and connecting cables
- Complete documentation
- Integration CD

Wi-EM Integration Kit Contents:
- Digi Connect Wi-EM w/LED array
- Digi Connect EM development board
- Full schematics for development board
- Power supply and connecting cables
- Complete documentation
- Integration CD

503126

Mftrs List No.	Description	Order Code	Price Each
DC-EM-02T-KT	Connect EM Integration Kit (For use with "S" Models)	**155-2655●**	232.70
DC-WEM-02T-KT	Connect Wi-EM Integration Kit (For use with "S" Models)	**155-2656●**	232.70

Drop-in Networking Starter Kit

ZNet 2.5



Drop-in Networking solutions provide end-to-end wireless connectivity to electronic devices in locations where wired infrastructure does not exist or satisfy customer needs. This Drop-in Networking Starter Kit demonstrates how Drop-in Networking technology can be used to better manage geographically distributed assets, enhance customer service, and even develop alternative sources of service-based revenue.

Features:
- Reduced-cost kit allows quick configuration of a low-power WPAN network
- Includes programmable XBee modules and device adapters, ConnectPort X gateway and Watchport/T temperature sensor
- Python programming tools included for custom application development

526330

Mftrs List No.	Description	Order Code	Price Each
XK-B11-SK-W	Drop-in Networking Starter Kit	**167-4278●**	437.66

44.2 MHz RabbitSys Operating System Development Kit



The kit provides embedded systems designers the ability to update, monitor, configure, detect, diagnose, and even debug embedded systems from remote locations.

- Powerful Rabbit® 3000 microprocessor at 44.2 MHz
- On board RJ-45 10Base-T Ethernet
- Up to 512K Flash/1024K SRAM
- 50 digital I/O 7 configured auxiliary I/O bus
- 6 serial ports capable of (IrDA, HDLC/SDLC, async, SPI)
- Kit contents RCM3365 Module, prototyping board, xD-picture card, Dynamic C development system, serial & accessories cable, RabbitSys CD-ROM and getting started manual

477858

Description	Mftrs.List No.	Order Code	Price Each
44.2 MHz RabbitSys Development Kit	101-1054	**141-5783●**	221.42

22.1 MHz Ethernet Module



The RCM3720 microprocessor module is designed for Ethernet/Internet applications. Extensive demo programs and software application templates make it easy to get the RCM3720 up and running in no time. Software bundles added to the development kit enable rapid development of secure web browser interfaces for embedded system control.This RabbitCore mounts directly on a user-designed motherboard with a single 0.1" (2.54 mm) 2x20 dual-row IDC header and can interface with all types of CMOS-compatible digital devices. With 33 digital I/O (shared with serial ports), power, and other signals are routed directly to the motherboard. Built-in low-EMI features, including a

RL Re-reeling available

Farnell

Communications - Embedded Connectivity - continued

22.1 MHz Ethernet Module - continued

clock spectrum spreader, practically eliminate EMI problems, helping OEMs pass European CE and other regulatory RF emissions tests.The RCM3700, programmed with Rabbit Semiconductor's Dynamic C, executes math, logic, and I/O quickly. The Rabbit 3000 microprocessor, RCM3720, and Dynamic C were designed in a complementary fashion for maximum performance and ease of use in embedded systems.

- Powerful Rabbit® 3000 microprocessor at 22.1 MHz
- On board RJ-45 10Base-T Ethernet
- Up to 512K Flash/256K SRAM, 1MB Serial Flash
- 33 digital I/O & configured auxiliary I/O bus
- 4 serial ports capable of (IrDA, HDLC, asynch, sync, SPI)
- 30mm x 75mm in size
- Kit contents RCM3720 Ethernet PCB, development board with prototyping area, dynamic C development system, serial cable for programming and debugging & complete documentation on CD-ROM with getting started manual

477835

Description	Mftrs.List No.	Order Code	Price Each
22.1 MHz Ethernet Module	101-0964	**141-5782●**	111.37

59.98 MHz Microprocessor Ethernet Core Module



The RCM4200 RabbitCore module is equipped with 10/100 Ethernet connectivity, combined with 8 Mbytes serial flash memory storage for intensive communication and data logging applications. Can be used to for serial to ethernet applications hence for remote monitoring and communications.

- Powerful Rabbit® 4000 microprocessor at 58.98 MHz
- On board RJ-45 10Base-T Ethernet
- Up to 512K Flash/512K SRAM, 8MB Serial Flash
- 25 digital I/O lines with 4 layers & 4 configured auxiliary I/O bus
- 4 serial ports capable of (IrDA, HDLC/SDLC, asynch, SPI)
- Kit contents RCM4200 Module, prototyping board, Dynamic C development system & accessory parts

477859

Description	Mftrs. List No.	Order Code	Price Each
59.98 MHz Microprocessor Ethernet Core Module	101-1156	**141-5784●**	150.67

Rabbit RCM 3000 / 4000 Series Development Kits

New



Development Kit for the RCM3750

Jumpstart your evaluation and design efforts with a complete development kit, which includes a microprocessor core module, development board with prototyping area, Dynamic C development system and complete documentation on CD-ROM, serial cable for programming and debugging, and Getting Started manual.

Rabbit 3000 Series Development Kits:

RCM3000 Development Kit includes:
- RCM3010 RabbitCore Module
- Prototyping Board
- Serial cable for programming and debugging
- Dynamic C® integrated development software
- Getting Started Instructions
- Complete product documentation on CD including the Rabbit 3000 reference manual
- Rabbit 3000 pin specifications poster

RCM3100 Development Kit includes:
- RCM3100 RabbitCore Module
- Prototyping Board
- Serial cable for programming and debugging
- Dynamic C® integrated development software
- Getting Started Instructions
- Complete product documentation on CD including the Rabbit 3000 reference manual
- Rabbit 3000 pin specifications poster

RCM3200 Development Kit includes:
- RCM3200 RabbitCore
- Getting Started manual
- Prototyping board
- Serial Cable for Programming and debugging
- Dynamic C SE software development system (not a trial version) and complete documentation on CD-ROM.

RCM3305 Development Kit includes:
- RCM3305 RabbitCore
- Dynamic C® with royalty-free TCP/IP stack and source
- Prototyping Board
- Getting Started Instructions
- Serial cable for programming and debugging
- Complete product documentation on CD

RCM3400 Development Kit includes:
- RCM3400 RabbitCore (512K Flash/512K SRAM)
- Development board with 10/100Base-T Ethernet and prototyping area
- Dynamic C SE development system (not a trial version) and complete documentation on CD-ROM
- Serial cable for programming and debugging
- Getting Started manual

RCM3600 Development Kit includes:
- RCM3600 RabbitCore (512K Flash/512K SRAM)
- Development board with prototyping area
- Dynamic C development system (not a trial version) and complete documentation
- Serial cable for programming and debugging
- Getting Started manual

RCM3700 Development Kit includes:
- RCM3700 RabbitCore
- Development board with prototyping area
- Dynamic C development system (not a trial version)
- Complete documentation on CD-ROM
- Serial cable for programming and debugging
- Getting Started manual

RCM3750 Development Kit includes (image shown):
- RCM3750 RabbitCore
- Development board with prototyping area
- Dynamic C development system (not a trial version) and complete documentation on CD-ROM
- Serial cable for programming and debugging
- Getting Started manual

Rabbit 4000 Series Development Kits:

RCM4000 and RCM4010 Development Kits includes:
- RCM4000 or RCM4010 RabbitCore Module
- Prototyping Board
- Serial cable for programming and debugging
- Dynamic C® integrated development software
- Getting Started Instructions
- Complete product documentation on CD including the Rabbit 4000 reference manual
- Rabbit 4000 pin specifications poster
- Connectors and accessories

RCM4110 Development Kits includes:
- RCM4110 microprocessor core module
- Development board with prototyping area
- Dynamic C 10 development system and complete documentation on CD-ROM
- Derial cable for programming and debugging
- Getting Started manual

RCM4300 Development Kit includes:
- RCM4300 core module
- MiniSD card
- Prototyping board
- Accessories and development tools to get you up and running quickly.
- Dynamic C integrated development software

RCM4400W Development Kit includes:
- RCM4000 microprocessor core module
- Development board with prototyping area
- Dynamic C 10 development system and complete documentation on CD-ROM
- Serial cable for programming and debugging
- Getting Started manual

RCM4510W Development Kit includes:
- RCM4510W ZigBee core module
- Development board with prototyping area
- Dynamic C 10 development system and complete documentation on CD-ROM
- Serial cable for programming and debugging
- Getting Started manual

523299

RL Re-reeling available

Description	Mftrs. List No.	Order Code	Price Each 1+
RCM3000 Core Development Kit	101-0524	155-4774●	163.88
RCM3100 Core Development Kit	101-0534	155-4771●	131.16
RCM3200 Core Development Kit	101-0553	155-4769●	191.19
RCM3305 Core Development Kit	101-1069	164-9385●	217.59
RCM3400 Core Development Kit	101-0588	155-4765●	221.88
RCM3600 Core Development Kit	101-0679	155-4763●	163.41
RCM3700 Core Development Kit	101-0681	155-4760●	163.41
RCM3750 Core Development Kit	101-1050	155-4758●	180.33
RCM4000 Core Development Kit	101-1146	155-4754●	136.09
RCM4010 Core Development Kit	101-1115	155-4756●	130.35
RCM4100 Core Development Kit	101-1158	155-4752●	125.47
RCM4300 Development Kit	101-1177	155-4747●	175.80
RCM4400W WiFi Core Development Kit	101-1173	155-4745●	175.80
RCM4510W ZigBee Development Kit	101-1188	155-4743●	175.80

RCM 3000 / 4000 Series Core Modules

Rabbit 3000 Series Core Modules:
Featuring the "low-EMI" Rabbit 3000 microprocessor, this range of core modules mount on a user designed motherboard and act as the controlling microprocessor for the system. Small in size but packed with powerful features these core modules give designers a complete package for control and communication.


20-101-0507


20-101-0517


20-101-0520


20-101-1067


20-101-0561

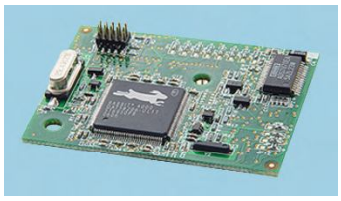

20-101-0672


20-101-0674


20-101-1028

Rabbit 4000 Series Core Modules:
Featuring the Rabbit 4000 microprocessor which out-performs most 16-bit processors without losing the efficiency of an 8-bit architecture. Core modules mount on a user designed motherboard and acts as the controlling micro processor for your system. Small in size but packed with powerful features these core modules give designers a complete package for control and communication.


20-101-1094 / 20-101-1112


20-101-1105


20-101-1131


20-101-1138


20-101-1202



20-101-1207

502287

Mftrs. List No.	Description	Microprocessor	Ethernet Port	Flash	SRAM	Serial/NAND Flash	Order Code	Price Each
20-101-0507	RCM3000 Core Module	Rabbit 3000 @ 29.4 MHz	10Base-T, RJ-45, 2 LEDs	512K (2 x 256K)	512K	–	155-4772●	46.45
20-101-0517	RCM3100 Core Module	Rabbit 3000 @ 29.4 MHz	–	512K (2 x 256K)	512K	–	155-4770●	38.90
20-101-0520	RCM3200 Core Module	Rabbit 3000 @ 44.2 MHz	10/100Base-T, RJ-45, 3 LEDs	512K	512K Prog + 256K Data	–	155-4768●	52.98
20-101-1067	RCM3305 Core Module	Rabbit 3000 @ 44.2 MHz	10/100Base-T, RJ-45, 3 LEDs	512K	512K Prog + 512K Data	8MB (Serial)	155-4766●	70.64
20-101-0561	RCM3400 Core Module	Rabbit 3000 @ 29.4 MHz	–	512K	512K	–	155-4764●	40.89
20-101-0672	RCM3600 Core Module	Rabbit 3000A @ 22.1 MHz	–	512K	512K	–	155-4762●	28.96
20-101-0674	RCM3700 Core Module	Rabbit 3000A @ 22.1 MHz	10Base-T, RJ-45	512K	512K	1MB (Serial)	155-4759●	35.35
20-101-1028	RCM3750 Core Module	Rabbit 3000A @ 22.1 MHz	10/100Base-T, RJ-45	512K	512K	1MB (Serial)	155-4757●	43.51
20-101-1094	RCM4000 Core Module	Rabbit 4000 @ 58.98 MHz	10Base-T, RJ-45, 2 LEDs	512K (16-bit)	512K (16-bit)	32MB (NAND)	155-4753●	52.33
20-101-1112	RCM4010 Core Module	Rabbit 4000 @ 58.98 MHz	10Base-T, RJ-45, 2 LEDs	512K (16-bit)	512K (16-bit)	–	155-4755●	40.82
20-101-1105	RCM4100 Core Module	Rabbit 4000 @ 58.98 MHz	–	512K	512K Prog + 512K Data	–	155-4751●	44.68
20-101-1131	RCM4200 Core Module	Rabbit 4000 @ 58.98 MHz	10/100Base-T, RJ-45, 3 LEDs	512K (8-bit)	512K Prog + 512K Data (8-bit)	8MB (Serial)	155-4749●	63.83
20-101-1138	RCM4300 Core Module	Rabbit 4000 at 58.98 MHz	10/100Base-T Ethernet port	> 1GB (with miniSD Card)	1MB Prog + 512K Data	2MB (Serial)	155-4746●	67.09
20-101-1202	RCM4400W Core Module	Rabbit 4000 @ 58.98 MHz	–	512K	512K Prog + 512K Data	–	155-4744●	70.02
20-101-1207	RCM4510W Module	Rabbit 4000 @ 29.49 MHz	–	512K	512K	–	167-5487●	52.33

Communications - Embedded Connectivity - continued

2000/3000A/4000 Microprocessors

RABBIT Semiconductor

New

The Rabbit 2000 is a 8-bit microprocessor designed expressly to power embedded systems. Its extensive integrated feature set and glueless architecture facilitate rapid hardware design, and its C-friendly instruction set permits efficient development of complex applications.

The Rabbit 3000 is a low-EMI microprocessor designed specifically for embedded control, communications, and Ethernet connectivity. It has 6 serial ports with IrDA, quadrature decoder, PWM outputs, and pulse capture and measurement capabilities. It also features a battery-backable real-time clock, glueless memory, I/O interfacing, and ultra-low power modes. 4 levels of interrupt priority allow fast response to real-time events.

The Rabbit 4000 is a high-performance, low-EMI microprocessor designed specifically for embedded control, communications and Ethernet connectivity. It outperforms most 16-bit processors without losing the efficiency of an 8-bit architecture. Extensive integrated features, glueless architecture and 10Base-T Ethernet facilitate rapid hardware design, while a new C-friendly instruction set promotes efficient development of even the most complex applications.

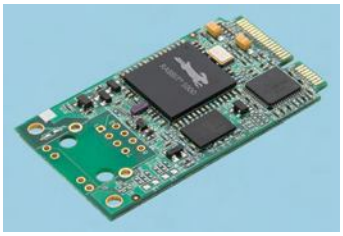
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Mftrs. List No.	Pins/Pkg	Description	Operating Voltage	Clock Speed (Max)	I/O Pins	Serial Ports	Operating Temp.	Order Code	Price Each 1+	10+	100+
20-668-0003	100/PQFP	RABBIT 2000 Microprocessor	5.5V	30MHz	40	4 CMOS - Compatible	-40 to 80°C	SMD 155-4734●	9.97	8.30	6.30
20-668-0011	128/LQFP	RABBIT 3000A Microprocessor	1.8 - 3.6V	55.5MHz	56	6 CMOS - Compatible	-55 to 85°C	SMD 155-4735●	11.62	9.69	7.36
20-668-0024	128/LQFP	RABBIT 4000 Microprocessor	1.8V	60MHz	40	6 CMOS - Compatible	-55 to 85°C	SMD 155-4737●	11.62	9.69	7.36

MiniCore™ RCM5700 Module & Standard Development Kit

RABBIT Semiconductor

New



The MiniCore RCM5700 module packs a rich embedded feature set on an ultra-compact mini PCI Express form factor. As an added benefit the MiniCore RCM5700 offers the lowest profile of any embedded solution. At only 5cm in height, the RCM5700 delivers unprecedented flexibility to place network connectivity anywhere onto a customer-designed mother board.

The standard development kit has the essentials needed to design a microprocessor-based system, and includes a complete Dynamic C software development system. The RCM5700 development kit also contains a development board that will allow evaluation of the RCM5700. Digital I/O and serial accessory boards will help to illustrate the RCM5700 features by running the sample programs included with Dynamic C. You will also be able to write and test software for the RCM5700 modules, including Ethernet or TCP/IP applications.

526339

Mftrs.List No.	Description	Order Code	Price Each
101-1274	Standard Development Kit	167-3626●	69.87
20-101-1235	MiniCore™ RCM5700 Module	167-3627●	22.32

RCM4110 RabbitCore Development Kit

RABBIT Semiconductor

New



The RCM4110 core module is a compact, powerful control device for embedded applications that require I/O control, data handling, and peripheral connectivity.
It is well suited for easy integration with peripheral technologies such as GPS, cellular modems, RFID readers & sensors. A security-key feature with tamper detect and encryption capabilities adds peace of mind for OEM's and system integrators.

Microprocessor	Flash	Data SRAM	Additional Inputs	Additional Outputs
Rabbit 4000 @ 29.49 MHz	512K	256K	Startup mode (2), reset in	Status, reset out

501794

Mftrs.List No.	Description	Order Code	Price Each
101-1102	RCM4110 RabbitCore Development Kit	155-4738●	108.34

RIO™ Programmable I/O Chip & Development Kit

RABBIT Semiconductor

New



The RIO chip is a programmable I/O chip compatible with any processor with an available clocked serial port. It features eight independent channels each with 4 ports which can be configured to several different modes. It can be used to add up to 38 I/O lines to an existing design and adds functionality without the complexity and cost of a processor change.

Clock Speed: Up to 40 MHz
Operating Voltage: 3.0 - 3.6 V DC
Core Current: 22.1184 MHz, @ 31.3 mA, 25°C
I/O Ring: 22.1184 MHz, @ 1.1 mA, 25°C
Output Drive: 8 mA
Communication Interfaces: SPI, 8-bit parallel, RabbitNet
Fixed Digital Inputs: 4



The RIO is also supported by the Programmable I/O Kit intended to demonstrate how to expand an embedded system design by adding additional I/O and other features. The Kit provides a Prototyping Board with a Rabbit RIO already installed and configurable header locations to allow users to develop their own applications

501802

Mftrs.List No.	Description	Order Code	Price Each
20-668-0030	RIO Programmable I/O Chip	SMD 155-4739●	2.36
101-1147	RIO Programmable I/O Application Kit	155-4740●	175.78

Communications - Bluetooth

WT32 Bluetooth Audio Module & Evaluation Kit

blue giga

New



WT32 is the latest generation of Bluetooth modules. It provides highest level of integration with

Module Features:

- Plug n Play Bluetooth Audio Solution for Mono and Stereo Applications
- Integrated DSP, Stereo Codec and Battery Charger
- Chip Antenna or W.FL Connector
- Bluetooth 2.1+EDR Compliant
- Bluetooth End Product, CE, IC and FCC Qualified
- Class 2 - Range up to 30 Metres
- Industrial Temperature Range from -40°C to +85°C
- Based on CSR BC05 chipset
- Low Power Consumption
- iWRAP™ Firmware for Controlling Connections and Configuring Settings
- Supported Bluetooth Profiles: A2DP, AVRCP, HFP (v.1.5), SPP, OPP and HID

integrated 2.4GHz radio, DSP, battery charger, stereo codec and antenna ready to hit mono and stereo audio applications. WT32 is also fully ready to support the latest 2.1 + EDR standard.
The EBWT32-A is an evaluation board for the WT32 Bluetooth module. It includes a stereo headset, onboard installation kit andUSB Serial cable.

524638

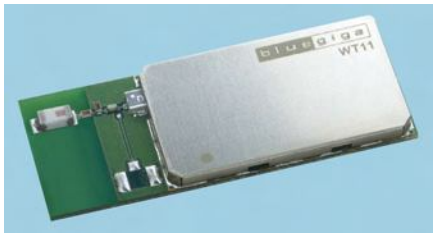
Mftrs. List No.	Description	Order Code	Price Each
WT32-A-AI	Bluetooth Audio Module	165-6897●	44.77
EBWT32-A	Audio Evaluation Board	165-6900●	332.14

FREE technical support
Our trained engineers are here to help!
08447 11 11 22
techsales@farnell.co.uk
Live technical chat at www.farnell.co.uk

WT11 Bluetooth Module & Evaluation Kit

bluegiga

New



WT11 is a next-generation, class 1, Bluetooth 2.0 + EDR module. It introduces three times faster data rates compared to the existing Bluetooth 1.2 modules even with a lower power consumption. It contains all the necessary elements from Bluetooth radio antenna to a fully implemented protocol stack. It is ideal for developers wanting to integrate Bluetooth wireless technology into their designs with limited knowledge of Bluetooth and RF technologies.

Module Features:
- Bluetooth Class 1
- Enhanced Data Rates with data throughput up to 2-3Mbps
- Support for Adaptive Frequency Hopping (AFH) and 802.11 co-existence
- USB version 2.0
- UART with bypass mode
- 8Mbits of flash memory
- Supported profiles: SPP, HFP, OBEX OPP, DUN, HCI, HID
- Industrial temperature range from -40°C to +85°C
- Simple iWRAP™ firmware for controlling Bluetooth wireless technology
- Fully qualified end product with Bluetooth 2.0 + EDR, CE, FCC and IC

The EBWT11-A Evaluation Board is ideal for evaluation the range and performance features of the WT11 Bluetooth Module. It can also be used as as an additional board. This WT11 kit includes 1x WT11 Evaluation Board, 1x Power Adapter and 1x Serial Cable.

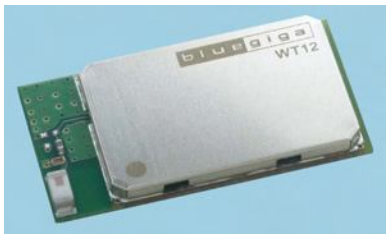
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Mftrs. List No.	Description	Order Code	Price Each
WT11-A-AI	Class 1 Bluetooth 2.0+EDR Module	165-6895●	21.67
EBWT11-A	Evaluation Board with WT11-A Module	165-6898●	208.36

WT12 Bluetooth Module & Evaluation Kit

bluegiga

New



WT12 is Class 2, Bluetooth 2.0+ EDR module. It introduces three times faster data rates compared to existing Bluetooth 1.2 modules even with lower power consumption. WT12 is a highly integrated Bluetooth module, containing all the necessary elements from Bluetooth radio to antenna, a fully implemented protocol stack, and full certifications.

Module Features:
- Bluetooth Class 2
- Enhanced Data Rates (EDR) with data throughput up to 2-3Mbps
- Support for Adaptive Frequency Hopping (AFH) and 802.11 co-existence
- USB version 2.0
- UART with bypass mode
- 8Mb of flash memory
- Supported Bluetooth profiles: SPP, HFP, HFP-AG, OBEX OPP and DUN, + HCI
- Support for on-board applications
- Industrial temperature range from -40°C to +85°C
- Based on CSR BC04 chipset
- Pin-to-pin compatible with Bluegiga WT11 module
- Simple iWRAP™ firmware for controlling Bluetooth wireless technology
- Fully qualified end product with Bluetooth 2.0+ EDR, CE, FCC and IC

The EBWT12-A is a single WT12-A evaluation board which can be used for initial evaluation or as an additional board. The Kit includes 1x WT12 Evaluation board, 1x Power Adapter & 1x Serial cable.

524637

Mftrs. List No.	Description	Order Code	Price Each
WT12-A-AI	Class 2 Bluetooth 2.0+ EDR Module	165-6896●	19.75
EBWT12-A	Evaluation Board with WT12-A Module	165-6899●	208.36

2293 Access Server

bluegiga

New



The WRAP Access Server™ is a cutting edge wireless Bluetooth router. It supports multiple communication standards including Ethernet, WiFi, and GSM/GPRS enabling full media-independent TCP/IP connectivity. It is easy to deploy and manage in existing wired and wireless networks without compromising speed or security. For very fast deployment, configurations can easily be copied from one device to another using USB memory dongles.

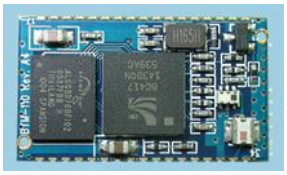
Features:
- Bluetooth Networking
- 21 simultaneous Bluetooth Connections
- Bluetooth, CE and FCC certified
- Acts as a transparent router or bridge
- DHCP Support for plug-and-play installation
- Ethernet, Bluetooth
- USB, RS232 and GPIO
- Incorporates packet filtering firewall
- Fast and easy to install
- All relevant Bluetooth profiles and API's supported
- 100 meter range / Software configurable for support 10 metre range
- Uncompromised security: SSH, Firewall and 128 bit Bluetooth encryption
- Offers an open platform for adding local applications

524640

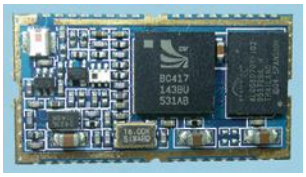
Mftrs. List No.	Description	Order Code	Price Each
2293	Access Server	165-6901●	752.38

Bluetooth Surface Mount Modules

LM TECHNOLOGIES



LM071



LM072

Features:
- Bluetooth standard Ver. 2.0 + EDR certification
- Low current consumption
- 3.0v to 3.6v operation
- Support for up to 7 ACL links and 3 SCO links
- Interface: USB, UART & PCM(for voice CODEC)
- SPP,HSP/HFP,HID,DUN firmware are available
- Support for 802.11 Co -Existence

New

527060

Mftrs. List No.	Description	Order Code	Price Each
LM071	Bluetooth Module - Class 2 BC04	167-5411●	17.15
LM072	Bluetooth Module - Class 1 BC04	167-5413●	20.00

RS232 Bluetooth Serial Adapter & 500 Metre Antenna

LM TECHNOLOGIES





New

The Bluetooth Serial Adapter eliminates conventional RS232 serial cables, providing an easy to use, invisible connection with superior freedom of movement. This tiny adapter allows any device with a standard 9-pin Serial port to communicate wirelessly. You can communicate with another Bluetooth serial adapter or other Bluetooth enabled devices such as a laptop computer, PDA or mobile phone.
Three options for power are available, either via USB connection, mains adapter or Pin 9 of the D SUB 9 pin serial connection.
The LM057 extends the range of the LM058 from 100 Metres to 500 Metres by boosting the wireless signal. These units come packed with extension cable, main aerial and packagedin a white box.

527003

Mftrs. List No.	Description	Order Code	Price Each
LM058	Bluetooth RS232 Serial Adapter	167-5408●	33.34
LM057	500 Meter Antenna	167-5409●	17.15

Mini RS232 Bluetooth Serial Adapter

LM TECHNOLOGIES



New

The LM048 is the worlds smallest Bluetooth Serial RS232 Adapter with a comprehensive range of firmware commands. Using a EDR V2.0 Class 1 Bluetooth chipset as standard these units have a range of up to 100m with a transfer rate of up to 3Mbps.
It has three LED status lights that indicate: Power on, Data transfer status and Bluetooth connection status. The mini USB port can be used to power the unit from either USB to USB or Mains to mini USB.

RL Re-reeling available

Farnell

Communications - Bluetooth - continued

Mini RS232 Bluetooth Serial Adapter - continued

The strong housing is able to with stand knocks and has been drop tested from over 10 metres. This unit also has FCC, CE and RTTE approval.

527015

Mftrs. List No.	Description	Order Code	Price Each
LM048	Mini RS232 Bluetooth Adapter	**167-5410●**	40.00

LM400 Bluetooth UART Module

LM TECHNOLOGIES

New



The 12 Pin UART connection on this device allows it to be used as a plug and play module. This configuration will also allow users to upgrade equipment to Bluetooth SPP RS232 configuration far easier than re-designing a PCB.
By using the module in this way it means that one board can be designed and the Bluetooth module can be retro-fit, which makes upgrading and easy option.

527014

Mftrs. List No.	Description	Order Code	Price Each
LM400	Bluetooth UART Module	**167-5407●**	21.43

Bluetooth to RS232 Module



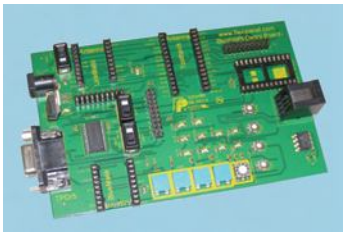
LinkMatik is a fully transparent serial to Bluetooth data link. It enables system designers to easily add a Bluetooth wireless to their products without the need for RF and antenna design expertise.
The module contains all RF circuitry, including integral antenna and baseband controller, and provides a simple-to-use, plug-in module with serial interface to the host application.
The module can interface with many standard Bluetooth devices, e.g. Laptop computers, PDAs, Mobile phones etc.
Operating in slave mode, it initializes itself and waits for a remote device to connect. Operating in master mode, it looks for specific devices to connect to.
For cable replacement applications, a slave and a master are paired together. The modules manage themselves and require no external control. Baud rate, device name, class of device, etc, can be reconfigured from a PC via the serial port.
The modules are supplied in DIN Rail Housings suitable for direct mounting onto DIN Rails.

- Easy-to-use serial data interface
- Class I Bluetooth V2.0 radio, 100m range
- 5-24V DC supply
- DIN rail mounting clip
- Serial baud rates 9600 to 115K baud
- Over-the-air data rate approx 50K full duplex
- Connects with Bluetooth devices (e.g. PDA's, PC's, Phones) as master or slave
- For cable replacement applications, two LinkMatik-232s can pair permanently together one as master, the other as slave
- FCC / CE compliant. Does not need recertification if integral antenna used
- Hardware flow control or no flow control
- Bluetooth PIN code and encryption
- Bluetooth error correction layer
- Integral antenna

492582

	Price Each	
Order Code	1+	5+
151-7431●	114.44	104.04

Bluetooth Demo Board



An Eval board designed to allow the developer to follow the tutorials and examples in the product data sheets. Additionally, the demo board can be used during development as a reliable, tested environment while troubleshooting. Bluetooth modules available separately.

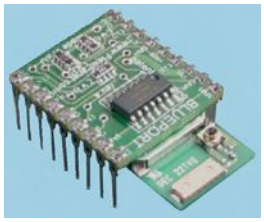
The Bluetooth Demo Board is designed to evaluate the following Bluetooth products:

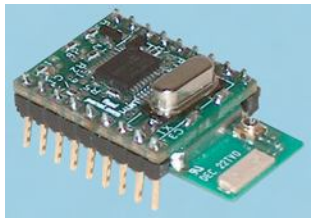
- Enable tutorials in the products data sheets
- RS232 serial port and TTL to RS232 converter
- Toothpick ICD2 programming socket
- Toothpick
- LinkMatik
- BlueMatik

450596

Description	Mftrs. List No.	Order Code	Price Each 1+	5+	10+
Bluetooth Remote Control System	EVAL-BT	**130-4044●**	134.21	127.97	125.89
Power Supply 12V 1A	PSU-12V1AINIP	**130-4023●**	20.29	19.25	18.93

Bluetooth Radio Modules





These modules are fully transparent serial to Bluetooth data links. They enable designers to easily add a Bluetooth wireless feature to their product without the need for RF and Antenna design expertise.
The modules contain all RF circuitry including integral antenna and controller providing a simple-to-use, plug-in module with digital interface to the host application.

Linkmatik and Bluematik

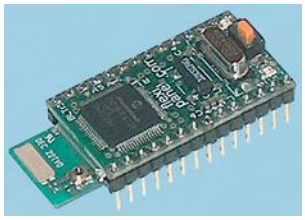
- Easy to use Serial data interface TX / RX or no AT commands
- Pairs with Bluetooth devices (e.g. PDA's, PC's, Phones) as master or slave
- Maximum data rate approx 50K full duplex
- FCC / CE / IC compliant. Does not need recertification if integral antenna used
- Baud rates 1200 to 115K baud
- Hardware flow control or no flow control
- Bluetooth PIN code and encryption
- Bluetooth error correction layer
- Class I Bluetooth radio, 100m range
- 3-5V supply
- Integral antenna
- Direct access to PDA's, Laptops, Mobile Phones
- Enables Bluetooth device control

Bluematik
Uses AT Commands to interface.
Linkmatik
Standard serial data, (no AT commands).

419169

		Price Each		
Mftrs. List No.	Order Code	1+	5+	10+
LINKMATIk	**109-6130**	73.81	70.13	66.85
Evaluation Kit	**130-4044●**	134.21	127.97	125.89
Power Supply	**120-0969**	20.45	19.65	18.90

ToothPIC Bluetooth Radio Module



ToothPIC is a PIC18LF6720 PIC microcontroller and BlueMatik radio combination, preloaded with ToothPIC services firmware user interface server, wireless field programming and ToothPIC Slave for optional external host control.

- Pairs with Bluetooth devices (eg PDA's, PC's, Phone)s as master or slave
- FCC/CE/IC compliant. Does not need re-certification if integral antenna used
- Integral antenna
- 128Kbyte Flash, 3.5K RAM, 1K Eprom up to 512Kbyte I2C external memory
- 12 x 10-bit A to D converter
- 5 x 10-bit PWM outputs
- Serial UART, I2C and SPI communications
- 2 interrupts
- 20MHz and 32KHz oscillators
- Low dropout 400mA power regulator
- 45 x 22mm through-hole mount, suitable for breadboards

Operating Modes
Pre-tested Firmware Solutions ready for immediate standalone operation:

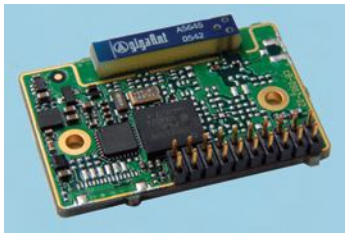
- OpenToothTM Bluetooth device sensor
- DARC-ITM Data acquisition and remote control managed via Bluetooth
- DARC-IITM Data acquisition and remote control with FlexiPanel User Interface
- ToothPIC Slave where ToothPIC is controlled by a host processor via a serial link.
- Standalone ToothPIC programmable in C for low-cost, customized standalone operation

419166

Mftrs. List No.	Order Code	Price Each
TOOTHPICK	**167-6028●**	118.32

Bluetooth Serial Port Adaptor

connectBlue
- your complete Bluetooth provider



The OEM SERIAL PORT ADAPTER™ 312/332 series is a complete set of different Bluetooth modules specially designed to make migration from prior connectBlue Bluetooth generations an easy task.
Small in size yet powerfull, ConnectBlue's modules are ideal for industrial applications.
Based in Sweden where Bluetooth was born, ConnectBlue have extensive experience of all the requirements needed to

supply the market with cost-effective and time-saving Bluetooth solutions, they are able to support customers worldwide.

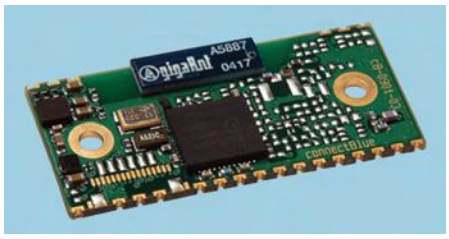
- Electrical and mechanical compatible with OEMSPA13/33
- Compatible Short Range and Long Range modules
- RS232 and UART logic-level support
- Designed for high performance/throughput
- Configurable for short latency/delay
- AT Command support
- Wireless LAN co-existence support
- Configuration over Bluetooth
- Bluetooth Qualified as Product (Bluetooth version 2.0)
- Radio Type Approved for Europe, US and Canada
- Compliant with EMC, Safety and Medical standards
- Only high quality components used
- Internal antenna or external antenna connector
- Different connector and mounting options
- Industrial and Automotive temperature range -30 - +85°C
- Individually tested and tuned in production
- Custom factory configuration possible

467356

Mftrs. List No.	Order Code	Price Each 1+	5+
CB-OEMSPA312I-02	135-1707●	50.35	49.09

Bluetooth Serial Port Adaptor

connectBlue - your complete Bluetooth provider



The OEM SERIAL PORT ADAPTER™311 is a different Bluetooth module specially designed to make the integration an easy task. Small in size yet powerfull, ConnectBlue's modules are ideal for industrial applications.
Based in Sweden where Bluetooth was born, ConnectBlue have extensive experience of all the requirements needed to supply the market with cost-effective and time-saving Bluetooth solutions, they are able to support customers worldwide.

- Small in size
- Compatible Short Range and Long Range modules
- Designed for high performance/throughput
- Configurable for short latency/delay
- AT Command support
- Wireless LAN co-existence support
- Configuration over Bluetooth
- Bluetooth Qualified as Product (Bluetooth version 2.0)
- Radio Type Approved for Europe, US and Canada
- Compliant with EMC, Safety and Medical standards
- Only high quality components used
- Internal antenna or external antenna connector
- Different connector and mounting options
- Module can be soldered directly on to host PCB
- Industrial and Automotive temperature range -30 - +85°C
- Individually tested and tuned in production
- Custom configuration possible

467355

Mftrs. List No.	Order Code	Price Each 1+	5+
CB-OEMSPA311I-04	135-1706●	29.98	28.50

Bluetooth Module Starter Kit

connectBlue - your complete Bluetooth provider



The OEMSPA Complete Kit connected to a PC is the fastest way to get familiar and start integration of the connectBlue Bluetooth modules. The Complete Kit includes Module Adapter, Bluetooth Module (version 2.0), Power cable, RS232 cable, documentation and Configuration software for PC (Wizard).
connectBlue offers a wide range of Bluetooth modules. The kit includes the module cB-OEMSPA311i-04, which is a short range module with integrated, PCB mounted antenna. Other module versions may be ordered separately.
The included Configuration Wizard for PC is an easy to use tool for configuration of the module and start development of Bluetooth applications.
The AT commands supported by the module may also be tested using a standard Hyper Terminal on PC. In addition the kit may be used for firmware upgrades of the Bluetooth module.

- RS232 interface
- 5 VDC power interface
- LED for module status
- cB-OEMSPA311i-04 - Short range BlueTooth module with internal antenna
- UART interface
- USB cable for power included
- Configuration software (PC) included

467354

Mftrs. List No.	Order Code	Price Each 1+	5+
CB-OEMSPA311I-01	135-1705●	138.57	136.19

Bluetooth Access Control



An access security system automatically operated by users mobile phone's Bluetooth. Automatically detects known bluetooth devices within a 10M range. If a recognised device is detected, it energises its relay.
Model: BLUELOCK

- Door lock/access control
- Automated system control eg. lighting, controlled area
- Invisible remote control activates automatically in the presence of the mobile phone
- Up to 128 Bluetooth device ID's may be stored
- FCC/CE/IC certified Class II Bluetooth V1.1 radio, 10m range
- Integral antenna
- External push button release connection
- 12V DC supply (not supplied)

Max Operating Temperature	-20 to 75°C
Dimensions (WxHxD)	85 x 110 x 35mm
Supply Voltage (Unregulated)	12V
Typ. Current, no remote device connected	10mA
Typ. Current, remote devices connected	40mA
Additional Current per Energized Relay	55mA
Max. RF Power Output	Class 1 = 100mW = +20dBm
RF Frequency Range	2402 MHz to 2480 MHz
RF Channels	79
Frequency Hopping	1600Hz
Range	100 m Nominal

456957.439496

Description	Order Code	Price Each 1+	5+
Bluelock	132-7282●	194.20	187.12
12V PSU	130-4023●	20.29	19.25

Bluetooth Remote



BlueControl allows you to turn up to four relays on and off from a windows PC, pocket PC or certain high-end cellphones. The operation range is dependant on the transmitting Bluetooth radio, this can be from 10-200 metres.
Model: BLUECONTROL

- Door lock/access control
- Lighting, controlled power controls
- Industrial switching
- 4 x outputs rate 12A/230Vac
- Outputs latch or momentary
- FCC/CE/IC certified Class II Bluetooth V1.1 radio, 10m range
- Integral antenna
- Pin code security
- 12V DC supply (not supplied)

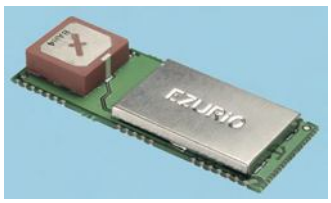
Max Operating Temperature	-20 to 75°C
Dimensions (WxHxD)	85 x 110 x 35mm
Supply Voltage (Unregulated)	12V
Typ. Current, no remote device connected	60mA
Additional Current per Energized Relay	55mA
Max. RF Power Output	Class 2 = 1mW = +20dBm
RF Frequency Range	2402 MHz to 2480 MHz
RF Channels	79
Frequency Hopping	1600Hz
Range	100 m Nominal

456958.439497

Description	Order Code	Price Each 1+	3+
Bluecontrol	132-7283●	166.46	161.09
12V PSU	130-4023●	20.29	19.25

Embedded Bluetooth Module

Laird TECHNOLOGIES



The Embedded Bluetooth Module is specifically designed for embedded applications that need a robust Bluetooth link. It has been designed to cope with rugged applications utilising a direct solder connection that allows the main electronics section to be potted or enclosed within a metal housing, exposing a high performance multilayer ceramic antenna. The UART interface allows the module to be connected to any serial port. As well as a fully approved Bluetooth protocol stack, the module includes a comprehensive AT style interface. It is based on CSR's latest BlueCore BC04 chipset, giving access to the features of the new Bluetooth Version 2.0 specification.

RL Re-reeling available

Farnell

Communications - Bluetooth - continued

Embedded Bluetooth Module - continued

Embedded Bluetooth Module
- Integrated antenna with up to 250 metre range
- Class 1 with +6dBm transmit power (maximum)
- Current consumption less than 36 mA
- Fully integrated Bluetooth stack
- Audio supported through PCM slave connection
- Data transfer rate up to 300kbps
- Multipoint supported
- UART 3.0v interface
- Field upgradeable
- -40°C to +85°C operating range

451160

		Order Code	Price Each
BISMS02BI-01	Embedded Intelligent blue tooth Serial Module	120-9290●	38.46

Development Board
for Bluetooth or Wireless LAN Modules



The development board allows the Bluetooth or Wireless LAN Module to be connected to a PC. The development board provides RS-232 level conversion through a standard 9 way D type connector to all pins of the 40 way and a 50 way Hirose connecters used by Bluetooth or Wireless LAN interface. A separate connector is provided for PCM audio for use with the 40 way Bluetooth modules.

Features:
- Plated through connections to access every pin of either module
- Choice of power options: pin 9 RS232, USB through supplied cable, an external 5v power supply
- Built in RS232 Level shifter
- EZURiO terminal PC software
- Jumper link for current measurement
- Access to all 40 and 50 way module pins via through plated header holes
- Dedicated PCM port for quick audio application development (Bluetooth only)
- On board power regulation

451254

		Order Code	Price Each
BISDK02BI-02	EZURiO Development Board	120-9293●	108.99

High Speed Bluetooth USB Adapter



The Bluetooth USB adapter is designed with the most advanced Bluetooth features in a product that has been engineered to ensure the highest quality and reliability. This is a professional product intended for system critical use where robustness and reliability are critical. The USB adaptor has been designed to ensure wireless applications work just as well in real world deployment locations as in the controlled environment of an engineering lab.

Features:
- Over 300 metres open field connectivity
- Adaptive Frequency hopping to cope with interference from other wireless products
- Automatic high speed performance using the Enhanced Data Rate of Bluetooth Version 2.0+EDR specification with data rate up to 3Mbps
- Supports extended SCO to provide the highest quality voice communications
- Low power
- Temperature range of -40°C to +85°C

451255

		Order Code	Price Each
BRBLU03-010A0	High Speed Bluetooth USB Adapter	120-9289●	29.68

200 Bluetooth Serial Module



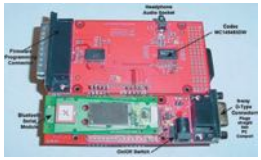
The Bluetooth Intelligent Serial Module is specifically designed for applications where robust short rangeconnectivity is required. This particular module provides a reliable Bluetooth connection that exceeds allrequirements in terms of performance. Having an excellent range of up to 300 metres with very low powerconsumption of less than 36 mA makes this module a true class leader.

Features
- Output Power +6dBm Class 1
- 2.0 Bluetooth
- Support for 128 bit encryption
- 40 way Hirose connector
- Supports 2 X 8 bit Analogue & 9 X Digital I/O
- Receive sensitivity better than -84 dBm

475977

			Price Each	
Mftrs. List No.	Order Code	1+	10+	100+
TRBLU23-00200	120-8389●	98.11	90.44	88.64

Ezurio 300 Bluetooth Serial Module



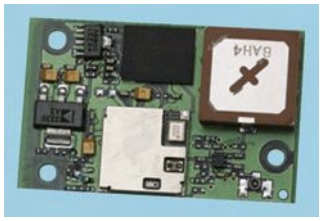
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Features
- Output Power +6dBm Class 1
- 2.0 Bluetooth
- Support for 128 bit encryption
- 40 way Hirose connector
- Supports 2 X 8 bit Analogue & 9 X Digital I/O
- Receive sensitivity better than -84 dBm
- UFL connector for external antenna

475978

			Price Each	
Mftrs. List No.	Order Code	1+	10+	100+
TRBLU23-00300	120-9331●	55.69	51.34	48.74

Wireless LAN Modules



WISMC02/3

WISMC02/3BI
- Complete standalone 802.11b/g wireless module with onboard memory and processor
- Wireless drivers, UDP/SLIP protocols, security and natural language interface embedded into the module
- 12 Configurable GPIO and 10bit ADC accessible to host applications through the UART
- Application configurable low power consumption modes making this idea for power conscious applications
- On board high performance antenna and UFL connector for external antenna or antenna diversity

WISMC01/4BI
- Complete standalone 802.11b/g wireless processor with onboard memory and processor
- Wireless drivers, TCP/IP stack, security and webserver embedded into the module
- Unique and powerful BASIC style scripting language and compiler built into the module for rapid development
- Application configurable low power consumption modes making this idea for power conscious applications
- 12 Configurable GPIO and 10bit ADC accessible to scripts the webserver and UART

496641

Mftrs. List No.	Description	Order Code	Price Each
WISMC03BI-01	802.11 Wireless LAN module SLIP 802.3 BISM size	149-1590●	122.55
WISMC02BI-01	802.11 Wireless LAN Module SLIP 802.3 Extended Connector	149-1591●	122.55
WISMC01BI-01	802.11 Wireless LAN Module UW TCP/IP BISM Size	149-1592●	94.05
WISMC04BI	802.11 Wireless LAN Module UW TCP/IP Extended Connector	149-1594●	107.84

Bluetooth™ PC Cards, Modules & RS232 Adaptor



BHCRS02BI



BISPC01BI



TRBLU24-00100/200



BTM402

- BHCRS02BI Bluetooth® RS232 Adapter

The RS232 Adapter allows any device with a standard DB9 RS232 to upgrade to Bluetooth wireless connectivity. Combined with the AT style interface this brings versatile adaptation to cable replacement within easy reach. This product has been designed as a true industrial adapter, with an exceptional range of up to 250 metres ensuring a reliable and robust connection regardless of the environment, thus allowing connection to any other Bluetooth device using the same profile. The Bluetooth RS232 Adapter can be used as a direct cable replacement in any application utilising an RS232 port.

- BISPC01BI Bluetooth™ PC Card with embedded stack

The blu2i Bluetooth PC Card is designed for users who want the functionality of a Bluetooth PC Card, but without the need or ability to run a host Windows Bluetooth stack on their system. The blu2i Bluetooth PC Card is unique in providing a complete Bluetooth stack embedded within the card, appearing as a Serial Port to the host system.

- TRBLU24-00100/200 Embedded Bluetooth® HCI Module

These modules are Class 1 industrial surface mount Bluetooth V2.0 module with Enhanced Data Rates - 2.1Mbps. The module are rugged, low profile design, low power consumption and with a range exceeding 300 meters. The UART supports HCI/USB, H4, H5 and BCSP protocols and has fully embedded Bluetooth drivers. Also the modules Supports extended SCO for enhanced audio applications. The modules are fully end approved product and lead free with 2 year warranty.

- BTM402 Bluetooth Module with Power Amplifier

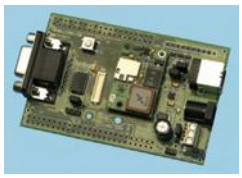
This is a leading high power Bluetooth module with line of sight range exceeding 1000 meters. It has simple AT command interface, fully embedded Bluetooth drivers, 9 configurable GPIO and 2 analogue lines for event and condition monitoring. The 300 kbps data rate makes it suitable for voice applications. The modules are fully end approved product and lead free with 2 year warranty.

RL Re-reeling available

496786

Mftrs. List No.	Description	Order Code	Price Each
BHCRS02BI	Bluetooth RS232 Adapter	149-1597●	84.55
BISPC01BI	Bluetooth PCMCIA Adaptor	149-1598●	94.05
TRBLU24-00100-03	Embedded Module with integrated ceramic antenna & HCI firmware	149-1599●	32.54
TRBLU24-00200 (H)	Embedded Module with integrated ceramic antenna & H4 firmware	149-1601●	32.54
BTM402	Long Range Bluetooth Serial Module with Power Amp.	149-1602●	48.15

Development Kit for the Bluetooth Intelligent Serial Modules & WISM Wireless LAN modules



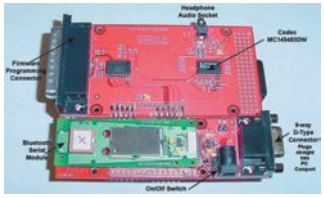
This Development Kit is designed to support the rapid development of hardware, applications and software for the range of BISM II Bluetooth Intelligent Serial Modules and WISM Wireless LAN modules. The development kit is available in five options to cover the widest range of wireless technologies, including hardware support for development of applications for the Siemens MC55 GSM GPRS modules.

● WISDK01BI-01
Complete development kit for SLIP WiFi modulePin compatible with Bluetooth modulePower supply & serial cablesSoftware tools included
● WISDK01BI-02
Complete development kit for AT command (UW) WiFi modulePin compatible with BiSM II Bluetooth modulePower supply & serial cablesSoftware tools includedConnect your applications to the board and use scripting language

496916

Mftrs. List No.	Description	Order Code	Price Each
WISDK01BI-01	Development kit including Wireless LAN 802.11 SLIP (WISM) Module	149-1595●	189.99
WISDK01BI-02	Development kit including Wireless LAN 802.11 TCP/IP (WISM) Module	149-1596●	189.99

Bluetooth Development Kit



The Bluetooth Development Kit is designed to plug into a host motherboard for evaluation purposes or small production runs, it can then be transferred into full volume production with the minimum of design requirements avoiding any lengthy design cycles and lowering design costs.

Features
- 2 point-to-multipoint USB Bluetooth modules for both ends of the wireless communications
- Bluetooth specification 1.1 compliant for the latest released features and compatibility
- Rich set of APIs for maximum development flexibility
- Intelligently designed APIs for concise interfaces
- Sample applications for quick start-up
- Trace utility for configurable, real-time monitoring of all stack layers
- Complete and comprehensive documentation for quick and easy reference
- Simple, intuitive programmer interface

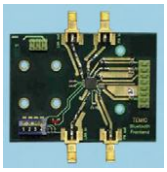
System Requirements:
- Windows 98 SE / Me / 2000 (SP 2) / XP
- Microsoft Visual C++ 6.0 (SP 5)
- USB port
- CD-ROM drive for installation

339723

Mftrs. List No.	Description	Order Code	Price Each
TRBLU23-00200	Bluetooth Serial Module	120-8389●	98.11
TRBLU23-00300	Bluetooth Serial Module	120-9331●	55.69

Bluetooth/ISM 2.4GHz Front-End IC





The T7024 is a monolithic SiGe Transmit/Receive Front-End IC with Power Amplifier, low noise Amp and T/R Switch driver, especially designed for operation in TDMA systems like Bluetooth and WDCT.

Features:
- Single 3V supply
- High power-added efficiency power amplifier (Pout typ 23dBm)
- Ramp-controlled output power
- Low noise pre-amp (NF typ 2.1dB)
- Biasing for external PIN diode T/R switch
- Current-sensing standby mode
- Few external components required
- 20-pin SSOP package

465413

Mftrs. List No.		Order Code	Price Each 1+	10+	100+	+	+
T7024-TRSY	Bluetooth/ISM Front - End IC	SMC 134-9113●	1.48	1.23	0.95	– –	– –
DEMOBOARD-T7024PGM	Bluetooth Power Amplifier Demoboard	134-9114	296.26				

Communications - ZigBee (IEEE 802.15.4) / ISM

ZigBee/802.15.4 Application Kit



New

The ZigBee/802.15.4 Application Kit combines MaxStream's XBee RF modem with RCM3720 RabbitCore module along with an easy-to-use interface to help the user build a practical ZigBee wireless control network. The kit contains three Digi® ZigBee modules for full application reference. One ZigBee module is connected to an Ethernet enabled RCM3720 RabbitCore Module. The RCM3720 runs at 22.1 MHz, and provides 10Base-T Ethernet, 512K Flash, 256K SRAM, 1MB Serial Flash as on-board memory, and 33 GPIO lines. The other two ZigBee modules are standalone node devices.

502266

Mftrs.List No.	Description	Order Code	Price Each
101-1137	ZigBee/802.15.4 Application Kit	155-4742●	217.82

78K0-ZIGBEE-SK ZigBee™ Development Platform



New

This starter kit consists of 2 78K0/KF2+UZ development boards and the IAR software development tools. Also provided are the IEEE 802.15.4 MAC libraries in both banked and non-banked form. The following sample applications are provided:
- RF Test program
- Sample 1 Wireless text chat program
- Sample2 Led test using a star network

526280

Mftrs List No.	Description	Order Code	Price Each
78K0-ZIGBEE-SK	8 BIT MCU ZIGBEE Starter Kit	150-2866	422.48

CC1000 Development Kits



The CC1000DK Development Kits are easy Plug-in, Power-ON and Communicate kits that allows for evaluation of the CC1000 technology by turning it on and starting the SmartRF® Studio. Advanced antenna solutions can be connected and customised application software be applied. Engineers can base designs on the development kit diagrams and the available reference designs.
The CC1000DK is available in two versions, either with VCO inductor and matching network optimised for 433 MHz or 868/915 MHz. The 868/915 MHz version is equipped with a 868 MHz SAW filter, which is replaceable with one covering 915 MHz. The LC filter output can be used at both frequencies.

Features:
- RF power up to 10mW (10dBm) programmable in 1dB steps
- -107 dBm sensitivity for 10-3 bit error rate
- Logic level data input/output (Manchester coded or NRZ)
- Logic level synchronisation clock output
- RSSI output
- 10.7 MHz IF output
- Selectable RF filtering (SAW or LC)
- All set-up controlled by PC
- Selectable 3 V or 4-10 V unregulated voltage supply inputs

Kits Include:
- 2x CC1000PP Plug & Play module
- 5x CC1000 RF Transceiver
- Antennas
- PC cables
- Connectors
- Documentation

RL Re-reeling available

Farnell

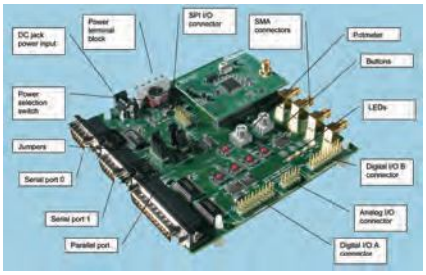
Communications - ZigBee (IEEE 802.15.4) / ISM - continued

CC1000 Development Kits - continued

452105

Description	Mftrs. List No.	Order Code	Price Each
Development Kit, CC1000DK-433MHz	CC1000DK-433	124-8466	317.02
Development Kit, CC1000DK-868/915MHz	CC1000DK-868-915	124-8459	199.55

CC1010 Development Kit



CC1010EB Evaluation Board with CC1010EM plugged in

These CC1010DK Development Kits allow for evaluation of the RF performance of the CC1010, assists through the design cycle, software development and to build a prototype for an application. The kits are available in two versions, 433 MHz & 868/915 MHz.
The CC1010EM contains the CC1010 chip and associated support circuits and can operate as a stand-alone component.
The CC1010EB acts as a motherboard for the CC1010EM Evaluation Modules, provides two serial ports, a parallel interface, buttons, LEDs, a voltage regulator, configuration jumpers and connectors to interface the CC1010 with Chipcon's Integrated Development Environment (IDE), SmartRF® Studio and various test equipment.

Kits Include:

- 1x Evaluation Board (CC1010EB)
- 2x Evaluation Module (CC1010EM)
- 1x Quick Start instruction
- 2x SMA Male Antennas
- 3x SMA to BNC adapters
- 1x Parallel port cable
- 1x Serial null-modem cable
- 1x CC1010 sample kit

452134

Description	Mftrs. List No.	Order Code	Price Each
Development Kit, CC1010DK-433MHz	CC1010DK-433	124-8460	433.96
Development Kit, CC1010DK-868/915MHz	CC1010DK-868-915	124-8461	460.08

CC1020/1070 Development Kit

The CC1020/1070DK Development Kit evaluates the CC1020 and CC1070 technology. Simply power on the boards and start the SmartRF® Studio. It allows for more advanced antenna solutions to be connected and software to be applied. Designs can be based on the development kit diagrams and the reference designs available.
The kit includes 2 CC1020EB evaluation boards, 2 CC1020EM and a CC1070EM evaluation modules. The CC1020EM includes the CC1020 transceiver chip and the CC1070EM includes the CC1070 transmitter chip, both with the necessary external components for operation. The evaluation modules are mounted onto the CC1020EB, ready equipped with a voltage regulator and a PC interface circuitry. With the CC1020EB connected to a PC running the SmartRF® Studio software, the CC1020 and CC1070 system parameters can be changed and tested.
The CC1020/1070DK is available in two versions, optimised either for 433 MHz or 868 MHz.

Features:
CC1020:

- RF output power up to 10/5 dBm programmable in 1dB steps at 433/868 MHz respectively
- High sensitivity (up to -121dBm for a 12.5kHz channel)
- Low Adjacent Channel Power (ACP)
- High Adjacent Channel Rejection (ACR)
- Integrated bit synchronizer
- Image rejection mixer
- Automatic Frequency Control which reduces the crystal accuracy requirement
- Digital RSSI and carrier sense indicator

CC1070:

- RF output power up to 10/8 dBm programmable in 1dB steps at 433/868 MHz respectively
- Low Adjacent Channel Power (ACP)

452135

Description	Mftrs. List No.	Order Code	Price Each
Development Kit 433MHz	CC1020-CC1070DK-433	124-8462	417.49
Development Kit 868/915MHz	CC1020-CC1070DK-868	124-8463	357.67

System-on-Chip Sub-1GHz RF Transceivers

with MCU, Memory and USB Controller

New

The CC1110Fx/CC1111Fx is a true low-power sub-1 GHz system-on-chip designed for low power wireless applications. They combines the excellent performance of the state-of-the-art RF transceiver CC1101 with an industry-standard enhanced 8051 MCU, up to 32 kB of in-system programmable flash memory and up to 4 kB of RAM, and many other powerful features.
The CC1111Fx adds a full-speed USB 2.0 interface to the feature set of the CC1110Fx. Interfacing to a PC using the USB interface is quick and easy, and the high data rate (12 Mbps) of the USB interface avoids the bottlenecks of RS-232 or low-speed USB interfaces.

509350

Pkg/ Pins	Frequency (MHz)	Operating Voltage	Modulation Techniques	RAM Size (KB)	Flash Size (KB)	RSSI Output	FSK Data Rate Max. (kbps)	Mftrs. List No	Order Code	Price Each 1+	10+	100+
QLP 36	300 - 348, 391 - 464, 782 - 928	3 / 3.6V	FSK, OOK, MSK, GFSK	4	32	Digital	500	CC1110F32RSP	SMD 157-3889	6.71	5.60	4.24
QLP 36	300 - 348, 391 - 464, 782 - 928	2 / 3.6V	FSK, OOK, MSK, GFSK	4	32	Digital	500	CC1111F32RSP	SMD 157-3890	6.53	5.44	4.13

CC2400 Development Kits

The **CC2400DK** development kit is a powerful and flexible tool specifically designed to make it easy for the user to evaluate the RF performance of the CC2400 and to minimize the time spent on evaluation.
The Development Kit includes two evaluation boards and two evaluation modules. The evaluation modules contain the CC2400 chip and required external components. The evaluation board serves as a motherboard for the evaluation modules. The evaluation board provides a USB port, a serial port, buttons, LEDs, voltage regulator, configuration jumpers and connectors to make it easy to interface the CC2400 with the SmartRF® Studio software and various test equipment.

CC2400DK Includes:

- 2 Evaluation Boards (CC2400EB)
- 2 Evaluation Modules (CC2400EM)
- 1 Quick Start instructions
- 2 Antennas
- 4 SMA to BNC adapters
- 2 USB cables
- 1 CC2400 sample kit

The **CC2400EMK** evaluation kit in combination with a CC2400 development kit is a powerful and flexible tool specifically designed to make it easy for the user to evaluate the RF performance of the CC2400 and to minimize the time spent on evaluation.
This evaluation kit includes two CC2400EM modules and antennas. The CC2400EM are add-on daughter boards that require a CC2400DK or CC2400DBK development kit for evaluation and development purposes.

CC2400EMK Includes:

- 2 CC2400 Evaluation Modules
- 2 Antennas

452141

Description	Mftrs. List No.	Order Code	Price Each
Development Kit	CC2400DK	124-8470	389.07
Evaluation Module Kit	CC2400EMK	124-8471	88.20

CC2420 Development Kits

The **CC2420DK** development kit is a powerful and flexible tool specifically designed to make it easy for the user to evaluate the RF performance of the CC2420 and to minimize the time spent on evaluation.

CC2420DK Kit includes:

- 2x CC2400EB Evaluation Boards
- 2x CC2420EM Evaluation Modules

The **CC2420DBK** demonstration kit is a complement to the development kit as the hardware is representative of an actual application, and it is well suited as a prototyping platform for application code.

CC2420DBK Kit includes:

- 2x CC2420DB Demonstration Boards
- Connectors where all of the internal signals on the PCB are available

The **CC2420EMK** evaluation kit in combination with a CC2420 development kit is a powerful and flexible tool specifically designed to make it easy for the user to evaluate the RF performance of the CC2420 and to minimize the time spent on evaluation.

CC2420EMK Kit Includes:

- 2 CC2420 Evaluation Modules
- 2 Antennas

452142

Description	Mftrs. List No.	Order Code	Price Each
Development Kit, CC2420DK	CC2420DK	124-8473	460.08
Evaluation Module Kit, CC2400EMK	CC2420DBK	124-8472	330.21
Demonstration Board Kit, CC2420DBK	CC2420EMK	124-8474	102.24

RL Re-reeling available

CC2420ZDK Zigbee Development Kit



This kit is based on the CC2420 transceiver, which has low current consumption and excellent radio characteristics. This enables long battery life with very good range and robust performance. The hardware included in the CC2420ZDK contains necessary support to evaluate, demonstrate, prototype and develop software targeting various ZigBee™ applications. A 30 day evaluation license is included in this kit.

Kit Includes:
- ZigBee Software Development Suite
- CC2400EB Evaluation Board
- CC2420EM Evaluation Module
- 5 CC2420DB Demonstration Boards
- 5 sample pieces of CC2420
- Antennas
- An Atmel JTAG ICE programmer and adapters
- Sensor Network Analyzer from Daintree

501697

Mftrs. List No	Description	Order Code	Price Each
CC2420ZDK	CC2420ZDK ZigBee™ Development Kit	154-9245●	4,029.77

CC2430DB Demonstration Board



The CC2430 Demonstration board is based on the CC2430, a System-on-Chip solution for IEEE 802.15.4 and ZigBee™ applications. The CC2430DB includes many useful peripherals. It can be powered from two AA batteries, over the USB interface or from the 9V DC connectors. It is designed for low power operation to give long battery life. All I/O ports on the CC2430 are available on pin row header at the edge of the board. All I/O signals are available on header connectors on the CC2430DB to allow easy access for connecting external target boards, oscilloscope probes or logic analyzers. The CC2430DB can also be used as an In Circuit Emulator and programmer for custom boards. In addition to this it can be used as a packet sniffer together with TI's packet sniffer software to monitor traffic over the air.

Features:
- Light sensor
- 2-way accelerometer
- Temperature sensor
- Battery monitor
- Potentiometer
- Push button and joystick
- LEDs

501699

Mftrs. List No	Description	Order Code	Price Each
CC2430DB	CC2430DB Development Board	154-9246●	120.09

CC2430 ZigBee Development Kit



The CC2430ZDK is designed to deliver the most powerful elements for ZigBee™ development. The kit is based on the CC2430 System-on-Chip, which includes the core of the CC2420 transceiver, an 8051 controller, flash memory and lots of useful peripherals.
The SmartRF04EB provides the user with functionality such as joystick, buttons, USB port, RS-232 port and an LCD display. This board also includes hardware support for programming CC2430EMs and custom made boards.
The CC2430DB demonstration board will render it possible to implement true low power applications that can last on batteries for years.

Kit Includes:
- TI's ZigBee stack, Z-Stack
- 2x SmartRF04EB Evaluation Boards
- 2x CC2430EM Evaluation Modules
- 5x CC2430DB Demonstration Boards
- Antennas and batteries
- IAR EW8051 C-compiler with C-SPY debugger (30+60 days evaluation license)
- Sensor Network Analyzer from Daintree

514441

Mftrs. List No.	Description	Order Code	Price Each
CC2430ZDK	CC2430 ZigBee Development Kit	157-3879▲	1,089.22

CC2430 Development Kit

The CC2430DK Kit allows for development of applications based on the 802.15.4 network standard. The kit includes all required hardware and software to evaluate, demonstrate, prototype and develop various applications.
The CC2430DK can be used to develop from simple light switches to advanced nodes with many peripherals. A set of sample applications and an 802.15.5 MAC (Media Access Control) software is included to allow users to test performance straightout of the box. A set of hardware interface library software is included.
No additional programmer is needed for the CC2430. Custom boards can be programmed using the SmartRF04EB Evaluation Board, which is included in all CC2430 kits.

Kit Includes:
- 2 x SmartRF04EB Evaluation Boards
- 2 x CC2430EM Evaluation Modules
- 2 x 2.4GHz Antennas
- 2 x USB cables
- CC2430 samples
- 1 x 10-wire flat cable for using SmartRF04EB as emulator for external target

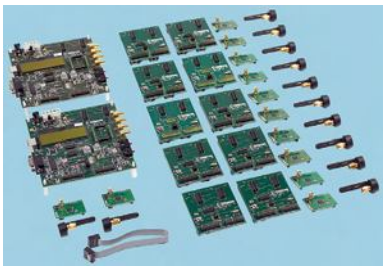
Chipcon Software:
- SmartRF® Studio configuration and test tool
- Chipcon Packet Sniffer

3rd Party Software:
- IAR EW8051 C-compiler with C-SPY debugger CD ROM (60 days evaluation license)

452144

Description	Mftrs. List No.	Order Code	Price Each
Development Kit, CC2430DK	CC2430DK	124-8475●	427.63

CC2431 ZigBee Development Kit



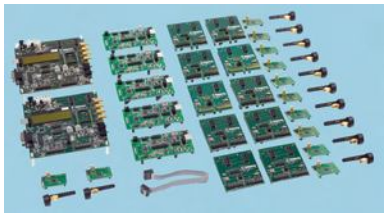
The CC2431DK Development Kit includes a sample application for location calculation and demonstration. Users can evaluate SmartRF®04 products. By applying power to the boards the plug and play kit can be used for range testing. SmartRF® Studio can be used to perform RF measurements, the radio can be easily configured to measure sensitivity, output power, and other RF parameters.
The CC2431DK includes a USB interface that can be used as emulator interface for the CC2430/CC2431. All I/O ports are available on pin connectors on the edge of the board to allow easy access for external applications.

Kit Includes:
- 2x SmartRF®04EB
- 10x SoC_BB
- 2x evaluation modules (CC2430EM)
- 10x evaluation modules (CC2431EM)
- 12x 2.4 GHz antennas
- 2x USB cables
- 1x 10-wire flat cable for using SmartRF®04EB as emulator for external target systems
- Quick start guide
- User's manual
- IAR EW8051 C-compiler with C-SPY debugger (30+30 days evaluation license)

514444

Mftrs. List No.	Description	Order Code	Price Each
CC2431DK	CC2431 Development Kit	157-3881▲	763.86

CC2431 Zigbee Development Kit



The CC2431ZDK is designed to deliver the most powerful elements for ZigBee™ development with the location engine in the market today. The kit is based on the CC2431 System-on-Chip, which includes the core of the CC2420 transceiver, an 8051 controller, 128 kByte flash memory and lots of useful peripherals. It is a very flexible kit that can be used to develop everything from simple light switches to advanced nodes.

The bundled version of the Sensor Network Analyzer from Daintree Networks provides the following:
- Licensed version of the Sensor Network Analyzer Basic edition
- 30-day trial licenses of the Sensor Network Analyzer Professional and Standard editions
- 30-day technical support and software update subscription

Kit Includes:
- TI's ZigBee stack, Z-Stack
- 2 SmartRF04EB Evaluation Boards
- 2 CC2430EM Evaluation Modules
- 5 CC2430DB Demonstration Boards
- 10 CC2431EM Evaluation Modules
- 10 Battery Boards for use with the CC2431EMs
- Antennas and cables
- IAR EW8051 C-compiler with C-SPY debugger (30+60 days evaluation license)
- Sensor Network Analyzer from Daintree

514445

Mftrs. List No.	Description	Order Code	Price Each
CC2431ZDK	CC2431ZigBee Development Kit	157-3882▲	1,452.53

Communications - ZigBee (IEEE 802.15.4) / ISM - continued

System-on-Chip Solutions for 2.4GHz IEE 802.15.4 / Zigbee™

The CC2430 has 128 KB of flash memory. It is a true System-on-Chip solution specifically tailored for IEEE 802.15.4 and ZigBee® applications. It enables ZigBee nodes to be built with very low total bill-ofmaterial costs.

The CC2431 is a true System-On-Chip (SOC) for wireless sensor networking ZigBee/IEEE802.15.4 solutions. The chip includes a location detection hardware module that can be used in so-called blind nodes to receive signals from nodes with known locations. The CC2431 is highly suited for systems where ultra low power consumption is required.

CC2430ZF128RTC and CC2431ZRTC Include royalty for using TI's ZigBee® Software Stack, ZStack™ in an end product

509290

Pkg/ Pins	Description	Frequency (MHz)	Operating Voltage	Modulation Techniques	Operating Temp	Mftrs. List No	Order Code	Price Each 1+	10+	100+
QLP / 48	SoC solution for 2.4 GHz IEEE 802.15.4/ZigBee	2400 - 2483.5	2 / 3.6V	DSSS	-40 to 85°C	CC2430F128RTC	SMD 157-3878●	7.90	5.92	4.75
QFN / 48	SoC for 2.4 GHz ZigBee®/ IEEE 802.15.4 with Location Engine	2400 - 2483.5	2 / 3.6V	DSSS	-40 to 85°C	CC2431RTC	SMD 154-9247●	10.73	9.75	8.94
QLP / 48	SoC solution for 2.4 GHz IEEE 802.15.4/ZigBee	2400 - 2483.5	2 / 3.6V	DSSS	-40 to 85°C	CC2430ZF128RTC	SMD 157-3880●	7.96	5.92	4.75
QFN / 48	SoC for 2.4 GHz ZigBee®/ IEEE 802.15.4 with Location Engine	2400 - 2483.5	2 / 3.6V	DSSS	-40 to 85°C	CC2431ZRTC	SMD 157-3884●	9.34	7.00	5.61

CC2520 Development Kit



The CC2520 Development Kit includes hardware and software that allows quick testing of the CC2520 RF performance and offers a complete platform for development of advanced prototype RF systems and for evaluation of the CC2520 right out of the box. The kit can be used for range testing using the pre-programmed PER tester running on the MSP430F2618.
Use SmartRF® Studio to perform RF measurements. The radio can be easily configured to measure sensitivity, output power and other RF parameters. All I/O from the CC2520 are available on pin connectors on the SmartRF®05EB and on the CCMSP-EM, allowing easy interconnection to other devices or controllers. These connectors are also compatible with logic analyser probes for easy debugging.

Kit Includes:
- 3x SmartRF®05EB
- 3x CC2520EM evaluation modules
- 3x Antennas
- 2x CCMSP-EM430F2618
- 1x MSP-FET430UIF debug interface
- 3x USB cables
- Documents

514446

Mftrs. List No.	Description	Order Code	Price Each
CC2520DK	CC2520 Development Kit	157-3886▲	471.58

CC2500/CC2550 Development Kit

The **CC2500/CC2550DK** development platform supports evaluation, development and prototyping. The user can test range and transfer data from one PC to another using the kits, straight out of the box, enabling the user to workout product fit for the intended application.

CC2500/CC2550DK Incudes:
- 2x Evaluation Boards
- 2x CC2500 Evaluation Modules
- 1x CC2550 Evaluation Module
- Cables and Antenna

The **CC2550EM** contains the CC2550 chip and all the necessary external components, a 26MHz crystal with +/-10ppm initial tolerance and +/-10ppm temperature drift in the range 0 to + 50°C. The load capacitors used are 16pF. A 56kΩ 1% resistor is used to set up a biasing current for the CC2550. The components connected to the RF pins of the CC2550 match to 50 Ohms.

CC2550EM Includes:
- 2x Evaluation Modules
- Antenna

452145

Description	Mftrs. List No.	Order Code	Price Each
Development Kit, CC2500-CC2550DK	CC2500-CC2550DK	124-8465●	396.74
Evaluation Module Kit, CC2500EMK	CC2500EMK	124-8476●	90.88

CC2550EMK Evaluation Module Kit



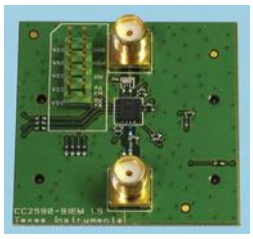
The evaluation module with this kit is an add-on daughter board that requires the CC2500 development kit for evaluation and development. When combined with a mother-board from a CC2500 development kit, users can evaluate the SmartRF®04 products, perform RF measurements and develop prototypes.

Kit Includes:
- 1x CC2550EM evaluation module
- 1x Antenna

501343

		Order Code	Price Each
CC2550EMK	CC2550EMK Evaluation Module Kit	154-9257●	43.80

CC2591EMK Evaluation Module Kit



The CC2591EMK can be used to increase output power to +20 dBm and improve receiver sensitivity up to 6 dB of an existing 2.4 GHz system. A 50 ohm coax cable with SMA connectors should be used to connect the RF signal from the radio to the input of CC2591EM, and the antenna (included) should be connected to the output. The kit requires that you already have another complete 2.4 GHz development kit or RF board.)

Includes:
- 2 x CC2591EM evaluation modules
- 2 x 2.4 GHz antennas
- CC2591 (2.4 GHz RF Front End)
- All required external components

519358

Mftrs. List No.	Description	Order Code	Price Each
CC2591EMK	Evaluation Module Kit	163-1623▲	71.40

System-on-Chip 2.4 GHz RF Transceivers

with MCU, Memory and USB Controller

The CC2510Fx/CC2511Fx are true low-cost 2.4 GHz system-on-chip (SoC) designed for lowpower wireless applications. They combines the excellent performance of the state-of-the-art RF transceiver CC2500 with an industry-standard enhanced 8051 MCU, up to 32 kB of in-system programmable flash memory and 4 kB of RAM, and many other powerful features.
The CC2511Fx adds a full-speed USB controller to the feature set of the CC2510Fx. Interfacing to a PC using the USB interface is quick and easy, and the high data rate (12 Mbps) of the USB interface avoids the bottlenecks of RS-232 or low-speed USB interfaces.

509343

Pkg/ Pins	Frequency (MHz)	Operating Voltage	Modulation Techniques	RAM Size (KB)	Flash Size (KB)	RSSI Output	Data Rate Max. (Mbps)	Mftrs. List No	Order Code	Price Each 1+	10+	100+
QFN	2400 - 2483.5	2 / 3.6V	2-FSK, GFSK, MSK	1	8	Digital	0.5	CC2510F8RSP	SMD 154-9256●	7.20	6.00	5.14
QFN / 36	2400 - 2483.5	2 / 3.6V	2-FSK, GFSK, MSK	2	16	Digital	0.5	CC2510F16RSP	SMD 154-9254●	7.88	6.56	5.63
QFN / 36	2400 - 2483.5	2 / 3.6V	2-FSK, GFSK, MSK	4	32	Digital	0.5	CC2510F32RSP	SMD 154-9255●	8.77	7.30	6.26
QFN / 36	2400 - 2483.5	3 / 3.6V	2-FSK, GFSK, MSK	1	8	Digital	0.5	CC2511F8RSP	SMD 154-9252●	7.76	6.47	5.54
QFN / 36	2400 - 2483.5	3 / 3.6V	2-FSK, GFSK, MSK	2	16	Digital	0.5	CC2511F16RSP	SMD 154-9249●	8.44	7.02	6.03
QFN / 36	2400 - 2483.5	3 / 3.6V	2-FSK, GFSK, MSK	4	32	Digital	0.5	CC2511F32RSP	SMD 154-9251●	9.34	7.78	6.67

MSP430 Wireless Development Tool



The eZ430-RF2500 is a complete wireless development tool for the MSP430 and CC2500. The tool includes a USB-powered emulator to program and debug your application in-system and two 2.4-GHz wireless target boards featuring the highly integrated MSP430F2274 ultra-low-power MCU. The eZ430-RF emulator interface may be used with any Spy Bi-Wire enabled MSP430, such as the F22xx and F20xx series, and is fully compatible with the eZ430-F2013 and eZ430-T2012 target boards.

Features:
- Supports development with all Spy Bi-Wire devices (MSP430F22xx and F22xx)
- Supports MSP430 Application UART allowing serial communication to PC
- eZ430-RF2500T, wireless target board
- MSP430F2274 - 32KB Flash, 1KB RAM, 1 USCI (UART, (2) SPI, I2C, IrDA), 10-bit 200 ksps, 2 Op Amps
- CC2500 - 2.4 GHz, ISM band multi-channel low power transceiver
- eZ430-RF, debugging interface
- Removable USB stick enclosure
- Battery expansion board with 2 AAA batteries

486079

Mftrs. List No.	Description	Order Code	Price Each
EZ430-RF2500	MSP430 Wireless Development Tool	**138-2267▲**	41.75

MSP430 USB Stick F2012 Board



The eZ430-T2012 includes three MSP430F2012-based target boards for the eZ430-F2013 Development Tool. It provides a real-time debugging and programming interface for the MSP430F2012 on the target board, and comes with the easy-to-use IAR Embedded Workbench Integrated Development Environment (IDE). The T2012 can be used to develop a personal project or to evaluate the MSP430 MCU.

Features:
- 3 eZ430-T2012 target boards with a 4-pin connector to fit the eZ430-F2013 USB Development Tool
- MSP430F2012-based target board
- Fully accessible pins
- LED indicator

486093

Mftrs. List No.	Description	Order Code	Price Each
EZ430-T2012	MSP430 USB Stick F2012 Board	**135-9259**	7.30

JN5139 Modules IEEE802.15.4/ZigBee 1 Development Kit, 5 Hardware Modules & a 32 bit Microcontroller IC

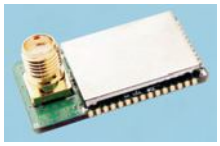
5 Hardware Modules



1500169



1500175



1500176



1500177



1500178



1500179

JN5139-EK010 ZIGBEE Developer Kit
- 5 sensor hardware nodes based on Jennic 32 bit wireless microcontroller
- 7 plug in modules (3 SMA, 2 ceramic antenna, 2 High Power SMA)
- Full software tools C-Compiler, Windows IDE, Zigbee stack and API
- Pre-configured with a home automation demo

Mftrs List No.	TX Power dBm	Antenna	Range km	Receiver Sensitivity dBm	TX/Rx Current mA	Module Size mm
JN5139-Z01-M00R1T	+2.5	Ceramic chip antenna on module	1	-96.5	37/37	18x30
JN5139-Z01-M01R1V	+2.5	SMA connector for external antenna	1	-96.5	37/37	18x30
JN5139-Z01-M02R1V	+19	SMA connector for external antenna	4	-100	120/45	18x41
JN5139-Z01-M03R1T	+2.5	uFL connector for external antenna	1	-96.5	37/37	18x30
JN5139-Z01-M04R1T	+19	uFL connector for external antenna	4	-100	120/45	18x41

JN5139-Z01-AR IC
- 32-bit RISC CPU
- 2.4GHz radio transceiver
- 100dB link budget
- On chip ROM/RAM
- Analogue and Digital peripherals
- Secure 128-bit AES encryption
- Low power sleep modes
- Package 56 pin QFN

495473

Description	Mfrts. List No.	Oper. Temp Min/Max °C	Order Code	Price Each
ZigBee Evaluation Kit	JN5139-EK010R1	-20/70	**150-0169●**	358.91
ZigBee Evaluation Kit	JN5139-EK010R1	-20/70	**150-0169●**	358.91
Module with an SMA Antenna Connector	JN5139-Z01-M01R1V	-20/70	**150-0176●**	15.65
Module with an SMA High Power Amp. & LNA	JN5139-Z01-M02R1V	-20/70	**150-0177●**	19.97
Module with a uFl Antenna Connector	JN5139-Z01-M03R1T	-20/70	**150-0178●**	15.87
Module with a uFl High Power Amp. & LNA	JN5139-Z01-M04R1T	-20/70	**150-0179●**	19.97
Wireless Microcontroller - IEEE802.15.4 & ZigBee	JN5139-Z01-Y	-40/85	NEW SMD **166-3229●**	7.14

JN5139-EK020 Starter Kit



New

This starter kit It is for use with the JN5139 32-bit wireless micro-controller. It provides easy and rapid development of wireless networks using the JenNet network stack or IEEE802.15.4 standard. It supports Jennic's "Jenie" API and Serial "AT-Jenie" programming interfaces, and is preloaded with the following demonstrations: Wireless sensor network, wireless serial link and serial AT.

505573

Mftrs. List No.	Description	Order Code	Price Each
JN5139-EK020	JN5139-EK020 AT-Jenie Starter Kit	**156-5712●**	154.35

ZigBit Development Kit



MeshNetics offers the developers easy-to-use tools to evaluate the ZigBit 802.15.4/ZigBee module, and develop a module-based wireless solution. The Development Kit enables developers to write custom embedded applications using eZeeNet API, prototyping and testing devices with the extra ZigBit module samples (ordererable separately)
ZigBit™ Development Kit (ZDK) is a simple yet powerful tool that enablesDevelopment of wireless sensor network solutions while speeding up time to market and keeping costs down. ZDK is comprised of the ZigBit Evaluation Kit hardware set with testing and embedded application development software.

Development Kit Contents:
- 3 x MeshBean evaluation boards with sensors
- 1 x ZigBit module mechanical sample
- 3 x AC power adaptors with cords
- 3 x USB cables
- 2 x RS232 cables
- 1 x software & documentation CD

Developer's Tools to Create Custom Applications
- Open source HAL to provide full programming support and integration of 3rd-party sensors selected by developer
- Sample applications to bootstrap application development
- Intuitive development environment from Atmel
- Support for client-programmed applications with direct access to ZigBee embedded software stack, i.e. eZeeNet and HAL (100% ANSI C99)
- Convenient reference drivers and APIs for UART, I2C, ADC, and 1-wire interfaces

MeshBean Evaluation Board
- Features ZigBit OEM module with PCB-printed antenna
- Supports standard extension connectors
- Includes temperature, light sensors and other peripheral devices on board

eZeeNet: A Robust IEEE802.15.4/ZigBee Software Stack
- Conforms to ZigBee 1.0 specification
- Tailored for easy-to-use networking in sensing, control, monitoring and data acquisition applications
- Supports mesh and tree network topologies
- Provided as library objects with full API specification in headers

SerialNet: Serial AT Commands for Easy Application Prototyping
- Layered on top of eZeeNet IEEE802.15.4/ZigBee software stack
- Allows programming the board through AT-command serial interface
- No need to program the MCU directly
- Easy evaluation of eZeeNet stack functionality via AT-commands

WSN Monitor: Software for Sensor Networks Visualization
- Visualizes typical data acquisition scenario
- Allows easy evaluation of range and network performance, incl. self-healing feature
- Supports visualization of network topologies
- Allows remote network configuration

Communications - ZigBee (IEEE 802.15.4) / ISM - continued

ZigBit Development Kit - continued

464696

Mftrs. List No	Description	Order Code	Price Each
ZDK-A1281	Zigbee OEM Development Kit	134-5248	786.23

ZigBit™ Development Tools



These easy-to-use tools are used to evaluate the ZigBit 802.15.4/ZigBee module and develop a module-based wireless solution. They provide a convenient way to assess range performance and power consumption of modules in-field. They also enable developers to write custom embedded applications using eZeeNet API.

The ZigBit Development Kit Lite comes with 45 days of complimentary support. This option is good for product demonstration, platform evaluation and quick application prototyping. It gives the user access to standard evaluation and development tools.

The ZigBit Development Kit Complete comes with 1 year of professional support. It provides users with continuous software updates, dedicated design-in support, and RF design assistance. It's ideal for those engaged in a full cycle of developing, prototyping, and launching of innovative products.

Kit Contents:
- 3 x MeshBean Development Boards with Sensors
- 3 x USB Cables
- 2 x External Interface Cables
- 1 x Software and Documentation CD

499852

Mftrs. List No	Description	Order Code	Price Each
ZDK-A1281-PN-LTE	ZigBit Development Kit - Lite	154-5883	320.78
ZDK-A1281-PN-CPT	ZigBit Development Kit - Complete	154-5884	721.76

ZigBit Evaluation Kit



MeshNetics offers the developers easy-to-use tools to evaluate the ZigBit 802.15.4/ZigBee module, and develop a module-based wireless solution. The Evaluation Kit is a convenient way to assess range performance and power consumption of modules in the field.

Evaluation Kit Contents:
- 3 x MeshBean evaluation boards with sensors
- 1 x ZigBit module mechanical sample
- 3 x AC power adaptors with cords
- 3 x USB cables
- 2 x RS232 cables
- 1 x software & documentation CD
- Free 45 day evaluation of the ZigBit Dev Kit software with limited programming support

MeshBean Evaluation Board
- Features ZigBit OEM module with PCB-printed antenna
- Supports standard extension connectors
- Includes temperature, light sensors and other peripheral devices on board

eZeeNet: A Robust IEEE802.15.4/ZigBee Software Stack
- Conforms to ZigBee 1.0 specification
- Tailored for easy-to-use networking in sensing, control, monitoring and data acquisitio-napplications
- Supports mesh and tree network topologies

SerialNet: Serial AT Commands for Easy Application Prototyping
- Layered on top of eZeeNet IEEE802.15.4/ZigBee software stack
- Allows programming the board through AT-command serial interface
- No need to program the MCU directly
- Easy evaluation of eZeeNet stack functionality via AT-commands

WSN Monitor: Software for Sensor Networks Visualization
- Visualizes typical data acquisition scenario
- Allows easy evaluation of range and network performance, incl. self-healing feature
- Supports visualization of network topologies
- Allows remote network configuration from your PC

464695

Mftrs. List No	Description	Order Code	Price Each
ZEK-A1281	Zigbee OEM Evaluation Kit	134-5247	432.43

£ € 40,000 PRICES REDUCED

ZigBit Amplified Modules



ZDM-A1281-PN



ZDM-A1281-PN0

The ZigBit™ A1281-PN Series are ultra-compact, extended range, low-powered, high-sensitivity 2.4GHz 802.15.4/ZigBee OEM modules. They are enhanced by an output power amplifier and an input low-noise amplifier. They are designed for wireless sensing, monitoring & control and data acquisition applications. These modules eliminate the need for costly and time-consuming RF development, and shorten time to market for wireless applications with extended range requirements.

Key features:
- Ultra compact size
- High RX sensitivity (-104 dBm)
- Up to +20 dBm output power
- Very low power consumption
- 128K bytes of flash memory, 8K bytes RAM, 4K bytes EEPROM
- Wide range of interfaces
- 4 ADC lines + 1 line for supply voltage control
- UART with CTS/RTS control
- USART, I2C, SPI, 1-Wire
- IEEE 802.15.4 compliance
- 2.4 GHz ISM band

Benefits:
- Up to 4 kilometers (2 ½ miles) outdoor line of sight range
- Ultra low power consumption combined with outperforming range
- Rapid design-in with onboard U.FL connector (ZDM-A1281-PN)
- Flexibility in using a different external antenna for every application
- Small physical footprint and low profile for optimum fit in even the smallest of devices
- Mesh networking capability
- Easy-to-use low cost Development Kit
- Single source of support for HW and SW

499851

Mftrs. List No	Description	Order Code	Price Each
ZDM-A-1281-PN	ZigBee Amplified Module With U.FL Connector	154-5881	32.87
ZDM-A-1281-PN0	ZigBee Amplified OEM Module with Unbalanced RF Output	154-5882	30.50

Zigbit - OEM Zigbee Modules

Ultra Compact 2.4GHz IEEE802.15.4/ZigBee modules for Wireless Mesh Networking Applications



ZMD-A1281



ZMD-A1281A2

ZigBit is a low-power, high-sensitivity module based on the innovative Atmel's mixed-signal hardware platform. It is designed for wireless sensing, control and data acquisition applications. The ZigBit module eliminates the need for costly and time consuming RF development, and shortens time to market for a wide range of wireless applications. ZigBit packs impressive functionality into less than a square inch of space. Based on a combination of the popular ATmega 1281v MCU and the latest Atmel AT86RF230 radio transceiver, the ZigBit offers superior radio performance with exceptional ease of integration.

The ZigBit already contains a complete RF/MCU-related design with all the necessary passive components included. The module can be easily mounted on a simple 2-layer PCB. No RF expertise is required. Innovative chip antenna design in ZDMA1281- A2 module eliminates the balun and achieves good performance over ZigBee frequency band.

- Ultra compact size: 24 x 13.5 mm for ZDM-A1281-A2 with antenna, 18,8 x 13.5mm with balance RF port
- 2 Antenna options (dual chip antenna and RF output versions)
- Reference hardware drivers
- High immunity to radio interference
- 802.15.4/ZigBee stack
- Network-wide power management software
- Ample memory resources (128 kBytes of flash memory, 8 kBytes RAM, 4 kBytes EEPROM)
- Sample application library
- Very low power consumption (≤6 µA in deep sleep mode)
- Ample memory resources (128 kBytes of flash memory, 8 kBytes RAM, 4 kBytes EEPROM)

Wide range of interfaces (both analog and digital):
- 10 spare GPIO, 2 spare IRQ lines
- 4 ADC lines
- UART with CTS/RTS control
- I2C, USART/SPI
- Up to 30 lines can be configured as GPIO

464694

Mftrs. List No	Description	Order Code	Price Each
ZDM-A1281	ZigBit OEM Module with Balanced RF Port (For use with PCB Antenna)	134-5245	19.37
ZDM-A1281-A2	ZigBit OEM Module with Dual Chip Antenna	134-5246	21.12

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PIXIE Evaluation Board

Zigbee Demo Board



The Pixie Evaluation kit consists a set of two boards, one with a Pixie module mounted onboard, the other with a Pixie Lite module mounted on-board. The modules are preloaded with Pixie Switcher firmware. This is simple switching function using the ZigBee HC-L profile for telemetry.
It is designed to aid speedy development and configuration of a zigbee application. Additionally, the demo boards can be used during development as a reliable, tested environment while trouble-shooting.

The Zigbee Demo Board is designed to evaluate the following Zigbee products:

- EASYBEE
- PIXIE
- PIXIE-LITE

Features:

- Sockets for all modules
- Power regulator, switch and LED, powered from 5-12V DC
- Jumper switches for board configuration
- RS232 serial port and TTL to RS232 converter
- Toothpick ICD2 programming socket
- 24C256 I2C memory chip
- All the pushbuttons, LEDs, presets and switches to run the tutorials in the products data sheets

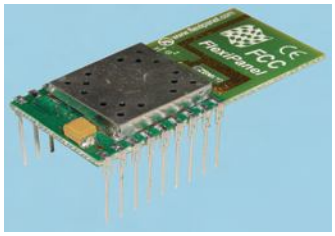
The eval kit is supplied with a variety of firmware solutions, including:

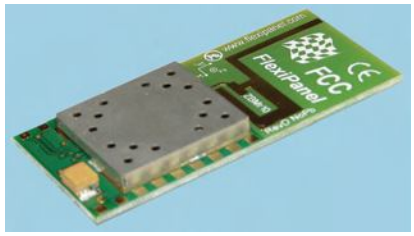
- Switcher HC-L profile (preloaded)
- Sniffer packet eavesdropping
- DataStream serial profile
- Trace asset tracking
- DARC data acquisition & remote control

450599

Description	Mftrs. List No.	Order Code	Price Each 1+	5+	10+
Zigbee Evalutation Board	PIXIE-EVAL	130-4046	341.35	328.65	323.62
Power Supply 12V 1A	PSU-12V1AINIP	130-4023	20.29	19.25	18.93

EASYBEE: Zigbee Radio Module





New

EasyBee is an IEEE 802.15.4 compliant RF transceiver. It enables designers to easily add ZigBee / IEEE 802.15.4 wireless capability to their products without the need for RF or antenna design expertise.
EasyBee is a fully capable device and a ZigBee networking layer is not required for point-to-point communication. If ZigBee is required, compatible ZigBee stacks include Microchip Technology's free ZigBee stack, and Figure-8's ZigBee stack.This module is an application-ready solution for fast-to-market ZigBee and IEEE 802.15.4 communications, providing the development engineer unlimited choice of host controller and stack firmware provider.

Features

- 2.4GHz IEEE 802.15.4 / ZigBee RF module
- Free space range upto 120m
- Raw data rate 250kbps
- Integral antenna
- External antenna and screening-can options
- Based on ChipConCC2420
- Separate 128-byte Rx & Tx FIFO buffers
- Output power 1mW / 0dBm
- Consumes 20mA (Rx), 18mA (Tx)
- 2.1V - 3.6V supply
- Wide temperature range -40C to +85C

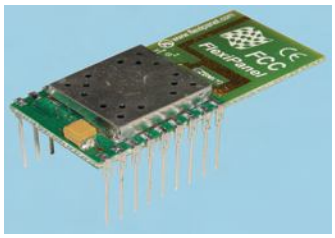
Applications

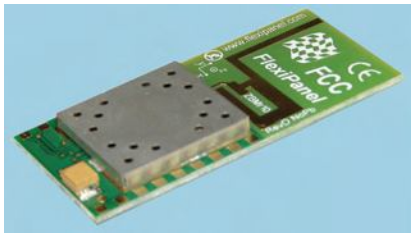
- Remote Control and Wire Replacement
- Wireless sensor networks
- Factory and Home Automation
- Energy management, Security, Lighting
- Inventory and Logistics Management
- Temperature and condition sensing.
- HID (Human Interface Devices) -Keyboards, Mice
- Toys, Home Gateways - Set-top boxes

460236

Description	Mftrs. List No.	Order Code	Price Each 1+	5+	10+
Miniature Zigbee Module, IEEE 802.15.4	EASYBEE	133-0067	31.53	30.17	29.13
Miniature Zigbee Module, IEEE 802.15.4 SMT	EASYBEE-SO	SMD 133-0069	20.08	18.73	17.69

PIXEE: Zigbee Radio Module





New

Pixie provides a complete OEM ZigBee solution, integrating IEEE 802.15.4 2.4GHz PHY / MAC layers with Microchip Technology's NWK / APL / ZDO layers. It provides a path for extremely rapid migration from Microchip's PICDEM Z ZigBee development environment to market-ready product.
Pixie is capable of full function device (FFD) operation and is suitable for router and coordinator nodes. The lower cost PICZee Lite, is used for reduced function devices, e.g. endpoints, with 2 fewer I/O lines.
Pixie is electrically virtually identical to the PICDEM Z ZigBee development environment and is fully compatible with Microchip Technology's free ZigBee stack, Compatible with ZigBee 1.0
FlexiPanel Ltd profiles in development for switching, serial data communications, UI servers, displays and sensors Only configuration bits and I/O pin definitions are changed during migration from PICDEM Z

Features

- Free space range upto 120m
- Integral antenna
- MAC address provided
- Output power 1mW / 0dBm, 100m range
- Consumes <25mA active, sleep mode: 2μA
- 15 general I/O lines,
- 8-channel 10-bit A/D,
- serial UART, 4 interrupts,
- counter input
- Master SPI
- Wide temperature range -40C to +85C
- 2.1V - 3.6V supply, ideal for Li rechargeables

Applications

- Remote Control and Wire Replacement
- Wireless sensor networks
- Factory and Home Automation
- Energy management, Security, Lighting
- Inventory and Logistics Management
- Temperature and condition sensing.
- HID (Human Interface Devices) -Keyboards, Mice
- Toys, Home Gateways - Set-top boxes

Pixie Configuration Tool

The Pixie Configuration tool is a USB to TTL-level serial adapter for use with Pixie ZigBee and LinkMatik / Toothpick Bluetooth devices. It connects directly to a PC USB socket. USB driver software is supplied. On the PC, the tool looks like a COM port can is compatible with Windows serial port applications such as Windows HyperTerminal.

460239

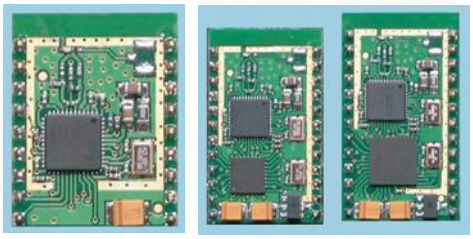
Description	Mftrs. List No.	Order Code	Price Each 1+	5+	10+
Miniature Zigbee Module, IEEE 802.15.4	PIXIE	133-0071	41.35	39.95	38.70
Miniature Zigbee Module, IEEE 802.15.4, SMT	PIXIE-SO	SMD 133-0072	39.35	37.45	35.89
Miniature Zigbee Module, IEEE 802.15.4	PIXZEELITE	133-0077	40.33	39.12	37.87
Miniature Zigbee Module, IEEE 802.15.4, SMT	PIXZEELITE-SO	SMD 133-0078	36.22	34.33	32.77
Configuration Tool	PIXIECONFIG	133-0085	51.08	49.62	48.23

RL Re-reeling available

Farnell

Communications - ZigBee (IEEE 802.15.4) / ISM - continued

Zigbee Radio Modules



Zigbee is the next generation wireless protocol, providing low cost, low power and powerful protocol. These OEM modules provide an easy Zigbee solution for many applications.

- 2.4GHz IEEE 802.15.4/ZigBee
- Raw data rate 250kbps
- Based on ChipCon CC2420 RF controller
- 4-wire SPI interface
- Separate 128-byte Rx & Tx FIFO buffers
- Controller Options: PIC (Microchip stack), or ATMEL (Figure-8 stack)
- Output power 1mW/0dBm
- Consumes just 20mA (Rx), 18mA (Tx)
- 2.1V - 3.6V supply
- Wide temperature range -40°C to +85°C

Applications

- IEEE 802.15.4 & ZigBee networks
- Cable replacement
- Home / building automation
- Industrial control & networking
- Wireless sensor networks

EZBEE

EZBee enables designers to easily add ZigBee / IEEE 802.15.4 wireless capability to their products without the need for RF or antenna design expertise.
The module contains all RF circuitry, including integral antenna and controller in a simple-to-use, plug-in or surface mount module.

- 4-wire SPI port interfaces to a baseband microcontroller
- PHY (Physical) layer includes an impedance matched balun and integral antenna
- MAC (Media Access Control) layer includes CRC-16 generation, clear channel assessment, signal energy detection, security, encryption and authentication
- eZBee is a fully capable device and a ZigBee networking layer is not required for point-to-point communication

PIXZee

PIXZee and PIXZee lite provide a complete ZigBee solution for OEM applications, integrating IEEE802.15.4 2.4GHz PHY/MAC layers with Microchip Technology's NWK/APL/ZDO layers. It provides a path for rapid migration from Microchip's PICDEM Z ZigBee development environment to market-ready product.
The Modules are capable of full function device (FFD) operation and suitable for router and coordinator nodes. The lower cost PIXZee Lite version is used for reduced function devices, eg. endpoints, with 2 fewer I/O lines and being 3mm more compact.

- MAC address provided
- Integral antenna
- Output power 1mW/0dBm, 100m range
- 15 general I/O lines, featuring 8-channel 10-bit A/D, serial UART, 4 interrupts, counter input
- Master SPI

Firmware Features

PIXZee is electrically virtually identical to the PICDEM Z ZigBee development environment and is fully compatible with Microchip Technology's free ZigBee stack, featuring: Compatibility with ZigBee 1.0 specification

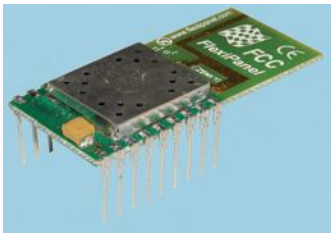
- Up to 254 end devices per network
- Support for Home Control, Lighting Profiles, switching, serial data communications, UI servers, displays and sensors etc.

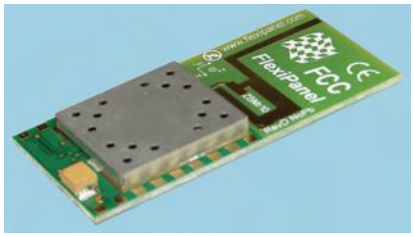
419171

Mftrs. List No.	Order Code	Price Each 1+	5+	10+
EZBEE	**109-6131**	19.66	18.56	17.82
PICZEELITE	**109-6132**	37.94	36.20	34.81

PIXEE Switcher

IEEE 802.15.4 transceiver & ZigBee stack preloaded with Switching firmware





New

Pixie Switcher is free switching firmware for Pixie and Pixie Lite. Using the Home Control - Lighting (HC-L) ZigBee profile, it provides up to 8 inputs (control switches) or outputs (load controllers). These may be bound to any HC-L devices in the ZigBee network. For example, a single Pixie Switcher could be configured as 8 inputs, 8 outputs, or 4 of each. Pixie Switcher requires only a few residual components to provide a complete wireless switching system.

Firmware Features:

- 8 I/O endpoints each configurable as one of:
  - On / off / toggle / timer / programmable input
  - On / off / pulse output
  - Power control
  - Time delay setpoint
  - Failsafe alarm reporting when contact is lost, out of range, low battery or device fault
- Control I/O for joining & binding, status indication
- Battery monitoring
- 4 operating modes:
  - Coordinator router
  - Router
  - Fast end device
  - Sleepy end device
- Signal strength indication
- Serial port for configuration and diagnostics
- ZigBee 1.0 HC-L compatible
- Up to 254 end devices per network
- Up to 255 binding table entries
- Up to 25/24 neighbors per router / coordinator
- Pre-allocated unique MAC address
- Lite version available:
  - End device only
  - 6 I/O endpoints

460241

Description	Mftrs. List No.	Order Code	Price Each 1+	5+	10+
Switcher Router	PIXIE-PXSR	**133-0074●**	51.67	49.94	48.38
Switcher Router	PIXE-SO-PXSR	SMD **133-0076●**	39.35	37.45	35.89
Switcher Co-Ordinator	PIXIE-PXSC	**133-0073●**	46.50	44.94	43.54
Switcher Co-Ordinator	PIXIE-SO-PXSC	SMD **133-0075●**	35.41	33.71	32.30
Switcher Lite, Fast End Device	PIXIE-L-PLFE	**133-0079●**	50.42	48.90	47.34
Switcher Lite, Fast End Device	PIXIE-LSO-PLFE	SMD **133-0082●**	32.60	30.90	29.50
Switcher Lite, Sleepy End Device	PIXIE-L-PLSE	**133-0080●**	45.37	44.01	42.61
Switcher Lite, Sleepy End Device	PIXIE-LSO-PLSE	SMD **133-0083●**	32.60	30.90	29.50

UZBee: ZigBee USB Dongle



New

UZBee is an EasyBee ZigBee / IEEE 802.15.4 radio with USB interface, housed in a handy adapter enclosure.
UZBee uses FlexiPanel's USBoot™ technology. This allows the firmware to be changed via the USB port without any specialist programming equipment. OEMs wishing to customize UZBee can program the onboard PIC18LF4550 microcontroller as required. The Free Microchip Stack for ZigBee is available for use with this product, although the entire full function stack will not fit on-board. Please contact Flexipanel for further details.

- USB to ZigBee Interface
- 2.4GHz IEEE 802.15.4 RF module
- PIC18LF4550 USB microcontroller
- FCC / CE compliant
- Signature 'G' antenna, free-space range 120m, compact, low 'hand-effect' design
- Reflashable with Flexipanel USBoot™ technology
- Pushbutton and Status LED

460244

Description	Mftrs. List No.	Order Code	Price Each 1+	5+	10+
Zigbee USB Dongle	UZBEE	**133-0084●**	51.07	49.94	48.38

RL Re-reeling available

2.4GHz Wireless Audio/Video Kit



This kit provides an out-of-the-box wireless link to transmit and receive full colour video pictures and sound. All that is required to complete the system is a monitor and camera. Ideal for CCTV type applications.

- Typical range 100m line of site, 30m indoors
- 2.4GHz Worldwide frequency
- Compliant with all current EU and USA regulations
- Auto-scan feature for up to 4 cameras
- Scart to RCA plug connection
- 13A mains power supplies included
- Input can be Camcorder, VCR, CD player, security camera, or TV set
- Output device TV or monitor, powered speakers
- Complete with 2 PSUs and aerials

461054.263840

Order Code	Price Each 1+	5+	10+
133-8634●	57.71	54.73	52.04

2.4GHZ Video/Audio Modules



These RF modules provide a reliable, low cost solution for OEM's designing wireless video/audio applications to operate over distances of up to 100m LOS. The modules are compliant with FCC and R&TTE criteria and are produced in line with new RoHS guidelines.

- Worldwide 2.4GHz ISM band
- Compact size and low power consumption
- Highly efficient FM-FM modulation/demodulation
- Compatible with both NTSC and PAL video formats
- Integrating audio/video input and output into one module base-band PCB
- No external audio circuit needed

Transmitter Characteristics

	AWM630TX
Frequency (MHz)	2400/2483
Channel Selection	PLL Synthesiser, 4ch.
Channel Frequency	2414, 2432, 2450, 2468MHz
Video Audio Modulation/Demodulation	FM-FM
Operating Temp (°C)	-10 to 60°C
Supply Voltage	5V dc (+/-2%)
Supply Current (mA)	55
Output Power	10dBm ±1dBm (CE) 0dBm ±1dBm (FCC)
2.4GHz Carrier Frequency Accuracy	±100KHz
Antenna Pot Impedance	50Ω
Video Input Impedance	75Ω
Video Input Level	1V p-p Typ.
Audio Input Level	3V p-p Typ.

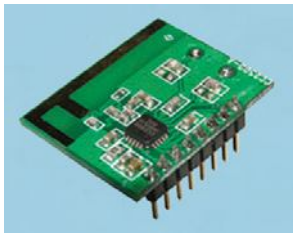
Receiver Characteristics

	AWM634RX
Frequency (MHz)	2400/2483
Channel Selection	PLL Synthesiser, 4ch.
Channel Frequency	2414, 2432, 2450, 2468MHz
Video Audio Modulation/Demodulation	FM-FM
Operating Temp (°C)	-10 to 60°C
Supply Voltage	5V dc (+/-2%)
Supply Current (mA)	140 - 180
Input Signal Level	-85 to 10dBm
Video	
Output Signal Level	1V p-p Typ. (±0.2V)
Frequency Response	± 5db max. 50Hz - 5.5MHz
S/N Ratio (100KHz, 1V p-p Sine Wave)	40db, min
Audio	
Output Frequency Range	50Hz p-p 20KHz
Output Signal Level (Modulation Signal: 50Hz - 15kHz Sine Wave)	3V p-p Typ. (±0.3 Volts)
Audio Frequency Response	50Hz - 15kHz (-3dB bandwidth)
S/N Ratio (50Hz - 15KHz)	50dB Typ. (±3dB)

461053.439884

Description	Order Code	Price Each 1+	5+	10+
AWM630TX	133-8632●	11.60	11.00	10.46
AWM634RX	133-8633●	17.88	16.95	16.12

Low Cost 2.4GHz Transceiver Module



The Quasar UK 'TRX1' hybrid transceiver module provides a complete RF subsystem which can be used to transmit and receive data at up to 500Kbps from any standard CMOS/TTL source. Extensive hardware support is provided for packet handling, data buffering, burst transmissions and link quality indication. Automatic collision avoidance is also provided with the clear channel assessment features.
The modules are ideal for battery powered applications, current consumption is reduced with the burst transmissions and wake on radio features. The data stream can be automatically Manchester encoded and decoded ensuring high reliability and low error rates.The modules frequency, out-

Features

- Complete RF Transceiver
- Onboard Data Encryption
- Chipcon CC2500
- Automatic collision avoidance
- 'Wake on Radio' feature
- Low current consumption
- Wide Operating voltage 1.8 - 3.6 Volts
- Operating Frequency: 2.4 - 2.483 GHz
- Programmable Output Power
- Range up to 50 metres at +1dBm
- Data rate 1.2 - 500 kbps

Applications

- Consumer Electronics
- Wireless controllers
- Wireless Audio
- Wireless PC peripherals
- Building / Home Automation

Characteristic	Typ.	Characteristic	Typ.
Supply Voltage	1.8-3.6Vdc	Data Rate	500Kbps
Suupply Current	Varies depending on Mode	Working Frequency	2.4GHz
RF Tx Power	Programmable upto +1dBm		

492572

Order Code	Price Each 1+	5+
151-7428●	5.75	4.97

XStream™ Wireless Module & Development Kit



X24-009-DK



X24-009NSC

The 24XStream OEM RF Module makes it simple to design and range test custom wireless networks. The module is a drop-in wireless solution that transfers a standard asynchronous serial data stream.

The 2.4 GHz 24XStream Development Kit includes everything you need to set-up a versatile wireless network in a matter of minutes. It includes multiple networking topology options along with advanced interference rejection, redundant reliability and worldwide approval.

Kit Includes:

- 1x XStream OEM RF module with an integrated whip antenna
- 1x XStream OEM RF module with (1) 1/2 wave dipole antenna
- 2x RS-232 / RS-422 / RS-485 PC serial interface boards
- 2x DSub-9 serial cables
- 1x 9V battery clip
- 1x Serial loopback adapter
- 1x Male-to-male null modem adapter
- 1x Female-to-female null modem adapter
- 1x DB-9 male to RJ-45 female adapter
- 1x DB-9 female to RJ-45 female adapter
- 1x CD with X-CTU™ test/config utility software, manuals and documentation

493801

Mftrs List No.	Description	Frequency	Power Output	RF Data Rate (BAUD)	Connector Type	Order Code	Price Each
X24-009-DK	24XStream Development Kit	2.4GHz	50mW	9600	–	136-5673●	321.27
X24-009NSC	XStream™ OEM RF Module	2.4GHz	50mW	9600	RPSMA	136-5674●	88.21

RL Re-reeling available

Communications - ZigBee (IEEE 802.15.4) / ISM - continued

XBee & XBee-PRO Wireless Modules & Development Tools



XBee Starter Development Kit



XBee Professional Development Kit



OEM Modules



XBee-PRO Starter Development Kit

Price-to-Performance value and easy to use with no configuration necessary for out of box RF operation. Simply feed data into one module and the data is sent out the other end of the wireless link. If more advance function is required, the modules provide an extensive set of AT commands.
The XBee OEM RF Modules are ZigBee/IEEE 802.15.4 compliant solution for low-power wireless sensor networks, providing reliable data transfer between devices.
Topology supports point-to-point, point-to-multipoint, Peer-to-Peer and Mesh Network via 16/12 Direct Channel.
Frequency ranges are 900MHz for North America and 2.4GHz for Europe.

Development Kit contents:

- XBee-PRO OEM RF Module with integrated wire antenna
- XBee-PRO OEM RF Module with U.FL RF connector to antenna
- XBee Module with chip antenna
- XBee Module with integrated wire antenna
- XBee Module OEM RF Module with U.FL RF connector to antenna
- Half-wave, 2.1dBi, dipole antenna w/ connector
- RS-232 inteface board, RS-232 cable
- 9V 1A power adapter, 9V battery clip
- Null modem adapter, male-male/female-female
- CD with test & configuration software, documentation and development tools
- RF cable assembly - adapter for connecting antenna to U.FL connector
- USB interface board and USB cable

Specification:	XBee	XBee-PRO
Indoor/Urban	Up to 100 ft. (30 m)	Up to 300 ft. (100 m)
Outdoor RF line-of-sight	Up to 300 ft. (100 m)	Up to 1 mile (1.6 km)
Transmit Power	1 mW (0 dBm)	60 mW (18 dBm)*, 100 mW EIRP*
RF Data Rate	250,000 bps	250,000 bps
Receiver Sensitivity	-92 dBm (1% PER)	-100 dBm (1% PER)
Supply Voltage	2.8 - 3.4 V	
Transmit Current	45 mA (@ 3.3 V)	215 mA (@ 3.3 V, 18 dBm)
Idle / Receive Current	50 mA (@ 3.3 V)	55 mA (@ 3.3 V)
Power-down Current	≤10 µA	≤10 µA

- For Europe the XBee-PRO Modules must be configured to operate at a max. TX power output of 10dBm
- European regulations stipulate an EIRP power maximum of 12.86dBm (19mW)

464693

Mftrs. List No	Description	Order Code	Price Each
OEM Modules			
XB24-ACI-001	XBee OEM Modules with 1mW Chip Antenna	**133-7913**	19.10
XB24-AWI-001	Zigbee XBEE 1mW Wire Antenna	**133-7912**	19.10
XB24-AUI-001	XBee OEM Modules with 1mW UFL Connector	**133-7914**	19.10
XBP24-ACI-001	Zigbee Xbee Pro,1mW Chip Antenna	**133-7917**	29.50
XBP24-AWI-001	Zigbee Xbee Pro,1mW Wire Antenna	**133-7916**	29.50
XBP24-AUI-001	Zigbee Xbee Pro,1mW Conx	**133-7918**	29.50
Development Kits			
XB24-PDK	Zigbee Xbee Pro with Modules Kit	**133-7922**	256.50
XB24-DKS	Zigbee Xbee with Modules	**133-7915**	113.40
XBP24-DKS	Zigbee Xbee with Modules Kit	**133-7921**	156.60

XBEE RF Modules

New



XB24-BPDK

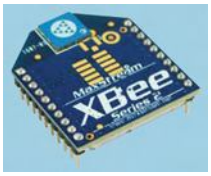
The XBee Development Kit provides everything that is needed to rapidly create long range wireless data links based on MaxStream's XBee modules. The XBee modules feature self-discovery/self-healing mesh networking and support for coordinators, routers, end devices and low-power sleep modes.

Kit Includes:

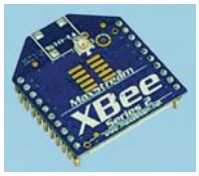
- (1) XBee ZNet 2.5 w/ Wire Antenna (Coordinator)
- (1) XBee ZNet 2.5 w/ Wire Antenna (Router)
- (1) XBee ZNet 2.5 w/ Chip Antenna (Router)
- (1) XBee ZNet 2.5 w/ U.fl Connector (Router)
- (1) XBee ZNet 2.5 w/ RPSMA Connector (Router)
- (3) RS 232 Development Boards
- (2) USB Development Boards
- (2) 2.4 GHz RPSMA Antenna
- (1) U.fl to RPSMA Adapter Cable
- (3) RS 232 Serial Cables
- (2) USB Cables
- (1) Power Adapter
- (3) 9V Battery Clips
- (3) Adapters



XB24-BWIT-004



XB24-BCIT-004



XB24-BUIT-004



XB24-BSIT-004

The XBee OEM RF Modules have been engineered to operate within the ZigBee protocol and support the unique needs of low-cost, low-power wireless sensor networks. They require minimal power and provide reliable delivery of data between remote devices. All these modules operate within the ISM 2.4 GHz frequency band.

The XBee 802.15.4 OEM RF module is an IEEE 802.15.4 compliant solution that satisfies the unique needs of low-cost, low-power wireless sensor networks. It is easy-to-use, requires minimal power and provides reliable delivery of critical data between devices. Its small form factor saves valuable board space.



W1030



JF1R6-CR3-41

- The JF1R6-CR3-41 cable assembly is for connecting the RPSMA antenna to U.FL connector
- The W1030 External Antenna is for WLAN devices using ZigBee™, WiFi (802.11b/g) and Bluetooth®. It has a Omni-directional radiation pattern that provides broad 360° coverage

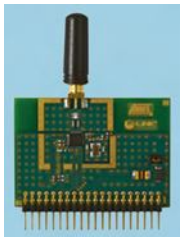
499873

RL Re-reeling available

Farnell

Mftrs List No.	Mftr.	Description	Order Code	Price Each
XB24-BPDK	MAXS	XBee ZNet 2.5 Development Kit	154-6389	273.65
XB24-BWIT-004	MAXS	XBee ZNet 2.5 (Formerly Series 2) RF Module, AT Router/End Device with Wire Antenna	154-6390	22.21
XB24-BCIT-004	MAXS	XBee ZNet 2.5 (Formerly Series 2) RF Module, AT Router/End Device with Chip Antenna	154-6391	22.21
XB24-BUIT-004	MAXS	XBee ZNet 2.5 (Formerly Series 2) RF Module, AT Router/End Device with U.FL Antenna	154-6392	22.21
XB24-BSIT-004	MAXS	XBee ZNet 2.5 (Formerly Series 2) RF Module, AT Router/End Device with RPSMA Antenna	154-6393	23.69
XB24-ASI-001	MAXS	XBee 802.15.4 (Formerly Series 1) RF Module, with RPSMA Antenna	154-6394	22.21
W1030	PULSE	Wireless External Antenna for 2.4 GHz Applications, 1/4 DIPOLE, RPSMA	154-6395	4.09
JF1R6-CR3-41	MAXS	U.FL to RPSMA Lead Adaptor	154-6396	6.68

AVR Z-Link Development Tools ATAVRRZ502 RF Accessory Kit



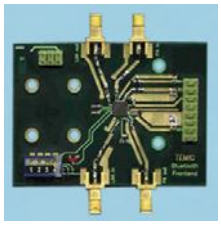


The RZ502 RF accessory kit enables point to point links development, debugging and demonstration. Advanced network topologies can be developed by adding more RF accessory kits. The kit is a module for the STK®500 AVR starter kit; requires a STK500 for development purposes.

RF Accessory Kit contents:
- 2 Radio boards with SMA stub antennas for STK500 mounting
- 2 ATmega1281V TQFP AVR Microcontrollers
- Atmel IEEE 802.15.4 MAC software free of charge
- Wireless Management & Configuration Software (WMCS) graphical user interface configuration tool
- PCB layout reference (Gerber files)

Mftrs. List No.		Order Code	Price Each 1+
ATAVRRZ502	RF Accessory Kit	134-9126	88.77
STK500	Professional AVR FLASH Starter System	388-4429	97.11

ATR2406 Development Board



The ATR2406-DEV-BOARD2 is a complete long range RF-Module with the low-IF Transceiver ATR2406 and the PA-LNA front-end IC, T7024. It is designed to make it very easy and convenient for the user to evaluate the RF IC performance and develop custom specific applications. The RF-Module is available seperately. It consists of 1 complete "solder-on" RF-Module (Reference Design), 1 Interface board incl. SMA connector, 1 CD-ROM with sample firmware and Manufacture Data (Gerber Files).

465294

Mftrs. List No.	Order Code	Price Each 1+
ATR2406-DEV-KIT2	134-9116	635.29

AVR Z-Link Packet Sniffer Kit



New

The RZ541 Packet Sniffer Kit is the ideal platform for analysing 802.15.4 and ZigBee wireless networks. Included is the basic edition of the Sensor Network Analyzer software from Daintree Networks which enables visualisation, measurement, and analysis of large networks.

Kit Includes:
- STK541 USB Adapter board
- 2.4 GHz Radio Controller Board
- USB Cable
- Daintree Networks Sensor Network Analyzer CD

500998

Mftrs. List No.	Description	Order Code	Price Each
ATAVRRZ541	AVR Z-Link 2.4 GHz Paket Sniffer Kit	154-9930	197.87

AVR Z-Link 5-pack 2.4 GHz Radio Control Boards



New

This kit contains five 2.4 GHz 802.15.4 compliant and ZigBee compatible Radio-Controller Boards equipped with the ATmega1281V micro controller and AT86RF230 transceiver. By offering additional RCB's, the kit complements the RZ200 kit, enabling demonstration of larger wireless networks.

Kit Includes:
- 5 Radio controller boards with antennas & batteries
- Atmel IEEE 802.15.4 MAC software
- PCB layout reference (Gerber files)

501001

Mftrs. List No.	Description	Order Code	Price Each
ATAVRRZ201	AVR Z-Link, Pack of 5, 2.4GHz Radio-Controller Boards	154-9931	197.87

AVR RAVEN Modules & Development Kit



New

The RZRAVEN is a development kit for the AT86RF230 radio transceiver and the AVR microcontroller. It is a versatile and professional platform for developing and debugging a wide range of RF applications. The USB and LCD modules are available separately.

Features:
- CE, ETSI and FCC approved.

LCD Module:
- AT86RF230 radio transceiver with high gain PCB antenna
- Dual AVR microcontrollers
- Dynamic Speaker and microphone
- Atmel Serial Dataflash®
- User IO section:

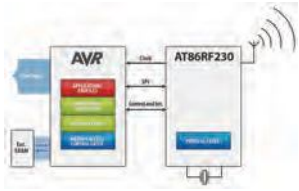
- USART, GPIO, Relay Driver

USB Module:
- AT86RF230 radio transceiver with miniature PCB antenna.
- AVR microcontroller with integrated Full Speed USB interface.
- External memory interface.

504784

Mftrs. List No.	Description	Order Code	Price Each
ATAVRRAVEN	LCD Module	156-2232	40.96
ATAVRZUSBSTICK	USB Module	156-2234	33.95
ATAVRZRAVEN	AVR RAVEN Evaluation/Starter Kit	156-2233	84.10

AVR 8-Bit RISC - AVR Z-Link™ for IEEE 802.15.4™ and ZigBee™



AVR is an established low power microcontrollers in the market with efficient core and peripherals, perfectly matched for most microcontroller applications, including wireless.

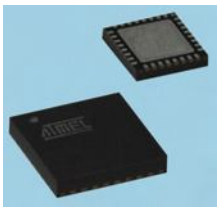
The AVR Z-Link solution - A wireless application based on three components; microcontroller, radio and firmware. By combining AT86RF230 radios, AVR microcontrollers and highly efficient software MAC, Atmel provides a complete source for wireless applications.

AVR Z-Link provides an industry leading 2.4GHz transceiver with up to 2.8 times the range of the similar standard parts. With -101dBm receive sensitivity and 3dBm transmit power, the RF230 radio gives the highest link budget of any 802.15.4 radio on the market. A superior line-of-sight range and a radio requiring only six external components gives advantage in terms of cost and flexibility.

Communications - ZigBee (IEEE 802.15.4) / ISM - continued

AVR 8-Bit RISC - AVR Z-Link™ for IEEE 802.15.4™ and ZigBee™ - continued

AT86RF230 - ZigBee/IEEE802.15.4 Transceiver



The AT86RF230 is a low-power 2.4 GHz transceiver specially designed for low cost ZigBee/IEEE802.15.4 applications. The AT86RF230 is a true SPI-to-antenna solution. All RF-critical components except the antenna, crystal and de-coupling capacitors are integrated on-chip.

The single-chip RF transceiver provides a complete radio interface between the antenna and the microcontroller. It comprises of the analogue radio, digital demodulator including time and frequency synchronisation and data buffering. The bi-directional differential antenna pins are used in common for RX /TX, no external antenna switch is needed.

Features:
- Fully integrated 2.4GHz transceiver
- -101dBm receiver sensitivity
- Power Supply: 1.8 - 3.6V
- SPI slave interface
- Integrated
  - Crystal Oscillator, 16MHz
  - TX/TX switch
  - LNA
  - PLL loop filter
- Digital RSSI register, 5-bit value
- Fast power-up time <1ms
- Programmable TX o/p power, -17 to 3dBm
- Auto-VCO and filkter calibarteion
- 32-pin QFN package

465213

Mftrs. List No.		Order Code	Price Each 1+	10+	100+
AT86RF230-ZU	ZigBee/IEEE802.15.4 Transceiver	SMD 134-9117●	5.31	3.15	2.52

ZigBee™ Basic Development Kit



The ZMN2405HPDK Basic ZigBee Development Kit enables network designers to evaluate ZigBee range, speed, and operation in the real-time environment, using the same inputs that would drive an actual application, and to develop system interfaces and control software.

Kit Includes:
- 100 mW evaluation board (1)
- ZN-241Z RS-232 radio (1)
- AC power adapters and cords (2)
- Patch antenna (1)
- USB cables (1)
- Serial cables (2)
- RF cables (1)
- Omni antennas (2)
- 9V batteries (1)
- Software & manuals on CD

500887

Mftrs. List No.		Order Code	Price Each
ZMN2405HPDK-B	100mW Zigbee™ Basic Development Kit	154-9681●	122.37

ZigBee™ PRO Development Kit



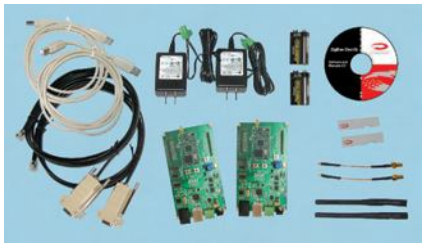
The ZMN2405HPDKPro includes everything that is available with the ZMN2405HPDK Kit and adds to this with additional boards for the creation of complete ZigBee networks.
It is simple to set-up and configure, accelerates the integration process, allows development of control software and interface to the users system.

Kit Includes:
- 100 mW evaluation boards (4)
- 100 mW serial gateway board (1)
- AC power adapters and cords (5)
- Patch antennas (5)
- Omni antenna (5)
- USB cables (5)
- RF cables (5)
- Serial cables (5)
- 9V batteries (5)
- Software & manuals on CD

500892

Mftrs. List No.		Order Code	Price Each
ZMN2405HPDKPRO K	100mW Zigbee™ PRO Development Kit	154-9682●	303.86

Zigbee™ 1mW & 100mW Development Kits



The ZMN2405HPDK Kit comprises two high power serial interface boards built around the 100mW ZigBee ZMN2405HP module.
The ZMN2405DK Kit has two high power serial interface boards built around the 1mW ZigBee ZMN2405 module. Both of these kits allows developers to get up and running quickly using either USB or RS-232 interfaces.
The self-contained modems have momentary switches, LEDs, thermister, and potentiometer and can operate on standard 9V akaline batteries. This provides a simple, effective way to test the range and operation of the radios in the real-time environment. The onboard I/O can be disconnected allowing user inputs to be connected to the module inputs using connectors.

Kit Includes:
- 100 mW Evaluation Boards (2) - only supplied with ZMN2405HPDK
- 1 mW Evaluation Boards (2) - only supplied with ZMN2405DK
- AC power adapters and cords (2)
- Patch antennas (2)
- USB cables (2
- Serial cables (2)
- RF cables (2)
- Omni antennas (2)
- 9V batteries (2)
- Software & manuals CD

500893

Mftrs. List No.		Order Code	Price Each
ZMN2405HPDK	100mW Zigbee™ Development Kit	154-9683●	183.56
ZMN2405DK	1mW Zigbee™ Development Kit	154-9684●	183.56

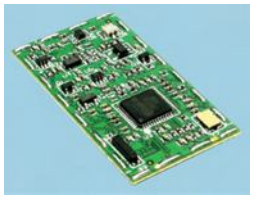
Zigbee™ Modules, Gateways & Sensors



ZG-2400E



ZMN2430



ZMN2405HP



ZMN2430HP

Every ZigBee module from Cirronet comes with FCC module certification. This means FCC type acceptance testing is not required for devices into which the OEM RF modules are integrated, so as well as saving on cost the speed to market of a product is accelerated.

The ZG-2400E Ethernet Gateway fits into existing industrial automation networks by accepting Ethernet formatted ZigBee commands, stripping the Ethernet packetization, and sending the ZigBee commands and data to the appropriate ZigBee end device or router.

The ZMN2405HP and ZMN2430HP modules are ideal for ZigBee applications needing higher RF power (+18dBm, software adjustable from -2dBm to +18dBm including industrial sensors, building and home automation, and any other applications requiring ZigBee's unique capabilities.

The ZMN2430 2.4 GHz transceiver module is a low cost solution for point-to-point, point-to-multipoint and MESH wireless systems. It provides the flexibility and versatility to serve applications ranging from cable replacements to sensor networks.

500896

RL Re-reeling available

Mftrs. List No.	Description	Transmit Power	Frequency	RF Channels	RF Data Rate	Order Code	Price Each
ZMN2430-C	ZigBee Coordinator Module	1 mW	2405 - 2480 MHz	16	250 Kbps	154-9671●	12.50
ZMN2430-R	ZigBee Router Module	1 mW	2405 - 2480 MHz	16	250 Kbps	154-9672●	12.50
ZMN2430-E	ZigBee End Device Module	1 mW	2405 - 2480 MHz	16	250 Kbps	154-9673●	12.50
ZMN2405HP-C	ZigBee Coordinator Module	100 mW	2405 - 2475 MHz	15	250 Kbps	154-9675●	21.06
ZMN2405HP-R	ZigBee Router Module	100 mW	2405 - 2475 MHz	15	250 Kbps	154-9676●	21.06
ZMN2405HP-E	ZigBee End Device Module	100 mW	2405 - 2475 MHz	15	250 Kbps	154-9677●	21.06
ZMN2430HP-C	ZigBee Coordinator Module	100 mW	2405 - 2475 MHz	15	250 Kbps	154-9678●	21.06
ZMN2430HP-R	ZigBee Router Module	100 mW	2405 - 2475 MHz	15	250 Kbps	154-9679●	21.06
ZMN2430HP-E	ZigBee End Device Module	100 mW	2405 - 2475 MHz	15	250 Kbps	154-9680●	21.06
ZG-2400E	ZigBee Ethernet Gateway	100 mW	2400 - 2483.5 MHz	16	250 Kbps	154-9688●	221.69

SPZB260 ZigBee® Module

New



SPZB260 is a low power consumption ZigBee® module optimized for embedded applications. It enables OEMs to easily add wireless capability to electronic devices.
The module is based on SN260 ZigBee® Network Processor which integrates a 2.4 GHz, IEEE 802.15.4-compliant transceiver as well as IEEE 802.15.4 PHY and MAC.
24 MHz high stability Xtal is available aboard the module to perform the timing requirements as per ZigBee® specifications.A single supply voltage is requested to power the module. An integrated 2.5 GHz specific Murata antenna is aboard. The voltage supply also determines the I/O ports level allowing an easy interface with the host system.
The module is controlled by means of a standard serial interface (SPI) allowing the connections to a variety of Host microcontrollers.

527536

Mftrs. List No	Description	Order Code	Price Each
SPZB260	SPZB260 ZigBee module	167-9753●	19.21

ETRX2 Development Kits

Telegesis ember New



ETRX2DVKA



ETRX2DVKA PLUS

The **ETRX2DVKA** Development Kit has been designed to enable fast and simple evaluation and development of the low cost, low power, ZigBee meshing solution provided by the ETRX2 module. Using the comprehensive AT-style Command Dictionary and the simple to use Telegesis Terminal software package provided, it should take less than half an hour to set up a three-way mesh network and to begin detailed, in-depth assessment of the latest EmberZNet meshing technology.

The **ETRX2DVKA PLUS** kit is the same as the standard ETRX2DVKA but has additional hardware which allows the user to experiment using the power amplified ETRX2-PA modules with their greatly extended range.

ETRX2DVKA Kit Includes:
- ETRXDV - Development Board
- ETRX2HW - Module with Harwin connector to plug onto ETRXDV
- 2 x MCB Carrier Board fitted with ETRX2 module
- 2 x AA Battery Holder with lead
- USB Cable

- **ETRX2DVKA-PLUS Kit Includes:**
- As above Plus -
- ETRX2USB - USB stick
- ETRX2HRHW-PA - Module with Harwin connector
- MCB Carrier Board fitted with ETRX2-PA module
- AA Battery Holder with lead
- 1/2 Wave external antenna
- 100mm cable - connects HR module to antenna

511797

Mftrs. List No.		Order Code	Price Each
ETRX2DVKA	Module Development Kit	160-6661●	205.97
ETRX2DVKA PLUS	Module Development Kit	160-6668●	253.58

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ETRX2 Wireless Mesh Networking Modules

Telegesis ember New





The **ETRX2** modules are a low power, 2.4GHz ISM band transceiver, based upon the Ember EM250 single chip ZigBee / IEEE802.15.4 solution and EmberZNet 2.xx meshing technology. Designed for integration into any device without the need for RF expertise the ETRX2 enables the user to add powerful wireless networking capability to their products and bring them quickly to market.
The **ETRX2-PA** offers boosted output power whilst being a drop in replacement for the standard ETRX2. Care was taken to retain the low deep sleep current to make this module ideally suited for battery operated end devices with the lowest transmit current in its class.

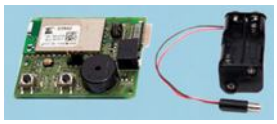
Features Include:
- Small form factor, SMT module 37.75 x 20.5mm
- Optional board-to-board or board-to-cable connector
- 128k Flash and 5kbytes of SRAM
- UART interface with DMA, optional software support for hardware I2C and SPI
- Wide supply voltage range
- Can act as an End Device, Router or Coordinator
- Firmware upgrades via RS232 or over the air (password protected)
- Hardware supported encryption (AES-128)
- Operating temperature range: -40 to +85°C

511802

Mftrs. List No.		Order Code	Price Each
ETRX2	Wireless Mesh Networking Module	160-6662●	11.90
ETRX2HR	Wireless Mesh Networking Module with Hirose Connector	160-6664●	12.94
ETRX2-PA	Power Amplified Mesh Networking Module	160-6663●	14.72
ETRX2HR-PA	Power Amplified Mesh Networking Module with Hirose Connector	160-6665●	14.72

Module Carrier Boards

Telegesis ember New



These carrier boards allow the user to quickly experiment with sensors and actuators and are ideal for demonstrations and prototyping. They can either be mains or battery powered.

Features Include:
- Temperature sensor
- Light sensor
- 2x LEDs
- 2x Buttons
- 1x Buzzer
- Battery holder and cable

511804

Mftrs. List No.		Order Code	Price Each
ETRX2MCB+M	Module Carrier Board	160-6675●	47.61
ETRX2-PA MCB+M	Power Amplified Module Carrier Board	160-6676●	51.75

Wireless Mesh Networking Compact Flash™ Card

Telegesis ember New



The ETRX2CF wireless mesh networking Compact Flash™ card is an RS232 to Compact Flash™ bridge, connected to an ETRX2 wireless meshing module. This allows connectivity to a PDA or laptop using either the Compact Flash™ or PCMCIA (with adapter) expansion slots. To accompany the ETRX2 wireless mesh networking modules this universal compact flash card offers an easy way to ZigBee enable portable handheld devices.

Features:
- ETRX2CF acts as a CF+/PCMCIA to serial bridge connected to an ETRX2 module
- Driver Support for Pocket PC, Windows & Linux
- Telegesis Terminal support for Windows
- Allows access to the module's AT-Command line interface via a virtual com port
- Form factor: Extended Compact Flash Type II
- In circuit Programming/Debugging Headers allow for custom firmware development based on the ETRX2 platform
- Supports low power modes
- Operating Temperature range -40 - +85°C

Communications - ZigBee (IEEE 802.15.4) / ISM - continued

Wireless Mesh Networking Compact Flash™ Card - continued

511806

Mftrs. List No.		Order Code	Price Each
ETRX2CF	Wireless Mesh Networking Compact Flash™ Card	160-6667●	81.77

Wireless Mesh Networking USB Stick



Based on the Ember EM250 SoC, the ETRX2USB is a high performance, low power 2.4GHz ISM band transceiver in a USB Stick form factor. It complies with the IEEE 802.15.4 wireless standard, providing a cost effective method of adding wireless sensing to any device which employs USB. For faster production development the device carries the Telegesis AT Style Command line interface which allows the quick integration of meshing radio technology without complex programming or RF design experience.

Features:

- 16 channels in the 2.4GHz ISM Band
- Integrated omni-directional antenna
- Up to 150m range
- USB bus powered
- COM port interface (virtual com port in Windows®
- 0dBm typical output power (-16.6dBm - +3.6dBm range)
- Low power sleep mode - 1.6mW
- Operating Temperature range -40 to +85°C

511805

Mftrs. List No.		Order Code	Price Each
ETRX2USB	Wireless Mesh Networking USB Stick	160-6666●	56.93

ETRX2 Wireless Mesh Networking Ethernet Access Points



The EAP-E (-PA) Ethernet access points allow access to an ETRX2 or ETRX2-PA wireless mesh networking module via Ethernet using the Lantronix® XPort® Direct™ serial to Ethernet bridge device. The Telegesis AT-Command interface - based on the EmberZNet meshing stack - can be easily accessed by the application software using telnet or by creating a virtual COM port using the supported Lantronix® CPR (COM Port Redirector) software for windows.

Features Include:

- Complete TCP/IP protocol stack and Windows deployment software
- Interface: Ethernet 10Base-T or 100Base-TX (Auto-Sensing)
- Link and activity indicator (LED)
- Management: Telnet and Microsoft Windows®-based utility for configuration
- Can offer access to the remote AT-Command Interface via a virtual Com port
- SIF interface for Custom application development and real time debugging of custom firmware

511809

Mftrs. List No.		Order Code	Price Each
EAP-E	Wireless Mesh Networking Ethernet Access Point	160-6671●	92.12
EAP-E-PA	Power Amplified Wireless Mesh Networking Ethernet Access Point	160-6672●	97.29

ETRX2 Wireless Mesh Networking Routers



To accompany the Telegesis ETRX2 wireless mesh networking modules these routers offers an easy way to extend the range of ZigBee networks.
If the distance between two nodes is too great for communication to be established, place one or more Routers in-between and the mesh will self-form. A Router has the same distance parameters as a Telegesis module.

511828

Mftrs. List No.		Order Code	Price Each
ROUTER-E	Wireless Mesh Networking Router	160-6673●	41.40
ROUTER-E-PA	Power Amplified Wireless Mesh Networking Router	160-6674●	46.58

1321xEVK - MC1321x Evaluation Kit

Based on Freescales's 2nd generation of ZigBee Compliant platforms, the 1321xEVK is a comprehensive demonstration and development kit of a complete ZigBee™ mesh network.

- Four 1321x-SRB (Sensor Reference Board) boards
- Three 1321x-NCB (Network Coordinator Board).
- 802.15.5 packet analyzer with Daintree's Sensor Network Analyzer Standard Edition
- Includes Freescale's ZigBee Network Demo for demonstration of a ZigBee mesh network
- Includes CodeWarrior™ Development Studio for HCS08 Special EditionPower Adapters, Batteries and Cables
- USB Multilink BDM Programmer/Debugger

464687

Mftrs. List No	Order Code	Price Each
1321XEVK	133-6831●	1,164.46

1321xDSK Development Software Kit

Based on Freescale's 2nd generation of ZigBee Compliant platforms, ideal for development and demonstration. The kits come with everything needed to get started, including hardware boards, cables, batteries, power adapters, software and sample applications to create proprietary and standards-based peer-to-peer and star networks.

- Two 1321x-SRB (Sensor Reference Board) boards
  - 2.4 GHz wireless nodes compatible with the IEEE 802.15.4 standard
  - MC13213 2.4 GHz SiP
  - Onboard expansion capabilities for external application-specific development
  - USB port to interface with PC
  - Connections for battery or external power supply
- Supports SMAC and IEEE 802.15.4 PHY/MAC
- Includes CodeWarrior™ Development Studio for HCS08 Special Edition
- Power Adapters, Batteries and Cables
- USB Multilink BDM Programmer/Debugger (13192DSK-BDM only)

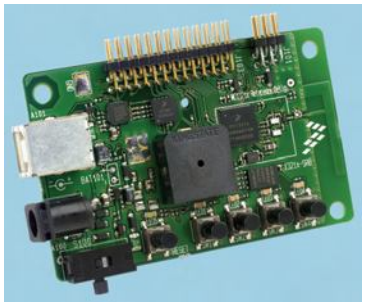
Note: Requires an HCS08 BDM Multilink Programmer (116-5943) for debug and program capability

464686

Mftrs. List No	Order Code	Price Each
1321XDSK-BDM	133-6828●	296.53

RL Re-reeling available

1321XDSK ZigBee Development Kit



The 1321xDSK development and demonstration kit is based on Freescale's 2nd generation of ZigBee Compliant platforms. The kits come with everything needed to get started, including hardware boards, cables, batteries, power adapters, software and sample applications to create proprietary and standards-based peer-to-peer and star networks.

Features:
- Two 1321x-SRB (Sensor Reference Board) boards
- MMA7260Q 3-axis acceleration sensor and temperature sensor
- Printed F antenna
- Onboard expansion capabilities for external application-specific development activities
- Programmable 60K flash with 4K of RAM
- LEDs and switches for demonstration, monitoring and control
- Supports SMAC and IEEE 802.15.4 PHY/MAC
- Kit Includes CodeWarrior™ Development Studio for HCS08 Special Edition
- USB Multilink BDM Programmer/Debugger (13192DSK-BDM only)

450732

Typ	Beschreibung	Order Code	Price Each
1321XDSK	ZigBee Development and Demonstration Kit	**119-7566**	209.97

ZigBee™-Compliant 2.4GHz IEEE 802.15.4 Transceiver with MCU

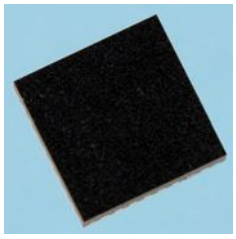


The MC1321x family is Freescale's 2nd generation ZigBee platform, incorporating a low power 2.4 GHz radio frequency transceiver and an 8-bit microcontroller into a 71-pin LGA package. The MC1321x solution is useable for wireless applications from proprietary point-to-point connectivity to a complete ZigBee mesh network. The combination of the radio and a microcontroller in a small footprint package offers an effective solution.
The MC1321x contains an RF transceiver, an 802.15.4 Standard compliant radio. The transceiver includes an LNA, 1mW nominal output power, PA with internal VCO, integrated transmit/receive switch, on-board power supply regulation, and full spread-spectrum encoding and decoding.
The MC1321x also contains a HCS08 based microcontroller with 60KB of flash memory and 4KB of RAM. The onboard MCU allows the communications stack and the application to reside on the same system-in-package (SIP).

464579

Mftrs. List No.	Pin/Pkg	Flash Memory	RAM	Order Code	Price Each 1+	10+	100+
MC13211	71/LGA	16K	1K	SMD **133-6817●**	2.65	2.50	2.36
MC13212	71/LGA	32K	2K	SMD **133-6818●**	4.85	3.67	3.10
MC13213	71/LGA	60K	4K	SMD **133-6819●**	5.76	4.28	3.73
MC13214	71/LGA	60K	4K	SMD **133-6820●**	4.93	4.64	4.37

MC1320x - 2.4GHz generation II RF Transceivers



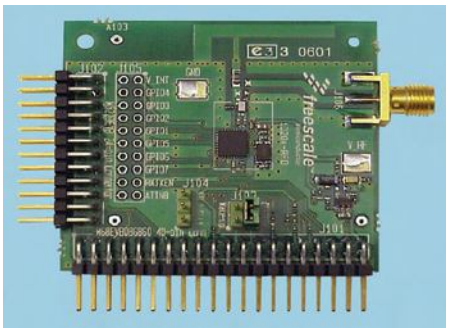
The MC1320x series of low power, short range, 2.4 GHz band transceivers are designed for wireless sensing and control applications. The MC1320x include a complete packet modem capable of formatting data into packets with 125byte payload, over the air data rate of 250kbps using O-QPSK modulation and Direct Sequence Spread Spectrum (DSSS) coding. The four wire serial peripheral interface (SPI) allows interface to a variety of processors, providing developers to tailor the solution to meet their needs.
The MC13201 radio targets proprietary applications that require wireless point-to-point or star networks and included the Freescale Simple MAC (SMAC) software.
For MC13202 the software and processor can be scaled to fit applications ranging from simple point-to-point systems, through complete ZigBee™ networking. It supports the SMAC software, IEEE 802.15.4 PHY/MAC and 3rd party ZigBee stacks.
The MC13203 supports the Figure 8 Wireless ZigBee stack, for use with the Z-Stack only

- Buffered Transmit and Receive Data Packets for Simplified Use with Low Cost Microcontrollers
- Supports 250 kbps O-QPSK Data in 2.0 MHz Channels and Full Spread-Spectrum Encode
- Three Power Down Modes for Power Conservation:
  - less than 1 μA Off Current
  - 3.0 μA Typical Hibernate Current
  - 40 μA Typical Doze Current
- RX sensitivity @ 1.0% Packet error rate
  - MC13201: -91dBm, typ
  - MC13202/MC13203: -92dBm, typ
- Integrated Rx/Tx switch
- Internal timer comparators available to reduce MCU resource requirements
- Clock output is available for use by MCU
- Seven General Purpose Input/Output ports (GPIO) available
- ·Operating Temperature Range: -40°C to 85°C

464658

Mftrs. List No.	Pin/Pkg	Interface	Comms Protocol	Order Code	Price Each 1+	10+	100+
MC13201FC	32/QFN	SPI	S-MAC	SMD **133-6821●**	3.65	2.44	2.23
MC13202FC	32/QFN	SPI	IEEE 802.15.4	SMD **133-6822●**	2.50	2.06	1.79
MC13203FC	32/QFN	SPI	ZigBee	SMD **133-6823●**	5.31	3.73	3.15

MC1320x RF Daughter Card



The MC1320x RF Daughter Card (1320xRFD-A00) is used in conjunction with a microcontroller development board for RFIC evaluation, code development, and system evaluation. The RF Daughter Card interfaces directly to the M68EVB908GB60, RG60 and QG60 HCS08 family Microcontroller Development Boards and to the M52235 EVB Microcontroller Development Board, but it can be adapted to other boards that offer access to the MCU input/output ports.
The RF Daughter Card is configured with all the off-chip circuitry required for functional performance of the MC1320x RF data modem except the MCU. The MCU interface required by the RFIC is pinned out at the edge of the card using standard header pins. The RF interface is accomplished through an onboard PCB antenna. Also, there is an SMT jumper that can be relocated, which will redirect the RF interface to an on-board 50 ohm connector. The SMA connector can be used with standard coax cables for testing purposes.

464690

Mftrs. List No	Order Code	Price Each
1320XRFC	**133-6833●**	61.20

Wireless Sensing Triple-Axis Reference Design Kit



The ZSTAR demo board demonstrates Freescale's innovations in sensors, wireless connectivity and embedded flash microcontrollers.

The reference design illustrates how accelerometers can add functionality to various applications. The accelerometer measurements can be grouped into 6 sensing functions - Fall, Tilt, Motion, Positioning, Shock and Vibration.

The RD3152MMA7260Q development tool offers wireless communication using the powerful, easy-to-use 2.4GHz frequency MC13191 transceiver. Changes can be made with pin-to-pin compatibility allowing implementation of the MC13192 and MC13193 for wireless applications.

The embedded flash microcontroller, MC9S08QG8, offers a versatile combination of peripherals and advanced features of the HCS08 core, including extended battery life with a maximum performance to 1.8V. It is a useful solution for power and size-sensitive applications, such as wireless communications and handheld devices, small appliances, Simple Media Access Controller (SMAC)-based applications and toys.

- Multi-axis sensing using an XYZ-axis low g acceleration sensor, MMA7260QT with selectable g-ranges of 1.5g/2g/4g/6g, combined with the MC9S08QG8 8-bit microcontroller
- 2.4 GHz wireless communication is enabled by the RFCMOS technology. The MC13191 is one of the pin-to-pin compatible series of transceivers - the MC13192 supports the IEEE 802.15.4 protocol - the MC13193 supports full ZigBeeTM compliant applications
- The USB 2.0 with the 8-bit MC68HC908JW32 full speed chip offers plug and play benefits

464375

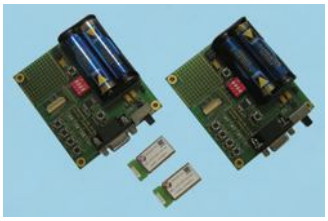
Mftrs. List No	Order Code	Price Each
RD3152MMA7260Q	**133-6807●**	97.73

RL Re-reeling available

Farnell

Communications - ZigBee (IEEE 802.15.4) / ISM - continued

Sentec Wireless Comms. Zebra Kit & Modules



Starter Kit Hardware Features:
- Contains 2 modules, 2 base boards and detailed documentation
- 2 Wireless communication modules PCB size 85 mm x 75 mm
- Power supply on-board or optional external 2.0V to 3.4 V required
- 4 LEDs, 4 Buttons, 4 channel DIP Switch
- RS 232 serial interface on-board
- BDM Port included
- Large breadboard area for individual application
- Metrowerks CodeWarrior integrated development environment included
- Several software options ready for use

ZigBee Zebra 24xx modules
- Wireless communication module for use in embedded applications
- Worldwide available 2.4 GHz frequency band: 2.4000 - 2.4835 GHz
- 16 channels with 5 MHz spacing not overlapping
- Direct Sequence Spread Spectrum DSSS
- Gross data rate 250 kbps
- Antennas integrated on the module
- Freescale MC13192 RF or MC13213 front end
- Freescale HCS08 base band controller with 60 kByte flash
- 50 pins HIROSE connector or BGA SMT footprint
- Operating voltage 2.0 - 3.4 V
- Mechanical dimensions 16 mm x 33 mm with metallic shielding
- Several software options, including ZigBeeTM network stack
- Link range up to 100 m depending on the actual environment
- ZEBRA 241x: RF output power 10 dBm 10mW, receiver sensitivity -97dB & on board PA & LNA

496630

Mftrs. List No.	Description	Order Code	Price Each
ZEBRA2400	Zebra Starter Kit	**149-5947**●	173.73
ZEBRA2411	RF Module with PA/LNA & 50 pin Receptacle	**149-5934**●	28.91
ZEBRA2412	RF Module with PA/LNA & SMT BGA Footprint	**149-5943**●	28.91

ZENA Network Analyser Tool & Software

New





The ZENA™ tool is a wireless network analyser that graphically displays wireless network traffic following the IEEE 802.15.4™ specification on the 2.4GHz band. It supports both the ZigBee™ and MiWi™ protocols. In conjunction with the hardware packet sniffer, the software can analyse complete network traffic and graphically display decoded packets. It can also display a graphical representation of the network topology and the messages as they flow through the network. This information can then be saved and/or exported for further analysis.

The Software Enhanced CDROM for the ZENA Network Analyser (DM183023) provides the same functionality as the software delivered with the ZENA Wireless Network Analyser, with the additional capability of decoding secure network packets when provided with the network key. This capability allows developers to debug secure networks during development.

499865

	Mftrs. List No.	Order Code	Price Each
ZENA Wireless Network Analyser Tool	DM183023	**154-6593**●	79.26
ZENA 2.0 Software, CD-ROM	SW183052	**154-6596**	3.58

PICDEM Z 2.4GHz Demo Kit

New

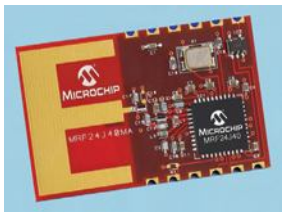


The PICDEM Z Demo Kit is designed to demonstrate the Microchip solution for the ZigBee protocol by using Microchips very own MRF24J40 transceiver. Included are two ZigBee nodes, each pre-programmed with demo Coordinator and Reduced Function Device (RFD) applications, and a ZENA Network Analyser Board. Each node in the kit consists of two boards: one motherboard and one RF card.

527555

Mftrs. List No.	Description	Order Code	Price Each
DM163027-5	PICDEM Z Demo Kit	**167-6240**●	164.61

MRF24J40MA 2.4GHz IEEE 802.15.4 Transceiver Module



New

The MRF24J40MA is a 2.4 GHz IEEE 802.15.4 radio transceiver module. The MRF24J40MA has an integrated PCB antenna, matching circuitry, and supports the ZigBee™, MiWi™ and MiWi™ P2P protocols. The MRF24J40MA module can connect to many popular Microchip PIC® microcontrollers and is an ideal solution for wireless sensor networks, home automation, building automation and consumer applications.

Features:
- FCC (USA), IC (Canade), ETSI (Europe) Certified
- Simple four-wire SPI interface to PIC® microcontroller
- Integrated 20 MHz and 32.768 kHz oscillator drive
- Low current consumption
- Hardware CSMA-CA Mechanism
- Hardware security engine (AES-128)

518944

Mftrs. List No.	Description	Order Code	Price Each
MRF24J40MA-I/RM	MRF24J40MA 2.4GHz Transceiver Module	**163-0202**●	5.03

MRF24J40MA PICTail Plus 2.4GHz RF Card



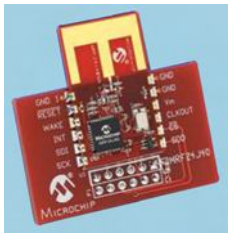
New

The MRF24J40MA PICtail Plus 2.4GHz Radio Frequency Card is built with the NEW agency-certified MRF24J40MA IEEE 802.15.4 RF transceiver module. The module is attached to a PICTail Plus carrier board allowing the RF Board to be used with an Explorer 16 development kit. Targeted for ZigBee, MiWi, and MiWi P2P wireless protocol applications, it is a perfect solution for low-cost, low-power complete embedded wireless PAN applications.

515833

Mftrs. List No.	Description	Order Code	Price Each
AC164134	MRF24J40MA PICTail Plus 2.4GHz RF Card	**161-5690**●	13.55

AC163028 PICDEM Z RF Board



New

This PICDEM Z 2.4GHz Radio Frequency Board uses the NEW agency-certified MRF24J40MA IEEE 802.15.4 RF transceiver module. The module is attached to the carrier board with a 12-pin modular connector allowing the RF Board to be used with the current PICDEM Z development kit or as a production module to wirelessly enable customer designs. Targeted for ZigBee, MiWi, and MiWi P2P wireless protocol applications, it is a perfect solution for low-cost, low-power complete embedded wireless PAN applications.

Features:
- 2.4 GHz IEEE 802.15.4 Transceiver Module
- Supports ZigBee™, MiWi™, and MiWi P2P protocols
- FCC (USA), IC (Canade), ETSI (Europe) Certified
- Integrated PCB Antenna with:

- Simple four-wire SPI interface to PIC® microcontroller
- Integrated 20 MHz and 32.768 kHz oscillator drive

- Low current consumption
- Hardware CSMA-CA Mechanism
- Automatic ACK response
- Hardware security engine (AES-128)
- Automatic packet retransmit capable
- Surface Mountable

515824

Mftrs. List No.	Description	Order Code	Price Each
AC163028	MRF24J40MA Radio Transceiver Module	**161-5689**●	13.55

FREE technical support
Our trained engineers are here to help!

08447 11 11 22

techsales@farnell.co.uk

Live technical chat at www.farnell.co.uk

PICDEM™ Z

ZigBee™ Technology Demonstration Kit



The PICDEM™ Z 2.4GHz Demonstration Kit supports the ZigBee standard protocol for wirelessly networked control and monitoring applications. It is an easy-to-use evaluation and development platform which includes all the hardware, software source-code and printed circuiut board layout files needed to rapidly prototype wireless products. The PIC-DEM Z platform uses integrated nanoWatt Technology power managed modules, along with advanced analogue, control and com-munications peripherals. The kit includes two PIC-based Motherboards, two 2.4GHz RF Boards and Protocol Stack Software.

- 64KB of self-programmable Flash program memory
- Compatible with Windows 98/Me/2000/XP via serial port
- ZigBee protocol stack source code CD-ROM
- PICDEM Z User's Guide CD-ROM
- Online support available

383300

	Mftrs. List No.	Order Code	Price Each
PICDEM Z MotherBoard	AC163027-1	**870-0311**	64.36

PICDEM Z Demonstration Kit



The PICDEM Z Demonstration Kit is de-signed to allow developers to evaluate and experiment with Microchip solutions for the ZigBee protocol. The PICDEM Z Dem-onstration Kit provides two ZigBee nodes to create a simple two-node network. If required, additional nodes may be pur-chased to expand the network. The pre-programmed demo application firmware allows multiple operational configurations without modifying a single line of code.

Contents:

- Two PICDEM Z demonstration motherboards
- Two PICDEM Z RF cards
- Two 9V batteries
- The Microchip Software CD for ZigBee CD-ROM, which contains demoapplications and source code for the Microchip Stack
- A warranty registration card

478205

Mftrs. List No.	Order Code	Price Each 1+
DM163027-4	**132-4427●**	193.10

EB421 Easy Zigbee Pack



New

This bundle includes everything needed to rapidly develop Zigbee based systems linked to microcontroller hardware. Includes is a copy of Flowcode V3 professional, three E-blocks PICmicro microcontroller USB multiprogrammers, LCD board, LED board, switch board, three Zigbee boards, two sensor boards, power supply, and three 16F877A devices. Flowcode macros for rapid Zigbee development are available.

Features:

- Ideal for Zigbee system development
- Full copy of Flowcode included
- Great for learning and project development

516947

Mftrs. List No.	Description	Order Code	Price Each
EB421	Easy Zigbee Pack	**162-0650●**	336.00

E-blocks Zigbee Boards

Co-ordinator & Router



New

The E-blocks Zigbee board uses a V2 XBEE module that allow connection to one or more E-blocks systems together using the new Zigbee (wireless area network) standard, or to connect your system to a third party Zigbee system. The modules used are compliant with the 2007 Zigbee Pro standard. Flowcode macros for this E-blocks board are available.
Due tothe nature of the Zigbee standard there are two different boards:
The **EB051R** is preprogrammed to behave as a router node in a Zigbee system.
The **EB051C** is preprogrammed to behave as a co-ordinator node in a Zigbee system.

Features:

- Create a wireless sensor network using E-blocks
- Flowcode macros available

516851

Mftrs. List No.	Description	Order Code	Price Each
EB051C	E-blocks Zigbee board - Co-ordinator	**162-0644●**	56.00
EB051R	E-blocks Zigbee board - Router	**162-0645●**	56.00

CYWUSB6953 WirelessUSB™ PRoC™ Flash MCU + Radio

The CYWUSB6953 is a complete Radio System-on-Chip device, which enables many simple RF systems to be implemented with a single device and a handful of discrete components. The CYWUSB6953 is designed to implement low cost wireless systems operating in the worldwide 2.4-GHz Industrial, Scientific, and Medical (ISM) frequency band (2.400 GHz-2.4835 GHz). The microcontroller is a powerful mixed-signal array, based on the M8C 8-bit engine.

MCP5200 Features:

- 16K Instruction and 16K Data Caches
- 10/100 Ethernet MAC
- Peripheral Control Interface (PCI) Version 2.2
- ATA/IDE Interface
- USB 1.1 Host (two each USB 2.0 compatible)
- Programmable Serial Controllers (six)
- Serial Peripheral Interface (SPI)
- I2C (two)
- I2S (up to three)
- CAN 2.0 A/B (two)
- 8 Timers

451141

Mftrs. List No.	Pins/ Package	(Byte)	Flash (KByte)	Frequency (MHz)	Lines	(10 bit)		Order Code	Price Each 1+	10+	100+
CYWUSB6953-48LFXC	QFN48/	512	8	12	18	2	UART, SPI Master or Slave	SMD **126-9154●**	4.80	3.39	2.73

Wireless RF Solutions



AMB8420



AMB2520

The **AMB8420** (868MHz) & **AMB2520** (2.4GHz) are compact and low-cost radio data transmission modules for wireless half-duplex communication. The integrated microprocessor controls data communication, handling packet and checksum formation, addressing, monitoring of channel access and resending unreceived packets. The host system does not have to perform any radio-specific tasks. The modules can be configured in many ways and supports data transfer with fast channel and address switching.

New

Features:

- Integrated software stack with extensive functions
- Flexible addressing with up to 255 nodes in 255 networks
- Complies with requirements in R&TTE Directive 1999/5/EC
- Integrated ceramic aerial, optional: external aerial connection

RL Re-reeling available

Communications - ZigBee (IEEE 802.15.4) / ISM - continued

Wireless RF Solutions - continued



AMB8460



AMB2560

The **AMB8460** (868MHz) & **AMB2560** (2.4GHz) are variations of the radio modules AMB8420 & AMB2520. They make for an easy connection to the PC via the USB interface. In combination with the relevant radio technology in the end device, these solutions enables quick and simple realisation of PC supported radio networks and can be used, for example, for data collection or control tasks.

Features:
- Communication via a virtual COM port
- Integrated software stack with comprehensive range of functions
- Flexible addressing and network topologies with up to 255 nodes in 255 networks
- Configurable data rate and transfer channel



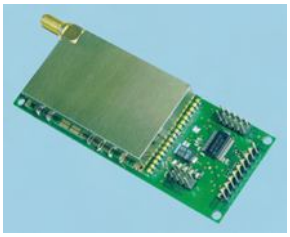
AMB8423

The **AMB8423** radio module is the 868/915 MHz version of the TI Tools eZ430-RF2500 2.4GHz radio module. It differs to the 2.4 GHz solution only in the RF chip and in the antenna. All other functions of the boards as well as the interface are identical.

Features:
- Over the Air Data rate up to 250Mbps
- Interface data rate Up to 256 kBaud (UART)
- Usable with SimpliciTI™
- Range Up to 300 M
- For Development use



AMB8350



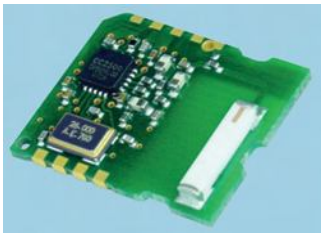
AMB8355

The **AMB8350** operates in the ISM 868 MHz band and is a high performance wireless modem providing a reliable low cost serial data communications link that can be used for many data communications applications. The RF modem is very simple to use and provides a wireless RS232 link with a RF data rate of up to 57.6 kbps.

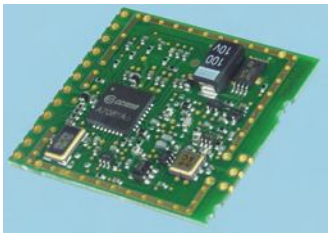
The **AMB8355** Long Range Radio Modem provide an easy-to-use, long range, multi-channel serial data communications link for a range of up to 20 km at line of sight or up to 3 km indoors. The modem transmits and receives half duplex serial data at rates of 1.2 kbps to 19.2 kbps (over-the-air data rate) by means of a FM Radio Transceiver operating in the 868 MHz frequency band.



AMB8400



AMB2500



AMB8310

The **AMB8400** (868MHz) & **AMB2500** (2.4GHz) are compact and low-cost transceiver modules for wireless communications. Integrated functions include automatic appending and checking of a 16-bit checksum, address analysis and the option of using Forward Error Correction in combination with interleaving, take much of the work from the host system in handling radio-specific tasks. The **AMB8310** radio transceiver module provides reliable wireless communications for the transfer of data at rates of up to 57.6 kbps and operates within the frequency bands of 868 MHz to 870 MHz. Transmission is being effected in the robust FM/FSK modulation. The module is programmable via an SPI interface.



AMB2300



AMB2130

The **AMB2300** BlueNiceCom IV module (BNCIV) is a completely integrated Bluetooth solution, containing a Bluetooth radio (LMX9830), antenna and a fully implemented software protocol stack. The module provides reliable Bluetooth data communication links as well as AUDIO communication links. The module features point-to-point and point-to-multipoint link management supporting data rates up to 704 kbps. The internal memory supports up to seven active Bluetooth ACL links (data) and one SCO link (AUDIO). BlueNiceCom IV is supplied with an onboard chip antenna.
The **AMB2130** radio module allows wireless networks based on the IEEE 802.15.4 and ZigBee standards to be set-up. It is also a powerful and flexible platform for proprietary radio solutions. The integrated power front end (with LNA and PA) can send data wirelessly at distances of up to 400 metres in line of sight. In conjunction with a suitable software stack complex network solutions including routing functions can also be realised.

521728

Frequency Range	Range	Description	Mftrs. List No.	Order Code	Price Each
863.00 - 868.60 MHz	2-FSK, MFSK	Radio Data Transmission Module	AMB8420	**164-2366●**	23.48
2400 - 2483.5 MHz	2-FSK, MSK	Radio Data Transmission Module	AMB2520	**164-2368●**	23.48
863.00 - 868.60 MHz	–	Wireless USB Stick Radio Modem	AMB8460	**164-2367●**	48.45
2400 - 2483.5 MHz	–	Wireless USB Stick Radio Modem	AMB2560	**164-2369●**	48.45
868 / 915 MHz	GFSK, FSK	Radio Module for TI Tool eZ430-RF2500	AMB8423	**164-2378●**	19.23
868.059 - 869.621 MHz	FSK	Wireless Radio Data Modem	AMB8350	**164-2373●**	130.44
869.40 - 869.65 MHz	FSK	Long-Range Radio Data Modem	AMB8355	**164-2374●**	253.43
863.00 to 868.60 MHz	OOK / ASK, 2-FSK, GFSK, MSK	RF Transceiver Module	AMB8400	**164-2370●**	18.27
2400 - 2483.5 MHz	OOK, 2-FSK, GFSK, MSK	RF Transceiver Module	AMB2500	**164-2371●**	18.27
868.00 - 870.00 MHz	FSK, GFSK, ASK/OOK	Medium Range RF Transceiver Module	AMB8310	**164-2372●**	70.81
2400 MHz	–	BlueNiceCom IV Bluetooth Module	AMB2300	**164-2377●**	23.48
2400 MHz	–	ZigBee / IEEE 802.15.4 Long-Range Radio Module	AMB2130	**164-2375●**	70.81

RL Re-reeling available

nanoPAN RF Modules



nanoPAN 5360
This high-speed RF module contains the complete RF-part of a nanoNET network node and provides an asymmetrical 50 antenna port. The data rate is selectable between 500 kbps, 1 Mbps, 2 Mbps. The nanoPAN 5360 module contains an additional ISM band pass filter to ensure an even improved robustness.

Features:
- max output power: 6dBm
- sensitivity: -90 dBm (@BER = 10-3 and 1Mbps)
- ISM band pass filter
- 36 pins

Applications:
- Active RFID
- Industry applications
- Smart home networks
- Alarm Systems
- Multimedia

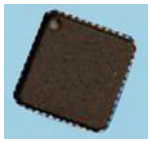
nanoPAN 5361
This RF module is unlike the nanoPAN 5360 not equipped with a band pass filter, and thus achieves a higher output power and better receiver sensitivity.

Features:
- max output power: 8dBm
- sensitivity: -92 dBm (@BER = 10-3 and 1Mbps)
- range: 60m (indoors), 900m (free space)
- 36 pins

475342

Mftrs. List No.	Order Code	Price Each 1+	5+	10+	50+
MP5360M	138-2197●	30.22	28.78	28.26	26.12
MP5361M	138-2198●	30.22	28.78	28.26	26.12

nanoNET TRX Transceiver Chipset



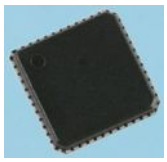
The nanoNET TRX is a fully integrated, energy-efficient transceiver. The chip operates in the license-free ISM Band and, based on the patented CSS technology (Chirp Spread Spectrum), generates so called Up- and Downchirps with a symbol duration of Tsymbol = 1µs and an effective bandwidth of 64 MHz.
Only few external components are necessary to set up a fully functioning wireless node. Even very slow microcontrollers can be used with this high speed transceiver.
The network is extremely robust against multi-path-fading. Due to the mainly analogue signal processing and the robust Chirp signal, the nanoNET TRX requires very little energy per successfully transmitted bit.

Features:
- Programmable support block (RTC, Wake-UP Circuitry, Power Management)
- Programmable digital controller for communication with an external digital controller via SPI
- MAC controller
- Forward Error Correction
- 128 bit encryption
- Supply voltage: min 2.4V & max 3.6V
- Max output power without PA: 8 dBm
- Max. data rate: 2 Mbps
- Sensitivity: - 92 dBm
- Effective bandwidth: 64 MHz
- Operating temp.: - 40 to +80°C
- Package: MLF 44Pin 7x7 lead-free
- Range: 60m (indoors), 900m (free space)

475340

	Mftrs. List No.	Order Code	Price Each 1+	5+	10+	50+
Transceiver	NA0108B	SMD 138-2194●	8.50	8.00	7.50	6.99
Delay Line	DS1804C	SMD 149-4702●	7.63	6.92	6.35	5.86

nanoLOC TRX Chipset



The nanoLOC TRX is a highly integrated mixed signal chip utilizing the patented CSS (Chirp Spread Spectrum). It generates a flexible and noise-resistant signal and enables distance measurement between two wireless nodes. The IC is thus perfectly suited for localization applications, RFID and RTLS networks (Real Time Location Systems). Even very slow microcontrollers can be used with this high speed transceiver.
s ranging is performed during regular data communication, additional infrastructure, power and/or bandwidth is not required.
nanoLOC supports freely adjustable centre frequency with three non-overlappingfrequency channels. This provides support for multiple physically independentnetworks and improved coexistence with existing 2,4 GHz wireless technologies.

Features:
- Forward Error Correction
- 128 bit encryption
- integrated MAC Controller
- SPI Interface
- Max. data rate: 2 Mbps
- Range without PA: (indoors, outdoors and free space) for EIRP = 1 mW (PEP): 10m, 100m, 300m
- Accuracy: ≤ 1m
- Operating temp.: - 40 - +80°C
- Package: VFQFPN-48 7x7

Applications:
- industry
- logistics
- RTLS
- Security

475341

Mftrs. List No.	Order Code	Price Each 1+	5+	10+	50+
NLSG0501A	SMD 138-2195●	20.25	19.00	18.50	17.50

nRF9x5 Development Tools

The nRF9x5-EVKITs are made for low cost evaluation & development. Programming and set up is performed via a PC USB interface. All I/O pins of the devices are available on external connectors, and the evaluation boards are built up of an RF module connected to a carrier board.

nRF9E5-EVKIT:
Two boards with nRF9E5 transceiver
- Connectors for ADC interface
- Connectors for Digital I/O and peripherals
- 4 push buttons for user input
- 4 light diodes for output
- Temperature sensor for ADC/range evaluation
- SMA connector for antenna
- Two antennas for SMA connector

Two PC interface boards:
- Connects to nRF9E5-EVBOARD
- Connects to PC USB port

CD-ROM with software and documentation:
- PC interface SW
- Example programmes
- Support for 3rd party development tools:
- Assemblers
- Linkers
- Compilers
- Debugger

Mftrs. List No.		Order Code	Price Each
NRF9E5-EVKIT-433	Evaluation Kit	134-6280▲	291.09
NRF9E5-EVKIT-868/915	Evaluation Kit	134-6281▲	291.09

nRF905-EVKIT:
Two boards with nRF905 transceiver
- Connectors for MCU interface
- SMA connector for antenna
- Two antennas for SMA connector

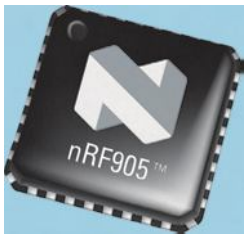
Two PC interface boards:
- Connects to nRF905-EVBOARD
- Connects to PC USB port

CD-ROM with software and documentation:
- PC interface SW

465100

Mftrs. List No.		Order Code	Price Each
NRF905-EVKIT-433	Evaluation Kit	134-6278▲	226.41
NRF905-EVKIT-868/915	Evaluation Kit	134-6279▲	226.41

nRF905/9E5 - Multiband Transceivers





nRF905/9E5 are single-chip radio transceivers for the 433/868/915 MHz ISM band. The transceivers consists of a fully integrated frequency synthesiser, receiver chain with demodulator, a power amplifier, a crystal oscillator and a modulator. Configuration is easily via the SPI interface. Current consumption is very low and built in power down modes makes power saving easily realizable.

nRF9E5 integrates a 8051 compatible microcontroller and a 4 input 10bit 80ksps AD converter. The circuit has embedded voltage regulators, providing maximum noise immunity. Additionally, the nRF9E5 is suitable for frequency hopping, has low MCU current (1mA, @ 3V, 4MHz typ), with 2.5uA stabdby with wakeup on timer or external pin.

Features:
- ShockBurst™ mode for low power operation
- Multi channel operation - ETSI/FCC Compatible
- Channel switching time <650µs
- No external SAW filter
- Adjustable output power up to 10dBm
- Carrier detect for "listen before transmit" protocols
- Data Ready signal when a valid data package is received or transmitted
- Address Match for detection of incoming package
- Automatic retransmission of data packages
- Automatic CRC and preamble generation
- Low supply current (TX), typical 11mA @ -10dBm output power
- Low supply current (RX), typical 12.5mA
- Power supply range 1.9 to 3.6V

465137

Mftrs. List No.		Order Code	Price Each
NRF905	32/QFN RF Transceiver	SMD 134-6269●	4.66
NRF9E5	32/QFN RF Transceiver with MCU & ADC	SMD 134-6270●	5.38

£/€ 40,000 PRICES REDUCED

RL Re-reeling available

Farnell

Communications - ZigBee (IEEE 802.15.4) / ISM - continued

Nordic Transmitters & Transceivers

New

The nRF24AP1 is a drop-in wireless communications solution that provides private and public network connectivity and eliminates the need to purchase third party protocol stacks and acquire standards certification through expensive acceptance testing.

Features:
- Designed for Coin Cell Battery operation
- Uni-directional and bi-directional channel support
- Channel method: TDMA
- 232 addressable devices
- Message rate > 200 messages per second
- Data validity detection: 16 bit CRC
- Adaptive channel communications
- Data security and immunity from cross-talk
- Supports star and peer-to-peer networks
- Private and public networking capability
- 125 channels
- 1.9 - 3.6V voltage supply

The nRF24Z1 gives the user a true single chip system for CD quality audio streaming of up to 16 bit 48 kHz audio with support of up to 24 bit 96 kHz input.

Features:
- 4Mbit/sec RF link - true lossless audio
- Adaptive frequency hopping
- Programmable latency
- Quality of Service (QoS) engine supporting up to 1.536 Mbit/sec LPCM audio
- S/PDIF interface for direct connection to PC soundcard and surround receivers
- I2S interface for glueless audio support
- SPI or 2-wire interface for up to 12kbit/sec peak
- bi-directional digital control/AUX data
- On chip optional 2:1 compression
- On chip voltage regulators

The nRF24E2 is based on the market leading nRF2402. The most sophisticated low cost 2.4GHz ISM wireless component is paired with the industry standard 8051 MCU core, and leading peripherals to create the worlds first complete low cost System on Chip (SoC) IC's for global 2.4GHz operation.

Features:
- Internal voltage regulators
- Ultra low current drain standby and operation
- Internal VDD monitoring
- Multi Channel operation
- 125 channels
- Supports frequency hopping
- Channel switching time <200us
- Address and CRC computation
- Shock Burst mode for ultra-low power operation
- RF tested

The nRF2402G is a highly integrated component for wireless communication manufactured in an ultra modern 0.18mm CMOS process. The entire transmitter including all inductors and filters is integrated in a single chip that gives the lowest cost solution to the end user.

features:
- Multi Channel operation 125 channels
- Supports frequency hopping
- Channel switching time <200μs
- Power supply range: 1.9 to 3.6 V
- Address and CRC computation
- Shock Burst mode for ultra-low power operation
- Low supply current (TX), typical 10mA @ -5dBm output power
- RF tested
- Complements the nRF2401 transceiver

The nRF401G is a true single chip UHF transceiver designed to operate in the 433MHz ISM (Industrial, Scientific and Medical) frequency band. It features Frequency Shift Keying (FSK) modulation and demodulation capability.

Features:
- True single chip FSK transceiver 433MHz
- Few external components required
- No set up or configuration needed
- No coding of data required
- 20kbit/s data rate, 2 channels
- Wide supply range
- Very low power consumption
- Standby mode

nRF403G is a true single chip UHF transceiver designed to operate in the 315/ 433 MHz ISM frequency band. It features Frequency Shift Keying (FSK) modulation and demodulation capability.

Features:
- True single chip FSK transceiver
- Few external components required
- No set up or configuration
- No coding of data required
- 20kbit/s data rate
- 315/ 433 MHz operation
- Wide supply range
- Very low power consumption
- Standby mode
- +10dBm RF output power

500865

Mftrs. List No.	Pins/Pkg	Max O/P Power	Max. Data Rate	Sensitivity	Description	Temp. Range	Order Code	Price Each 1+	10+	100+
NRF24AP1	24/QFN	0dBm	1000Kbps	-80dBm	2.4 GHz Transceiver with Embedded ANT Protocol	-40°C to 85°C	SMD154-6509●	5.68	5.17	4.65
NRF24Z1	36/QFN	0dBm (Tx)	–	-80dBm	2.4GHz Wireless Audio Streamer	-20°C to 80°C	SMD154-6511●	7.24	6.20	5.68
NRF24E2G	36/QFN	0dBm	1000Kbps	–	2.4 GHz Radio Transmitter with Microcontroller	-40°C to 85°C	SMD154-6512●	4.65	4.13	3.36
NRF2402G	16/QFN	0dBm	1000Kbps	–	Single Chip 2.4 GHz Transmitter	-40°C to 85°C	SMD154-6513●	2.58	2.12	1.85
NRF401G	20/SOIC	10dBm (RF)	–	–	433MHz Single Chip RF Transceiver	-25°C to 85°C	SMD154-6514●	5.68	5.17	4.65
NRF403G	20/SOIC	10dBm (RF)	–	–	315/433 MHz Single Chip RF Transceiver	-25°C to 85°C	SMD154-6515●	5.68	5.17	4.65

nRF2401/nRF24L01 Single chip GFSK 2.4Ghz Transceiver





These are single chip radio transceivers for the world-wide 2.4 - 2.5GHz ISM band. The transceivers consist of a fully integrated frequency synthesizer, a power amplifier, a crystal oscillator, and a modulator.
The nRF24L01 also consists of a demodulator and an Enhanced ShockBurst™ protocol engine.

Output power, frequency channels and protocol setup are programmable through a SPI/3-wire interface.

Power Supply range is specified at 1.9 to 3.6V with low current consumption, built-in Power Down and Standby modes making power saving realizable.

nRF2401 features:
- Only 2 external components
- Multi channel operation
  - 125 channels
  - Channel switching time <200µs
- Support frequency hopping
- Data slicer / clock recovery of data
- Address and CRC computation
- DuoCeiver™ for simultaneous dual receiver topology
- ShockBurst™ mode for ultra-low power operation and relaxed MCU performance
- No need for external SAW filter
- QFN 24-pin

nRF24L01 features:
- Complete OSI Link Layer in hardware
- Enhanced ShockBurst™
- Auto ACK & retransmit
- Address and CRC computation
- Digital interface (SPI) speed 0-8 Mbps
- 125 RF channel operation
- Short switching time enable frequency hopping
- Fully RF compatible with nRF24XX
- 5V tolerant signal input pads
- Uses ultra low cost +/- 60 ppm crystal
- QFN 20-pin

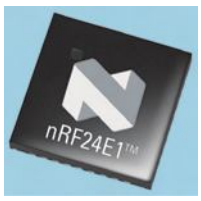
465123

RL Re-reeling available

Farnell

Mftrs. List No.	Max O/P Power	Max. Data Rate	Supply Current in TX Mode	Supply Current in RX Mode	Temp. Range	Sensitivity	Supply Current in Power Down Mode	Order Code	1+	Price Each 10+	100+
NRF2401GA	0dBM	1000Kbps	10.5mA @ 5dBm O/P power	18mA	-40°C to 85°C	-90dBm	400nA	SMD 134-6266	2.85	2.28	1.90
NRF24L01G	0dBM	2000Kbps	11.3mA @ 0dBm O/P power	12.3mA	-40°C to 85°C	-85dBm	900nA	SMD 134-6268	2.54	2.03	1.70

nRF24E1 - System on Chip with 8051 MCU



The nRF24E1 transceiver with embedded 8051 MCU, 12-bit ADC, and peripherals is a complete wireless ISM band platform. The sophisticated 2.4GHz ISM wireless component, based on the nRF2401, is paired with the industry standard 8051 MCU core and leading peripherals to create a System on Chip (SoC) for global 2.4GHz operation. The entire radio, 8051 MCU, 9 channel 12 bit ADC, peripherals, inductors and filters, are integrated on a single die. Only external crystal, resistor, and a 4KB EEPROM for initial program storage are needed to make a complete system.

Features:
- 8051 compatible microcontroller
- 9 input 10 bit ADC 100Kspls/s
- Internal voltage regulators
- Ultra low current drain standby and operation
- Internal VDD monitoring
- Data rate 0 to1Mbps
- Multi Channel operation 125 channels
- Support frequency hopping
- Channel switching time <200us.
- Power supply range: 1.9 to 3.6 V
- Address and CRC computation
- Shock Burst™mode for ultra-low power operation
- 0 dBm output power

465133

Mftrs. List No.		Order Code	Price Each
NRF24E1G	36/QFN RF Transceiver SoC with MCU & ADC	SMD 134-6267	5.38

Communications - RFID / IrDa

RFID Reader IC & Study Kit





Supporting I-code and Tag-it protocols, the **TRH031M** reads ISO/IEC 1443 type A and B, as well as ISO 15693 standards. It has an operating range of 10cm for ISO/IEC14443A/B and up to 150cm for ISO 15693.
The **RSK-100** AnyRead™ Educational Kit is developed to enhance understanding and to educate RFID technology to OEMs, developers, educators, reader manufacturers & system integrators. It includes an EV-100 evaluation board (with TRH031M, Atmel AT89C51E 8-bit microcontroller, RS-232 communication DB-9 port, LCD display, antenna, and regulated dc power supply), WinXP/2K-compatible software, power supply, cables, three TRH031M ICs, and four RFID tags (14443 and 15693 standards)

515326

Mftrs. List No.	Description	Order Code	Price Each
TRH031M	13.56MHz Multi-Protocol Reader IC	SMD 161-6963	5.14
RSK100	RSK-100 AnyRead™ Educational Kit	161-6964	183.14

RFID Tag/Card



The TTH75D02 is a high performance and relaible RFID Tag that is fully compatible with ISO 15693

Features:
- RF Interface compatible ISO 15693
- Operating frequency: 13.56MHz
- Operating distance: Up to 1.5m (Gate width)
- Fast Data transfer: 26.5Kbits/s
- High data integrity: 16bits CRC, framing
- Anti-collision
- Electronic Article Surveillance (EAS)
- Application Family Identifier (AFI) supported
- Additional fast read/write mode
- 2Kbits EEPROM, organized by 64 blocks of 4 byte each
- Data retention of 10 years
- Write endurance 100,000 cycles

515333

Mftrs. List No.	Description	Order Code	Price Each
TTH75D02	ISO 15693 RFID Tag IC	161-6965	1.24

nDolphin RF Digital Lock Kit



The nDolphin is a new name in RF digital locks, which allows Implementation of 13.56MHz RFID technology.
It is both durable and reliable with dual stainless lock features. Due to minimised power consumption it has a long lasting battery life and is also user friendly for both customers and administrators.

Features:
- Automatic lock feature
- External emergency power source for battery exhaustion
- Signal alert for battery exchange (Approx. 40x use after first signal alert)
- Signal alert for irregular locked door
- Signal alert for forced breakage
- Easy security restrictions
- Functions as locker handle

515351

Mftrs. List No.	Description	Order Code	Price Each
NDOLPHIN	RF Digital Lock Kit	161-6966	59.12

RFID Development Kits



ATA2270-EK1



ATAK2270



TMEB8704



ATAK2270UG

3 different types of RFID development and evaluation kits are available. Two of them, TMEB8704 and ATAK2270, are PC based and come with PC software. The difference between these two kits is the type of LF-RFID tags supported (See table below).
The third kit, ATA2270-EK1, is a new generation of kit and is stand-alone. Buttons and joystick on the PCB are used to operate the kit. A display and a beeper complete it.

An upgrade kit (ATAK2270UG) from TMEB8704 to ATAK2270 is also available.

Supported RFID IC Devices	TMEB8704	ATAK2270	ATA2270-EK
T5551/TK5551	✓	✓	✓
e5530/TK5530	✓	✓	✓
T5552/TK5552	✓	✓	—
T5554	✓	✓	✓(1)
ATA5558	—	—	✓
T5557 compatible	✓	✓	✓(2)
T5557 extended	—	✓	✓
e5561/TK5561	✓	—	—
ATA5567 compatible	✓	✓	✓(2)
ATA5567 extended	—	✓	✓
ATA5570	—	✓	—

Notes:
1. To use the T5554 select tag type T5551 in the software
2. The ATA2270-EK1 can read/write data in this configuration but can not place tags into the mode. Also they must be configured so that they use the 5551 terminator.

RL Re-reeling available

Communications - RFID / IrDa - continued

RFID Development Kits - continued

501778

Mftrs. List No.	Description	Order Code	Price Each
TMEB8704	RFID Transponder Kit	155-1855●	532.93
ATAK2270	LF RFID Development Kit	155-1853●	532.93
ATA2270-EK1	LF RFID Evaluation Kit	155-1852●	336.99
ATAK2270UG	LF RFID Upgrade Kit	155-1854●	62.69

RFID OEM Mifare Reader



New

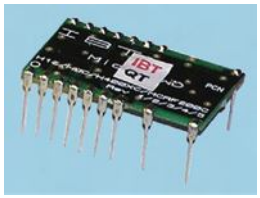
The OEM-MIFARE Reader Board is a complete Mifare 1k, 4k and Ultralight reader system including PCB antenna, LEDs and MAX202 for RS232 communication. This board is the RWD-MIFARE module design laid out inside a PCB track antenna and it functions in exactly the same way as the module with an antenna fitted. The design incorporates 5-volt supply filtering to ensure optimum performance, antenna-trimming capacitor to adjust tuning for different environments and has several connector options with all the control signals, TTL level serial and ±12-volt RS232 signals available.

Features:
- Supports Mifare, ICODE and Ultralight Protocols (© Philips Semiconductor)
- Up to 10cm range on 13.56MHz
- Fast Baud rates up to 106K Baud
- Supports Read/Write to Transponders

524566

List No.	Description	Order Code	Price Each
RWD-MIFARE-OEM	Mifare RFID Receiver Module + Integrated Antenna	165-5512●	49.98

RFID Passive Tag Solutions



130-4028



130-4030



130-4032

A range of 'Smart' contactless identification products for OEM Applications.
Ready to operate for easy integration these modules, feature a variety of coprocessor, security technology for highly integrated low cost SmartCard solutions.
The MicroRWD chip module is a complete RF transponder / contactless smart card reader /writer system on a module and represents one of the smallest and lowest cost solutions currently available. A complete solution requires connection to the coil Antenna and provides a serial data interface (RS232 at TTL level)

RWD SmartCards:
- Credit Card Size
- ISO Passive Cards Programmable w/ Eval Kit

RFID Coil Antenna:
- Pre tuned antenna
- Connects Directly to RWD Module to complete system

RWD SmartCard Reader/Writer module:
- Tag Reader / Writer Module
- Performs All Read / Write functions
- Simple RS232 Interface
- Hitag / Mifare / EM Marin Protocols
- 24pin DIL PCB Mounting Module

Applications:
- Access Control
- Contactless switching
- Product ID, Tracking, Logging

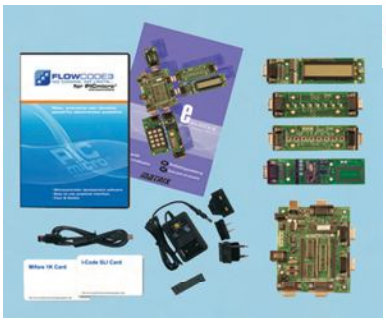
Universal Eval Kit:
The Universal Eval Kit provides a "ready-to-use" RFID reader system for development and evaluation of an RFID system.The kit includes:
RFID reader unit
RWD-QT Module
RWD-MIFARE module
CARD-MIFARE
CARD-HITAG1S
CARD-HITAG2
CARD-EM4102
External 125KHz Coil Antenna
Enclosure of Reader Unit
CD Rom containing data sheets and Windows applications (executable and C source)
The RFID reader has an integrated antenna and can accept any of the RWD modules to realize an RFID application for Mifare, Hitag 1, 2 , EM Marin, protocol with a USB output to interface to a PC.

450601

Description	Mftrs. List No.	Order Code	Price Each 1+	5+	10+
Reader Modules					
Read/Write DIP Module Quad Tag	RWD-QT	130-4028●	25.49	24.15	23.74
Read/Write DIP Module, MiFare	RWD-MIFARE	130-4029●	25.49	24.15	23.74
Coil Antenna's					
Coil Antenna, 125KHz	ANT-125K	130-4030●	5.52	5.25	5.16
Coil Antenna, 13.56MHz (MiFare)	ANT-1356M	130-4031●	9.36	8.98	8.81
Smart Cards (ISO)					
ISO Transponder Card Hitag 2	CARD-H2	130-4032●	6.14	5.82	5.73
ISO Transponder Card MiFare 1K	CARD-MIF1K	130-4034●	6.14	5.82	5.73
Evaluation Kit					
RFID Evaluation Kit	UNI-EVAL	130-4035●	207.04	196.64	193.51

EB539 Easy RFID Pack

matrix multimedia



New

This bundle includes everything needed to rapidly develop RFID based systems linked to microcontroller hardware. It includes a copy of Flowcode V3 professional, an E-blocks PICmicro microcontroller USB multiprogrammer, LCD board, LED board, switch board, RFID board, power supply, two Mirfare type RFID cards, two I-code SLI type RFID cards and a spare 16F877A device. Flowcode macros for rapid RFID development are included.

Features:
- Rapid development of RFID based systems
- Includes a full copy of Flowcode
- Ideal for learning and project development

516948

Mftrs. List No.	Description	Order Code	Price Each
EB539	Easy RFID Pack	162-0651●	171.50

E-blocks RFID Board

matrix multimedia



New

This E-blocks RFID board allows easy incorporation of RFID tags into an electronics system. The board includes an RFID module that communicates to Mifare, Icode and Ultralight cards at a distance of up to 10cm using the onboard antenna at frequencies of 13.56MHz. It has also been designed for use with Hitag type cards operating at 125KHz (with external antenna - not supplied).
This board only operates with a 5V supply and is supported by Flowcode macros for reading and writing data to and from cards and tags.

Features:
- Mifare, Icode and Ultralight compatible
- On-board antenna
- 2 Mifare and 2 Icode cards supplied
- Flowcode macros available

516835

Mftrs. List No.	Description	Order Code	Price Each
EB052	E-blocks RFID Board	162-0643●	60.67

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Phone: **08447 11 11 11**

RL Re-reeling available

Farnell

rfPIC Development Kit



The rfPIC Development Kit 1 provides design engineers with an easy way to evaluate unidirectional remote sense and control wireless links based on the rfPIC12F675 and rfRXD0420/0920 devices. The kit is based on the popular PICkit™ 1 FLASH Starter Kit and consists of modular building blocks for different transmitters and receivers that can be utilized for prototype systems or to evaluate different options using Microchip products.

Contents:
- PICkit™ 1 FLASH starter kit
- 433.92 MHz transmitter
- 315 MHz transmitter
- 433.92 MHz receiver
- 315 MHz receiver
- rfPIC software and complete documentation (on CD)

System Requirements:
The supported operating systems are Windows 98 Second Edition, Windows ME, Windows 2000 and Windows XP.

339645

	Mftrs. List No.	Order Code	Price Each
	DV164102	**490-7991**	96.55
Accessories for use with rfPIC kit			
Transmitter module (433.92 MHz)	AC164101	**111-2726**	21.46
Transmitter module (315 MHz)	AC164102	**111-2743**	21.46
Receiver module (433.92 MHz)	AC164103	**111-2737**	17.88
Receiver module (315 MHz)	AC164104	**111-2757**	17.88

MCP2140 IrDA Wireless Temp Demo Board



Features:
- Demonstrates the MCP2140 IrDA Protocol Controller in a data logging application
- Communicates directly to a laptop computer, Palm or Pocket PC PDA
- Primary device application programs are provided to demonstrate operation (for PC, Palm OS, Pocket PC)
- Demonstrates the MCP2140 IrDA Protocol Controller in a data logging application
- F/W routines transmit TC1047A temperature and other data to a primary device (i.e., Laptop, PDA)
- Reprogrammable PIC18F1320 with ICSP™ (In-Circuit Serial Programming™) interface and ICD header
- Operates on 3 AAA alkaline batteries

The MCP2140 IrDA Standards Wireless Temp Sensor Demo Board demonstrates the MCP2140 device in a real world application. The system designer can use this design as an example of how to integrate an IrDA standard port in their system.

450877

	Beschreibung	Order Code	Price Each
MCP2140DM-TMPSNS	MCP2140 IrDA Wireless Temp Demo Board	**111-2728**	22.68

IrDA PICtail Plus Daughter Board



The IrDA PICtail Plus Daughter Board is designed to operate in conjunction with Microchips Explorer 16 or other development boards with a PICtail Plus connector and AN1071 IrDA Standard Stack for Microchip 16-Bit Microcontrollers to create an IrDA-enabled development and evaluation platform. The IrDA Stack is written to operate with the IrDA-enabled UARTs on the PIC24F, PIC24H, and dsPIC33 16-bit controllers and digital signal controllers.

493676

	Mftrs. List No.	Order Code	Price Each
IrDA PICtail Plus Daughter Board	AC164124	**143-9833●**	17.88

MCP215X Data Logger Demo Board



The MCP215x IrDA Data Logger Demo Board demonstrates the MCP2150 (or MCP2155) IrDA Standard Protocol Stack Controller device in a real world application. The system designer can use this design as an example of how to integrate an IrDA standard port in their embedded system.

Features:
- Demonstrates the MCP2150 IrDA Protocol Controller in a data logging application
- Communicates directly to a Laptop computer, Palm or Pocket PC PDA
- Primary Device application programs are provided to demonstrate operation (for PC, Palm OS, Pocket PC)
- F/W routines transmit data to a Primary Device (i.e., Laptop, PDA)
- LCD display indicates system state
- Reprogrammable PIC16F877 with ICSP™ (In-Circuit Serial Programming™) interface and ICD header
- Interface Header allows board to be interfaced to a prototype system application
- Header allows other Optical Transceiver circuits to be interfaced to the MCP215x device
- Operates on 9V DC input or a 9V battery

450878

	Beschreibung	Order Code	Price Each
MCP215XDM	MCP215X DataLogger Demo Board	**111-2745**	30.24

MCP212X Developer's Daughter Board



The MCP212X Daughter Board is used to evaluate and demonstrate the MCP2122 or the MCP2120 IrDA® Standard Encoder/Decoder devices.
It is designed to interface to several of the PICmicro Demo Boards. These include the PICDEM HPC Explorer Demo board, the PICDEM FS USB Demo board, and the PICDEM LCD Demo board.

Features:
- 8-pin socket for installation of MCP2122 (installed) and 14-pin socket for installation of MCP2120
- Headers to easily connect to the user's embedded system
- Jumpers to select routing of MCP212X signals to the PICDEM™ Demo Board Headers
- Jumpers to configure the operating mode of the board

494755

Mftrs. List No.	Description	Order Code	Price Each 1+
MCP212XEV-DB	MCP212X Daughter Board	**133-2083●**	17.64

IrDA Controller ICs

The MCP2120 is a stand-alone IrDA Encoder/Decoder designed to fit between a UART and infrared transceiver, this device is capable of the modulation and demodulation of data to the IrDA standard. The MCP2150 is a complete IrDA communications Controller which provides support for the IrDA protocol "stack" plus bit encoding/decoding. Both devices are capable of supporting IrDA communications upto 115.2 kbaud.

234867

Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
14	DIP	IrDa Infrared Encoder/Decoder	MCP2120-I/P	**108-4304●**	1.55	0.86	0.76
14	SOIC	IrDa Infrared Encoder/Decoder	MCP2120-I/SL	SMD **108-4305●**	1.55	0.86	0.76
8	DIP	HSDL-7000 Compatible Infrared Encoder/Decoder	MCP2122-E/PG	**789-3383●**	0.61	0.45	0.40
8	SOIC	HSDL-7000 Compatible Infrared Encoder/Decoder	MCP2122-E/SNG	SMD **789-3395●**	0.33	0.33	0.32
18	DIP	IrDa Communications Controller	MCP2150-I/P	**975-8518●**	5.71	3.20	2.78
18	SOIC	IrDa Communications Controller	MCP2150-I/SO	SMD **975-8526●**	5.71	3.20	2.78
18	DIP	IrDA Encoder/Decoder, 9600 Baud	MCP2140-I/P	**133-2084●**	1.40	1.18	0.78
18	SOIC	IrDA Encoder/Decoder, 9600 Baud	MCP2140-I/SO	SMD **133-2085●**	1.40	1.18	0.78
18	PDIP	IrDA® Standard Protocol Stack Controller With Fixed 9600 Baud Communication Rate	MCP2140A-I/P	**143-9520●**	1.40	1.00	0.78
18	SOIC	IrDA® Standard Protocol Stack Controller With Fixed 9600 Baud Communication Rate	MCP2140A-I/SO	SMD **143-9521●**	1.53	1.09	0.85
18	PDIP	115.2 kbaud IR Stack Controller with Signal Encoding/Decoding for Data Comms.	MCP2155-I/P	NEW **155-7426●**	4.30	3.26	2.56

Communications - RFID / IrDa - continued

KEELOQ Evaluation Kit



KeeLoq HCS410 300-2883



KeeLoq Evaluation Kit 386-6403

The kit demonstrates the capabilities of Microchip's code hopping technology. The encoder devices are designed to be the transmitter portion and the decoders as the receiver portion to a keyless entry system.

Typical applications for the Keeloq devices include:

- Keyless entry
- Security systems
- Garage door openers
- Central locking systems
- Transcation cards
- Immobilizers
- ID tokens
- Electronic tagging
- Passive transponders

and many more...

The Evaluation kit includes the necessary hardware to evaluate code hopping system and demonstration software program on 3.5" disk.

The code hopping encoders feature:

- Programmable 28/32-bit serial number
- Programmable 64-bit encryption key
- Each transmission unique
- Encryption keys are read protected

Supplied with a universal power supply. UK or International power supply optional. UK or European mains plug lead available separately.

210892

	Order Code	Price Each 1+
KeeLoq Evaluation Kit	**386-6403**	178.79
Power supply 9V, 900mA (IEC 110-240V ac)	**110-711**	22.99
Lead, European 2.5M, Black	**112-4379**●	5.75

228412

	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
301	8	SOIC	Code hopping encoder, 66-bit transmission code length, 32-bit hopping code, 28-bit serial number, 4-bit function code, 2-bit status, 3.5V - 13.0V operation	HCS301-I/SN	SMD **121-2475**●	1.09	0.72	0.62
360	8	SOIC	Code hopping encoder and transponder	HCS360-I/SN	SMD **975-8321**●	1.41	0.92	0.79

1

YT-3000 YETI Programmable Walking Robot

AREXX

High-tech "YETI" build it yourself Mobile Robot



YETI is a walking robot, fully programmable in C, for Windows® and Linux systems. It is very much suitable for hobby and educational purposes such as robotic school projects, training at the job and further courses in the electronic and mechanic field. It is supplied as a complete construction kit with programming software (compiler, editor & upload tool), two servos, RS-232 IR-Tranceiver, LEDs and Beeper.
The YETI walking robot can be programmed by PC wirelessly throught the supplied Duplex IR-Transceiver.

Experiment with walking, turning, dancing and running movements, etc. The software library supports you with walking functions and IR-communication functions with extensive source code documentation in the English language. This walking robot can be controlled by computer through infrared signals and by a regular TV IR-remote control. Upgradable by means of I²C-Bus System with the following upgrade and experimental kits:

YT-EXP1 Experiment Set:
With this Experiment Set YT-EXP1 you can make your own electronic circuit for YETI.

YT-DSP2 Display Set:
The Display YT-DSP2 shows you all current YETI data.

YT-ULT3 Ultrasonic Set:
With this Ultrasonic Set YT-ULT3 you can let YETI avoid obstacles and measure distances.

Further information:

- Power supply: 4 x AA (not included)
- Power consumption: min. 10 mA / max. 600 mA

452160

Description	Order Code	Price Each
YETI, Robot Kit, programmable	**128-0083**●	54.34
Accessories		
YETI, expansion board	**128-0084**●	3.00
YETI, display expansion	**128-0085**●	7.96
YETI, supersonic expansion	**128-0086**●	10.25
YETI, chassis, red	**128-0087**	25.92
YETI, chassis, blue	**128-0088**	20.03

Communications - Radio / Remote Control

ARF18 Remote Control Demonstration Kit

Bi-Directional - 869MHz



The main functions of this kit include evaluating ADEUNIS RF products, measuring RF and developing a prototype-.Data can be transfered from one PC to another, this enables the user to quickly find out how well the Adeunis-RF products fit the intended application.Using a PC, the radio module can be configured with parameters that suit the intended application and easily measure sensitivity, output power and other RF parameters.It has chip/strip board areas as well as direct access to all the radio modules signals permitting easy addition of additional components for evaluation purposes.

515465

Mftrs. List No.	Description	Order Code	Price Each
ARF7439M	Bi-Directional 869MHz DemoKit	**161-7043**●	219.41

ARF18 Remote Control Module/Keyfob



The **ARF7292D** keyfob sends and receives commands to/from the RF module. The 4 buttons can be programmed dependent on the RF module application. For instance to activate/deactivate an alarm etc
The **ARF7294A** RF module is designed to be built into a control unit. It can send and receive commands from the keyfob.

Remote control Keyfob ARF7292D:

- Version: 2-way Remote Control
- No. of keys: 4
- Frequency: FM 869.5 MHz
- RF-power: 6mW
- Range: 300m

Receiver ARF7294A:

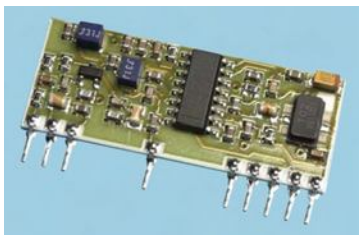
- Version: OEM, 2-ways, 4 binary outputs
- Frequency: FM 869.52 MHz
- Power supply: 3.3 V dc/15 mA

515472

Mftrs. List No.	Description	Order Code	Price Each
ARF7294A	RF Module	**161-7044**●	44.73
ARF7292D	4 Button Remote Control Key Fob	**161-7045**●	40.58

RL Re-reeling available

AM Super Heterodyne Receiver Module



New

This AM Superheterodyne Receiver can be used to capture undecoded data from any equivalent AM Transmitter.
The RRS3 is manufactured on a ceramic substrate and incorporates an LC Filter, pre amplifier front-end & PLL Synthesizer for high sensitivity and reduced EMC emissions.
It shows a very high frequency stability over a wide operating temperature even when subjected to mechanical vibrations or manual handling.

Features:
- Receiving Range Up To 100 Metres
- CMOS/TTL Compatible Output
- Compatible with R.F. Solutions AM Transmitters
- Compliant to ETS300-220
- Sleep Mode

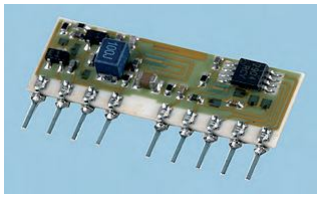
Supply Voltage (Vcc)	5V
Supply Current	5mA
Receiver Frequency 433MHz	433.92MHz
Low Level Output Voltage (I=10uA)	0.8V
High Level Output Voltage (I=200uA)	Vcc-1
Operating Temperature Range	-25 to 80°C
R.F Sensitivity (100% AM) @ 433MHz	-106dBm
3dB Bandwidth	±150KHz
Level of Emitted Spectrum	-70dBm

518223

			Price Each		
List No.	Description	Order Code	1+	5+	10+
AM-RRQ3-433	AM Super Het Receiver Module	162-3845●	10.01	9.32	8.76

433MHz AM Miniature SuperRegen Receiver Module

telecontrolli



This module shows very high frequency stability over a wide operating temperature even when subjected to mechanical vibrations or manual handling.

A unique patented laser trimming process gives a very accurate on-board inductor removing the need for any adjustable components.

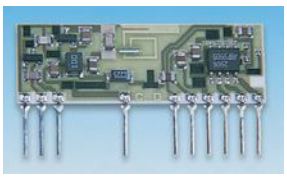
- 50% smaller than other RF modules (25.4mm x 9mm)
- Very high frequency stability (with no adjustable components)
- -100dBm typical sensitivity
- Up to 50 metres range
- CMOS/TTL compatible output
- Low current consumption
- Patented laser trimmed inductor
- Compliant to ETSI300-220

Supply Voltage (Vcc)	5V	Current Consumption	2.5mA typical
RF Sensitivity	-95 to -105dBm	Operating Temperature	-25°C to +85°C
Max Data Rate	2kHz	Dimensions (WxHxD)	25.4 x 8.9 x 2.5mm

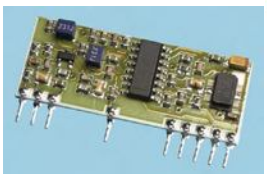
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Mftrs.			Price Each			
List No.	Order Code	1+	5+	10+	25+
AM-HRR30-433	790-1321	8.15	7.83	7.53	7.30

A.M. Receiver Modules



Regenerative



Heterodyne

These miniature hybrid RF receivers can be used to capture any undecoded data from any 433MHz AM Transmitter.

The modules contain no adjustable components for ultimate reliability. The manufacturing process employs laser trimmed components for increased sensitivity and reliability. Hence these modules show a very high frequency stability over a wide operating temperature even when subjected to mechanical vibrations or manual handling.

The super-heterodyne receiver manufactured on a ceramic substrate incorporates a SAW Filter front end for reduced EMC emissions, and uses an IF stage at 500kHz.

- Miniature hybrid R.F. receivers to capture data from 433MHz A.M. transmitters
- Low current consumption
- Laser trimmed inductor gives extremely high frequency sensitivity and stability
- Front end pre-amplifier reduces EMC emissions from the antenna
- CMOS/TTL compatible output
- Receiving range:- Super Regenerative 45m
  Super Heterodyne 75m
- Requires no radio license to operate
- ETSI300-220 Compliance (Super Heterodyne)

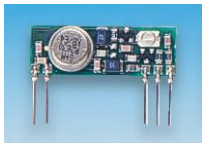
	Super Regenerative	Super Heterodyne
Supply voltage	5V dc	5V dc
Current consumption	2.5mA	3.7mA
Frequency	433MHz	433MHz
Operating temperature	-25°C to +85°C	-25°C to +85°C
Max data rate	2000bps	3000bps
RF Sensitivity	-105dBm (typically)	-107dBm

212912

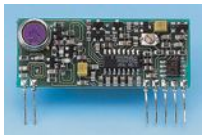
Operating Frequency	Order Code	Price Each 1+	5+	10+	25+
Regenerative					
433MHz	120-1008	9.00	8.76	8.24	7.75
Heterodyne					
433MHz	162-3845●	10.01	9.32	8.76	8.25

Transmitter and Receiver Modules

'Radiometrix'



Transmitter



Receiver

Pin spacing=2.54, PCB hole dia.=0.7

- Transmission distance up to 200 metres
- Analogue and digital input/outputs
- 418MHz or 433MHz SAW controlled-wide band FM transmission
- 10Kbps data bandwidth
- Small size, PCB mounting SIL package
- Range up to 200 metres(300 metres 433MHz)

The Radiometrix radio transmitter and receiver modules are self contained, PCB mounting and capable of transferring analogue and digital data up to a distance of 200 metres. The modules are suitable for general purpose telemetry and remote control applications where small size and high data rates are required. Typical applications include domestic and commercial security, lighting control, garage door openers, remote control and access control.

Transmitter		Receiver	
Supply voltage	6 to 9V dc	Supply voltage	4.5 to 9V dc
Current consumption	6mA @ 6V, 14 mA @ 12V	Current consumption	14mA typical
Abgestrahlte Leistung (ERP)	Vcc = 6V - 10dBm typical Vcc = 9V - 8dBm typical Vcc = 12V - 6dBm typical	Frequency Range	433MHz Up to 200 metres (300 metres 433 MHz)
Frequency	433MHz	Operating temperature	-10 to +55°C
Range	Up to 200m		
Operating temperature	-10 to +55°C		
License	**DTI approved to MPT 1340**		

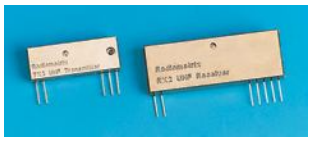
Note: 433MHz Frequency is now open to any telemetry application in the UK and Europe

212833

	Operating Frequency	Order Code	Price Each 1+	5+	10+	25+
Transmitter	433MHz	120-1009	15.70	14.53	14.13	13.21
Receiver	433MHz	120-1010	32.39	29.98	29.16	27.25

Transmitter and Receiver Modules

2nd Generation Radiometrix



Transmitter
L=32, W=12, D=4

Receiver
L=48, W=22, D=4

- Plug-in compatible with 676-597 and 676-603
- Usable range to 300 metres
- Data rates to 14Kbps
- Conforms to **ETS300-339**
- Fully screened
- Applications include:- OEM remote control systems, radio data communications, Alarm system and access control

Second generation Radiometrix transmitters and receivers. They are a direct plug-in replacement for the existing transmitter modules. The benefits include, higher data rate, improved EMC characteristics, and thinner mechanical package.

	Transmitter	Receiver
Supply voltage	5V dc	5V dc
Current consumption	10mA	13mA
Frequency/Power	433MHz @ 10mW	433MHz
Max. data rate	14Kbps	14Kbps
RF Sensitivity	-	-105dBm (typically)
Operating temperature	-25°C to +85°C	-25°C to +85°C

Note: 433MHz frequency is now open to any telemetry application in the UK and Europe

212989

	Operating Frequency	Order Code	Price Each 1+	5+	10+	25+
Transmitter	433MHz	120-1011	17.41	16.53	15.81	14.05
Receiver	433MHz	120-1012	35.96	35.24	34.09	31.33

RL Re-reeling available

Farnell

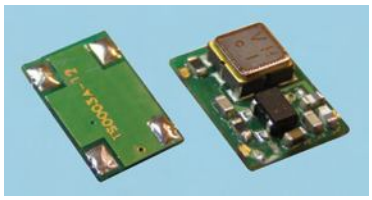
Communications - Radio / Remote Control - continued

Low Cost AM Radio Modules

QUASAR



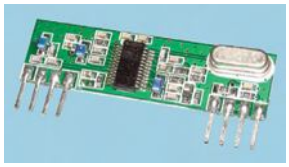
QAM-TX1



QAM-TX3



QAM-RX2



QAM-RX4

The Quasar UK range of AM Radio modules provides complete RF transmitter and receiver radio modules which can be used to communicated data at up to 3KHz between CMOS/TTL devices.
The modules are very simple to operate and offer low current consumption, allowing for extended battery life when used in mobile applications. Data can be supplied directly to or from a microprocessor or encoding device, thus keeping the component count down and ensuring a low hardware cost.

Transmitter Modules
- Through hole/SMT packages
- SMT miniature package 11 x 8 x 3mm
- Low power consumption
- Range up to 50m
- No adjustable components
- Very stable operating frequency
- Wide operating voltage (1.5 - 5V)

Receiver Modules
- CMOS/TTL output
- Low power consumption
- No adjustable components
- Very stable operating frequency

Applications
- Wireless security systems
- Remote gate controls
- Remote sensing
- Data capture
- Garage door controller

	130-4024	130-4025
Min. Supply Voltage	1.5V dc	–
Typ. Supply Voltage	3V dc	3V dc
Max. Supply Voltage	5V dc	12V dc
Min. Supply Current	2.9mA	–
Typ. Supply Current	11mA	–
Max. Supply Current	22mA	12mA
Frequency	433.92MHz	433.92MHz
Min. Data Rate	200Hz	–
Max. Data Rate	3000Hz	3000 Hz
Operating Temperature	-20 to 60°C	-20 to 85°C
	130-4026	130-4027
Typ. Supply Voltage	5V dc	5V dc
Typ. Supply Current	3.5mA	2.3mA
Sensitivity	105 dBm	105 dBm
Min. Data Rate	0.2 - 3 KHz	0.3 - 3 KHz
High Out	0.7V	0.7V
Low Out	0.3V	0.3V
Warm Up	25ms	25ms
Operating Temperature	-10 to 60°C	-10 to 60°C

450534

Mftrs. List No.	Order Code	Price Each 1+	5+	10+	25+
Transmitters					
QAM-TX1	**130-4024●**	2.91	2.75	2.70	2.61
QAM-TX3	**130-4025●**	2.91	2.75	2.70	2.61
Receivers					
QAM-RX2	**130-4026●**	3.44	3.25	3.22	3.13
QAM-RX4	**130-4027●**	4.77	4.50	4.43	4.29

AM Transmitters & Recievers for Embedded Radio Control

433.92MHz



A range of miniature pocket keyfob encoders, housed in tough ABS enclosures and supplied with battery ready to operate. The overlay sticker can be customised to users' graphics etc.
The transmiters use Keeloq algorithm which provides the highest level of security available. Each time the transmitter is operated it transmits a unique 67bit word which is never repeated even if the battery is changed.
The receiver decoders are available as either AM, AM Low Power or Dual-in-Line package with relay output.
The receivers use a ceramic technology receiver with an embedded 'flash' programmable microcontroller decoding a highly secure Keeloq protocol. This provides a complete remote telemetry system with up to 100 metres range.
The receivers have an easy-to-use 'Learn' facility are are capable of learning up to 50 unique keyfob transmitters.
The receiver operates from a 5V supply, and provides four digital data outputs (momentary or latching operation), a serial data output and the transmitter battery status.

- High security 'Keeloq' remote control
- Easy design-in modules
- Up to 100 metres AM range
- AM low power range up to 50m
- Flash programmable technology
- 1-4 channels
- Serial data output
- Provides simple bolt-on remote control
- EMC compliant-requires no radio license

Receiver Decoders
- Ceramic technology
- Easy Learn transmitter feature
- Low power version (I <0.5mA)
- Receiver learns up to 50 transmitters
- CMOS/TTL outputs, latch or momentary
- Serial Data output (Transmitter ID)
- Outputs transmitter battery status

Transmitter Keyfobs



- Miniature pocket keyfobs
- 1, 2 or 3 switch options
- Power saving auto shut-off feature
- User customisable housing

	Transmitter	HIRK Receiver	HIR6 Receiver	Relay Receiver
Supply voltage	12V GP23A battery	5V	5V	12V or 5V
Supply current	8mA (max)	8mA (max.)	1.6mA	8-50mA
Frequency	433.92MHz	433.92MHz	433.92MHz	433.92MHz
Sleep Mode (HIR6 Only)			1µA	
Radiated power	<10mW	N/A	N/A	N/A
Temperature	-25°C to +80°C	-25°C to +80°C	-25°C to +80°C	-25°C to +80°C
Dimensions	66x34x16mm	63.5x14.25x3.3mm	63.5x14.25x3.3mm	76x19x15mm
Sensitivity	N/A	-107dBm typical	-95dBm typical	-106dBm typical
3dB bandwidth	N/A	±400kHz	±400kHz	±400kHz
Outputs:	N/A	4	4	3
Digital	N/A	-	-	1
Relay	N/A	1	1	-
Serial	yes	yes	yes	-
Tx 'battery low'				

386540.345363

Mftrs. List No.		Order Code	Price Each
A.M. Receiver/Decoders			
HIRK-433A	AM Ceramic Receiver	**167-6035●**	15.25
HIR6-433A	AM Low Power Receiver	**167-6055●**	15.25
Keyfob Transmitters			
110C1-433A	1 Switch	**167-6041●**	10.10
110C2-433A	2 Switch	**167-6043●**	10.10
110C3-433A	3 Switch	**167-6044●**	10.10

AM-4-ER Series Transmitter and Receiver Modules



Developed by LPRS, "easy-Radio" embedded software protocols provide a "data-in, data-out" solution for wireless links. Rapid time to market is achieved as well as optimised range.

'ER' transmitters will accept most standard data at the input, convert it to an efficient 'over-air' format, transmit the data to a matching "easy-Radio" receiver, which converts the data and feeds it to the user's host processor.

The receiver is a high performance AM superhet design with front end SAW filter, which meets the current market demands for rugged devices, that can "live" in the real world where interference is often present. The receiver will automatically learn the transmitter code on initial transmission.

The 2 button keyfob AM transmitter provide an encoded signal. The receiver goes into learn mode on power up and learns the transmitter code. There are 2 output states on the receiver, one latched and one momentary.

- Typical range 50m line of sight
- No radio software protocols to write
- Works first time
- Fastest possible route to market
- Easy code learning
- 433.92MHz frequency
- SAW front end filter for better interference performance-continues to function in the presence of TETRA signals
- For use anywhere in the EU
- Virtually emission free for EU compliance
- Compliant with R&TTE directive for Europe

Applications:
- General purpose remote controls
- Security alarms systems

Transmitter		Receiver	
Frequency	433.92MHz	Sensitivity	-103dBm @433.92MHz
Supply Voltage	12V GP23A battery	Power Consumption	10mA typical
Current Consumption	12mA	Minimum Current	390uA, duty cycled
Data Rate	4,800bps12mA	Temperature Range	-10° to +50°C
Dimensions (WxHxD)	57.5x14x37.5 (keyfob)	Dimensions (WxHxD)	40x6.5x15.4mm

461045.263820

Description	Order Code	Price Each 1+	5+	10+
2 Button AM Keyfob Transmitter 433.92MHz	**133-8616●**	13.97	13.25	12.60
AMRX-4-ER AM Receiver 433.92MHz	**133-8617●**	15.73	14.92	14.19

A.M. Transmitter Hybrid



- Complete radio transmitter
- Transmit range up to 100m
- CMOS/TTL input
- No adjustable components
- Very stable operating frequency
- Wide operating voltage, 2-14V
- Applications include:- short range wireless datacomms, wireless security systems, vehicle alarms, remote gates, remote sensing, etc.

H=3 (exc Pins), W=10.2, D=18.5
PCB mounting 5.08x17.78, 0.8 dia.

Hybrid transmitter module which provides a complete RF transmitter that can be used to transmit data at up to 4kHz, from any standard CMOS/TTL source. Simple to integrate into any system. It may be connected directly from a microprocessor or encoding device, keeping component count down.

Supply voltage	2-14V dc	Operating temperature	-25°C to +80°C
Current consumption	4mA (V^{cc} 5V)	Maximum data rate	4kHz
Frequency	433MHz		

212992

Operating Frequency	Order Code	Price Each 1+	5+	10+	25+
433MHz	**120-1014**	6.01	5.56	5.41	5.05

AM Remote Control system

QUASAR



A versatile general purpose remote control, which can be used for controlling many different applications. The system utilises a highly secure Code Hopping protocol to ensure reliable operation.

- Complete Remote Control System
- 12 or 24Vdc Supply
- Up to 70m Range
- Easy learn Transmitter Feature
- Easy installation via screw terminals
- Relay Outputs 12Apk @ 230Vac
- Momentary or Latching Outputs
- System supplied ready to plug and play
- A Further 6 transmitters can be learnt

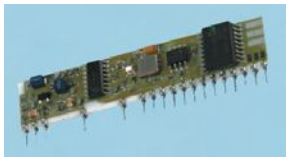
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Receiver voltage	12V or 24V ±10%	Receiver current	14/140mA (no/all relays)

419153

Remote Control Systems	Order Code	Price Each
1 Switch	**167-6024●**	33.83
2 Switch	**167-6025●**	34.85
3 Switch	**167-6026●**	35.88
Additional Transmitters		
1 Switch	**167-6041●**	10.10
2 Switch	**167-6043●**	10.10
3 Switch	**167-6044●**	10.10

F.M. Transmitters & Relay Receivers for Embedded Radio Control





A range of compnents for embedded remote control applications. These components provide a high performance yet easy design-in system requiring little knowledge of RF remote control for a multitude of different applications. All products are EMC compliant for license free use within europe. Using FM technology provides a longer system range with more penetration of obstacles.Available as either 1, 2 or 3 switches this FM range of miniature pocket keyfob encoders are housed in tough ABS enclosures and are supplied with battery ready to operate. The overlay sticker can be customised to users' graphics etc.
The transmitters use Keeloq algorithm wich provides the highest level of security available. Each time the transmitter is operated it transmits a unique 67bit word which is never repeated even if the battery is changed.
The receiver has an easy-to-use 'Learn' facility, and is capable of learning up to 50 unique keyfob encoders. Once learnt, the receiver outputs 4 digital data, one serial and the transmitters battery level stauts.

- High security Keeloq remote control
- FM Techology provides more reliable operation with improved range
- Easy design-in modules
- Up to 150 metres range
- 1-4 channels
- Serial data output
- Provides simple bolt-on remote control
- EMC compliant-requires no radio license

Transmitter Keyfobs

- Miniature pocket keyfobs
- 1, 2 or 3 switch options
- Power saving auto shut off feature
- User customisable housing
- EMC compliant

Receiver Decoders

- Ceramic superheterodyne receiver
- Easy Learn transmitter feature
- Receiver learns up to 50 transmitters
- Relay & CMOS/TTL outputs
- Latch or momentary outputs
- Serial data output (Transmitter ID)
- Outputs battery status
- Single 5V or 12V PSU

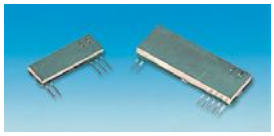
	Transmitter	Relay Receiver
Supply voltage	12V GP23A battery	5V
Supply current	8mA (max)	7mA
Frequency	433.92MHz	433.92MHz
Radiated power	<10mW	N/A
Temperature	0°C to +60°C	0°C to +60°C
Dimensions	66x34x16mm	76 x 19 x 15mm
Sensitivity	N/A	-107dBm typical
3dB bandwidth	N/A	±400kHz

386747.406456

Operating Frequency		Order Code	Price Each
A.M. Receiver/Decoders			
433.92MHz	FM Ceramic Receiver	**167-6056●**	20.15
Keyfob Transmitters			
433.92MHz	1 Switch	**167-6053●**	18.36

433MHz FM Radio Transmitter and Receiver

T5/R5



The QFMT5 and QFMR5 data link modules are miniature UHF radio modules which enable the implementation of a simple telemetry link up to 300 metres, and at data rates of up to 20Kbits/s.

The QFMT5 and QFMR5 modules will suit one-to-one and multi-node wireless links in applications including building and car security, remote industrial process monitoring and computer networking. Because of its small size and low power requirements, these modules are ideal for use in portable battery powered wireless applications.

- Miniature SIL package
- Fully shielded
- Data rates up to 15Kbits/s
- Range up to 400 metres
- Single supply voltage
- Industry pin compatible

QFMT5-434

- Temp range -20°C-+80°C
- No adjustable components
- Good shock resistance

QFMR5-434

- High sensitivity
- Analogue, digital outputs
- Signal strength output (RSSI)
- Single conversion FM super-het

These modules are compatible with:

120-1009	120-1010	120-1011	120-1012
FM-X1-433	FM-X1-433A	FM-TX2-433	FM-RX2-433A-5V

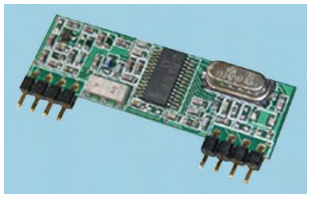
	Transmitter	Receiver
Supply voltage	5V	5V
Current consumption	12mA (max)	5mA
Frequency/Power	433.92MHz	433.92MHz
Radiated power	10mW	N/A
Temperature	-25°C - +80°C	-25°C - +80°C
Dimensions	31 x 10 x 4mm	48 x 17 x 4.6mm
Sensitivity	N/A	typ -107dBm
Max. Data Rate	20Kbps	20Kbps

227667

Mftrs. List No.	Order Code	Price Each 1+	+
T5-434-5V	**167-6030●**	14.23	– –
R5-434-5-20	**167-6031●**	28.51	– –

Low Cost FM Receiver Module

QUASAR



The QFM-RX1 Super Heterodyne receiver module provides a complete radio receiver which can be used to receive undecoded data from the range of QuasarUK FM transmitter modules.
The receiver incorporates an entire Phase-Locked Loop (PLL) ensuring precise local oscillator generation. The module is very simple to operate and offers low power consumption allowing for extended battery life without the need to power down the module.

Data can be fed directly into a microprocessor or decoding device, thus keeping the component count down and ensuring a low hardware cost.
All receivers are compatible, producing a CMOS/TTL output, and only require connections to power and antenna.

Features

- FSK Radio Receiver
- CMOS / TTL Output
- Stable Operating Frequency
- 5Vdc Operating Voltage
- Low Power Consumption
- Wide Operating temperature

Applications

- Car Security Systems
- Automation Systems
- Remote Gate Controls
- Remote Sensing
- Data Capture
- Sensor Reporting

Characteristic	Typ.	Characteristic	Typ.
Supply Voltage	5Vdc	RF Sensitivity	-106dBm
Suupply Current	10mA	Working Frequency	433.92MHz

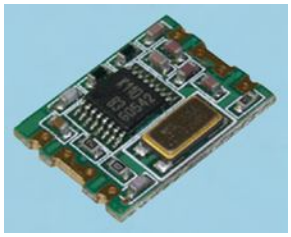
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Order Code	Price Each 1+	5+
151-7427●	6.27	5.55

Communications - Radio / Remote Control - continued

Low Cost FM Transmitter Module (SMT)

QUASAR



A Miniature FM transmitter module providing a complete RF transmitter which can be used to transmit data at up to 4.8Kbps from any standard CMOS/TTL source.
The module is very simple to operate and offers low current consumption (typ. 15mA). Data can be supplied directly from a microprocessor or encoding device, thus keeping the component count down and ensuring a low hardware cost.The modules are compatible with the Quasar UK Ltd. range of FM receivers to provide a complete wireless solution.

Features
- Complete RF Transmitter
- Transmit Range Up To 200m*
- CMOS / TTL Input
- No Adjustable Components
- Very Stable Operating Frequency
- Low Current Consumption (Typ 15mA)
- LV TTL Operating Voltage (2.2-3.5v)
- FSK Modulation
- Efficient Power Amplifier

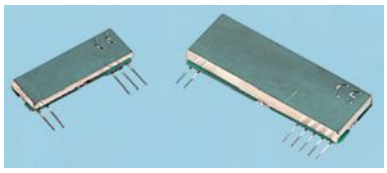
Applications
- Wireless Security Systems
- Car Alarms
- Remote Controls
- Remote Sensing
- Data Capture
- Automation systems

Characteristic	Typ.	Characteristic	Typ.
Supply Voltage	3Vdc	Output Power	10dBm
Suupply Current (Vcc=3V IN=1kHz)	15mA	Turn on Time (from Standby)	1ms
Standby Current	05µA	Max Data Rate	4800Hz
Working Frequency	433.92MHz		

492556

Order Code	Price Each 1+	5+
151-7426●	4.76	4.18

Long Range F.M. Narrow Band Transmitters/Receivers



- Miniature SIL package
- FM Narrow Band (12.5kHz)
- 1,000 metres optimum range
- Crystal controlled
- Data rates up to 20Kbps

Transmitter T7G
- Digital inputs
- Narrow Band crystal stabilised

Receiver R7G
- Small form factor
- Data & AF out
- CD implemented on data output
- RSSI output
- Selective ceramic IF filters

Applications
- Telemetry systems
- Wireless networking
- Domestic and commercial wireless security systems
- Panic attack facility
- Remote control for cranes etc

The T7G and R7G are miniature narrow band transmitter and receiver UHF radio modules, which enable the implementation of a simple telemetry link at data rates up to 20Kbps.
The transmitter is based on the classical phase locked loop using a crystal oscillator. This results in an accurately controlled RF output in the frequency domain. A significant advantage of this is that narrow filtering can then be used in the receiver, which results in high interference immunity. In addition, the module is fitted with a voltage regulator which gives better supply filtering and a constant RF output level. The receiver is based on the single conversion super-het principle using phased lock loop technology. Because of their small size and low power requirements, the modules are ideal for use in battery powered wireless applications.

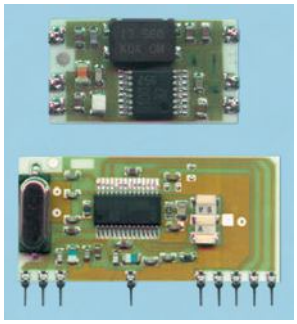
	Transmitter	Receiver
Supply Voltage	5V	5V
Supply Current	25mA typical	1.1mA typical
Temperature	-25° to 70°C	-25° to 70°C
Dimensions	31x10x3.5mm	49x17x4.65mm
Sensitivity	N/A	-117dBm typical
Max Data Rate	20Kbps	20Kbps

336513.345819

Operating Frequency	Order Code	Price Each 1+	5+	10+
Transmitter				
434.075MHz	**120-0992**	21.23	20.44	19.71
434.225MHz	**120-0994**	21.23	20.44	19.71
434.525MHz	**120-0996**	21.23	20.44	19.71
Receiver				
434.075MHz	**120-0993**	35.37	34.11	32.93
434.225MHz	**120-0995**	35.37	34.11	32.93
434.525MHz	**120-0997**	35.37	34.11	32.93

FM Telecontrolli Hybrid Tx/Rx Modules

433MHz or 868MHz



These miniature RF modules provide a cost effective high performance FM Radio data link, at either 433MHz or 868MHz. Manufactured using laser trimmed Thick Film Ceramic Hybrid, the modules exhibit extremely stable electronic characteristics over an Industrial Temperature range. The hybrid technology uses no adjustable components and ensures very reliable operation.
This transmitter and receiver pair enables the simple implementation of a data link at distances up to 75 metres in-building and 250 metres open ground.
These modules will suit one-to-one and multi-node wireless links in applications including car and building security, EPOS and inventory tracking, remote industrial process monitoring and computer networking. Because of their small size and low power requirements, these modules are ideal for use in portable, battery-powered applications such as hand-held terminals.

- FM Radio transmitters & receivers
- Available as 433MHz or 868MHz
- Transmit range up to 250m
- Miniature packages
- Data rate up to 9.6Kbps
- No adjustable components
- Very stable operating frequency
- Operates from -20° to +85°C

Transmitter
- 3-12V supply voltage
- SIL or DIL package

Receiver
- PLL XTAL design
- CMOS/TTL output
- RSSI output
- Standy mode (max 100nA)
- 5V supply voltage

Applications
- Wireless security systems
- Car alarms
- Remote gate controls
- Remote sensing
- Data capture
- Sensor reporting

Transmitters
There are two versions of transmitter:
RTFQ1: A Dual-in-Line package operating at 3.3V. This provides the most rugged mechanical fixing to the host PCB. Power Down mode is also available.
RTFQ2: A Single-in-Line package incorporating a voltage regulator for 3-12V operation. (Compatible with many other RF transmitter modules)

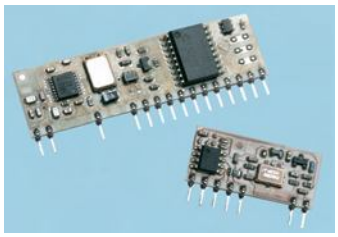
Receivers
There are two versions of receiver:
RRFQ1: A Single-in-Line package with sleep/Power Down mode.
RRFQ2: A Single-in-Line package, pin compatible with many other receivers.

	Transmitter	Receiver
Supply Voltage:		
RTFQ1	2.1-4V	5V
RTFQ2	2.5-12V	5V
Supply Current (typical)	7mA	5.5mA
Supply Current (standby)		<100nA
Frequency	433.92MHz or 868.35MHz	433.92MHz or 868.35MHz
Temperature	-25° to 80°C	-25° to 80°C
Dimensions	23x11.5x4mm	38x15x4mm
Sensitivity	N/A	-102 dBm typ
Max Data Rate	9.6KHz	9.6KHz

336507

Mftrs. List No.	Order Code	Price Each 1+	5+	10+
Transmitter				
FM-RTFQ1-433	**120-0970**	9.40	9.11	8.84
FM-RTFQ1-868	**120-1000**	7.30	7.07	6.86
FM-RTFQ2-433R	**120-0990**	7.30	7.07	6.86
Receiver				
FM-RRFQ1-433	**120-0971**	15.16	14.70	14.27
FM-RRFQ1-868	**120-1003**	11.77	11.42	11.08
FM-RRFQ2-433	**120-0991**	11.77	11.42	11.08

Smart Radio Transmitter and Receiver



The RF620 Smart Radio modules provide low cost reliable wireless data communications.
They contain an integrated microprocessor which performs the necessary encryption to optimise the data for transmission by radio. This ensures the maximum range and reliability.
If a secure point to point link is required then the RF620R receiver can be matched to the RF620T transmitter by a simple learn procedure. This also allows several separate point to point links to communicate consecutively in the same area.

- Easy to use Radio AM Transmitter & Receiver
- AM or FM Radio Hybrid Technology
- Supports Data and Telemetry communications
- Simple CMOS/TTL Data Interface
- Automatic data encryption/decryption
- Host Interface upto 19200 Baud
- Optional host Flow Control
- On Board Buffer
- Transmit Range Up To 250m
- 4 Telemetry Lines
- Operates from -20 to +85°C
- Applications: Wireless Security Systems, EPOS Terminal and meter Reading, Wireless RS232, Sensor Data Logging, Remote Telemetry & Telecommand etc.

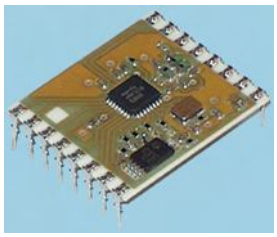
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RL Re-reeling available

Farnell

Mftrs. List No.	Description	Order Code	Price Each 1+	5+	10+
RF620TA	Transmitter	**109-6135**	8.45	8.18	7.86
RF620RA	Receiver	**109-6136**	18.51	17.68	16.95

Smart Radio Narrow Band Transceiver RF650



The RF650 radio transceiver module provides a reliable wireless communication for the transfer of data. With RF data rates of up to 100kbps, their unique features of narrow band operation and user channel selection combined with excellent interference rejection make them an ideal choice for next generation applications. The transceivers have the functions of a complete radio modem and simply require CMOS/TTL data at the transmit input and the corresponding transceiver(s) output the same data. Operating in the 433MHz band the modules operate in user selectable channels. The RF650 can use any channel in 100kHz steps.

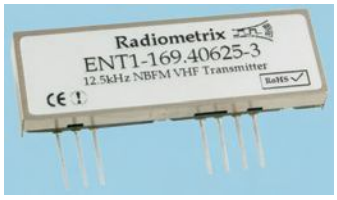
- Intelligent Modem RF Transceiver
- RF Data Rates to 100 kbps
- Up to 250M range
- Selectable Narrowband RF Channels
- Crystal Controlled RF Design
- Supply Voltage 3.3V
- Serial Data Interface with Handshake
- Host Data Rates up to 38,400 Baud
- Very Stable Operating Frequency
- Low Profile Ceramic DIL Package
- Operates from -20 to +70°C
- Operating Modes: Point to Point, broadcast, One to Many Network and Many to One Network
- Applications: Wireless Security Systems, EPOS Terminals, Sensor Data logging, Remote Telemetry & Telecommand, Remote Meter Reading
- Available in 433MHz or 868MHz versions

419175

Mftrs. List No.	Order Code	Price Each 1+	5+	10+
RF650-433	**109-6134●**	35.36	29.70	25.46
RF650-868	**133-9864●**	35.06	33.81	32.98
Evaluation Board				
660EVAL	**133-9865●**	50.14	48.90	47.34

ENT1 Transmitter

RADIOMETRIX



The ENT1 is a 12.5kHz narrow band FM single frequency VHF transmitter and offers a 100mW RF output in Radiometrix SIL standard pin-out and footprint. This makes the ENT1 ideally suited for 169.4 - 169.8125MHz band Automatic Meter Reading (AMR), Tracking and Social Alarm applications.

Transmit Power	+20dBm (100mW)
Standard Frequency	169.406250MHz
Custom Frequency	On any 12.5KHz channel from 169.4 to 169.8125MHz
Data Rate	3 kbps
Supply Voltage	5V @ 70mA
Operating Range	>1 Km
Dimensions	43x14.5x5mm

465660

Mftrs. List No.	Order Code	Price Each 1+	5+
ENT1-169.40625-3	**134-8828●**	29.93	27.45

TX1/RX1 Transmitters and Receivers

RADIOMETRIX





The TX1 and RX1 are 25kHz Narrow Band FM single frequency VHF transmitter and receiver in SIL standard pin-out and footprint.

- Standard frequencies: 151.300MHz, 173.225MHz, 173.250MHz
- Custom frequencies from 120MHz to 180MHz available to special order
- Data rate up to 10kbps
- Operating range: >500m

TX1

- +10dBm (10mW) RF output
- Supply: 2.2 to 12V @ 9.5mA

Transmitter	Matching Receiver
TX1-173.250-10	RX1-173.250-10
	NRX1-173.250-10
	CVR1-173.250-10

RX1

- -112dBm sensitivity @ 1ppm BER (10kbps)
- Supply: 2.7V to 12V @ 12mA
- Receive spurii and adjacent better than 55dB
- RSSI output with >80dB range

Transmitter	Matching Receiver
TX1-173.250-10	TX1-173.250-10

465665

Mftrs. List No.	Order Code	Price Each 1+	5+
TX1-173.250-10	**134-8820●**	16.89	15.31
RX1-173.250-10	**134-8835**	35.71	33.78

NTX2/NRX2 Transmitters and Receivers

RADIOMETRIX





NTX2 transmitter and NRX2 receiver are 25kHz Narrow Band FM UHF modules ideally suited to those low power applications where existing single frequency wideband UHF modules provide insufficient range.

- Standard frequencies: 434.075MHz, 434.650MHz and 458.700MHz
- Custom frequencies available in 433MHz (EU) and 458MHz (UK) bands
- SAW front end receive filter
- Data rates up to 10kbps
- Operating range: >500m

NRX2

- Dimensions: 47 x 17 x 8mm
- Sensitivity: -118dBm (for 12dB SINAD)
- Supply : 2.9 - 15V @ 14mA
- Adjacent Channel: -70dBm
- Blocking: -84dBm

Receiver	Matching Transmitter
NRX2-434.650-10	NTX2-434.650-10

NTX2

- Dimensions: 43 x 15 x 8mm
- Transmit power: +10dBm (10mW)
- Supply 2.9 - 15V @ 18mA

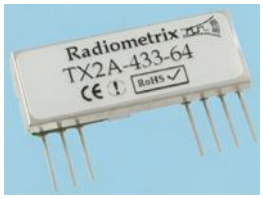
Receiver	Transmitter
NTX2-434.650-10	NRX2-434.650-10

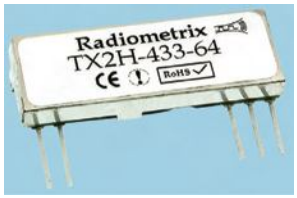
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Mftrs. List No.	Order Code	Price Each 1+	5+
NTX2-434.650-10	**134-8829●**	17.10	15.84
NRX2-434.650-10	**134-8837**	27.80	25.34

TX2/RX2A Transmitters and Receivers

RADIOMETRIX





The TX2A and RX2A are Wide Band FM UHF radio transmitter and receiver pair. Unlike SAW resonator based designs, these crystal controlled PLL based radios offer improved frequency stability over a wider operating temperature range. These units enable the simple implementation of a data link at up to 64 kbps at distances up to 75m in-building and 300m open ground.

- Standard frequencies: 315MHz, 433.92MHz and 434.42MHz
- SAW front end receive filter
- Data rates: upto 10kbps or upto 64kbps
- Operating range: >300m
- Operating temp: -40 to 85°C

TX2A

- Dimensions: 32 x 12.5 x 3.8mm
- Transmit power: +10dBm (10mW)
- Supply 3 - 16V @ 11mA

Transmitter	Receiver
TX2A-433-64	RX2A-433-64
	RX2A-433-10
TX2A-434-64	RX2A-434-64

TX2H

- Dimensions: 32 x 12.5 x 5.5 mm
- Transmit power +14dBm (25mW)
- Supply: 5V @ 23mA
- 25mW version conforms to AS/NZS 4268:2003

Transmitter	Receiver
TX2H-433-64	RX2A-433-64
	RX2A-433-10

RX2A

- Dimensions: 48 x 18 x 4.5 mm
- -104dBm sensitivity @ 1ppm BER (10kbps version)
- -101dBm sensitivity @ 1ppm BER (64kbps version)
- Supply: 2.7 - 16V @ 12mA
- Extremely low LO leakage (-120dBm typical)
- 60dB RSSI range

Receiver	Matching Transmitter
RX2A-433-64	TX2A-433-64
	TX2H-433-64
RX2A-433-10	TX2A-433-64
	TX2H-433-64
RX2A-434-64	TX2A-434-64

465753

Mftrs. List No.	Order Code	Price Each 1+	5+
Transmitters			
TX2A-433-64	**134-8821●**	10.05	8.55
TX2A-434-64	**134-8822●**	10.05	8.55
TX2H-433-64	**134-8823●**	11.49	10.03
Receivers			
RX2A-433-64	**133-8543●**	24.71	22.83
RX2A-433-10	**134-8839**	21.38	20.06
RX2A-434.10	**134-8842**	21.38	20.06

RL Re-reeling available

Farnell

Communications - Radio / Remote Control - continued

TX3B/RX3A Transmitters and Receivers

RADIOMETRIX





The TX3B and RX3A are Wide Band FM UHF radio transmitter and receiver pair. They allow the simple implementation of data links at speeds up to 64kbps and distances up to 75m in-building or 300m over open ground.

- Available on 868-870MHz European SRD/ISM band
- SAW front end receive filter
- Data rate: upto 10kbps or upto 64 kbps
- Operating range: >300m

TX3B

- Dimensions: 32 x 12.5 x 3.8mm
- 869.85MHz +7dBm (5mW) 100% duty cycle
- 868.30MHz +9dBm (8mW) 1% duty cycle
- Supply: 2.7V - 16V @ 14mA (8mW)

Transmitter	Receiver
TX3B-868.30-64	RX3A-868.30-10
TX3B-869.85-64	RX3A-869.85-64

RX3A

- Dimensions: 48 x 18 x 4.5 mm
- -104dBm sensitivity @ 1ppm BER (10kbps version)
- -101dBm sensitivity @ 1ppm BER (64kbps version)
- Supply: 2.7 - 16V @ 11mA
- Extremely low LO leakage (-120dBm typical)

Receiver	Transmitter
RX3A-868.30-10	TX3B-868.30-64
RX3A-869.50-10	TX3H-869.50-10
RX3A-869.85-64	TX3B-869.85-64

465767

Mftrs. List No.	Order Code	Price Each 1+	5+
Transmitters			
TX3B-868.30-64	**134-8824**	14.43	12.67
TX3B-869.85-64	**134-8825**	14.43	12.67
Receivers			
RX3A-868.30-10	**134-8843**	23.53	21.11
RX3A-869.50-10	**134-8845**	23.53	21.11
RX3A-869.85-64	**134-8844**	23.53	21.11

TX3H Transmitter

RADIOMETRIX



The TX3H-869.50-10 is a Wide Band FM transmitter module with a power output of 500mW. It can be used for long range telemetry and telecommand applications in EU countries.

Transmitter	Receiver
TX3H-869.50-10	RX3A-869.50-10

- Dimensions: 45 x 17 x 5.5mm
- Transmit power: +27dBm (500mW)
- Operating frequency: 869.50MHz
- Supply: 5V (regulated)
- Current consumption: 310mA (typical)
- Data bit rate: 10kbps max.
- Operating range: >3km
- Enable to full RF power output: 55ms max.
- Duty cycle restriction: <10%

465809

Mftrs. List No.	Order Code	Price Each 1+	5+
TX3H-869.50-10	**134-8827**	23.53	21.11

LMT2/LMR2 Transmitters and Recievers

RADIOMETRIX





LMT2 transmitter and LMR2 receiver are Low-cost Multi-channel 25kHz Narrow Band FM UHF radio modules. A software variant (-CX) is available which functions as a simple, single channel remote control actuator

- Standard frequencies: 32 channels. 433.875 - 434.650MHz
- Custom frequencies in 433MHz (EU) and 458MHz (UK) bands
- SAW front end receive filter
- Data rates up to 5kbps
- Operating range: >500m
- Serial (32 channels) or parallel (16 channels) frequency selection
- User re-configurable via an RS232 interface

LMT2

- Dimensions: 33 x 23 x 9mm
- Transmit power: +10dBm (10mW)
- Supply 3.1 - 15V @ 34mA

Transmitter	Matching Receiver
LMT2-173-5	LMR2-173-5

LMR2

- Dimensions: 46 x 23 x 9mm
- Sensitivity: -120dBm (for 12dB SINAD)
- Supply: 3.1 - 15V @ 20mA
- Quasi-DC coupled data recovery circuit
- Adjacent Channel: -60dBm
- Blocking: -84dBm

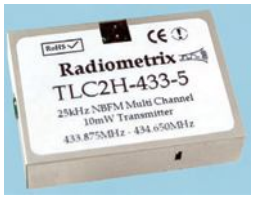
Receiver	Matching Transmitter
LMR2-173-5	LMT2-173-5

465858

Mftrs. List No.	Order Code	Price Each 1+	5+
LMT2-433-5	**134-8834**	38.48	35.89
LMR2-433-5	**134-8848**	46.61	44.34

TLC2H/RLC2H Transmitters and Receivers

RADIOMETRIX





TLC2H transmitter and RLC2H receivers are Low-cost Multi-channel 25kHz Narrow Band FM UHF radio modules in an industry-standard pin out and footprint.

- Standard frequencies: 32 channels. 433.875 - 434.650MHz
- Custom frequencies in 433MHz (EU) and 458MHz (UK) bands
- 315MHz version also available
- SAW front end receive filter
- Data rates up to 5kbps
- Operating range: >500m
- Serial (32 channels) or parallel (16 channels) frequency selection
- User re-configurable via an RS232 interface

TLC2H

- Dimensions: 37 x 27 x 8mm
- Transmit power: +10dBm (10mW)
- Supply: 3.1-15V @34mA

Transmitter	Matching Receiver
TLC2H-433-5	RLC2H-433-5

RLC2H

- Dimensions: 50 x 30 x 10mm
- Sensitivity: -120dBm (for 12dB SINAD)
- Supply range: 3.7 - 15V @ 18mA
- Quasi-DC coupled data recovery circuit
- Adjacent Channel: -60dBm
- Blocking: -84dBm

Receiver	Matching Transmitter
RLC2H-433-5	TLC2H-433-5

466721

Mftrs. List No.	Order Code	Price Each 1+	5+
TLC2H-433-5	**134-8833**	59.85	57.01
RLC2H-433-5	**134-8850**	74.83	70.73

TXL2/RXL2 Transmitters & Receivers

RADIOMETRIX





The TXL2 and RXL2 modules are 9600baud half-duplex Multi-channel Wide Band FM radio modems in a SIL footprint. The TXL2/RXL2 pair act as a transparent one-way serial cable to attached host. Unlike raw FM radio modules, TXL2/RXL2 will take care of preamble, synchronisation, bit balancing and error checking along with automatic noise squelching when there is no transmission.

- Selectable operating frequencies: 433.285, 433.605, 433.925 (default), 434.245 or 434.565MHz.
- SAW front end receive filter
- Data rate: 9600 baud asynchronous (5V CMOS level inverted RS232)
- 1 of 8 programmable addresses
- Operating range: >300m
- < 14ms end-to-end link latency

TXL2

- Dimensions: 42 x 18 x 7mm
- Transmit power: +10dBm (10mW)
- Supply: 5V @ 28mA (transmit)

Transmitter	Receiver
TXL2-433-9	RXL2-433-9

Receiver	Transmitter
RXL2-433-9	TXL2-433-9

RXL2

- Dimensions: 33 x 23 x 7mm
- -107dBm sensitivity @ 1% BER
- Supply: 5V @ 22mA (receive/idle)
- Receive spurii better than -50dB
- Adjacent channel -65dB (@ 320kHz)
- Blocking: 80dB

RL Re-reeling available

465811

Mftrs. List No.	Order Code	Price Each 1+	5+
Transmitters			
TXL2-433-9	134-8830●	23.53	21.11
Receivers			
RXL2-433-9	134-8853●	34.21	31.67

BiM1 Transceiver

RADIOMETRIX



BiM1 is a 25kHz Narrow Band VHF transceiver module in the Radiometrix transceiver pin-out and footprint. This makes the BiM1 ideally suited for those applications where existing UHF transceiver modules provide insufficient range.

- Dimensions: 33 x 23 x 10mm
- Standard frequencies 151.300MHz, 173.225MHz, 173.250MHz
- Other frequencies from 120MHz to 180MHz
- Data rates up to 10kbps
- Usable range over 1km
- Also available as separate BiM1T transmitter and BiM1R receiver
- Transmit power: +20dBm (100mW) 151.300MHz
  +10dBm (10mW) 173.250MHz
- Supply: 3.8 - 15V @ 80mA (100mW transmit)
  25mA (10mW transmit)
  8mA (receive)
- Sensitivity: -120dBm (for 12dB SINAD)
- Operating range: >500m (10mW) or >1km (100mW)
- Adjacent Channel: -70dBm
- Blocking: -84dBm
- Also available as separate BiM1T transmitter and BiM1R receiver
- Verified to comply with Australian, New Zealand standard AS/NZS 4268:2003

465812

Mftrs. List No.	Order Code	Price Each 1+	5+
BIM1-173.250-10	134-8854●	55.58	52.79

NiM2 Transceiver

RADIOMETRIX



NiM2 is a 25kHz Narrow Band FM UHF transceiver. This makes the NiM2 ideally suited for those markets where existing UHF wideband transceivers provide insufficient range.

- Dimensions: 33 x 23 x 10mm
- Standard frequencies: 434.075MHz, 434.650MHz
- Other frequencies from 433.05MHz to 434.775MHz
- SAW front end receive filter
- Data rates up to 10kbps
- Operating range: >500m
- Also available as separate NiM2T transmitter and NiM2R receiver.
- Transmit power: +10dBm (10mW)
- Supply : 2.9 - 15V @ 20mA (transmit) 15mA (receive)
- Sensitivity: -118dBm (for 12dB SINAD)
- Adjacent Channel: -70dBm
- Blocking: -80dBm

465816

Mftrs. List No.	Order Code	Price Each 1+	5+
NIM2-434.650-10	134-8860●	41.05	38.01

BiM2A Transceiver

RADIOMETRIX







BiM2A is a half-duplex crystal controlled PLL based Wide Band FM transceiver. Unlike SAW resonator based designs, these transceivers offer improved frequency stability over a wider operating temperature range.

- Dimensions: 33 x 23 x 5mm
- Operating Frequencies: 433.92MHz or 434.42MHz
- RF output: +10dBm (10mW) BiM2A
  +14dBm (25mW) BiM2H
  +20dbm (100mW) BiM2EH
- Received Signal Strength Indicator (standard)
  Carrier Detect (optional)
- Receiver Sensitivity: -101dBm for 1ppm BER (64kbps),
  - 104dBm for 1ppm BER (10kbps)
- Supply: 2.9V - 16V @ 13mA (transmit)
  11mA (receive)
- Data rates: 10kbps or 64kbps
- Operating range: >300m
- SAW front end filter and full screening

465817

Mftrs. List No.	Order Code	Price Each 1+	5+
BIM2A-433-64	134-8855●	30.47	28.50
BIM2A-434-64	134-8856●	30.47	28.50
BIM2H-433-64	134-8857●	32.86	30.62

BiM3B Transceiver

RADIOMETRIX





The BiM3B is a half-duplex crystal controlled PLL based Wide Band FM transceiver. Unlike SAW resonator based designs, these transceivers offer improved frequency stability over a wider operating temperature range.

- Dimensions: 33 x 23 x 5mm
- 869.85MHz +7dBm (5mW) 100% duty cycle
  868.30MHz +14dBm (25mW) 1% duty cycle
- Receiver Sensitivity: -101dBm for 1ppm BER (64kbps),
- Supply: 2.7V - 16V @ 35mA transmit (25mW)
  17mA transmit (5mW)
  11mA receive
- Data rates: upto 10kbps or upto 64kbps
- Operating range: >300m
- SAW front end filter and full screening

465821

Mftrs. List No.	Order Code	Price Each 1+	5+
BIM3B-868.30-64	134-8858●	30.47	28.50
BIM3B-869.85-64	134-8859●	30.47	28.50

SMX2 Transceiver

RADIOMETRIX



SMX2 is a 25kHz Narrow Band FM small Multi-channel UHF transceiver.

- Dimensions: 53 x 32 x 12mm
- Operating frequency: 433.05-434.79MHz
- Custom variants from 431 - 437MHz
- Multi channel, synthesized, narrowband (25KHz) transceiver
- SAW front end receive filter
- Data rates up to 5kbps
- 1200 baud half-duplex two-way modem mode
- Operating range: >500m
- Serial (128 channels) or parallel (8 channels) frequency selection
- User re-configurable via an RS232 interface
- Transmit power: +10dBm (10mW) nominal. (factory adjustable 2 - 25mW)
- Supply: 4.1 - 15V @ 35mA (transmit)
  25mA (receive)
- Sensitivity: -120dBm (for 12dB SINAD)
- Adjacent Channel: -60dBm
- Blocking: -85dBm
- User re-configurable via an RS232 interface

466746

Mftrs. List No.	Order Code	Price Each 1+	5+
SMX2-433-5	134-8862●	74.83	71.79

RadioWire® Development System

MICREL®



The RadioWire Development system is a multi function development kit that gives the user first hand experience of the RF performance as well as in depth development assistance. Its many features allow the user do basic RF parameter testing as well as being a system development platform.
The four different DIP settings allow the user to do a "quick set-up" without using a PC to evaluate the RadioWire product line. The supplied RF Test Bench PC program allows the user to add a personal touch and to perform a system application specific evaluation such at modifying data rate, power management operating frequency and more.
Features:

RL Re-reeling available

Farnell

Communications - Radio / Remote Control - continued

RadioWire® Development System - continued

- RadioWire performance evaluation
- Firmware development platform (includes ICD2 interface)
- Available with operating default frequency of 433.92 or 915MHz

Kit Contents:

- 2 boards with antenna
- RS232 cable
- Battery
- CD containing source code & reference designs

423195

Mftrs. List No.	Order Code	Price Each
RadioWire® Development System - operating frequency = 433MHz		
MICRF405DEV1-433	**129-2987●**	220.78
RadioWire® Development System - operating frequency = 410MHz-450MHz		
MICRF506DEV1	**129-2986●**	235.79
MICRF620DEV1	**129-2990●**	204.25

F.M. Radio Remote Control

1 or 4 Channel 230V ac or 12V dc



Transmitter: L: 100, W: 65, D: 24
Receiver: L: 190, W: 120, D: 60

- Highly secure KEELOQ protocol
- Range up to 200 metres
- Requires no radio licence

Encoder

- Enclosure **IP40** rated
- Automatically transmits battery low condition

Decoder

- Enclosure **IP65** rated
- Easy installation via screw terminals
- 230V ac or 12-30V dc supply
- LED indication of each relay output
- Momentary or latching outputs
- 1 timed output adjustable 0 to 255 secs.
- Relay contacts 5A @ 230V ac
- Requires no radio licence

This F.M. remote control system is supplied ready to operate. The system uses the KEELOQ encryption algorithm providing the world's most advanced high security protocol and comprises of a hand-held encoder with receiver decoder unit.

The receiver decoder is supplied in an **IP65** rated enclosure and may be powered from either 230V ac or 12-30V dc. Operation of the transmitter key switch causes the relay in the receiver/decoder to operate. The relay may be set to latching or momentary operation by an on-board jumper link on the PCB. A further output channel indicates that the transmitter keyfob battery is low and should be replaced.

All connections to the system are via screw terminals.

Up to 50 transmitter encoders may be programmed to the decoder using the easy learn facility. Full instructions are supplied.

Optimum Range	Modulation	No. of Channels	Receiver Supply	Mftrs. List No.	Order Code
200m	F.M.	1	12 / 30V dc or 230V ac	102105C1-433F	431-7671

Transmitter

Supply voltage	9V dc (PP3 battery) supplied
Current consumption	1mA quiescent 20mA when transmitting
Output power	10mW (max.)
Frequency	433.92MHz
Range	Up to 200m
Operating temp.	0 to 60°C
EMC Compliance	**ETSI300-220**

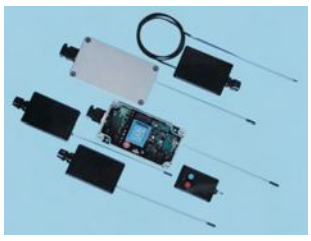
Receiver/Decoder

Supply voltage	230V ac or 12-30V dc
Current consumption	8mA quiescent
Frequency	433.92MHz
Operating temp.	0 to 60°C
Relay connections	NO, NC, COMM
Relay rating	12A peak, 5A continuous @ 230V ac

248382

Remote Control System	Order Code	Price Each 1+	5+	10+	25+
1 Channel	**431-7671**	141.80	136.33	131.29	125.35
Additional Transmitter/Encoder					
1 Channel	**431-7816**	38.60	35.27	33.25	– –

Radio Remote Control Switching Devices



This product offers incredible ease of installation and use, combined with advanced, intelligent features that make it a truly unique product. There are four variants in the range, from mains powered, weatherproof systems to miniature, low voltage, internal systems. Each system is controlled using a two button key fob transmitter that contains replaceable batteries. Typical applications include short range remote control, garage door openers and general purpose lighting.

- Any number of extra key fobs can be programmed to operate the unit.
- Output relay offers voltage-free, changeover contacts rated at 8A at 240V ac
- Screw terminals and cable glands for rapid connection
- 50-100m range dependant on terrain
- Licence exempt
- Two-channel transmitter fob supplied with every receiver, extra fobs available

RCU01 System

- Supply voltage range from 10-24V ac or dc
- Wall mounted bracket
- Smart, rigid antenna fixed to enclosure
- Dimensions (WxHxD): 75x27x50mm

RCU02 System

- Same as RCU01 but with a flexible antenna on 1 metre of cable

RCU03 System

- Supply voltage range from 10-24V ac or dc
- Weatherproof IP65 enclosure
- Smart, rigid antenna fixed to enclosure
- Dimensions (WxHxD): 115x40x65mm

RCU04 System

- Same as RCU03 but with supply voltage range from 220-240V ac

461055.263806

Remote Control System	Order Code	Price Each 1+	5+	10+
RCU01	**133-8635●**	58.46	55.44	52.71
RCU02	**133-8636●**	58.46	55.44	52.71
RCU03	**133-8637●**	67.55	64.06	60.91
RCU04	**133-8639●**	67.55	64.06	60.91
Spare Keyfob	**133-8641●**	27.28	25.87	24.60

A.M. / F.M. Pocket Keyfob Remote Control Systems



This versatile range of Remote controls use a highly secure 'Keeloq' protocol to provide reliable Remote switch at a competitive price.
Supplied ready to operate as either a 1, 2 or 3 channel system, installation requires connection to the power supply and the output relay contacts. Screw terminals are provided for this. The system can switch upto 12A at 230V ac (max), 5A continuous. Each relay can be set to latch or operate momentary operation via user changeable links.
Futher Transmitters may be added to the system using the Keeloq Easy learn feature, (a max of 50 transmitters can be used per Rx unit).
Supplied in tough ABS, both transmitter and receiver units provide a waterproof enclosure, the transmitter is IP40 rated whilst the receiver unit is IP65. The receiver unit is supplied with wall mounting lugs.

- Complete remote control systems
- High security Keeloq protocol
- Easy Learn Tx encoder feature
- Range
  AM version upto 100 metres
  FM version upto 150 metres
- Easy installation via screw terminals
- 230V ac or 12/24V dc supply
- Output relay rated $12A_{pk}$ ($5A_{cont}$)@ 230V ac
- Mementary or latching outputs
- Optional serial output
- IP65 rated enclosure with wall mount brackets
- Up to 50 transmitters per system
- EMC compliant for use in Europe

Optimum Range	Modulation	No. of Channels	Receiver Supply	Mftrs. List No.	Order Code
100m	AM	1	12 / 24V dc	118C1A	167-6037
		3		118C3A	167-6038
		1	230V ac	119S1-433A	167-6047
		2		119S2-433A	167-6048
150m	FM	1	12 / 24V dc	128S1-433F	167-6054
		3		128S3-433F	167-6057
		1	230V ac	129S1-433F	167-6058
		2		129S2-433A	167-6059

Keyfob Transmitter

Standard110 Series supplied ready to operate
Battery type GP23A

Keyfob Transmitter

Dimensions 66x34x16mm
Operating frequency 433.92MHz

Rx Decoder

Supply voltage
DC Version 12 or 24V dc
AC Version 230V ac

Rx Decoder

Relays Rated 12A @ 230V ac pk (5A cont)
1A @ 12V dc
Dimensions 110x85x35mm
IP65 Rated Enclosure with wall mount lugs

386897

	Mftrs. List No.	Order Code	Price Each
A.M. Remote Control Systems			
1 Channel, 100m, 12/24V dc	118C1A	**167-6037●**	45.90
3 Channel, 100m, 12/24V dc	118C3A	**167-6038●**	47.94
1 Channel, 100m, 230V ac	119S1-433A	**167-6047●**	84.66
2 Channel, 100m, 230V ac	119S2-433A	**167-6048●**	86.70
Additional A.M. Transmitter Keyfobs			
1 Channel Keyfob	110C1-433A	**167-6041●**	10.10
2 Channel Keyfob	110C2-433A	**167-6043●**	10.10
3 Channel Keyfob	110C3-433A	**167-6044●**	10.10

RL Re-reeling available

	Mftrs. List No.	Order Code	Price Each
F.M. Remote Control Systems			
1 Channel, 150m, 12/24V dc	128S1-433F	**167-6054●**	85.68
3 Channel, 150m, 12/24V dc	128S3-433F	**167-6057●**	87.72
1 Channel, 150m, 230V ac	129S1-433F	**167-6058●**	85.68
2 Channel, 150m, 230V ac	129S2-433F	**167-6059●**	85.68
Additional F.M. Transmitter Encoders			
1 Channel Keyfob	120T1-433F.	**856-8189**	17.12
2 Channel Keyfob	120T2-433F	**167-6060●**	19.38
3 Channel Keyfob	120T3-433F	**167-6061●**	19.38

Optimum Range	Modulation	No. of Channels	Receiver Supply	Mftrs. List No.	Order Code
200m	FM	1	12 / 24V dc	10208S1-433F	167-6045
		4		10208S4-433F	167-6046
		1	230V ac	10209S1-433F	167-6049
		2		10209S2-433F	167-6050
1000m	FM Narrow Band			10208S1-525NR1	856-8219
				10208S4-525NR1	856-8227
		1	230V ac	10209S1-525N	856-8235
		2		10209S2-525N	856-8243

Transmitter
Battery type PP3 9V supplied
Operating Frequency 433.92MHz (FM)
434.525MHz (FM Narrow Band)

Transmitter
Dimensions 110x65x24mm
IP40 Rated Enclosure

Rx Decoder
Supply voltage
128 Series 12 or 24V dc
129 Series 230V ac

Rx Decoder
Relays Rated 12A @ 230V ac pk (5A cont)
Dimensions 110x85x35mm
IP65 Rated Enclosure

387011

	Mftrs. List No.	Order Code	Price Each 1+	5+	10+
F.M. Remote Control Systems					
1 Channel, 200m, 12/24V dc	10208S1-433F	**167-6045●**	85.95	– –	– –
4 Channel, 200m, 12/24V dc	10208S4-433F	**167-6046●**	85.95	– –	– –
1 Channel, 200m, 230V ac	10209S1-433F	**167-6049●**	85.95	– –	– –
2 Channel, 200m, 230V ac	10209S2-433F	**167-6050●**	85.95	– –	– –
Additional F.M. Transmitter Keyfobs					
1 Channel Keyfob	102C1-433F	**167-6051●**	34.67	– –	– –
2 Channel Keyfob	102C2-433FR1	**431-7828**	41.35	37.33	35.11
4 Channel Keyfob	102C4-433F	**167-6029●**	37.73	– –	– –
F.M. Narrow Band Remote Control Systems					
1 Channel, 1000m, 230V ac	10209S1-525N	**856-8235**	181.42	174.78	168.96
2 Channel, 1000m, 230V ac	10209S2-525N	**856-8243**	188.25	181.70	175.56
Additional F.M. Transmitter Encoders					
1 Channel Keyfob	102C1-525N	**856-8251**	53.48	51.60	49.77
2 Channel Keyfob	102C2-525N	**856-8260**	79.11	76.09	73.52

F.M. Pocket Keyfob Remote Control Systems



This Keeloq based Remote control system provides a high security Remote switch at a low cost. Supplied ready to operate as either a 1, 2 or 4 channel system, installation requires connections to the power supply and the output relay contacts. Screw terminals are provided for this.
The system can switch upto 12A at 230V ac (max), 5A continuous. Each relay can be set to latch or momentary operation via user changeable links.
Further Transmitters may be added to the system using the Keeloq Easy learn feature, (a max of 48 transmitters can be used per Rx unit.)Supplied in tough ABS, both transmitter and receiver units provide a waterproof enclosure, the transmitter is IP40 rated whilst the receiver is IP65. The receiver unit is supplied with wall mounting lugs.
In addition the 129 series decoders also provide a serial data output (RS232) providing the transmitter serial number and the battery status.The system can be supplied as a low cost FM or FMNB (Narrow Band),
FM: provides an improved performance for consistent, reliable operation over a longer range.
FMNB: provides a high performance FM system, is more resilient to external interference and able to operate in higher interference areas.

- Complete remote control systems
- High security Keeloq protocol
- Range
  FM version upto 200 metres
  FMNB version upto 1000 metres
- Easy installation via screw terminals
- 230V ac or 12/24V dc supply
- Output relays rated 12A_{pk} (5A_{cont})@ 230V ac
- Mementary or latching outputs
- Optional serial output
- IP65 rated enclosure with wall mount brackets
- Up to 48 transmitters per system
- 433MHz parts EMC compliant for use in Europe

Remote Control (ASK) Receivers, Transmitters & Kit

RADIOTRONIX

New

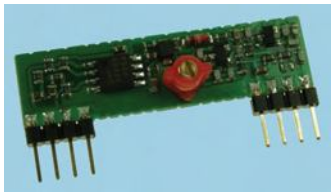


RCT-433-ASBR

The RCT-433-ASBR is ideal for remote control applications where low cost and longer range is required. The transmitter employs a SAW-stabilized oscillator, ensuring accurate frequency control for best range performance. Output power and harmonic emissions are easy to control, making FCC and ETSI compliance easy. It is suitable for IR reflow ovens and hot air soldering.

Features:
- SAW Based
- Ultra small SMT package (.4" x .25")
- 5mA current consumption at 3V
- 0 dBm output power at 3V
- 4800 baud operation
- Reflow compatible
- Low cost easy to use

Applications:
- Industrial controls
- Fan and Hot tub controls
- Medical
- Security and Motion controls
- Remote keyless entry (RKE)
- Remote lighting controls
- Remote Control

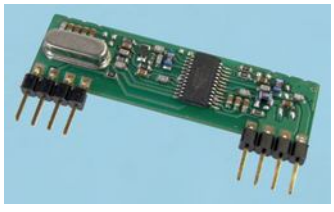


RCR-433-MPR

The RCR-433-MP RF receiver module offer a low cost solution for remote control type applications. The receiver is compatible with almost any ASK or OOK data transmitter and can receive legally transmitted signals from distances as far away as 300 feet. The receivers operate at 5V and draw only 2.4mA.

Features:
- 1 - 4.8kb/sec. data rate
- No external parts required
- 2.4mA Current drain
- PLL based local oscillator
- -102 dBm Sensitivity
- Industrial temp spec -40C to +85C

Applications:
- Industrial controls
- Fan and Hot tub controls
- Medical
- Security and Motion controls
- Remote keyless entry
- Remote lighting controls
- Remote Control



RCR-433-EPR

The RCR-433-EP high performance RF receiver module offers a low cost solution for remote control type applications. The receiver is compatible with almost any ASK or OOK data transmitter and can receive legally transmitted signals from distances as far away as 600 feet. The receivers operate at 5V and draw only 4.5mA.

Features:
- PLL based local oscillator
- 5V operation
- 2.4mA Current drain
- No external parts required
- Size 1.76" x .43"
- 1 kbit/sec. to 4.8kb/sec. data rate
- -109 dBm Sensitivity

Applications:
- Industrial controls
- Fan and Hot tub controls
- Medical
- Security and Motion controls
- Remote keyless entry
- Remote lighting controls
- Remote Control



RK-433-RC

The RK-433-RC is a rapid-development/evaluation kit for the Radiotronix family of 433 MHz transmitter and receiver modules. The kit is designed to allow engineers a fast wireless keyless entry and remote control development solution for integration into their applications.

Kit Includes:
- 2x SecureFOB™ transmitters
- 4x Receiver Modules
- 1x RCR-433-EPR (High Sensitivity Super-Het Receiver Module)
- 1x Receiver Evaluation Board
- 1x Right Angle, Reverse Polarity, 433MHz Helical Antenna
- 1x 9 V/ 450 mA Power Supply
- 1x CD, contains Kit User's Manual and related Datasheets

RL Re-reeling available

Farnell

Communications - Radio / Remote Control - continued

Remote Control (ASK) Receivers, Transmitters & Kit - continued

523229

Freq. Band	Modulation Type	Baud Rate	Vcc	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	50+
433.85 - 433.99 MHz	ASK/OOK	300 - 4800	2 - 12V	RF Transmitter Module	RCT-433-ASBR	156-5150●	2.98	1.99	1.59
433.85 - 433.99 MHz	ASK/OOK	300 - 4800	5.5 - 4.5V	Maximum Performance RF Receiver Module	RCR-433-MPR	156-5152●	3.76	2.39	2.02
433.85 - 433.99 MHz	ASK/OOK	300 - 4800	5.5 - 4.5V	High Performance RF Receiver Module	RCR-433-EPR	156-5153●	10.97	6.99	5.91
433 - 433.92 MHz	ASK/OOK	–	–	SecureFOB™ Remote Control Development Kit	RK-433-RC	156-5149●	50.87	– –	– –

Club Radio Systems



New

The Club radio release system is designed to handle the rigours of continuous operation 365 days or the year.
This design uses rugged enclosures with "resin dipped" circuit boards for protection against water ingression.
Club systems are supplied, ready to go with screw terminals for relays and power.

Club200: Provides up to 200m range
Club1000: Provides up to 1000m range

- Rugged remote control system
- Simple switch Tx and Rx pairing
- 256 possible address combinations
- "One transmitter" can control "Many Receivers"

Transmitter

- 1 or 3 switched versions available
- "Rain" proof protective rubber boot
- Uses standard PP2 9V battery (supplied)

Receiver

- Receiver unit waterproof to IP65
- Easy installation via screw terminals
- Relay "switch" outputs

460208

Description	Mftrs. List No.	Order Code	Price Each 1+	5+	10+
1ch, Radio System, 200m	CLUB200-S1	133-0055●	112.41	111.08	109.70
3 Ch Radio System, 200m	CLUB200-S3	133-0057●	141.62	139.74	137.70
Transmitter Handset, 1 Switch, 200m	CLUB200-TX1	133-0058●	58.81	57.59	56.18
Transmitter Handset, 3 Switch, 200m	CLUB200-TX3	133-0059●	56.75	55.79	54.62
1ch, Radio System, 1000m	CLUB1000-S1	133-0060●	185.19	183.11	181.03
3 Ch Radio System, 1000m	CLUB1000-S3	133-0061●	186.23	184.15	182.07
Transmitter Handset, 1 Switch, 1000m	CLUB1000-TX1	133-0062●	90.52	88.43	85.83
Transmitter Handset, 3 Switch, 1000m	CLUB1000-TX3	133-0063●	92.60	89.47	86.87

FireFly / FireBlade Remote Control Systems

New



FireFly



FireBlade

The FireFly & FireBlade are a range of general purpose remote control systems. Installation simply requires connections to power supply and the output relay screw terminals. The output relays are activated by the button press on the transmitter encoder.
Housed in a rugged IP68 weatherproof enclosure, the receiver has the capacity to learn up to 15 transmitter button pairings. These are memorised even if the power is removed.
Each individual switch on each of the transmitters may be paired with any or all of the receiver relay outputs.

Features:

- 1, 2 or 4 channel systems
- 12 / 24Vdc or 230Vac Supply
- Range:
- FireFly up to 100 metres
- FireBlade up to 500 metres
- Reliable FM Modulation
- High Security RF Protocol
- 'Easy Learn' Tx Encoder Feature
- 4 Relays 6A @ 230Vac
- Momentary, Latching or Timed Outputs
- IP68 Rated Receiver Enclosure

524744

Mftrs. List No.	Description	Freq (MHz)	Range (Metres)	Order Code	Price Each
FireFly Systems					
FIREFLY-S1	1Ch RC System	433.92	100	165-5092●	90.87
FIREFLY-S2	2 Ch RC System	433.92	100	165-5093●	98.29
FIREFLY-S4	4Ch RC System	433.92	100	165-5094●	100.14
Additional FireFly Transmitters					
FIREFLY-TX1	1 Button Transmitter	433.92	100	165-5095●	33.57
FIREFLY-TX2	2 Button Transmitter	433.92	100	165-5096●	36.16
FIREFLY-TX4	4 Button Transmitter	433.92	100	165-5098●	37.09
FIREFLY-TX8	8 Button Transmitter	433.92	100	165-5099●	40.80
FireBlade Systems					
FIREBLADE-S1	1Ch RC System	434.525	500	165-5101●	199.46
FIREBLADE-S2	2 Ch RC System	434.525	500	165-5102●	200.94
FIREBLADE-S4	4Ch RC System	434.525	500	165-5104●	202.98
Additional FireBlade Transmitters					
FIREBLADE-TX1	1 Button Transmitter	434.525	500	165-5105●	70.72
FIREBLADE-TX2	2 Button Transmitter	434.525	500	165-5106●	74.80
FIREBLADE-TX4	4 Button Transmitter	434.525	500	165-5107●	76.16
FIREBLADE-TX8	8 Button Transmitter	434.525	500	165-5109●	98.71
Kit					
FIREFLY-TX-IPKIT	IP Sealing Kit and Belt Clip	–	–	165-5100●	5.57

An Introduction to Low Power Radio



Aimed at the practical engineer, this book concentrates on discussing theoretical matters in an easy to understand manner, allowing system design decisions to be made which will result in functional and reliable designs with low power radio.
Subjects covered include: the basic principles of radio wave propagation, modulation and reception, investigation into the methods to encode and decode data. Hints and tips are given as to the best techniques for different applications.
Practical radio data systems are covered, including design of 'aerial' and 'PCB layout', selection of various low power radio data modules, and review of encoding techniques.

231335

Order Code	Price Each 1+
329-0554	21.34

TDL2A Packet Modem

RADIOMETRIX



The TDL2A is a 9600baud half-duplex Multi-channel Wide Band FM radio modem in DIL footprint. TDL2A acts as a transparent two-way serial cable to attached DTE host. Unlike raw FM transceiver, TDL2A will take care of preamble, synchronisation, bit balancing and error checking along with automatic noise squelching when there is no transmission.

- Dimensions: 33 x 23 x 7mm. Fully screened
- Selectable operating frequencies: 433.285, 433.605, 433.925 (default), 434.245 or 434.565MHz.
- Data rate: 9600 baud asynchronous (Inverted RS232 at 5V CMOS level)
- 1 of 8 programmable addresses
- Transmit power: +10dBm (10mW)
- Supply: 5V @ 28mA (transmit)
  22mA (receive/idle)
- <14ms end-to-end link latency
- -107dBm sensitivity @ 1% BER
- Operating range: >300m
- Adjacent channel: -65dB (@ ±320kHz)
- Blocking 80dB
- SAW front end receive filter

465825

Mftrs. List No.	Order Code	Price Each 1+	5+
TDL2A-433-9	133-8542●	42.69	39.44

£ € 40,000 PRICES REDUCED

Communications - GPS / GPRS / GSM

Mini Evaluation Kit

Fastrax

New



The Mini Evaluation kit is a small, compact, PCB meant for evaluating and testing of iTrax03, iTrax100, iTrax300 and uPatch Families. The basic idea of Mini Evaluation kit is to provide a pc-interface for GPS-modules. The Mini Evaluation kit is interfaced via USB cable and it's also powered from the USB so no external power is needed.

The Mini Evaluation Kit has the following Connectivity:

- 40-pin socket for iTrax Application Boards
- uPatch130/uPatch300 connector
- Two USB connectors (Mini-B)
- Reset switch
- Programming switch for firmware upgrade
- PPS signal in pinheader
- General I/O lines can be probed from 40-pin socket- connector if needed

524686

Mftrs. List No.	Description	Order Code	Price Each
MINI EVAL KIT	Mini Evaluation Kit	**165-6888●**	96.86

UC322 GPS Receiver & EV322 Evaluation Board

Fastrax

New



The UC322 is an OEM GPS receiver module, which uses the state of the art SiRF single chip receiver GSC3LT with high navigation sensitivity (-159dBm). The UC322 receiver provides low power consumption (90mW) and very fast TTFF together with weak signal acquisition and tracking capability to meet even the most demanding performance expectations.

Features:

- Optimizied for high volume Personal Navigation Devices (PND's)
- Enables very thin end applications
- SiRF GSC3LT chipset
- 20 channels
- Size 10.4 x 30.0 x 2.9mm
- Sensitivity -159 dBm (tracking)
- Power consumption: 90 mW @ 3.3V
- ROM firmware
- Operating temp: -30°C to +85°C

The EV322 Evaluation Board provides easy evaluation of the Fastrax UC322 module. The EV322 Evaluation Board provides a single chip USB to UART Bridge, a regulated +3.3V power supply for the UC322 and three push buttons for reset, ON_OFF (Nor-mal/Hibernate) and re-programming mode control.

524679

Mftrs. List No.	Description	Order Code	Price Each
UC322	OEM GPS Receiver	**165-6885●**	31.95
EV322	Evaluation Board	**165-6886●**	96.86

IT321 GPS Receiver & AP321 Application Board

Fastrax

New



The IT321 is a state of the art GPS receiver module, based on the SiRFstarIII, GSC3LT single chip combined with SiRF ROM code. This tiny GPS receiver provides low power consumption and very fast time-to-first-fix together with weak signal acquisition and extremely demanding tracking capability to meet even the most stringent performance requirements on the market.

Features:

- SiRFstarIII chip set
- 20 channels
- Very Low Power Consumption: 90mW @ 3.3V
- Ultra high sensitivity: -159dBm (navigating)
- Very small form factor: 10.4 x 14.0 x 2.3 mm
- ROM based firmware

The AP321 is an Application Board with a IT321 receiver installed in order to make evaluation of the GPS receiver easier.
Application Boards are used together with either Fastrax Mini Evaluation Kit or with Fastrax Evaluation Kit. They are connected to either of the kits with the on-board 40 pin system connector. The application board is equipped with a MCX antenna connector for the external active antenna.

524685

Mftrs. List No.	Description	Order Code	Price Each
IT321	GPS Receiver	**165-6887●**	30.21
AP321	Application Board	**165-6889●**	68.58

Jupiter 30 SiRFStarIII

NAVMAN



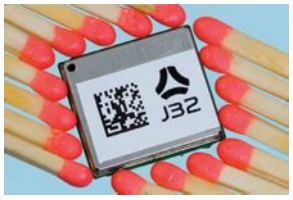
- 20 channel GPS receiver module
- Based on market leading SiRF Star III chipset
- Fast TTFF (Time to first fix)
- 25.4mm square, only 3mm thick
- Adapter boards and development kits available

493294

Description	Mftrs. List No.	Order Code	Price Each 1+	Price Each 5+
	AA003025-G	**151-8317●**	41.17	38.01
Adapter Card	AA003027-G	**151-8319●**	47.51	45.40
Development Kit	AA003029-G	**151-8321●**	306.15	295.60

Jupiter 32 SiRFStarIII

NAVMAN



- 20 channel GPS receiver module
- Based on market leading SiRF Star III chipset
- Fast TTFF (Time to first fix)
- 15mm x 17mm, only 3mm thick
- Adapter boards and development kits available

493326

Description	Mftrs. List No.	Order Code	Price Each 1+	Price Each 5+
	AA003252-G	**151-8322●**	41.17	38.01
Adapter Card	AA003251-G	**151-8323●**	47.51	45.40
Development Kit	AA003253-G	**151-8324●**	306.15	295.60

Smart Antenna

NAVMAN



Programmable data terminalSDK included (requires M16C Renesas compiler)Wide ranging voltage input, ideal for vehicle use - CE and 'E' marked2 serial portsFour-level 320 x 240 pixel LCD display

493345

Description	Mftrs. List No.	Order Code	Price Each 1+	Price Each 5+
RJ11	AA003260-G	**151-8325●**	47.51	45.40
USB	AA003261-G	**151-8326●**	50.67	47.51

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Communications - GPS / GPRS / GSM - continued

Wireless CPUs & Development Kits Q26 Family

wavecom

New



The **Q2686** is equipped with up to 44 GPIOs and is especially suited to applications which require a high number of connections. The Open AT® OS runs on an ARM9 core, providing applications with up to 87 MIPS (using VariSpeed). It features a market-leading range of peripheral interfaces, including companion Bluetooth® and GPS.

The **Q2687** is an automotive-grade Wireless CPU® which is backwards compatible with the Q2686, forwards compatible with 3G evolutions and their cellular software application development environments so that application portability is made easy. It also supports a new parallel data bus for interfacing to displays and external memory and data bearers up to EDGE.

The **Q2686H-DK** and **Q2687H-DK** Development Kits allow Development of Automotive, industrial M2M and Mobile Professional applications.All functions of the kits are provided by the wireless CPU.

	Q2686H	Q2687H
Core Processor	ARM9, 32 bit, 104 MHz running Open AT® RTOS as standard	ARM9 4 6, 32 bit, 104 MHz running Open AT® RTOS as standard
Memory	Internal, supports up to 128Mb Flash, 128 MB PSRAM	Internal, 32 / 8 Mb Flash
Digital Control	Up to 44 GPIO, 2 INT, 2 SPI, 1 I2C, 5 x 5 keyboard	
Digital Comms	2 UART, USB 2.0	2 UART, USB 2.0 , 1 parallel ports , 1 DAC
Analogue Interfaces	2 ADC	
Audio Interfaces	2 analogue channels, 1 PCM	
Cellular Radio	Global operation (auad GSM band: 800/900/1800/1900 MHz)	
Cellular Data	GSM standard SMS, Fax, CSD (circuit), GPRS cl 10 (packet)	GSM standard SMS, Fax, CSD (circuit), GPRS cl 10 (packet), EDGE cl 10
Cellular Voice	Quad codec (FR/HR/EFR/AMR), VDA2A	
RF and IO connectivity	1 UFL connector for GSM FR, 1 RF connection which allows to support board to board solution, 100 I/O Pins connector	
Dimensions	L40 x W32.2 x H 4mm	L40 x W32 x H 6.55mm

524545

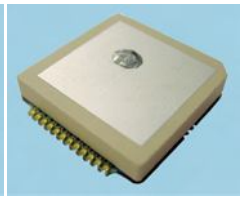
Description	Mftrs. List No.	Order Code	Price Each
Wismo Quik GSM/GPRS Quad Band Module	Q2686H	165-6750●	60.01
Wismo Quik Q2687H GSM/GPRS/EDGE Quad Band Module	Q2687H	165-6769●	53.82
Q2686H Development Kit	Q2686H DK	165-6753●	504.56
Q2687H Development Kit	Q2687H DK	165-6751●	610.52

WS5021 GPS Receiver & Antenna OEM Module

WI·SYS



130-2970



130-2971

The WS5021 GPS Receiver + Antenna OEM Module incorporates a highly sensitive 12-channel, quick time-to-fix GPS Receiver and a high performance active GPS antenna for optimum signal reception. It features the newest generation super-integrated GPS System on Chip (SoC), a custom designed ceramic patch element that minimizes detuning effects caused by adjacent objects, as well as a Low Noise Amplifier and a SAW filter. The WS5021 GPS Receiver + Antenna OEM Module is housed in a very compact 25.5 mm x 27.6 mm x 7.6 mm PCB surface mount package or a connectorized module and comes with 3.3V CMOS interface.

- Integrated GPS receiver, GPS antenna, LNA & SAW filter
- High performance GPS engine (-146 dBm sensitivity)
- 12 channel simultaneous operation
- Low noise LNA and SAW band-pass filter
- GPS output: NMEA 0183 output
- 1 PPS timing source
- 3D fix output
- Low current: 45mA
- 3.3V operation
- Flexible mounting options

450408

Mftrs. List No.	Order Code	Price Each 1+	Price Each 25+
WS5021-C	130-2970●	57.26	53.18
WS5021-SMT	130-2971●	58.69	54.51

MC55 Wireless Module

SIEMENS



The MC55 wireless module is the smallest double tri-band modules on the market today. Being extremely compact in size, this is especially suitable for use in mass-produced consumer goods like mobile phones, smart phones, PDAs and other portable devices. The tri-band module is available to cover all of the GSM/GPRS networks that exist across the world - and subsequently enable you to develop products for the global market.

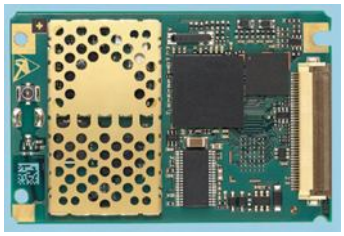
- Compactness (35 x 32.5 x 2.95 mm), weighs only 5.5 grams
- Double tri-band operation: 900, 1800 and 1900 MHz
- Voice and data communication
- TCP/IP via AT commands with: TCP, UDP, HTTP, FTP, SMTP, POP3
- Designed for Microsoft® Windows Mobil™ 5.0-based devices (Smartphones and Pocket PCs)
- GPRS (class 10), PBCCH support

450810

Mftrs. List No.	Order Code	Price Each 1+	Price Each 5+
MC55 MODULE	130-5958●	66.17	64.84

TC35i Wireless Module

SIEMENS



Small dimensions, a flexible installation design, simple integration and low power consumption are all essential features of the TC35i radio module. Developed primarily for high-volume M2M applications, the TC35i is employed in the areas of measurement and remote maintenance, transportation and logistics, traffic systems, gateways and access, vending machines, security, health care and building technology.

The link between the TC35i radio module and your application is created via a ZIF connector and a GSC aerial socket. R&TTE, GCF and network operator approvals have been obtained, making it simpler for you to obtain approvals for your own applications.

- GSM dual band (900/1800 MHz)
- Small size (54.5 x 36.0 x 3.6 mm)
- Low power consumption (stand-by mode: 25 mA, talk mode: 300 mA)
- SIM Application Toolkit
- Extended AT commands for M2M applications

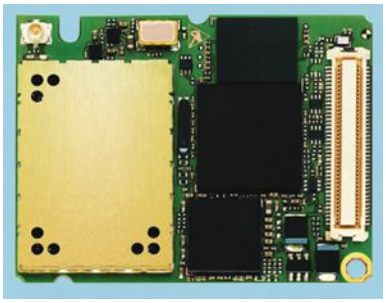
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Mftrs. List No.	Order Code	Price Each 1+	Price Each 5+
TC35I MODULE	130-5959●	56.10	55.04

RL Re-reeling available

TC63 Wireless Module

SIEMENS



The TC63 incorporates the same top-quality GSM/GPRS technology as the TC65, but doesn't feature its Java™ platform. That's why it is particularly Fell-suited to classic applications that require additional hardware. Featuring quad-band radio technology, GPRS Class 12 and an integrated TCP/IP stack, the module sets new standards in GSM/GPRS connectivity. The potential uses of the TC63 are manifold - no matter how you utilise the module, be it in security-related applications, vending machines, fleet-management systems or a whole host of other applications, the module is a real all-rounder in the m2m sector!

The new standards the TC63 sets particularly refer to its many uses and its connectivity. As a quad-band module, it can be employed in GSM networks anywhere in the world. It also possesses two serial interfaces, USB and I 2 C bus interfaces and an integrated TCP/IP stack - in short, you can connect a wide range of devices to it. What's more, its temperature range (-30 to +65°C) has been enhanced to optimise it for use in m2m applications.

Like all other Siemens modules, the TC63 comes with full type approval (FTA) plus worldwide approval from all of the large mobile network operators in accordance with the following standards: R&TTE, FCC, UL, IC, GCF and PTCRB. As a result, applications developers can keep costs down and lower the total cost of ownership. In addition, newly produced m2m applications can be launched on the global market even faster than ever.

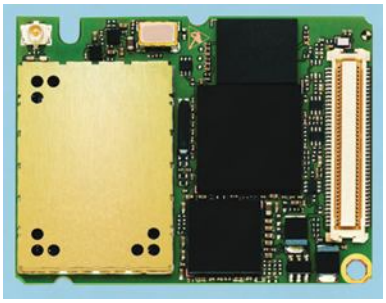
- Includes quad-band technology that can therefore be employed in any mobile network worldwide (850/900/1800/1900 MHz)
- Enables high-speed data transfer using GPRS Class 12
- Integrated TCP/IP stack enabling the simple integration of wireless Internet services
- Enhanced operative temperature range and a robust means of mounting

450806

Mftrs. List No.	Order Code	Price Each 1+	5+
TC63 MODULE	**130-5956●**	70.29	69.07

TC65 Wireless Module

SIEMENS



Being based on Java™, the TC65 provides developers working in the machine-to-machine sector (m2m) with a sophisticated developer's software platform. It also incorporates top-quality GSM/GPRS technology including quad-band radio technology and GPRS Class 12. Its various interfaces - GPIOs, I 2 C bus and SPI bus - and the TCP/IP stack allow the module to be integrated in virtually any m2m application. The launch of the TC65 marks the introduction of a new, modern generation of wireless modules to business fields like vending machines, point of sales, remote metering and the security sector.

Apart from saving you development time, the Java™ support offered by the TC65 reduces your costs, as the module requires no additional hardware such as a controller, memory or a TCP/IP stack. Java™ is a complete software platform in itself that enables you to develop brand-new m2m applications without the burden of licence fees and dependence on other manufacturers' technology. Owing to its IMP 2.0 profile, the wireless module allows you to make software updates easily and securely via the air interface (OTAP). In addition to this, it enables data encoding in applications that involve transmitting data in a secure environment (e.g. HTTPS and PKI). The TC65 can process data at high speed thanks to the integrated ARM7 processor, and the memory it requires is provided by its 1.7 MB Flash memory.

Full type approval (FTA) plus worldwide approval from all of the large mobile network operators conforming to standards such as R&TTE, FCC, UL, IC, GCF and PTCRB round off the TC65's suitability as a developer's platform. By using this wireless module, applications engineers can reduce the total cost of ownership as well as put their new m2m applications onto the global market faster.

- Java™ support, IMP 2.0 (IMP 1.0 was used in the TC45)
- Includes quad-band technology that can therefore be employed in any mobile network worldwide (850/900/1800/1900 MHz)
- Enables high-speed data transfer using GPRS Class 12
- High processor performance due to an ARM7 processor
- Large amount of memory space - Flash: 1.7 MB, RAM: 400 kB Integrated TCP/IP stack enabling the simple integration of wireless Internet services
- Secure data transfer and reliable software updates over the air
- Enhanced operative temperature range and a robust means of mounting

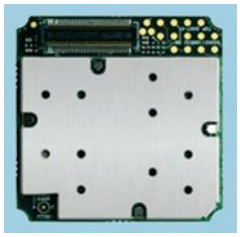
450805

Mftrs. List No.	Order Code	Price Each 1+	5+
TC65 MODULE	**130-5954●**	73.57	72.51

Wireless Module Solutions

SIMCom A company of SIM Tech

New



SIM5210Z

The **SIM300x/340x** & **SIM305/345** are either Dual-band / Tri-Band or Quad-Band GSM/GPRS modules. With their tiny configuration they can fit almost all the space requirements in industrial applications. The leading features of each of these modules make them ideal for virtually unlimited applications.

The **SIM508/548** modules are Tri-Band/Quad-Band GSM/GPRS-enabled modules that are equipped with AGPS technology. The compact design of the SIM508/548 makes it easy to integrate GSM/GPRS & GPS as an all-in-one solution.

SIM5210 & SIM5212 are a HSDPA/WCDMA/GSM/GPRS/EDGE module solution that support upto 7.2M downlink speed and 384K uplink speed data service.

The range of **Evaluation boards** (EVBs) are used to support a selection of the above wireless modules.

527679

Mftrs. List No.	Description	Order Code	Price Each
GSM GPRS Modules			
SIM300Z	Tri-Band GSM/GPRS Plug-In Module	**167-8274●**	31.33
SIM340Z	Quad-Band GSM/GPRS Plug-In Module	**167-8282●**	33.23
SIM300CZ	Tri-Band GSM/GPRS Module w/ DIP Connector	**167-8283●**	32.28
SIM340CZ	Quad-Band GSM/GPRS Module w/ DIP Connector	**167-8285●**	34.18
SIM300DZ	Tri-Band GSM/GPRS SMD Module	**167-8286●**	32.28
SIM340DZ	Quad-Band GSM/GPRS SMD Module	**167-8288●**	34.18
SIM300EZ	Tri-Band GSM/GPRS SIM Holder Module	**167-8289●**	28.49
SIM340EZ	Quad-Band GSM/GPRS SIM Holder Module	**167-8290●**	29.44
SIM305Z	Dual-Band GSM/GPRS Plug-In Module	**167-8291●**	32.28
SIM345Z	Quad-Band GSM/GPRS Plug-In Module	**167-8293●**	34.18
GSM GPRS+GPS Combi Modules			
SIM508Z	Tri-Band GSM/GPRS & GPS Module	**167-8294●**	56.97
SIM548Z	Quad-Band GSM/GPRS & GPS Module	**167-8295●**	57.92
WCDMA HPDPA Modules			
SIM5210Z	HSDPA/WCDMA/GSM/GPRS/EDGE Module	**167-8296●**	91.14
SIM5212Z	WCDMA/HSDPA/GSM/GPRS/EDGE Module	**167-8297●**	94.39
Wireless Module Evaluation Boards			
SIM300EVB	SIM300 Evaluation Board	**167-8298●**	37.98
SIM300CEVB	SIM300C Evaluation Board	**167-8299●**	37.98
SIM508EVB	SIM508 Evaluation Board	**167-8300●**	37.98
SIM5210EVB	SIM5210 Evaluation Board	**167-8301●**	47.47
SIM5212EVB	SIM5212 Evaluation Board	**167-8302●**	47.47

USB GSM/GPRS Modem

MultiTech Systems



The MultiModem® GPRS wireless modem offers standards-based multi-band GSM/GPRS Class 10 performance. This ready-to-deploy, standalone modem provides wireless data communication and integrates seamlessly with virtually any application. It is available with a broad range of interface options, this being USB, to cover all of your application needs. The MultiModem GPRS wireless modem is based on industry-standard open interfaces and is designed to be desktop mounted.

- GPRS Class 10
- Dual-band 900/1800 MHz GSM/GPRS
- Packet data up to 85.6K bps
- Embedded TCP/IP stack
- Circuit-switched data up to 14.4K bps transparent and non-transparent
- GSM Class 1 and Class 2 Group 3 Fax
- Short Message Services (SMS)
- USB interfaces
- SMA antenna connector and SIM socket
- Serial interface supports DTE speeds to 115.2K bps
- AT command compatible
- MNP2 error correction, V.42bis compression
- Numerous LEDs provide operational status
- Desktop mounting
- PTCRB certified
- Carrier approved

467361

Mftrs. List No.	Order Code	Price Each 1+	5+
MTCBA-G.U-F1	**135-1714●**	140.28	137.90

USB GSM/GPRS/EDGE Modem

MultiTech Systems



The MultiModem® EDGE wireless modem delivers some of the fastest cellular wireless data speeds by utilizing EDGE technology. It allows users to connect to the Internet and send and receive data up to three times faster than possible with an ordinary GSM/GPRS network making it ideal for highly data-intensive multimedia applications. Based on industry-standard open interfaces, the MultiModem EDGE wireless modem is equipped with quad-band GSM, which means it can be used worldwide on all existing GSM networks. It is available with a broad range of interface options this being USB, so that you are guaranteed to find a solution that meets your application needs.

Communications - GPS / GPRS / GSM - continued

USB GSM/GPRS/EDGE Modem - continued

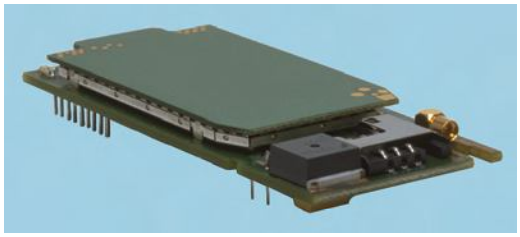
- EDGE (E-GPRS) Class 10
- GPRS Class 12
- Quad-band GSM 850/900/1800/1900 MHz
- Packet data rates up to 240K bps (coding scheme MCS-9, LLC layer, 4 time slots)
- Embedded TCP/IP stack
- Circuit-switched data up to 14.4K bps non-transparent mode
- Short Message Services (SMS)
- SMA antenna connector
- Desktop or panel mounting (external models)
- USB interface
- AT command compatible
- Carrier approved
- Numerous LEDs provide operational status
- Voice features include Half rate (HR), Full rate (FR), Enhanced full rate (EFR), Adaptive multi rate (AMR), as well as hands free echo cancellation, and noise reduction

467362

Mftrs. List No.	Order Code	Price Each 1+	5+
MTCBA-E-U	135-1715●	222.66	220.15

GSM/GPRS/EDGE Modem

MultiTech Systems



The SocketModem® GPRS wireless modem is a complete, ready-to-integrate module that offers standards-based multi-band GSM/GPRS Class 10 performance. This quick-to-market module allows developers to add wireless communication to products with a minimum of development time and expense. The SocketModem GPRS wireless modem is based on industry-standard open interfaces and utilizes Multi-Tech's universal socket design.

- GPRS Class 10
- Dual-band 900/1800 MHz GSM/GPRS
- Packet data up to 85.6K bps
- Embedded TCP/IP stack
- Circuit-switched data up to 9600 bps transparent and nontransparent
- GSM Class 1 and Class 2 Group 3 Fax
- Short Message Services (SMS)
- Advanced management features include phone book management, fixed dialing number, real time clock and alarm management
- MMCX antenna connector and SIM socket
- SIM card holder
- Serial interface supports DTE speeds to 115.2K bps
- AT command compatible
- MNP 2 error correction, V.42bis compression
- Universal socket connectivity

467360

Mftrs. List No.	Order Code	Price Each 1+	5+
MTSMC-G-F1.R2-SP	135-1713●	100.18	97.59

GSM/GPRS Modem

MultiTech Systems



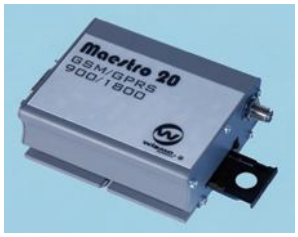
The SocketModem® EDGE wireless modem delivers some of the fastest cellular data speeds by utilizing EDGE technology. It allows users to connect to the Internet and send and receive data up to three times faster than possible with an ordinary GSM/GPRS network making it ideal for highly data-intensive applications. Based on industry-standard open interfaces, the SocketModem EDGE wireless modem is equipped with quad-band GSM, which means it can be used worldwide on all existing GSM networks. In addition, it utilizes Multi-Tech's universal socket design.

- EDGE (E-GPRS) Class 10
- GPRS Class 12
- Quad-band GSM 850/900/1800/1900 MHz
- Packet data rates up to 240K bps (coding scheme, MCS-9, LLC layer, 4 time slots)
- Embedded TCP/IP stack supports TCP, UDP, DNS, FTP, SMTP, POP3, HTTP
- Circuit-switched data up to 14.4K bps non-transparent mode
- Supports Short Message Service such as text and PDU mode, point-to-point (MT/MO) and cell broadcast
- MMCX antenna connector
- SIM card holder
- Serial interface supporting DTE speeds to 460K bps
- AT command compatible
- FCC, PTCRB and R&TTE certified
- Voice features include Half rate (HR), Full rate (FR), Enhanced full rate (EFR), Adaptive multi rate (AMR), as well as hands free echo cancellation, and noise reduction

467359

Mftrs. List No.	Order Code	Price Each 1+	5+
MTSMC-E.R2-SP	135-1712●	141.26	137.90

GSM/GPRS Modems



A Miniature "Plug And Play" dual band GSM modem. It can be directly connected to the serial port of a desktop or notebook computer through the RS232 interface. A standard SIM card can be inserted in the integral card holder within the metal enclosure.
The Modems metal casing makes it an appropriate solution for tough applications such as Telemetry, Wireless Local Loop (payphones) or as part of a fleet management system. Its small size makes it simple to integrate in a space constraint environment. The modem is supplied with power cable, other accessories available are and antenna (with 1m coax cable), RS232 connecting cable with Telephone interface and a DIN Rail mounting adaptor.
About GPRS: GPRS stands for General Packet Radio Services. The user can remain "ON" all the time and the data Communication speed can rival with that of a cable modem.

- GSM100LITE: GPRS Class B Class 10 (4Rx+1Tx) (28.8kbps download/ 14.4kbps upload) at maximum speed
- GSM100T: as GSM100LITE with TCP/IP

Network Connection: Your network provider will supply you with a plug in SIM for use with your modem. Remember that the SIM must support Data service.

GSM/GPRS Modems
- GSM and GPRS
- Voice / Fax / SMS and Data
- Dual Band 900 / 1800MHz GSM Transmission
- Full voice call, SMS support
- Accepts Standard SIM Card
- Data enabled SIM Cards available
- Miniature size 88 x 60 x 26mm
- Can Be Used On Standard GSM Network
- RS232 Interface
- AT command set (GSM 07.05 and 07.07)
- One user programmable input/Output Port
- GPRS Class B Class 10 (36Kb/s download / 24Kb/s upload)
- GSM100T: TCP/IP stack available for data and internet

Voice Features
- Telephony
- Full Rate, Enhanced and Half Rate
- DTMF Function

Data/Fax Features
- Data circuit asynchronous, transparent and
- Non transparent up to 14,400 bits/s
- Automatic fax group 3 (Class 1 and Class 2)
- MNP2, V.42bis

Short Message Services Features
- Text and PDU
- Point to point (MT/MO)
- Cell Broadcast

GSM Supplementary Services
- Call Forwarding -Calling Line Identity
- Call Barring -Advice of Charge
- Multiparty -USSD
- Call Waiting and Call Hold -Closed User Group
- Explicit Call Transfer

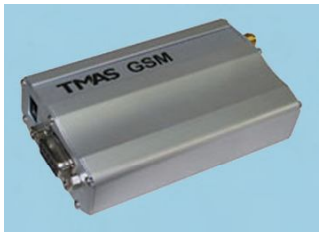
One Programmable Input/Output Port
- One user programmable input/Output Port
- (3V CMOS logic)

Input Voltage	5 to 32V dc
Typ. Supply Current	450mA avg. (5V), 2.5A peak (5V) 35mA in idle mode
Connections	
Serial/Audio	15 pin-D type Connector
Power	4-pin micro-FITTM 3.0 (cable supplied)
Antenna	SMA antenna connection (50Ω)
Dimensions (WxHxD)	60x88x60mm
Weight	120g
Operating Temperature	-15 to 50°C

450553

Description	Mftrs. List No.	Order Code	Price Each
GSM100L Module	GSM100L	130-4041●	140.45
GSM100T Module	GSM100T	130-4042●	140.45
Ant. Maestro 20	GSM20-ANT	167-6032●	15.30
RS232 Interface Cable	GSM20-CAB232	167-6033●	10.10
DIN Rail Mount	GSM20-DINRL	167-6034●	9.69
Power Supply	GSM20-PSUR2	167-6036●	19.89

Low Cost dual Band GSM Modem 900 / 1800 MHz



The low cost TMAS GSM Modem is ideal for a wide range of applications. The modem can be used to make circuit switched data calls, making the unit suitable for remote dial-up systems where a fixed phone line is not available. The SMS functionality enables the sending and receipt of text messages. A common use for this functionality is an SMS server for the automated sending and receipt of bulk text messages.
The modem implements the highly reliable

RL Re-reeling available

Siemens TC35i GSM Engine. This ensures high quality and reliable operation along with compatibility with all standard GSM networks. The modem provides support for the Siemens TC35i AT command list, also available for download from the RF Solutions website.
The TMAS modem is supplied in a rugged extruded aluminum enclosure making it suitable for use in a wide range of industrial and demanding environments. The unit connects directly to a PC or terminal device via the DB-9 RS232 Cable interface. The integral SIM card holder accepts standard SIM cards of all network operators.
The only other connections required are to 5Vdc power supply and Antenna (supplied separately).

- Fax, SMS And Data
- Integral SIM Card Holder
- Siemens TC-35i GSM Engine
- Rugged Extruded Aluminum Enclosure
- Compact Form Factor 86 X 54 X 25mm
- RS232 Interface With Auto Baud Rate Detection
- SMA Antenna Connection
- LED Indication Of Operation

492537

Description	Order Code	Price Each 1+	Price Each 5+
Modem	151-7423●	92.73	87.39
Sim Card	151-7425●	4.63	4.16

GSM Modem

Quad Band



New

The new GM862-GPS module is at the cutting edge of the Telit product line. It combines a Quad-Band GSM/GPRS modem, with a 20 channel high sensitivity SiRFstarII™ Single Chip GPS receiver. Based on the Pin-to-Pin compatibility of the GM862-GPS module to all previous versions, the functionality of existing and new applications can be extended by the latest state of the art GPS technology. With its ruggedized design, extended temperature range, integrated SIMCard reader and industrial connectors, the Telit GM862-GPS is the perfect platform for all telematics applications, Fleet Management-, Tracking- and Security-devices and more. Additional features like Jamming Detection, integrated TCP/IP protocol stack, easy Scan functionality and the direct support of an embedded camera offer extended functionality to the application.

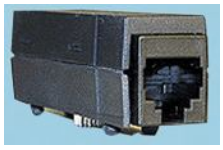
- Quad-band GSM
- Output power: Class 4 (2W) @ 850/900 MHz, Class 1 (1W) @ 1800/1900 MHz
- Control via AT commands according to GSM 07.05, 07.07 and proprietary Telit
- Supply voltage range: 3,4 - 4,2 V DC (3,8 V DC recommended)
- Power consumption (typical values):Power off - 26uA, Idle - (registered, power saving) <4 mA, Dedicated mode - 170 mA, GPRS cl.10 (max) 500mA
- Serial port multiplexer GSM 7.10
- SIM Access Profile
- GPS power consumption: Stand-by current: 1 mA, Operating current: 70mA, including 20 mA for the antenna LNA
- Sensitivity: -107 dBm (typ.) @850/900 MHz, -106 dBm (typ.) @ 1800/1900 MHz
- Dimensions: 43.9 x 43.9 x 6.9 mm
- Weight: 20 gr.
- Extended Temperature range: -30° / +80°C
- RoHS compliant
- TCP/IP stack access via AT commands

460250

Description	Mftrs. List No.	Order Code	Price Each 1+	Price Each 5+	Price Each 10+
GSM Module	GSM862	133-0097●	103.00	101.44	98.84

RJ Modem

Embedded Modem



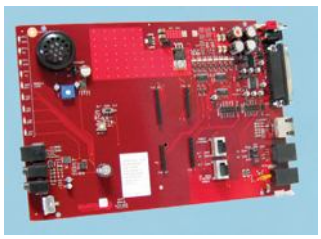
The Multi-Tech RJModem™ embedded modem creates communication-ready devices by integrating modemfunctionality into the most compact, integrated device. The first-of-its-kind RJ-11 form factor includes thecontroller, data pump, DAA and RJ-11 connector providing device manufacturers with the ability to integratedial-up connectivity into any product design. With minimal engineering effort, the RJModem embedded modeminstantly adds global communication capabilities, enhancing the end-user experience and increasing productvalue.

- Complete data modem including the controller, data pump, DAA and RJ-11 connector
- V.92/56K, V.34/33.6K, V.32bis/14.4K data rate options
- High speed models backward compatible with lower speeds
- Telecom approved in more than 50 countries (some pending)
- V.44 and V.42bis data compression
- V.42 error correction
- Intelligent DAA technology detects line status
- AT command compatible
- U.S. Caller ID reporting
- Low power/sleep mode
- FastPOS (V.29) and V.22bis Fast Connect
- V.80 Synchronous Access
- 3.3V or 5V power input options
- Board mount or remote panel mounting
- Two year manufacturers warranty

450822

Mftrs. List No.	Order Code	Price Each 1+	Price Each 5+
MT5656RJ-92.R2 SP	130-5962●	46.15	45.19

Socket Modem Development Board



The SocketModem Development kit includes a developer board supporting all SocketModem variants. Specifically designed for testing, programming and evaluating to enable fast development results. The Multitech development board gives the engineer all the functionality needed to work with the full range of SocketModems manufactured by Multitech.

Kit Contains:

- RS232 cable
- Universal power supply
- PSTN and ISDN cables
- Full SocketModem compatibility
- Antenna for testing

467363

Mftrs. List No.	Order Code	Price Each 1+	Price Each 5+
MTSMI-UDK	135-1716●	267.30	264.36

RPM2A Packet Modem



RPM2 is a Wide Band FM UHF Radio Packet Modem (RPM2A). The RPM2A uses addressable data packets with error checking and packet acknowledge /retransmit to achieve a reliable transparent wireless data link. Built for ease of use and rapid installation, the serial interface ensures direct connection to microcontroller UART or to any RS232 port via RS232 level converter while remote configuration enables post installation setup of the modem.

- Dimensions: 39 X 23 X 10 mm
- Uses BiM2A transceiver for radio interface (see BiM2A specifications)
- Operating frequencies: 433.92MHz or 434.42MHz
- Operating range: >300m
- Addressable point-to-point mode
- Point-to-Multipoint and broadcast modes
- Inverted RS232 interface at 5V or 3V CMOS level
- DTE speed 600-115200bps
- Overall throughput: 17kbps with ACK and 28kbps without ACK
- Flow control - Hardware (CTS), None
- Built-in command line configuration
- Built-in RF link diagnostics
- Remote over-air unit configuration
- Low operating current, Auto standby mode

465835

Mftrs. List No.	Order Code	Price Each 1+	Price Each 5+
RPM2A-433-17	134-8867●	59.44	55.95

Fastrack Supreme Wireless CPU® Development Kit & Terminal



New

The Fastrack Supreme Wireless CPU® keeps the same versatile form factor as previous FASTRACK products and is designed with expandability in mind. Users can easily add additional IO and features (like GPS, WiFi, Bluetooth, Zigbee and more) thanks to a new open standard internal expansion socket (IES) interface that can be populated with an expansion card from Wavecom or one of your own.

The Fastrack Supreme Development Kit is a ready-to-go hardware and software development platform which provides the user with all the tools and accessoriesneeded to prove concepts, deliver prototypes or develop an end user application.

524551

Mftrs. List No.	Description	Order Code	Price Each
FSU002 8XN500	Fastrack Supreme Terminal	165-6754●	130.21
FSUD05-DK	Fastrack Supreme Development Kit	165-6755●	297.43

MC35i Terminal



Always-on connection and high-speed data transfer capabilities. In a rugged package the Siemens MC35i dual band GSM / GPRS class 8 unit is exceptional and you can easily link up the MC35i Terminal to your own products via plug & play, thus shortening development times and reducing development costs.

- GSM dual band (900/1800 MHz) and GPRS class 8
- Support for the Packet Broadcast Control Channel (PBCCH)
- Broad input voltage range
- Standardized interfaces
- Integrated SIM card holder

RL Re-reeling available

Communications - GPS / GPRS / GSM - continued

MC35i Terminal - continued

450839

Mftrs. List No.	Order Code	Price Each 1+	5+
MC35I TERMINAL	130-5960●	115.39	113.53

TC35i Terminal

SIEMENS



The TC35i Terminal is the plug & play solution from Siemens Wireless Modules for quick and easy integration. The wide performance range and robust case of the TC35i Terminal enable you to quickly develop new telemetry and telematics applications. The TC35i Terminal is the ideal solution for voice, data, SMS and fax communication, thanks to its standard industrial interfaces and integrated SIM card reader. This ultra compact Dual-Band GSM Terminal can be powered by a wide range of voltages. It is R&TTE, GCF and E-Marking approved.

- GSM dual band (900/1800 MHz)
- Large input voltage range
- Standard interfaces
- Integrated SIM card holder
- SIM Application Toolkit
- Extended AT commands for industrial apps

450812

Mftrs. List No.	Order Code	Price Each 1+	5+
TC35I TERMINAL	130-5961●	112.22	110.36

TC65 Terminal

SIEMENS



The TC65 Terminal sets unprecedented standards in the field of machine-to-machine communication. Based on the advanced TC65 module the intelligent Terminal version combines the most powerful and universally accepted Java™ open software platform with a wide range of industrial interfaces, to produce a smart plug & play solution in a growing M2M market.

Having the latest Information Mobile Profile NG embedded the TC65 terminal offers the opportunity to control M2M applications by using internal resources such as a powerful processor as well as the ability to simplify over-the-air software updates (OTA) for reliable e-maintenance of applications. Furthermore the future proved standard allows secure data transmission using https and PKI encryption. Last but not least Quad-Band technology allows applications to be used globally and the software development kit included is license free.

A wide range of industrial interfaces and the plug & play functionality included allow quick and easy implementation, reduces your costs significantly and lowers the entry barriers to a wide number of business fields such as: fleet management, security, vending machines or remote control. With its extended temperature range it is also the perfect stand-alone device for sophisticated M2M solutions.

Thanks to its full type approval (FTA), there is no worry about obtaining appropriate certification anymore - the TC65 comes with approvals from major mobile network carriers across the globe, including those from US operators.

- Robust housing
- Range of standard interfaces (I²C bus, SPI bus, ADC, serial, audio, 10 GPIOs and a SIM card interface)
- Java - CLDC 1.1, IMP2.0
- I2C bus interface
- High-performance processor (ARM7)
- Quad-Band: GSM850/900/1800/1900
- GPRS Multislot Class 12
- TCP/IP Stack via AT commands
- Dimensions: 130 x 90 x 38 mm
- Weight: 190g

450790

Mftrs. List No.	Order Code	Price Each 1+	5+
TC65 TERMINAL	130-5953●	132.85	131.27

Communications - Network/Interface/GPIO

210556

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+
1	FCH	14	SOIC	USBus 1.1 Transceiver	USB1T11AM	SMD 124-1918●	0.580	0.470	0.380	0.330
1	FCH	14	TSSOP	2.0 USB Transceiver	USB1T20MTCX	NEW SMD 156-4484●	0.600	0.460	0.360	0.310
1	FCH	14	TSSOP	Transceiver	USB1T11AMTC	SMD 141-7670●	0.690	0.530	0.400	0.350
1	FCH	14	TSSOP	USBus 2.0 Transceiver	USB1T20MTC	124-1919●	0.580	0.470	0.360	0.310
1	FCH	16	MHBCC	Universal Serial Bus Peripheral Transceiver With Voltage Regulator	USB1T1105AMHX	SMD 122-8260●	0.820	0.550	0.430	– –
3	TI	16	SOIC	Quad SPDT High-Bandwidth 10/100 Base-T Lan Switch Differential 8 to 4 Multiplexer/Demultiplexer	TS3L110D	SMD 105-3272●	0.930	0.750	0.640	– –
3	TI	16	SOIC	Quad SPDT High-Bandwidth 10/100 Base-T Lan Switch Differential 8 to 4 Multiplexer/Demultiplexer	TS3L110DE4	SMD 105-3269●	0.710	0.570	0.530	– –
3	TI	16	TSSOP	Quad SPDT High-Bandwidth 10/100 Base-T Lan Switch Differential 8 to 4 Multiplexer/Demultiplexer	TS3L110PWE4	SMD 105-3262●	0.940	0.770	0.660	– –
3	TI	10	SON	MUX/DEMUX, 1:2, USB 2.0, 10SON	TS3USB221DRCR	NEW SMD 161-0198●	0.630	0.360	0.290	– –
5	TI	16	SOIC	Quad SPDT Wide Bandwidth LAN Switch With Low On-State Resistance	TS5L100DE4	SMD 105-3226●	0.680	0.550	0.480	– –
5	TI	20	TSSOP	Quad SPDT Wide Bandwidth LAN Switch With Low On-State Resistance	TS5L100PW	SMD 105-3223●	0.800	0.640	0.560	– –
5	TI	20	TSSOP	Quad SPDT Wide Bandwidth LAN Switch With Low On-State Resistance	TS5L100PWE4	SMD 105-3222●	0.640	0.520	0.450	– –
6	ST	6	SOT-23	Very Low Capacitance ESD Protection for High Speed Interfaces	USBLC6-2SC6	SMD 126-9406●	0.800	0.630	0.510	0.450
12	PS	28	SOIC	USB Interface Device with Parallel Bus	PDIUSBD12D.112	SMD 880-0537●	2.120	1.770	1.510	– –
20	FCH	10	MSOP	Low Power 1-Port Hi-Speed USB (480Mbps) Switch	FSUSB20MUX	SMD 149-5464●	1.080	0.780	0.650	0.490
23	MCHIP	18	DIP	8-Bit Expander, I/O, Spi I/F	MCP23S08-E/P	133-2091●	0.760	0.630	0.410	– –
23	MCHIP	18	SOIC	8-Bit Expander, I/O, SPI I/F	MCP23S08-E/SO	SMD 133-2092●	0.960	0.530	0.460	– –
23	MCHIP	28	SOIC	16-Bit Expander, I/O, SPI I/F	MCP23S17-E/SO	SMD 133-2093●	1.090	0.630	0.540	– –
30	FCH	10	MSOP	Low Power 2-Port Hi-Speed USB 2.0 (480 Mbps) Switch	FSUSB30MUX	SMD 149-5465●	1.120	0.810	0.680	0.510
40	FCH	10	MicroPak	Low Power 2-Port, Hi-Speed USB2.0 (480Mbps) Switch, bi-directional, Con 5.5pF	FSUSB40L10X	SMD 149-5466●	0.930	0.680	0.610	0.530
42	FCH	10	UMLP	Low Power 2-Port, Hi-Speed USB2.0 (480Mbps) Switch, bi-directional, Con 3.7pF	FSUSB42UMX	SMD 149-5467●	0.930	0.680	0.610	0.530
74	ST	8	SOT-23	Log Dual Bus BUFFER	74V2T126STR	SMD 128-8482● RL	0.410	0.290	0.200	0.168
78	TER	100	LQFP	Multi-Media Offload Controller (MAC + PHY)	78Q8430-100CGT/F	SMD 157-4550●	6.180	4.950	4.130	3.530
82	NXP	8	SOIC	I²C Bus Extender	P82B715TD,112.	SMD 890-6050▲	3.610	3.160	2.680	1.960
82	NXP	8	SOIC	Dual Bi-directional Bus Buffer	P82B96TD,112	SMD 890-6068●	2.900	2.110	1.600	– –
82	NXP	8	SOIC	BUS EXTENDER, I2C, 8SOIC	P82B715TD,112	NEW SMD 162-7047●	2.810	2.240	1.880	1.610
82	NXP	8	SOIC	BUS EXTENDER, I2C, 8SOIC	P82B715TD,118	NEW SMD 162-7048●	2.810	2.240	1.880	1.610
221	FCH	10	MSOP	USB 2.0 Hi-Speed and Audio DPDT Switch w/ Negative Signal Capability	FSA221MUX	SMD 149-5450●	0.910	0.660	0.600	0.520
950	TI	48	LQFP	Serial Interrupt Stream Deserializer	PCI950PT	NEW SMD 159-7927●	2.820	2.240	1.870	1.600
1002	TI	24	QFN	Dual Signal Conditioning Transceiver	TLK1002ARGET	NEW SMD 157-6959●	9.560	7.170	6.150	5.980
1023	NXP	16	SOIC	I/O Slave	UJA1023T/2R04,512	NEW SMD 160-3692●	2.860	1.920	1.520	– –
1080	NXP	20	SSOP	FlexRay Transceiver, 10MBPS	TJA1080TS,112	NEW SMD 160-3690●	5.150	3.440	2.750	– –
1362	NXP	64	LQFP	Controller USB, On-The-Go	ISP1362BD,157	NEW SMD 162-7045●	5.510	4.410	3.670	3.150
1760	NXP	128	LQFP	Hi-Speed Universal Serial Bus host controller for embedded applications	ISP1760BE	SMD 150-6631●	6.590	4.490	4.100	– –
2036	TI	32	LQFP	USB HUB, 2/3-PORT, 32LQFP	TUSB2036VF	NEW SMD 161-0199●	1.740	1.160	0.910	– –
2046	TI	32	QFN	USB HUB, 4-PORT, 32QFN	TUSB2046BIRHBT	NEW SMD 161-0201●	2.030	1.370	1.080	– –
2103	SLAB	28	QFN	USB-UART BRIDGE	CP2103-GM	SMD 129-1538●	4.360	3.250	2.590	– –
2200	SLAB	48	TQFP	Single-Chip Ethernet Controller	CP2200-GQ	SMD 118-6938●	6.550	5.120	3.930	– –
2201	SLAB	28	QFN	Single-Chip Ethernet Controller	CP2201-GM	SMD 118-6939●	5.580	4.350	3.320	– –
2212	TI	48	FBGA	PCI Express Signal Switch	TS2PCIE2212ZAHR	NEW SMD 159-7920●	2.350	1.860	1.560	1.340
2521	TI	64	HTQFP	Multi-gigabit transceiver	TLK2521IPAP	NEW SMD 157-6978●	18.240	13.680	11.740	11.410
2701	TI	64	HVQFP	1.6 to 2.7 GBPS Transceiver	TLK2701IRCP	NEW SMD 157-6965●	18.240	13.680	11.740	11.410
3210	TI	64	LQFP	CONTROLLER, USB, 64LQFP	TUSB3210PM	NEW SMD 161-0202●	3.320	2.770	2.190	– –
3410	TI	32	LQFP	CONTROLLER, SERIAL-TO-USB, 32LQFP	TUSB3410IVF	NEW SMD 161-0203●	3.320	2.770	2.190	– –
5601	TI	28	SOIC	18-LINE 5V SE TERMINATOR for SCSI AND FAST SCSI	UC5601DWPG4	SMD 123-4991●	7.930	5.540	4.260	3.780
5630	TI	36	SSOP	9 LINE 2.7-5V MULTIMODE TERMINATOR for SCSI THROUGH ULTRA320 SCSI	UCC5630AMWPTRG4	SMD 128-7691●	3.140	2.280	1.720	1.470
5780	NXP	8	SOIC	Transceiver SAE/J1850/VPW	AU5780AD,112	NEW SMD 160-3691●	2.350	1.570	1.260	– –
6408	TI	16	TSSOP	8Bit Two-line Bidirectional 400kHz I2C & SMBus I/O Expander	TCA6408PW	NEW SMD 160-3397●	1.470	1.340	1.220	1.130
6678	NSC	24	LLP	Low Power 2-Channel Central-Office xDSL Driver	LMH6678LQ	SMD 818-1314●	2.840	2.420	1.930	– –
6934	CYP	48	QFN	Wireless USB LS 2.4GHz DSSS Radio SoC	CYWUSB6934-48LFXC	SMD 891-1614●	6.630	3.640	3.140	– –
6935	CYP	–	–	WirelessUSB LS™ Radio Module (62.5KBPS, 50m)	CYWM6935	132-1748●	8.880	– –	– –	– –
6935	CYP	–	–	WirelessUSB LS™ Radio Module (62.5KBPS, 500m)	CYWM6935PAEC	132-1749●	15.460	– –	– –	– –
6935	CYP	48	QFN	Wireless USB LR 2.4GHz DSSS Radio SoC	CYWUSB6935-48LFXC	SMD 891-1622●	9.800	5.170	3.990	– –

RL Re-reeling available

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+
6936	CYP	40	QFN	Wireless USB LP 2.4 GHz Radio SoC	CYRF6936-40LFXC	SMD 147-2500●	2.650	1.990	1.600	– –
8041	MICR	32	QFN	10BASE-T/100BASE ETHERNET TRX	KSZ8041NL	SMD 129-2991●	2.180	1.750	1.460	1.250
8101	TI	20	SOIC	Dual-Channel Knock Sensor Interface	TPIC8101DW..	NEW SMD 162-4395	4.600	3.650	2.820	2.470
8574	NXP	20	SSOP	EXPANDER, GPIO	PCF8574TS/3,112	NEW SMD 162-7052●	1.210	0.970	0.810	0.690
8575	NXP	24	SSOP	EXPANDER, GPIO	PCF8575TS/1,112	NEW SMD 162-7054●	1.480	1.180	0.990	0.850
8584	NXP	20	DIP	I²C Bus Controller	PCF8584P,112	890-6220●	4.120	3.010	2.280	– –
9306	TI	8	VSSOP	Dual Bi-Directional I2C-Bus and SMBus Voltage Level-Translator	PCA9306DCUTE4	SMD 105-3573●	0.570	0.450	0.380	– –
9535	NXP	24	TSSOP	EXPANDER, GPIO	PCA9535PW,112	NEW SMD 162-7049●	1.460	1.160	0.970	0.840
9554	NXP	16	TSSOP	EXPANDER, GPIO	PCA9554PW,112	NEW SMD 162-7050●	1.150	0.920	0.770	0.660
9555	NXP	24	SOIC	16-Bit I²C and SMBus I/O Port With Interrupt	PCA9555D,112	SMD 890-6076▲	1.410	1.030	0.780	– –
9555	NXP	24	TSSOP	16-Bit I²C and SMBus I/O Port With Interrupt	PCA9555PW,112	SMD 890-6084●	1.410	1.030	0.780	– –
9564	NXP	20	SOIC	Parallel Bus to I²C Bus Controller	PCA9564D,112	SMD 890-6092▲	3.930	3.130	2.610	– –
9603	NSC	28	SOIC	USB node controller With DmA support, compatible With versions 1.0, 1.1	USBN9603-28M	SMD 121-4542●	3.700	2.710	2.060	– –
9604	NSC	28	WSOIC	USB Node Controller with Enhanced DMA Support	USBN9604-28M/NOPB	NEW SMD 156-4747●	4.810	3.960	3.150	2.990
9604	NSC	28	SOIC	USB node controller With DmA support, compatible With versions 1.0, 1.1, reset With clock stall	USBN9604-28M	SMD 121-4543●	5.130	4.200	3.850	– –
22800	CYP	8	SOIC	Multi-function clock generator with PLL VCXO technology	CY22800FXC	SMD 132-1697●	1.660	1.340	1.140	– –
23008	MCHIP	18	SOIC	8-Bit Expander, I/O, I2C I/F	MCP23008-E/SO	SMD 133-2086●	0.750	0.500	0.420	– –
23017	MCHIP	28	SOIC	16-Bit Expander, I/O, I2C I'F	MCP23017-E/SO	SMD 133-2087●	1.060	0.600	0.520	– –
23017	MCHIP	28	DIP	16-Bit Expander, I/O, I2C I/F	MCP23017-E/SP	133-2088●	1.060	0.600	0.520	– –
30011	ZMD	8	SOP	1.3 & 2.0 LIN Transceiver	ZMD30011BAG1-T	SMD 134-4124●	1.520	1.260	1.060	0.940
33661	FSL	8	SOIC	LIN Enhanced Physical Interface with Selectable Slew Rate	MCZ33661EFR2	NEW SMD 165-9659●	1.380	1.160	0.920	– –
33661	FSL	8	SOICN	100kbps LIN Enhanced Physical Interface with Selectable Slew Rate	MCZ33661EF.	NEW SMD 156-6185●	0.690	0.620	0.510	0.470
33780	FSL	16	SOIC-W	Dual DBUS Master with Differential Drive & Frequency Spreading	MCZ33780EG.	NEW SMD 156-6186●	4.270	3.790	3.100	2.840
33884	FSL	24	SOIC-W	Switch Monitor Interface	MCZ33884EG.	NEW SMD 156-6187●	1.790	1.580	1.290	1.190
33990	FSL	8	SOICN	10.4 kbps Enhanced Class B Serial Transceiver	MCZ33990EF.	NEW SMD 156-6194●	1.430	1.120	0.910	0.760
65220	TI	6	SOT-23	Single Universal Serial Bus Port Transient Suppressor	SN65220DBVRG4	SMD 123-4920●	0.480	0.370	0.300	0.260
67200	CYP	48	FBGA	EZ-OTG(TM) Programmable USB On-The-Go Host/Peripheral Controller	CY7C67200-48BAXI	SMD 126-9127●	8.640	5.460	4.330	– –
68000	CYP	56	VFBGA	MoBL-USB™ TX2 USB 2.0 UTMI Transceiver	CY7C68000A-56BAXC	SMD 126-9128●	2.360	1.750	1.400	– –
68000	CYP	56	QFN	MoBL-USB™ TX2 USB 2.0 UTMI Transceiver	CY7C68000A-56LFXC	SMD 126-9129●	2.220	1.620	1.410	– –
68024	CYP	56	QFN	EZ-USB NX2LP™ USB 2.0 NAND Flash Controller	CY7C68024-56LFXC	SMD 126-9142●	7.470	4.690	3.790	– –
68033	CYP	56	QFN	EZ-USB NX2LP-Flex™ Flexible USB NAND Flash Controller	CY7C68033-56LFXC	SMD 126-9143●	10.130	6.310	4.990	– –
68034	CYP	56	QFN	Flexible USB NAND Flash Controller	CY7C68034-56LFXC	SMD 126-9144●	11.740	7.600	6.170	– –
68300	CYP	56	QFN	EZ-USB AT2™ USB 2.0 to ATA/ATAPI Bridge	CY7C68300B-56LFXC	SMD 126-9145●	6.240	3.910	3.170	– –
68300	CYP	56	SSOP	EZ-USB AT2™ USB 2.0 to ATA/ATAPI Bridge	CY7C68300B-56PVXC	SMD 126-9146●	6.490	4.080	3.270	– –
68301	CYP	56	QFN	EZ-USB AT2™ USB 2.0 to ATA/ATAPI Bridge (Low Power)	CY7C68301B-56LFXC	126-9147●	2.400	– –	– –	– –
68301	CYP	56	SSOP	EZ-USB AT2™ USB 2.0 to ATA/ATAPI Bridge (Low Power)	CY7C68301B-56PVXC	SMD 126-9149●	6.510	4.200	3.400	– –
68321	CYP	100	TQFP	EZ-USB AT2™ USB 2.0 to ATA/ATAPI Bridge With support for HID interface or custom GPIOs (Low Power)	CY7C68321-100AXC	SMD 126-9151●	8.830	5.540	4.490	– –
68321	CYP	56	QFN	EZ-USB AT2™ USB 2.0 to ATA/ATAPI Bridge With support for HID interface or custom GPIOs (Low Power)	CY7C68321-56LFXC	SMD 126-9152●	8.610	5.410	4.370	– –
83847	NSC	56	LLP	DsPHYTER II - Single 10/100 Ethernet Transceiver	DP83847ALQA56A	SMD 761-3696●	4.890	4.040	3.150	– –
83848	NSC	48	LQFP	10/100 Ethernet, Physical Layer	DP83848CVV	SMD 128-6816●	3.040	2.400	2.240	2.180
83848	NSC	48	LQFP	10/100 Ethernet, Physical Layer	DP83848IVV	SMD 128-6817●	4.510	3.160	2.690	2.620
83849	NSC	80	TQFP	PHYTER Dual Port 10/100 Mb/s Ethernet Physical Layer Transceiver	DP83849CVS	SMD 127-1400●	6.710	4.780	3.910	3.690
83865	NSC	128	PQFP	Gig PHYTER V 10/100/1000 Ethernet Physical Layer	DP83865DVH	SMD 823-8600●	26.540	21.980	17.960	– –

Communications - USB / UART/ RS-232

USB / Ethernet-Solved Development Kit

cyan

New



The USB / Ethernet-Solved Development Kit allows projects based around USB and Ethernet to be created quickly and easily. It builds on the USB-Solved™ and Ethernet-Solved™ frameworks to give complete solutions in a matter of minutes. Add USB or Ethernet functionality to an existing embedded system, or create new solutions using this development kit as a foundation.

Features:
- Cy-Solved™ solution for Ethernet and USB embedded applications
- Ready-to-Run eCOG1X microcontroller project example templates including webserver utilising FAT file system on USB memory stick
- Easy customisation using free of charge CyanIDE®2 tools
- Drag and drop software components, including USB and Ethernet stacks
- Includes unrestricted CyanIDE2 IDE, compiler, toolchain and high speed eICE dongle

518816

Mftrs. List No.	Description	Order Code	Price Each
DEVKIT1X-USB/ETHERNET	USB / Ethernet-Solved Development Kit	163-0913●	61.58

CY3674 EZ-USB FX1 Development Kit



The development kits for the EZ-USB FX1™ family provide complete hardware and software solutions for accelerating the firmware and device driver development for all the products in the family. The development kits use the actual silicon for the entire development.

Kit Includes:
- EZ-USB Development Board with CY7C64713-128AXC
- Peripheral Board for Prototyping
- USB Cable
- RS232 9-pin to 9-pin Cable

493472

Mftrs List No.	Description	Order Code	Price Each
CY3674	EZ-USB FX1 Development Kit	132-1706●	354.13

HIgh Speed USB to ATA Reference Design Kit with EZ-USB AT2LP



This HIgh Speed USB to ATA Reference Design Kit supports the EZ-USB AT2LP (CY7C68320/CY7C68300B) products.

Kit Includes:
- Evaluation Board with CY7C68320 (EZ-USB AT2LP)
- ATA cable
- 40-pin to 44-pin adapter
- "Y" power adapter cable
- USB cable
- CY4615B Release Notes
- EZ-USB AT2LP Datasheet
- CD-ROM

496621

Mftrs List No.	Description	Order Code	Price Each
CY4615B	HIgh Speed USB to ATA Reference Design Kit with EZ-USB AT2LP	132-1724●	177.31

CY4640 EZ-Host Mass Storage Reference Design



The CY4640 mass storage reference design is built on the highly flexible CY7C67300 EZ-Host device. It enables users to easily build applications that exchange data with USB mass storage class devices, such as digital still cameras, MP3 players, NAND Flash drives, hard disk drives, and flash card readers. A robust set of API at both the File I/O and SCSI layers shortens development time and enables engineers to build their products with minimal or no knowledge of USB, the mass storage device class, or even the file system.

RL Re-reeling available

Farnell

Communications - USB / UART/ RS-232 - continued

CY4640 EZ-Host Mass Storage Reference Design - continued

493663

Mftrs List No.	Description	Order Code	Price Each
CY4640	EZ-Host Mass Storage Reference Design	132-1727●	183.75

Kit Includes:
- Z-Host Development Style Board
- Daughter Board (With Easy Connection of a 2.5" Hard Drive to Standard 40-pin ATA Header)
- Compiler, Assembler, Linker & Debugger
- Integrated Development Environment
- All necessary cables and Power Supplies

£€ 40,000 PRICES REDUCED

USB-to-UART/FIFO Interfaces



32-Pin LQFP Package



48-Pin LQFP Package


USB TO RS232 Serial Converter Cable


USB To TTL Level Serial Converter Cable

This range of USB-to-UART/FIFO controllers are designed to have a high functionality as well as a low component count. A number of configurations are available. All are USB2.0 compatible and also UHCI/OHCI and EHCI controller compatible. They include an integrated an Intergrated 6MHz -48MHz clock multiplier and use a 4.35 to 5.25V single supply operation.

Features:
- Integrated 3.3V Regulator for USB I/O
- EEPROM programmable on-board vis USB
- Data transfer rate upto 1Mbps
- Full handshaking and modem interface signals
- 384byte Rx buffer/128 bute Tx buffer for high data throughput (FT232/245)
- UART interface supports 7/85 data bits, 1/2 stop bits (FT232/2232)
- Enhanced Bit-Bang Mode interface option, Multi-protocol Synchronous Serial Engine (MPSSE) interface option, MCU Host Bus Emulation Mode option (FT2232)

407781

Pins	Package	Description	Mftrs. List No.	Order Code	1+	Price Each 10+	100+
32	LQFP	USB UART - Asynchronous Serial Data Transfer	FT232BL/TR	SMD 951-9769●	4.43	3.78	3.31
28	SSOP	USB to serial UART interface.	FT232RL	SMD 114-6032●	3.55	2.95	2.50
32	QFN	USB to serial UART interface.	FT232RQ	SMD 114-6033●	3.55	2.95	2.50
32	LQFP	USB FIFO - Parallel FIFO Bidirectional Data Transfer.	FT245BL/TR	SMD 951-9785●	4.43	3.78	3.31
28	SSOP	USB to parallel FIFO interface	FT245RL	SMD 114-6034●	3.55	2.95	2.50
32	QFN	USB to parallel FIFO interface	FT245RQ	SMD 114-6035●	3.55	2.95	2.50
48	LQFP	Dual USB UART/FIFO	FT2232D/TR	NEW SMD 161-5843●	6.07	5.18	4.61
–	–	USB To RS232 Serial Converter Cable.	US232R-100	132-9310●	16.47	– –	– –
–	–	USB To TTL Level Serial Converter Cable	TTL-232R-3V3	132-9311●	12.61	– –	– –

V-Eval Development Board



New

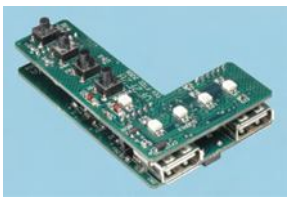
The V-Eval Kit is a hardware platform that designers can use to develop embedded USB host systems based on FTDI's VNC1L devices. Designs can be rapidly debugged using the "spy" mode of the supplied V-Eval software which displays the data sent between the VNC1L UART and a controller UART, for example a PIC.

Features:
- Inbuilt VNC1L USB device programmer/ terminal emulator/command monitor hardware
- Two VNC1L USB Host/Slave ports
- Generous prototyping area for standard DIP and SIL devices
- Multiple IO port connectors grouped by port name and/or function
- LEDs and switches for user interaction
- PS/2 keyboard and mouse ports
- Downloadable programming, terminal emulation and debug monitor software
- Downloadable HID class example project (VNC1L controlled USB rocket launcher) including PIC source code in C

515291

Mftrs. List No.	Description	Order Code	Price Each
VEVAL	Development Platform	161-5837●	60.59

VF2F2 Reference Design Board



New

The VF2F2 is a reference design for a VNC1L based stand-alone application. VF2F2 illustrates how to construct a file back up device for a digital camera with a USB Mass Storage Class interface. At the push of a button, all the picture files on the camera are copied to a unique folder of a USB Flash drive so that the digital camera memory can be re-used to take further pictures.

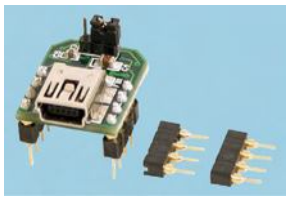
This is an ideal accessory for digital camera users who wish to backup their photos on the road without having to carry a notebook PC, or for people who want to share or swap their photos without requiring a card reader. VF2F2 is powered by two AAA size alkaline batteries.

Features:
- Two USB "A" sockets connect to Digital Camera and USB Flash Drive respectively
- Uses FTDI's VNC1L device
- Single button file backup function
- Intelligent LEDs illustrate successful drive enumeration, file copy function & error conditions
- Onboard DC-DC converter supplies the circuitry with 5V & 3.3V power from 2x AAA cells
- Schematics, firmware and PCB Gerber files available for download

515286

Mftrs. List No.	Description	Order Code	Price Each
VF2F2	Reference Design Kit	161-5836●	31.83

UB232R Mini Evaluation Module



New

The UB232R is ideal for new development purposes and also for adding a USB interface to existing product designs.
Based on the FT232RQ device, the UB232R supports RTS/CTS hardware handshaking and is powered from the USB port. Serial data communication is possible at up to 3MBaud at TTL level. In addition, two of the EEPROM configurable CBUS pins of the FT232R are brought out allowing the UB232R to be used to provide clock signals to external logic or signal traffic indicator LEDs.

Includes:
- Two 1x4 turned pin board headers with a standard 0.1" pitch

515293

Mftrs. List No.	Description	Order Code	Price Each
UB232R	Mini Evaluation Module	161-5840●	18.21

Need a better price?

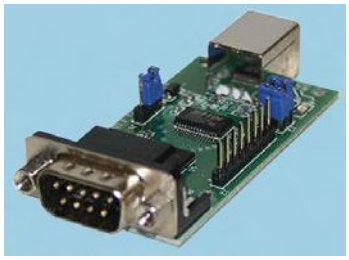


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RL Re-reeling available

EVAL 232R Development and Evaluation Module



The EVAL232R is a USB to RS232 development and evaluation module for the FT232RL IC device. Additional header pins on the board provide access to the FT232RL device's configurable CBUS interface pins. Powered from USB, the EVAL232R supports both 5V and 3V level IO interface voltage on the CBUS via a jumper setting. Full RTS/CTS, and DTR/DSR hardware handshaking are supported, DCD and RI are also available. RS232 communication is possible at up to 250kBaud. LEDs are fitted to indicate activity on the FT232RL's TXD and RXD lines, thus showing when the module is transmitting, or receiving data.

Features:
- Data transfer rates from 300 baud to 1 Megabaud at RS232 levels
- Configurable CBUS I/O pins
- Device supplied preprogrammed with unique USB serial number
- On board jumper allows for selection of UART and CBUS interface IO voltage
- 5V / 3.3V / 2.8V / 1.8V CMOS drive output and TTL input
- Low operating and USB suspend current
- Low USB bandwidth consumption
- USB 2.0 Full Speed compatible
- -40°C to 85°C operating temperature range
- Connects to a PC via a standard USB A to B USB cable

451406

		Order Code	Price Each
EVAL232R	Development and Evaluation Module	114-6041●	14.55

MM232R Mini Development Module



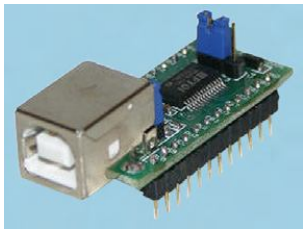
The MM232R is a mini development module for the FT232RQ IC device. It is a little bigger than a USB connector, and provides USB - Serial UART interface in an extremely small package. It is ideal for new development purposes, and also for adding a USB interface to existing product designs.Based on the FT232RQ device, the MM232R supports RTS/CTS hardware handshaking and is powered from the USB port. Serial data communication is possible at up to 3MBaud at TTL level. In addition, some of the EEPROM configurable CBUS pins of the FT232R are brought out allowing the MM232R to be used to provide clock signals to external logic.

Features:
- Entire USB protocol handled on the chip
- Configurable CBUS I/O pins
- Auto transmit buffer control for RS485 applications
- Transmit and receive LED drive signals
- Device supplied preprogrammed with unique USB serial number
- 3.3V to 5.25V Single Supply Operation
- Low operating and USB suspend current
- Low USB bandwidth consumption
- USB 2.0 Full Speed compatible
- -40°C to 85°C operating temperature range
- Connects to a PC via a standard USB A to B USB cable

451414

		Order Code	Price Each
MM232R	Mini Development Module	114-6037●	12.11

UM232R USB - Serial UART Development Module



The UM232R module is a USB - Serial UART (TTL) development module for the FT232R IC device. It is Ideal for rapid prototyping and development of FT232R designs or for incorporation into low/medium volume finished product designs.
The UM232R is supplied on a PCB designed to fit a 24-pin DIP socket, and provides access to all UART and CBUS interface pins of the FT232R device. The UM232R can be configured as either USB bus-powered or self-powered and also supports 5V or 3V level interface IOs. Full hardware handshaking is supported and the UM232R can communicate at up to 3MBaud at TTL/CMOS levels.

Features:
- Auto transmit buffer control for RS485 applications
- Transmit and receive LED drive signals
- Device supplied preprogrammed with unique USB serial number
- Support for bus powered, self powered, and high-power bus powered USB configurations
- Integrated power-on-reset circuit
- 3.3V to 5.25V Single Supply Operation
- Low operating and USB suspend current
- Low USB bandwidth consumption
- USB 2.0 Full Speed compatible
- -40°C to 85°C operating temperature range
- Connects a PC via a standard A to B USB cable

451423

		Order Code	Price Each
UM232R	USB - Serial UART Development Module	114-6036●	14.09
US232R-100	USB To RS232 Serial Converter Cable	132-9310●	16.47
TTL-232R-3V3	USB To TTL Level Serial Converter Cable	132-9311●	12.61

USB - RS232 Serial Converter Cables



US232R-10x



UC232R-10

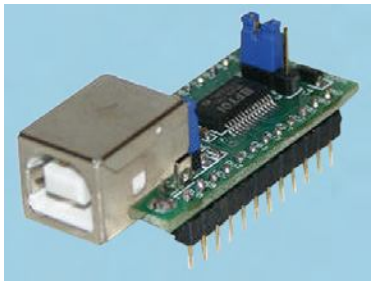
The **UC232R-10** "ChiPi" is the economy version of FTDI's USB to RS232 converter cable range. It also serves as an evaluation cable for the FT232R. It utilises the minimum number of components required for a basic USB - RS232 converter designed using the FT232RL. Using the FT232R chip combined with an RS232 level converter and a few capacitors, the UC232R-10 "ChiPi" is a CE and FCC approved product which is one of the simplest USB - RS232 solutions around.

The **US232R-10x** is FTDI's premium USB to RS232 evaluation cable which can be used for testing the functionality of the FT232R device and drivers prior to design-in.The electronics, including the FT232RQ chip are housed in an attractive glossy white enclosure with blue, side-lit LED TX and RX traffic indicators. A matching white USB cable (10 or 100cm) uses gold plated USB and DB9 connectors.It is supplied with instructions and a Drivers and Utilities CD complete with Microsoft WHQL certified VCP drivers for Windows XP. Drivers for the Apple Mac, Linux and other versions of Windows are also included on the CD.

515295

Mftrs. List No.	Description	Order Code	Price Each
US232R-10-BST	Premium USB - RS232 Serial Converter Cable - 10cm	161-5838●	24.15
US232R-100-BST	Premium USB - RS232 Serial Converter Cable - 100cm	161-5842●	22.75
UC232R-10	Economy USB - RS232 Serial Converter Cable - 10cm	161-5839●	16.98

UM245R USB-Parallel FIFO Interface Development Module



The UM245R module is a USB - Parallel FIFO interface (TTL) development module for the FT245R IC device. It is Ideal for rapid prototyping and development of FT245R designs or for incorporation into low/medium volume finished product designs.
The UM245R is supplied on a PCB designed to fit a 24 pin DIP socket, and provides access to all FIFO interface and control pins of the FT245R device. The UM245R can be configured as either USB bus-powered or self-powered and also supports 5V or 3V level interface IOs. It can transfer data at up to 1 MegaByte per second.

Features:
- Single chip USB to parallel FIFO bidirectional data transfer interface
- FIFO receive and transmit buffers for high data throughput
- Device supplied preprogrammed with unique USB serial number
- Integrated power-on-reset circuit
- 3.3V to 5.25V Single Supply Operation
- Low operating and USB suspend current
- Low USB bandwidth consumption
- USB 2.0 Full Speed compatible
- - 40°C to 85°C operating temperature range
- Connects to a PC via a standard A to B USB cable

451433

		Order Code	Price Each
UM245R	USB-Parallel FIFO Interface Development Module	114-6039●	14.09

Embedded USB Host Controller and Dev Module



VDIP1



VNC1L

The VDIP1 module is an MCU to embedded USB host controller development module for the VNC1L device. It is supplied on a PCB designed to fit into a 24 pin DIP socket, and provides access to the UART, parallel FIFO, and SPI interface pins on the VNC1L device, via its AD and AC bus pins.
The VNC1L is able to handle the USB Host Interface, and data transfer functions. Owing to the inbuilt MCU and embedded Flash memory, it can encapsulate the USB device classes as well.

RL Re-reeling available

Farnell

Communications - USB / UART/ RS-232 - continued

Embedded USB Host Controller and Dev Module - continued

When interfacing to mass storage devices it also transparently handles the FAT File structure; communicating via UART, SPI or parallel FIFO interfaces via a simple to implement command set.

493096

Pins/Pkg	Description	Mftrs. List No.	Order Code	Price Each
48/LQFP	Embedded USB Host Controller	VNC1L	SMD 132-9312 ●	10.75
–	Vinculum VNC1L Development Module	VDIP1	132-9313 ●	15.45

VDrive2 Module



The VDRIVE 2 is possibly the easiest solution for adding a USB Flash drive interface to existing products. Only four signal lines plus 5V/GND require to be connected. Using the VDAP firmware, the interface can be selected between UART or SPI modes using the on-board jumpers.
It is ideal for use in commercial products such as domestic goods, set top box, etc. as well as industrial products such as data loggers, software upgradeable products, etc.

Features:
- Uses VNC1L embedded USB host controller IC device
- One USB "A" socket to connect to USB Flash disk
- Traffic indicator LED
- 2mm pitch 8-pin connector
- 8-way header interconnect cable provided
- Jumper selectable UART or SPI interface
- Single 5V supply input
- Uses VDAP firmware and command set
- Enclosure with snap in place clips allows for easy front panel mounting
- Program or update firmware via USB Flash disk or UART interface
- VNC1L firmware programming control pins PROG# and RESET# brought out onto internal jumper interface

515251

Mftrs. List No.	Description	Order Code	Price Each
VDRIVE2	VDRIVE2 Interface Module	161-5834 ●	25.48

VMusic2 Module



VMUSIC2 lets the user add USB Flash drive interfacing to their product and allows playback of MP3 and other popular digital music formats direct from a USB Flash drive. Extensions to the VDAP command set allow you to play a selected file as well as control the volume, balance, etc. of the sound channel and monitor the status of the file being played. It is ideal for adding MP3 playback from USB drive capability to home entertainment and in-car audio systems, as well as other appliances requiring audio playback capability from USB Flash drives.

Features:
- Uses FTDI's VNC1L device coupled with VLSI VS1003 IC for music playback
- One USB "A" socket to connect to USB Flash drive
- Audio line-out connector for audio playback
- Stereo 3.5mm headphone jack socket and audio line-out connector for audio playback
- Jumper selectable UART or SPI interface
- 2mm pitch 8-pin connector
- Single 5V supply input
- Traffic indicator LED
- Uses extended VDAP command set
- Program or update firmware via USB Flash disk or via UART interface
- VNC1L firmware programming control pins PROG# and RESET# brought out onto internal jumper interface

515273

Mftrs. List No.	Description	Order Code	Price Each
VMUSIC2	VMUSIC2 Interface Module	161-5835 ●	39.01

E-blocks USB 232 Interface board EB039

This interface board allows you to easily add a USB communications interface to your project. The board contains a FTDI FT232BL interface chip which provides an interface between a USB interface and a microcontroller UART using RS232 protocols. A virtual COM port driver is available which allows you to interface the board to Windows, MAC and Linux based applications including Visual Basic and Visual C++ etc. The FTDI device is able to communicate with data transfer speeds of up to 3M baud.

- Provides a USB PC interface for all your projects
- Data transfer rates of up to 3M baud
- E-blocks compatible
- USB 1.0 and USB 2.0 compatible

475505

	Mftrs. List No.	Order Code	Price Each
E-BLOCKS USB 232 INTERFACE	EB039	138-2377 ●	25.00

EZ-USB FX2LP Development Kit



The CY3684 development kit for the EZ-USB FX2LP™ family provides complete hardware and software solutions for accelerating the firmware and device driver development for all of the products in the family. The development kit use the actual silicon for the entire development. Included is an evaluation version of the 8051 Keil Software Tools.

Kit Includes:
- EZ-USB development board with CY7C68013A-128AXC
- Peripheral Board for Prototyping
- USB Cable
- RS232 9-pin to 9-pin Cable

493516

Mftrs List No.	Description	Order Code	Price Each
CY3684	EZ-USB FX2LP Development Kit	132-1709 ●	354.13

EZ-USB NX2LP-Flex™ USB 2.0 Development Kit



This development kit allows scalable testing and evaluation of the Cypress EZ-USB NX2LP-Flex NAND Flash Controller device (CY7C68033 and CY7C68034) with different NAND flash devices. The hardware platform is designed to support between 1-8 single-device NAND flash chips, or 1-4 dual-device NAND flash chips for scalable density testing. Included is a Device Programming Utility that allows easy NAND flash configuration during the design and manufacturing process.

Kit Includes:
- EZ-USB NX2LP-Flex DVK Platform Board
- EZ-USB FX2LP Base Board
- Prototyping Board
- EZ-USB NX2LP-Flex DVK CD-ROM
- USB Cable (Type A-to-type B)
- Documentation Packet

493545

Mftrs List No.	Description	Order Code	Price Each
CY3686	EZ-USB NX2LP-Flex(TM) USB 2.0 Development Kit	132-1712 ●	502.70

USB to Serial Interfaces

USB-232, SPI & I²C

USB-232 is a single chip USB to asynchronous serial interface. It greatly simplifies the connection of electronic devices to personal computer. In addition tothe standard signal lines, additional control lines have custom-defined functionality.
USB-SPI is a single chip USB to synchronous serial SPI slave interface. It greatly simplifies the connection of personal computer to a microcontroller capable of communicating in SPI master mode. In addition to the standard 4 SPI control lines, 11 additional Virtual I/O lines have custom-defined functionality.
USB-I2C is a single chip USB to synchronous serial I2C slave interface. It greatly simplifies the connection of personal computer to a microcontroller capable of communicating in I2C master mode. In addition to the standard 2 I2C control lines, 11 additional Virtual I/O lines have custom-defined functionality.
All these devices use the Human Interface Device (HID) USB profile. they does not require USB driver installation, therefore are compatible with present and future Windows, Linux and Mac operating systems.

525832

Mftrs List No.	Description	Order Code	Price Each
USB-232-DIL	Pre-Programmed 28-Pin DIL	167-0824 ●	4.64
USB-232-SS	Pre-Programmed 20-Pin SSOP	SMD 167-0825 ●	3.55
USB-SPI-DIL	Pre-Programmed 28-Pin DIL	167-0826 ●	5.82
USB-SPI-SS	Pre-Programmed 20-Pin SSOP	SMD 167-0828 ●	3.55
USB-I2C-DIL	Pre-Programmed 28-Pin DIL	167-0829 ●	5.82
USB-I2C-SS	Pre-Programmed 20-Pin SSOP	SMD 167-0830 ●	3.55

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MA180021 PIC18F87J50 Full Speed USB Plug-In Module



New

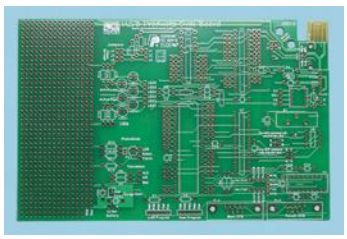
The PIC18F87J50 FS USB Plug-In Module (PIM) Demonstration Board and Kit is designed as an easy-to-use evaluation platform for Microchip's Full-Speed USB PIC18F87J50 family of microcontrollers. The PIM may be operated either stand-alone, or in conjunction with the HPC Explorer board.
These devices fully support USB 2.0 full-speed and low-speed serial communications at signalling speeds of 12 Mbit/s or 1.5 Mbit/s. The demonstration kit provides all of the hardware and software needed to develop officially compliant USB communication solutions.

Features:
- PIC18F87J50 FS USB Plug-In Module demonstration board, preprogrammed with USB Human Interface Device (HID) class mouse demonstration firmware
- A standard USB mini-B cable for power and communication
- PICDEM FS USB Starter Kit CD-ROM, containing USB firmware projects, Microchip's custom class USB driver and USB-specific documentation including user guide

499221

		Order Code	Price Each
MA180021	Full Speed USB Plug-In Module	154-0969●	28.61
AC164110	RJ-11 to ICSP Adapter	154-0971●	7.15

USB Evaluation Board



New

The USB Evaluation Board is a circuit board for evaluating USB products from Firmware Factory. In any given evaluation, only a small proportion of the components will be fitted. For this reason it is supplied unpopulated and uses through-hole components for easy manual construction.

The unpopulated board includes provision for:
- 20-pin, 28-pin and 40-pin DIL USB devices
- Type B socket, suitable for standard USB cables
- Type A plug, suitable for USB extension cables
- Prototyping area
- RS232 line driver, 9-pin sockets in DTE and DCE configurations
- RS485 line driver
- Coin cell battery
- SPI serial memory
- 28-pin DIL host processor
- 3 active low LEDs
- 3 active high LEDs
- 3 jumpers
- Photodiode
- Thermistor

525812

Mftrs List No.	Description	Order Code	Price Each
USB-EVAL	USB Evaluation Board	167-0838●	18.19

USB host, peripheral and On-The-Go controllers

New

- The OXU210HP is a single-chip, high-speed USB host and high-speed USB peripheral controller with integrated transceivers. It is the fourth controller in the family of integrated, low-cost, high-performance, On-The-Go controllers that have been specifically designed for embedded systems
- The OXU140CM is a single-chip USB On-The-Go controller that incorporates a full-speed host controller, a high-speed peripheral controller and multi-storage interface support, which includes a CE-ATA HDD controller and a MMC/SD memory controller
- The OU121HP is a single-chip full-speed host, high-speed peripheral and On-the-Go controller enabling embedded systems to operate as both USB host and peripheral. The combination of the high-speed peripheral and full-speed host controller enables users to perform high speed USB data transfer for peripheral connectivity when connected to a host device, while operating at full speed in host mode operation to maximize system battery life in a mobile environment
- The OXU200 is a low-cost, single-port, USB high speed peripheral controller that enables embedded systems to perform high-speed USB data transfer for peripheral connectivity when connected to a USB host
- The TD242LP allows products to operate as either a USB host or a USB peripheral, and can perform both functions simultaneously, enabling many new applications for USB, especially in low power, mobile markets
- The TDUHC122 is a two-port, single chip USB host controller. It is a non-PCI controller that supports full speed(12Mb/s) and low-speed (1.5Mb/s) USB devices. It can be interfaced to CISC or RISC microprocessors, microcontrollers, or DSP's and is ideal for providing USB host functions to a wide range of applications.

509377

Pkg/Pins	Description	Operating Temperature	Mftrs.List No.	Order Code	Price Each 1+	10+	100+
LQFP / 128	USB high-speed host, peripheral and OTG controller	-40 to 85°C	OXU210HP-LQBG	SMD 158-1461●	9.45	6.87	5.82
LQFP / 128	USB OTG full-speed host, high-speed peripheral controller with multi-storage Interface	-40 to 85°C	OXU140CM - LQCG	SMD 158-1463●	8.67	6.31	5.34
LQFP / 100	USB full-speed host, high-speed peripheral and OTG controller	-40 to 85°C	OXU121HP - LQBG	SMD 158-1464●	7.97	5.80	4.91
LQFP / 100	USB high-speed peripheral controller	-40 to 85°C	OXU200 - LQAG	SMD 158-1465●	5.10	3.72	3.15
LQFP / 64	USB low power full-speed host, peripheral and OTG controller	-40 to 85°C	TD242LP	SMD 158-1468●	5.83	4.24	3.59
LQFP / 64	2 port embedded USB host controller	-40 to 85°C	TDUHC122 0F0C	SMD 158-1469●	5.10	3.72	3.15

USBIO24 Digital I/O Module



The USBIO24 module is designed to facilitate the input and/or output of digital signals from a computer system by connection to the USB port. The module features 24 5V level signal lines individually programmable as input or output as well as capabilities for further expansion via the expansion port. As the module connects to the USB port, multiple modules can be connected to a single PC by the use of a USB hub or hubs. Each module features a serial number and the PC can identify each module uniquely allowing for multiple modules to be connected for a single application. The outputs of the module are able to source or sink up to 30mA per I/O to allow for direct connection to a variety of devices.

Module Features:
- 24 independently programmable Input / Output Pins Grouped into 3 ports
- Single module High-Speed Digital Input / Output solution
- Up to 128 modules can be connected to a single PC with capabilities of further expansion
- Easy to connect by 0.1" pitch headers to suit standard IDC connectors
- Integrated Type-B USB Connector
- On-board unique serial number in EEPROM and custom programmable FLASH microcontroller
- Both USB Enumeration information and Microcontroller can be re-programmed to suit customer needs
- Module powered by the USB from the PC

Module Standard Firmware & Software:
- Virtual Comm Port driver allows access as a regular serial port
- Optional DLL based driver available
- Easy to program from popular languages C, Basic, Delphi, etc.
- Simple command set for easy control of ports and data transfer

451127

		Order Code	Price Each
USBIO24	Low-cost integrated Module for the Input and/or output of digital signals from a computer system by connection to the USB port.	114-6042●	54.35

USB-to-UART Bridge

This highly-integrated USB-to-UART bridge controller is designed to provide a simple solution for updating RS-232 designs to USB. The CP2101/2 include a USB 2.0 full-speed controller, transiever, oscillator, EEPROM and UART. The devices come in a 28-pin MLP 5x5mm package and aims to reduce the number of components and PCB space, no other external USB components are required. Also available is an evaluation kit, this includes a USB-to-UART/RS232 evaluation board, USB/RS232 cables and full documentation as well as the Virtual COM Port (VCP) drivers which are required to operate the devices. The VCP drivers work with existing COM port applications and use Linux, Macintosh or Windows (98/2000/XP) systems. Possible applications for the USB-to-UART bridge include USB to RS-232 adapters and USB to mobile phone connections.

RL Re-reeling available
Farnell

Communications - USB / UART/ RS-232 - continued

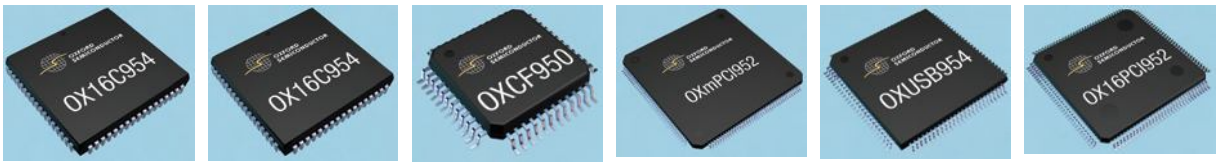
USB-to-UART Bridge - continued

404621

Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
Single-Chip USB-to-UART Bridge - 1024 bytes Flash	CP2102-GM	SMD 928-2130●	3.55	2.42	1.93	1.71	1.65
CP2102 Evaluation Kit	CP2102EK	928-2122	25.84	– –	– –	– –	– –

Multi Channel UART

OXFORD SEMICONDUCTOR



Feature	Benefit
High performance 950-type UART	High baud rates up to 15Mbps asynchronous, 60Mbps synchronous
128-byte deep transmit and receive FIFOs	Lowers CPU interrupts resulting in better performance
RS232/422/485 full & half duplex	Supports greatest range of commercial and industrial applications
8/32-bit Local Bus expansion port	Allows 8, 12, and 16 port designs
Can be configured as 16C550 16C650 or 16C750 type UART	Allows them to work with generic drivers
Optional serial EEPROM	Allows customisation - can overwrite default registry values
Meets PCI standards	Assured interoperability

Oxford Semiconductor integrates the fastest available UART's together with large transmit and receive buffers to achieve a broad portfolio of high performance serial communication bridges. The range includes PCI, miniPCI, Compact Flash and 16/32 bit PC Cards providing bridges and port expansion solutions for a wide range of products including, add-on cards, industrial PC, EPOS, network management and wireless data cards.

478254

Mftrs.List No.	Pins/Package	Description	Order Code	Price Each 1+	10+	100+	250+	500+
OX16C950-TQBG	48/TQFP	Single Channel UART	SMD 142-6627●	6.52	5.46	4.68	4.19	3.91
OX16C954-PLBG	68/PLCC	Quad Channel UART	SMD 142-6628●	12.00	10.91	9.24	8.58	8.00
OX16C954-TQBG	80/TQFP	Quad Channel UART	SMD 142-6629●	12.54	10.91	9.65	8.65	7.95
OX16PCI952-TQAG	128/TQFP	Dual Channel UART PCI to Serial	SMD 142-6630●	6.45	5.39	4.64	4.14	3.87
OX16PCI954-TQA1G	160/TQFP	Quad Channel UART PCI to Serial	SMD 142-6632●	15.55	13.53	11.96	10.72	9.85
OX16PCI958-PQAG	160/QFP	Octal Channel UART PCI to Serial	SMD 142-6633●	21.61	18.79	16.63	14.90	13.68
OXCF950-TQBG	48/TQFP	Single Channel UART PCI to PCMICA	SMD 142-6634●	6.72	5.64	4.84	4.33	4.04
OXMPCI952-LQAG	160/LQFP	Dual Channel UART PCI to Serial	SMD 142-6635●	8.25	6.91	5.94	5.31	4.95
OXMPCI954-LQAG	160/LQFP	Quad Channel UART PCI to Serial	SMD 142-6636●	13.77	11.97	10.59	9.50	8.72
OXUSB954-LQAG	100/LQFP	Quad Channel UART USB 2.0 to Serial	SMD 142-6637●	9.63	8.05	6.93	6.19	5.78

210795

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
Miscellaneous (Communications Controllers/USARTS etc.)											
3100	MAX	16	QSOP	SPI/Microwire compatible UART	MAX3100CEE+	SMD 972-5423●	5.98	4.01	2.70	– –	– –
68692	NXP	40	DIP	CMOS Dual Channel UART	SCC68692C1N40	568-764●	8.15	5.95	4.49	– –	– –
2691	NXP	28	PLCC	CMOS High Performance UART, provides full duplex operation. Programmable operating speed	SCC2691AC1A28	SMD 120-1339●	4.90	3.34	2.70	– –	– –
2691	NXP	24	DIP	CMOS High Performance UART, provides full duplex operation.Programmable operating speed	SCC2691AC1N24	120-1303●	4.81	3.28	2.75	– –	– –
2692	NXP	28	DIP	CMOS DUART, two independant communication channels, separate baud rate generators, 3 I/O pins	SCC2692AC1N28	391-505●	8.25	6.02	4.54	– –	– –
2692	NXP	40	DIP	CMOS DUART, two independant communication channels, separate baud rate generators, 15 I/O pins	SCC2692AC1N40	391-517●	6.99	5.07	3.83	– –	– –
26C92	NXP	44	PLCC	CMOS DUART, (Enhanced SCC2692)	SC26C92C1A	SMD 120-1334●	5.35	3.64	3.54	– –	– –
28C94	NXP	52	PLCC	CMOS QUART With 8byte receiver and transmitter FIFO, selectable baud rate,4 I/O pins per UART, each receiver With watchdog timer	SC28C94A1A	SMD 120-1273●	20.40	16.22	15.62	15.21	14.82
6402	INTS	40	DIP	CMOS/LSI UART, DC to 2MHz clock (125 Kilo baud)	HD3-6402R-9Z	121-6109●	7.94	7.06	5.77	5.29	4.89
8004	NXP	28	SO	IC smart card interface.	TDA8004T/C1	SMD 150-6633●	1.58	1.27	1.05	0.91	0.89
85230	ZILog	40	DIP	Enhanced CMOS Serial Communications Controller - 8MHz	Z8523008PSG	108-1876●	10.33	6.99	6.05	– –	– –
85C30	ZILog	40	DIP	CMOS Serial Communications Controller - 8MHz	Z85C3008PSG	108-1872●	7.01	4.47	3.17	– –	– –
85C30	ZILog	40	DIP	CMOS Serial Communications Controller - 10MHz	Z85C3010PSG	108-1878●	7.99	5.11	3.62	– –	– –
82B715	NXP	8	DIP	Dual Bi-directional Data and Clock Buffer. I2C Bus Extender	P82B715PN	121-1741●	3.21	2.19	1.63	– –	– –
16552	NSC	44	PLCC	CMOS DUART With FIFO, two independent communication channels, separate baud rate generators. (PLCC Package)	PC16552DV	SMD 949-0132●	8.88	7.27	6.67	– –	– –
9200	SLX	8	SOIC	CAN Bus Driver and Receiver	SI9200EY	SMD 107-7082●	4.96	3.33	2.56	1.47	1.27
16	TI	68	PLCC	Quad UART with 64Byte FIFO	TL16C754BFN	SMD 165-9627●	10.93	8.74	7.28	6.53	6.07
554	EXAR	68	PLCC	2.97V to 5.5V Quad UART With 16 byte FIFO	ST16C554DCJ68-F	SMD 109-5812●	7.66	6.40	5.49	– –	– –
550	EXAR	48	TQFP	2.97V to 5.5V UART With 16 byte FIFO	ST16C550CQ48-F	SMD 109-5811●	2.69	2.25	1.93	– –	– –
681	EXAR	40	DIP	5V Dual UART CMOS With 2 Fully Independent Full Duplex Asynchronous Communications Channels	XR88C681CP/40-F	109-5818●	5.28	4.40	3.78	– –	– –
2550	EXAR	48	TQFP	2.97V to 5.5V Dual UART With 16 byte FIFO	ST16C2550CQ48-F	SMD 109-5809●	4.91	4.09	3.51	– –	– –
16C550	NXP	44	PLCC	5 V, 3.3 V and 2.5 V UART with 16-byte FIFOs	SC16C550BIA44	SMD 129-4798●	2.34	1.91	1.38	– –	– –
16C550	NXP	48	LQFP	5 V, 3.3 V and 2.5 V UART with 16-byte FIFOs	SC16C550BIB48	SMD 129-4800●	1.88	1.53	1.29	– –	– –
16C550	NXP	40	DIP	5 V, 3.3 V and 2.5 V UART with 16-byte FIFOs	SC16C550BIN40	129-4801●	2.34	1.91	1.38	– –	– –
16C550	NXP	44	PLCC	UART with 16-byte FIFO and IrDA encoder/decoder	SC16C550IA44	129-4802●	2.19	1.65	1.25	– –	– –
16C554	NXP	80	LQFP	5 V, 3.3 V and 2.5 V quad UART, 5 Mbit/s with 16-byte FIFOs	SC16C554BIB80	SMD 129-4803●	6.80	5.70	4.90	– –	– –
16C554	NXP	68	PLCC	Quad UART with 16-byte FIFO and IrDA encoder/decoder	SC16C554DIA68	SMD 129-4804●	8.06	6.53	5.11	– –	– –
16C650	NXP	44	PLCC	UART with 32-byte FIFOs and IrDA encoder/decoder	SC16C650BIA44	SMD 129-4806●	3.94	3.19	2.50	– –	– –
16C650	NXP	48	LQFP	UART with 32-byte FIFOs and IrDA encoder/decoder	SC16C650BIB48	SMD 129-4807●	4.13	3.10	2.36	– –	– –
16C650	NXP	40	DIP	UART with 32-byte FIFOs and IrDA encoder/decoder	SC16C650BIN40	129-4808●	4.83	3.29	2.45	– –	– –
16C652	NXP	48	LQFP	5 V, 3.3 V and 2.5 V dual UART, 5 Mbit/s with 32-byte FIFOs and IrDA encoder/decoder	SC16C652BIB48	SMD 129-4809●	4.66	3.78	2.73	– –	– –
16C654	NXP	68	PLCC	5 V, 3.3 V and 2.5 V quad UART, 5 Mbit/s with 64-byte FIFOs and IrDA encoder/decoder	SC16C654BIA68	SMD 129-4810●	8.36	6.77	4.88	– –	– –
16C654	NXP	64	LQFP	5 V, 3.3 V and 2.5 V quad UART, 5 Mbit/s with 64-byte FIFOs and IrDA encoder/decoder	SC16C654BIB64	SMD 129-4811●	7.52	6.15	5.21	– –	– –
16C654	NXP	64	LQFP	5 V, 3.3 V and 2.5 V quad UART, 5 Mbit/s with 64-byte FIFOs and IrDA encoder/decoder	SC16C654DBIB64	SMD 129-4812●	8.27	6.69	5.24	– –	– –
16C750	NXP	44	PLCC	5 V, 3.3 V and 2.5 V UART with 64-byte FIFOs	SC16C750BIA44	SMD 129-4813●	4.55	3.69	2.89	– –	– –

RL Re-reeling available

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
16C750	NXP	64	LQFP	5 V, 3.3 V and 2.5 V UART with 64-byte FIFOs	SC16C750BIB64	SMD 129-4814●	4.55	3.69	2.89	– –	– –
16C752	NXP	48	LQFP	5 V, 3.3 V and 2.5 V dual UART, 5 Mbit/s with 64-byte FIFOs	SC16C752BIB48	SMD 129-4815●	4.63	3.15	2.34	– –	– –
16C754	NXP	68	PLCC	5 V, 3.3 V and 2.5 V quad UART, 5 Mbit/s with 64-byte FIFOs	SC16C754BIA68	SMD 129-4816●	8.96	7.25	5.21	– –	– –
16C754	NXP	80	LQFP	5 V, 3.3 V and 2.5 V quad UART, 5 Mbit/s with 64-byte FIFOs	SC16C754BIB80	SMD 129-4818●	8.16	6.66	5.63	– –	– –
16C450	STECH	40	DIP	CMOS UART	ST16C450CP40	120-9618●	5.97	4.73	4.08	– –	– –
16C550	TI	48	PQFP	Asynchronous communications element With autofLow control	TL16C550CIPTG4	SMD 932-4330●	2.78	2.21	1.85	– –	– –
16C550	TI	48	PQFP	Asynchronous communications element With autofLow control	TL16C550CPTG4	SMD 932-4348●	2.48	1.99	1.66	– –	– –
16C554	TI	68	PLCC	CMOS Quad UART With FIFOs	TL16C554FN	SMD 110-0960	8.60	6.22	4.59	– –	– –
16C752	TI	48	PQFP	3.3V Dual UART With 64-byte FIFO	TL16C752BPTG4	SMD 932-4356●	4.47	3.56	3.00	– –	– –
16C2550	NXP	44	PLCC	5 V, 3.3 V and 2.5 V dual UART, 5 Mbit/s with 16-byte FIFOs	SC16C2550BIA44	SMD 129-4794●	3.94	3.19	2.39	– –	– –
16C2550	NXP	48	LQFP	5 V, 3.3 V and 2.5 V dual UART, 5 Mbit/s with 16-byte FIFOs	SC16C2550BIB48	SMD 129-4795●	3.98	3.22	2.52	– –	– –
16C2550	NXP	40	DIP	5 V, 3.3 V and 2.5 V dual UART, 5 Mbit/s with 16-byte FIFOs	SC16C2550BIN40	129-4796●	3.94	3.19	2.50	– –	– –
16C2552	NXP	44	PLCC	5 V, 3.3 V and 2.5 V dual UART, 5 Mbit/s with 16-byte FIFOs	SC16C2552BIA44	SMD 129-4797●	3.94	3.19	2.30	– –	– –
26C92	NXP	44	PLCC	Dual UART	SC26C92A1A	SMD 129-4819●	5.27	5.13	5.00	– –	– –
26C92	NXP	44	DIP	Dual UART	SC26C92C1N	129-4820●	5.62	4.11	3.22	– –	– –
2692AC1A	NXP	44	PQFP	DUART	SCC2692AC1A44,512	SMD 162-7056●	7.40	5.92	4.94	4.23	3.95
28L91	NXP	44	PLCC	3.3 V or 5.0 V UART	SC28L91A1A	SMD 129-4821●	6.45	5.22	3.75	– –	– –
28L92	NXP	44	PLCC	3.3 V or 5.0 V Dual UART	SC28L92A1A	SMD 129-4822●	9.01	7.29	5.24	– –	– –
28L92	NXP	44	PQFP	DUART, With FIFO	SC28L92A1B,557	SMD 162-7055●	12.24	9.79	8.16	7.00	6.53
82C50	INTS	40	DIP	CMOS Asynchronous Communications Element - 10MHz	CP82C50A-5	527-750	8.30	8.07	7.85	7.65	7.45
82C50	INTS	40	DIP	CMOS Asynchronous Communications Element - 10MHz	CP82C50A-5Z	121-6115●	13.69	11.39	10.26	9.47	8.79
82C54	INTS	24	DIP	CMOS Timer/Counter, 8MHz	CP82C54Z	101-8175●	5.23	3.49	2.23	2.00	1.93
82C55	INTS	40	DIP	CMOS Programmable Peripheral Interface, 5MHz	CP82C55A-5Z	101-8159●	2.67	2.38	2.06	1.88	1.53
82C55	INTS	40	DIP	CMOS Programmable Peripheral Interface, 8MHz	CP82C55AZ	101-8158●	4.83	3.23	2.06	1.95	1.78
82C55	INTS	44	PLCC	CMOS Programmable peripheral interface (PLCC)	CS82C55AZ	SMD 966-3533●	3.56	2.92	2.67	– –	– –
2681AC1	NXP	44	PLCC	Dual UART	SCC2681AC1A44	SMD 129-4823●	4.88	3.95	3.09	– –	– –
2691AC1	NXP	24	SOL	UART	SCC2691AC1D24	SMD 129-4824●	4.90	3.34	2.75	– –	– –
16550	NSC	40	DIP	CMOS UART With FIFOs	PC16550DN	949-0507●	7.76	6.35	5.83	5.69	5.31
3100	MAX	16	QSOP	SPI Microwire-Compatible UART	MAX3100EEE+	SMD 137-9731●	8.90	5.72	3.86	3.22	– –
68681C1	NXP	44	PLCC	Dual UART	SCC68681C1A44	129-4825●	4.80	3.89	2.80	– –	– –
68681E1	NXP	40	DIP	Dual UART	SCC68681E1N40	129-4826●	7.12	5.79	4.17	– –	– –
68692C1	NXP	44	PLCC	Dual UART	SCC68692C1A44	SMD 129-4827●	5.43	4.33	4.22	– –	– –

Communications - PCI

PCI to Hi-USB Controller Rapid Development Kits

These Hi-Speed USB development kits transform standard Windows PCs into USB peripherals, which enables USB device and host software development on PCs, even before final hardware is ready.

Features:

- PCI-based development kits allow easy installation to quickly setup a development platform
- Enables development of firmware, host drivers, and applications even before the final hardware is ready
- USB 2.0 device emulation
- USB firmware and APIs are provided to simplify software development
- Free 30 days evaluation version of Jungo's WinDriver

520159

Mftrs. List No.	Description	Order Code	Price Each
NET2272RDK-II	NET 2272 Rapid Development Kit II	162-3132●	786.41
NET2282RDK	NET 2282 Rapid Development Kit	162-3133●	839.21

NetChip™ PCI to Hi-Speed USB Controllers

These controllers offer superior performance, strict compliance to industry standards, and dramatic power savings. They are utilised in a variety of peripherals like printers, digital cameras, mobile phone, WLAN devices etc.

Controller Features:

- Fast Data Transfer Rates
- Migration of PCI Designs to USB
- Significant Power Savings
- Smallt Footprint
- Software-ready Solution

520119

Pins/Pkg	Description	Mftrs. List No.	Order Code	Price Each
64 / TQFP	USB 2.0 Interface Controller	NET2270REV3B-LF	SMD 162-3119●	16.15
120 / QFP	USB 2.0 Peripheral Controller	NET2282-AB33PC F	SMD 162-3120●	14.69
64 / TQFP	USB 2.0 Peripheral Controller	NET2272REV1A-LF	SMD 162-3121●	12.06

Expresslane™ PCI Switches



These fully configurable PCI switches offer PCI Express switching capability conforming to the PCI Express specification r1.1. These switches enable users to add low cost, scalable high bandwidth switching and well as both fan-in/out and peer-to-peer features to a wide variety of applications.

Features:

- Highly Flexible Port Configurations
- Lowest Power and Lowest Latency
- Non-Transparent Port Capability
- True Peer-to-Peer Data Transfer
- Hot-Plug Support

NOTE: For datasheets on these products please visit the manufacturers website.

520160

Pins/Pkg	Description	Mftrs. List No.	Order Code	Price Each
296 / PBGA	Switch, 8 lane/5 port PCIe	PEX8508-AC25BI G	SMD 162-3145●	37.44
376 / PBGA	Switch, 16 lane/5 port PCIe	PEX8518-AC25BI G	SMD 162-3147●	66.61
736 / PBGA	Switch, 48 lane/9 port PCIe	PEX8548-AA25BI G	SMD 162-3148●	142.58

PCI Bridges

Expresslane™, Fastlane™ and PCI 9000 Series



The **ExpressLane™ PCIe (PEX)** family are high performance PCI Express-to-PCI bridges that are fully-compliant with the PCI Express Base 1.0a, 1.1 and 2.0 specifications, enabling designers to migrate legacy PCI bus interfaces to the new advanced serial PCI Express.

The **PCI 9000 Series** is a broad range of general-purpose, PCI-to-local bus bridges. They are available as PCI Bus Master I/O Accelerators or PCI Target I/O Accelerators.

The **FastLane™ PCI 6000** series is a broad range of PCI-to-PCI and PCI-X to PCI-X bridges. These bridges allow more devices to be attached to a PCI bus as well as providing the ability to include intelligent adapters on a PCI bus.

520067

Pins/Pkg	Description	Mftrs. List No.	Order Code	Price Each
144 / BGA	PCI Express to PCI Bridge	PEX8112-AA66BI F	SMD 162-3113●	21.18
256 / BGA	PCI Express to PCI/PCI-X Bridge	PEX8114-BD13BI G	SMD 162-3117●	54.34
337 / BGA	PCI Express to Local Bus Bridge	PEX8311-AA66BCF	SMD 162-3118●	51.10
176 / PQFP	Local Bus to PCI Bridge	PCI9030-AA6PI F	SMD 162-3122●	33.33
176 / PQFP	PCI Bus Master I/O Accelerator	PCI9054-AC50PI F	SMD 162-3123●	46.87
256 / FPBGA	PCI Bus Master I/O Accelerator	PCI9056-BA66BI G	SMD 162-3124●	55.75
272 / BGA	PCI Bus Master I/O Accelerato	PCI9656-BA66BI G	SMD 162-3125●	66.72
160 / PQFP	PCI Target I/O Accelerator	PCI9052 G	SMD 162-3127●	33.74
208 / PQFP	PCI Bus Master I/O Accelerator	PCI9060SD-1AF	SMD 162-3128●	77.52
365 / PBGA	PCI-to-PCI Bridge	PCI6254-BB66BC G	SMD 162-3129●	39.25
208 / PQFP	PCI-to-PCI Bridge	PCI6150-BB66PC G	SMD 162-3130●	23.14
380 / HSBGA	PCI-to-PCI Bridge	PCI6466-CB66BI G	SMD 162-3131●	40.76

PEX8112 Rapid Development Kit

These rapid development kits assists in evaluating the PEX 8112 PCI Express-to-PCI bridge device. They are complete hardware and software development platforms that can be used to get designs up and running quickly, reduce any risks and lower the time-to-market.

Features:

- PLX PCI-to-PCI Express bridge device
- Single 32-bit PCI Edge connector
- Single PCI Express slot
- DIP switches for PEX 8112 hardware configuration
- Socketable SPI serial EEPROM
- Onboard probing points and logic analyzer connections
- LEDs for link status

520149

Mftrs. List No.	Description	Order Code	Price Each
PEX 8112-AA RDK-F	PEX8112 Rapid Development Kit - Forward Mode	162-3139●	690.00
PEX 8112-AA RDK-R	PEX8112 Rapid Development Kit - Reverse Mode	162-3141●	690.00

£/€ 40,000 PRICES REDUCED

Communications - PCI - continued

PEX8114 Rapid Development Kits

These rapid development kits assists in evaluating the PEX 8114 PCI Express-to-PCI/PCI-X bridge device. They are complete hardware and software development platforms that can be used to get designs up and running quickly, reduce any risks and lower the time-to-market.

Features:
- PLX PCI Express-to-PCI/PCI-X bridge device
- Single 64-bit PCI/PCI-X board edge connector
- Single PCI Express slot
- Socketable serial EEPROM
- Lane Status Indicator LEDs
- Auxiliary ATX four-pin hard-drive connector
- DIP switches for PEX 8114 hardware configuration
- On-board PCI Express RefClk generator
- On-board probing points
- On-board manual Reset switches

520137

Mftrs. List No.	Description	Order Code	Price Each
PEX 8114-BD RDK-F	PEX8114 Rapid Development Kit - Forward Mode	162-3143●	690.00
PEX 8114-BD RDK-R	PEX8114 Rapid Development Kit - Reverse Mode	162-3144●	690.00

PEX8311Rapid Development Kit

This rapid development kit assists in evaluating the PEX 8311PCI Express-to-local bus bridge device. The kit is a complete hardware and software development platform that can be used to get designs up and running quickly, reduce any risks and lower the time-to-market.

Features:
- PLX PCI Express-to-PCI bridge device
- One PCI Express Edge connector
- Supports 32-bit C or J mode
- 128KB synchronous burst SRAM
- CPLD memory controller
- Jumpers
- Socketable SPI
- Microwire serial EEPROMs
- Onboard probing points and logic analyzer connections
- LEDs for link status
- Auxiliary ATX hard disk connector
- Prototyping area
- Pushbutton reset module
- Socketed oscillator
- PLX J-Bus Option Module (POM) connector
- Option for reference clock generation

520170

Mftrs. List No.	Description	Order Code	Price Each
PEX8311 AA RDK	PEX 8311 Rapid Development Kit	162-3142●	805.00

PEX8508 Rapid Development Kit

This rapid development kit can be used as an evaluation vehicle for the PEX 8508 features and benefits. In addition the kit can be used to test and validate customer design software.

NOTE: For datasheets on these products please visit the manufacturers website.

520171

Mftrs. List No.	Description	Order Code	Price Each
PEX8508 AC RDK	PEX8508 Rapid Development Kit	162-3149●	1,147.12

PEX8518 Rapid Development Kit

This rapid development kit can be used as an evaluation vehicle for the PEX 8518 features and benefits. In addition the kit can be used to test and validate customer design software.
The kit's hardware module can be installed in a motherboard, used as a riser card, or configured as a bench-top board.

NOTE: For datasheets on these products please visit the manufacturers website.

520172

Mftrs. List No.	Description	Order Code	Price Each
PEX8518 AC RDK	PEX8518 Rapid Development Kit	162-3150●	1,147.12

PEX8548 Rapid Development Kit

This rapid development kit can be used as an evaluation vehicle for the PEX 8548 features and benefits. In addition the kit can be used to test and validate customer design software.
The kit's hardware module can be installed in a motherboard or can be used as a riser card.

NOTE: For datasheets on these products please visit the manufacturers website.

520173

Mftrs. List No.	Description	Order Code	Price Each
PEX8548 AA RDK	PEX8548 Rapid Development Kit	162-3152●	1,275.42

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PCI9030 Rapid Development Kit

This rapid development kit is designed for use with the PCI 9030 target I/O accelerator. The kit and it's extensive support allows a user to quickly and easily add PCI to a variety of embedded applications in telecommunications, data communications and other applications.

Features:
- A PCI v2.2 prototype adapter board
- Industry standard surface mount footprints
- ISA connector footprint
- 25 x 25 0.1" through-hole grid expansion
- PLX SDK-LITE with PLXMon
- All relevant documentation
- 100-pin PLX Option Module (POM) connector
- One sample PCI 9030 chip

520165

Mftrs. List No.	Description	Order Code	Price Each
PCI9030 RDK LITE	PCI9030 Rapid Development Kit - Lite	162-3134●	839.76

PCI9054 Rapid Development Kit

This rapid development kit is a PCI bus master prototyping kit. The kit provides a low-cost development environment for PCI 9054 embedded application designs.

Features:
- PCI r2.2 compliant
- The PCI 9054 I/O Accelerator
- CPLD Local Bus memory controller and 128KB SRAM
- PLX Option Module (POM) expansion connector
- Industry standard surface mount footprints
- 30x25 0.1" through-hole grid expansion
- Complete design documentation
- Complete windows host software development environment

520167

Mftrs. List No.	Description	Order Code	Price Each
PCI 9054RDK-LITE	PCI9054 Rapid Development Kit - Lite	162-3135●	842.12

PCI9056 Rapid Development Kit

The rapid development kit provides a provides a comprehensive design and development environment for the PCI 9056 bus master I/O accelerator. The kit supports PICMG2.1 r2.0 hot swap and provides reusable hardware and software components to shorten design cycles.

Features:
- PICMG 2.0 r3.0 compliant
- A PCI 9056 I/O Accelerator
- 4Kb EEPROM, 8.5 MB Flash and 64MB SDRAM
- CPLD Local Bus memory controller and 512KB SBSRAM
- One 10/100 Mbit Ethernet port
- Two RS-232 serial ports
- PLX Option Module (POM) expansion connector
- MPC860 BDM development port
- 0.1" through hole grid space
- Comprehensive software development environment
- Complete design documentation

520168

Mftrs. List No.	Description	Order Code	Price Each
PCI 9056RDK-LITE	PCI9056 Rapid Development Kit - Lite	162-3136●	842.44

PCI9656 Rapid Development Kit

The rapid development kit provides a provides a comprehensive design and development environment for the PCI 9656 bus master I/O accelerator. The kit supports PICMG2.1 r2.0 hot swap and provides reusable hardware and software components to shorten design cycles.

Features:
- PICMG 2.0 r3.0 compliant
- A PCI 9656 I/O Accelerator
- 4Kb EEPROM, 8.5 MB Flash and 64MB SDRAM
- CPLD Local Bus memory controller and 512KB SBSRAM
- One 10/100 Mbit Ethernet port
- Two RS-232 serial ports
- PLX Option Module (POM) expansion connector
- MPC860 BDM development port
- 0.1" through hole grid space
- Comprehensive software development environment
- Complete design documentation

520169

Mftrs. List No.	Description	Order Code	Price Each
PCI9656 RDK LITE	PCI9656 Rapid Development Kit - Lite	162-3137●	842.44

Over 480,000 products online GO

PCIe Clock Buffers

PERICOM Semiconductor Corporation

New

The PI6C21200 are high-speed, low-noise PCI-Express differential clock buffers. The output frequency can be ratioed to offer a derivative frequency from the input frequency. Each differential output is controlled by an individual OE pin, except OUT10 and OUT11.
The clock outputs are controlled by input selection of SA_0, SA_1, SA_2 via SMBus, SCLK and SDA.

Features:
- Twelve Pairs of PCI-Express Differential Clocks (HCSL compatible signaling)
- Low skew < 50ps
- Low jitter < 50ps
- Output Enable for all outputs
- Outputs tristate control via SMBus
- Power Management Control
- Programmable PLL Bandwidth
- PLL or Fan out operation
- Gear Ratio supporting different output frequencies
- 3.3V Operation

514918

Pins/Pkg	Description	Mftrs. List No.	Order Code	Price Each				
56 / TSSOP	3.3V, 400MHz Differential HCSL Clock Buffer	PI6C21200AE	SMD 160-2279	3.05	2.49	2.11	1.97	1.83
56 / SSOP	3.3V, 400MHz Differential HCSL Clock Buffer	PI6C21200VE	SMD 160-2280	2.99	2.45	2.07	1.93	1.80

PCIe ReDrivers™

PERICOM Semiconductor Corporation

New

These ReDriver™ products focus on the demands of high-speed serial interfaces in the form of signal conditioners that adjust and correct for signal level attenuation and noise (jitter) using equalization, pre-emphasis/de-emphasis techniques resulting in the eye pattern at the receiver end having the margins needed to deliver low bit error rates with high-speed signal protocols including PCI Express and other popular standards.

Mftrs. List No.	Pins/Pkg	Data Rate	Channels	Input Equalization Options (dB)	Output Level Options	Output Swing Max. (mV)	Output Emphasis (dB)
PI2EQX4401DZFE	36/TQFN	2.5Gbps	2	0, 2.5, 4.5, 6.5	1.0x, 1.2x	1300	0, -3.5
PI2EQX4401ZFE	36/TQFN	2.5Gbps	2	0,1.5,2.5,3.5,4.5, 5.5,6.5,7.5	0.8x, 1.0x, 1.2x, 1.4x	1600	0,-2.5,-3.5,-4.5
PI2EQX4402DNBE	84/LFBGA	2.5Gbps	4	0,1.5,2.5,3.5,4.5, 5.5,6.5,7.5	0.8x, 1.0x, 1.2x, 1.4x	1600	0,-2.5,-3.5,-4.5
PI2EQX4402NBE	84/LFBGA	2.5Gbps	4	0,1.5,2.5,3.5,4.5, 5.5,6.5,7.5	0.8x, 1.0x, 1.2x, 1.4x	1600	0,-2.5,-3.5,-4.5

514380

Mftrs. List No.	Description	Order Code	Price Each 1+	10+	100+	250+	500+
PI2EQX4401DZFE	1-Lane PCI Express ReDriver with Equalization and De-emphasis	SMD 160-2272	4.31	3.52	2.98	2.76	2.59
PI2EQX4401ZFE	1 Lane Serial PCI Express Repeater/Equalizer with Clock Buffer	SMD 160-2273	5.51	4.50	3.81	3.54	3.30
PI2EQX4402DNBE	2-Lane PCI Express ReDriver with Equalization and De-emphasis	SMD 160-2274	6.85	5.61	4.74	4.41	4.11
PI2EQX4402NBE	2 Lane Serial PCI Express Repeater/Equalizer	SMD 160-2276	7.15	5.86	4.96	4.61	4.30

PCIe Signal Switches

PERICOM Semiconductor Corporation

New

The **PI2PCIE2412** & **PI2PCIE412-D** are 8 to 4 differential channel multiplexer/demultiplexer switches. This solution can switch 2 full PCI Express, Gen-II, lanes to one of two locations. Using a unique design technique, the impedance of the switch has been minimised such that the attenuation observed through the switch is negligible. It also offers a layout targeted for PCI Express signals, which minimises the channel to channel skew as well as channel to channel crosstalk as required by the PCI Express specification.

PI2PCIE2412ZHE Features:
- 4 Differential Channel, 2:1 Mux/DeMux
- PCI Express, Gen II Performance, 5.0Gbps
- Low Bit-to-Bit Skew , 7ps max (between '+' and '-' bits)
- Low Crosstalk: -23dB@3 GHz
- Low Off Isolation: -23dB@3 GHz
- VCC Operating Range: +1.5V to +2.0V
- ESD Tolerance: 8kV HBM I/O; 2kV HBM select pin
- Low channel-to-channel skew, 35ps max

PI2PCIE412-DZHE Features:
- 4 Differential Channel, 2:1 Mux/DeMux
- PCI Express signal compliance
- Low Bit-to-Bit Skew , 10ps max (between '+' and '-' bits)
- Low Crosstalk: -65dB@10 MHz
- Low Off Isolation: -65dB@10 MHz
- VCC Operating Range: +1.5V to +2.0V
- ESD Tolerance: 8kV HBM I/O; 2kV HBM select pin
- Low channel-to-channel skew, 35ps max

514908

Pins/Pkg	Description	Mftrs. List No.	Order Code	Price Each		
42 / TQFN	1.8V, PCI Express Gen-II Compliant, 4-Differential Channel, 2:1 Mux/DeMux Switch, w/ Single Enable	PI2PCIE2412ZHE	SMD 160-2277	2.12	1.74	1.47
42 / TQFN	Enhanced, 1.8V, PCI Express Compliant, 4-Differential Channel, 2:1 Mux/DeMux Switch, w/ Single Enable	PI2PCIE412-DZHE	SMD 160-2278	3.14	2.57	2.17

PCI Bridges

PERICOM Semiconductor Corporation

New

The **PI7C7300D** is designed to be fully compliant with the 32-bit, 66MHz implementation of the PCI Local Bus Specification, Revision 2.2.
It supports only synchronous bus transactions between devices on the Primary Bus running at 33MHz to 66MHz and the Secondary Buses operating at either 33MHz or 66MHz.
The Primary and Secondary Buses can also operate in concurrent mode, resulting in added increase in system performance.
Supported features include: Support for up to 15 devices on the Secondary Buses, Compact PCI Hot Swap (PICMG 2.1, R1.0) Friendly Support and Dual Addressing Cycle.
The **PI7C8140A** PCI-to-PCI Bridge is designed to be fully compliant with the 32-bit, 66MHz implementation of the PCI Local Bus Specification, Revision 2.2.
It supports synchronous bus transactions between devices on the Primary Bus and the Secondary Buses operating up to 66MHz. Both primary and secondary buses must operate at the same frequency. The primary and secondary buses can also operate in concurrent mode, resulting in added increase in system performance.
The **PI7C9X110** is a PCIe-to-PCI/PCI-X bridge. It is compliant with the PCI Express Base Specification, Revision 1.0a, the PCI Express Card Electromechanical Specification, Revision 1.0a, the PCI Local Bus Specification, Revision 3.0 and PCI Express to PCI/PCI-X Bridge Specification, Revision 1.0.
It supports transparent and non-transparent mode of operations. And also forward and reverse bridging.
Theconfiguration registers are backward compatible with existing PCI bridge software and firmware. No modification of PCI bridgesoftware and firmware is needed for the original operation.

514925

Pins/Pkg	Description	PCI Speed	PCI Bus Width	Ports	Mftrs. List No.	Order Code	Price Each				
272 / PBGA	3-Port PCI-to-PCI Bridge	66MHz	32-bit	3x UART	PI7C7300DNAE	SMD 160-2281	44.67	36.55	30.93	28.72	26.81
128 / QFP	2-Port PCI-to-PCI Bridge	66MHz	32-bit	2x UART	PI7C8140AMAE	SMD 160-2282	9.09	7.43	6.29	5.85	5.45
160 / LFBGA	PCIe-to-PCI Reversible Bridge	66MHz	32-bit	2x UART	PI7C9X110BNBE	SMD 160-2283	12.99	10.63	8.99	8.35	7.79

PCI/PCIe to PCI Bridges

Texas Instruments

New

These PCI-to-PCI bridges make it possible to extend a system's load capability limit by allowing motherboard designers to add more PCI devices, or more PCI option card slots, than a single PCI bus can support.
The PCI2050B supports 66-MHz, 32-bit systems requiring synchronous clocking, while the PCI2060 also supports 66-MHz, 32-bit systems, it also provides asynchronous clocking options. The PCI2250 allows bridged transactions to occur concurrently on both buses as well as supporting burst-mode transfers. The XIO2200 and DS2000 bridges support PCIe to PCI translation.

519195

Pins/Pkg	Description	Bridge Type	PCI Bus Type	Mftrs List No.	Order Code	Price Each 1+	10+	100+
208/LQFP	PCI-to-PCI Bridge	PCI to PCI	32bit / 66MHz	PCI2050BIPDV	SMD 159-7911	17.02	13.61	11.33
257/BGA	PCI-to-PCI Bridge	PCI to PCI	32bit / 66MHz	PCI2050BIZHK	SMD 159-7912	17.02	13.61	11.33
208/LQFP	PCI-to-PCI Bridge	PCI to PCI	32bit / 66MHz	PCI2050BPDV	SMD 159-7913	15.47	12.39	10.32
257/BGA	PCI to PCI Bridge	PCI to PCI	32bit / 66MHz	PCI2050BZHK	SMD 159-7914	15.47	12.39	10.32
257/BGA	Asynchronous PCI-to-PCI Bridge	PCI to PCI	32bit / 66MHz	PCI2060ZHK	SMD 159-7915	15.47	12.39	10.32
160/QFP	33 MHz PCI-to-PCI Bridge	PCI to PCI	32bit / 33MHz	PCI2250PCMG4	SMD 159-7916	9.95	7.96	6.63
176/LQFP	33 MHz PCI-to-PCI Bridge	PCI to PCI	32bit / 33MHz	PCI2250PGF	SMD 159-7918	9.95	7.96	6.63
176/BGA	PCIe to PCI Translation Bridge	PCIe to PCI	–	XIO2200AZGW	SMD 159-7921	15.47	12.39	10.32
175/BGA	PCIe to PCI Translation Bridge	PCIe to PCI	–	XIO2200AZHH	SMD 159-7922	15.47	12.39	10.32
201/PBGA	PCIe to PCI Translation Bridge	PCI to PCIX	32bit / 66MHz	DS2000AZZZ	SMD 159-7924	17.11	13.68	11.41

RL Re-reeling available

Communications - PCI - continued

PCI Controllers/Hot Plugs

These PCI Controllers provide many features that make them the best choice for bridging PCI to PC Cards, PCI to CardBuses and PCI bus to DSP host ports.
These PCI Hot plug controllers support the hot insertion/removal of hot-plug slots on PCI and PCI Express buses. While the HPC3130A provides automatic bus connection sequencing and supports a protocol for connection during bus idle conditions, the TPS2363 is a dual-slot PCIExpress hot plug controller with SMBus control and monitoring functions.

519147

Pins/Pkg	Description	Bridge Type	PCI Bus Type	Mftrs List No.	Order Code	Price Each 1+	10+	100+
144/PBGA	Single Slot PC CardBus Controller	PCI to CardBus	32bit / 33MHz	PCI1510ZGU	SMD 159-7907	5.03	4.02	3.34
208/LQFP	Enhanced Product PC Card Controller	PCI to CardBus	32bit / 33MHz	PCI1520IPDVEP	SMD 159-7908	6.81	5.44	4.53
209/BGA	Dual-Slot CardBus Controller	PCI to CardBus	32bit / 33MHz	PCI1520ZHK	SMD 159-7909	6.05	4.84	4.04
144/LQFP	PCI to DSP Bridge Controller	HPI to PCI	32bit / 33MHz	PCI2040PGE	SMD 159-7910	17.18	13.73	11.46
48/TQFP	PCI Dual Hot Plug Controller	PCIe Hot Plug	–	TPS2363PFB	SMD 159-7919	3.42	2.74	2.29
208/LQFP	PCI to CardBus Controller	PCI to CardBus	32bit / 33MHz	PCI1420PDV	SMD 159-7923	6.47	5.20	4.32
128/LQFP	PCI Hot Plug Controller	Hot Plug	64bit / 66MHz	HPC3130APBK	SMD 159-7925	15.25	12.20	10.17
216/PBGA	Intergrated Flash Media Controller	–	–	PCI8402ZHK	SMD 159-7926	5.72	4.57	3.83

Expresso PCIe Family Evaluation Kits



EK-OXPCIE952



EK-OXPCIE954



EK-OXPCIE958



EK-OXPCIE840

Design and evaluation of the Expresso PCIe familiy couldn't be easier with the EK-OXPCIe comprehensive evaluation kits. The kits include everything needed for PC installation and evaluation including Hardware, parallel port expansion bracket, Oxide Development Tools and software device drivers. Simply plug the half length PCI Express® evaluation board into any PCI Express® slot, install the software and its ready to go.

Kit Contents:
- Evaluation board
- Oxide CD
- Sample Expresso PCI Express® devices
- Parallel or serial port expansion bracket
- 4-way serial breakout cables (OXPCIe958 and OXPCIe954 only)

521674

Description	Mftrs.List No.	Order Code	Price Each
EK-OXPCIe952 Evaluation Kit	EK-OXPCIE952	164-2221	132.44
EK-OXPCIe954 Evaluation Kit	EK-OXPCIE954	164-2222	132.44
EK-OXPCIe958 Evaluation Kit	EK-OXPCIE958	164-2223	329.76
EK-OXPCIe840 Evaluation Kit	EK-OXPCIE840	164-2225	168.16

Expresso High Performance PCI Express® Bridges

These bridges are part of Oxford Semiconductor's Expresso family of high performance PCIe devices. Together they combine 15Mbps asynchronous data rates and deep FIFOs from Oxford Semiconductor's ultra high performance 950 UART, advanced MSI interrupt handling, bus master DMA, high performance parallel port technology and port expansion interfaces.

Features:
- ExpressCard™, Mini CARD™ & AIC compatible
- PCIe base spec 1.1
- MSI/MSI-X compatible
- Device parameters configurable via EEPROM
- 1.8 V, 2.5 V, or 3.3 V GPIO voltages
- Broad device driver support

521672

Pins/Package	Description	Max No. of Ports	Mftrs.List No.	Order Code	Price Each 1+	10+	100+	250+	500+
120/TFBGA	Bridge , PCIe to Dual Serial and Parallel Port	8	OXPCIE952-FBAG	SMD 164-2217	6.52	5.02	4.66	4.35	4.13
120/TFBGA	Bridge, PCIe to Parallel Port	9	OXPCIE840-FBAG	SMD 164-2220	6.29	4.84	4.50	4.20	3.99
176/TFBGA	Bridge, PCIe to Quad Serial Port	12	OXPCIE954-FBAG	SMD 164-2218	8.32	6.41	5.95	5.55	5.27
176/TFBGA	Bridge, PCIe to Octal Serial Port	16	OXPCIE958-FBAG	SMD 164-2219	12.34	9.50	8.82	8.23	7.82

EV-TD124-UHC124-PCI Evaluation Board



This evaluation board is a system for TD124 customer evaluations and internal software development. It allows the user to install and use the TD124 in any PCI based computer. Application software running on the system has access to the TD124 via the PCI memory space. It can be used without the PCI104 PCI Bridge Board.

The EV-TD124-UHC124-PCI allows customers to:
- Evaluate the Oxford Semiconductor UHC124 USB host controller
- Run TD124 demonstrations
- Develop user software for TD124-UHC124 based applications

524502

Mftrs.List No.	Description	Order Code	Price Each
EV-TD124-UHC124-PCI	EV-TD124-UHC124-PCI	165-6949	338.09

EV-OXU200 PCI Evaluation Board



The EV-OXU200-PCI Evaluation Board is a system for OXU200 customer evaluations and internal software development in the PC environment. This Evaluation Board allows the user to install and use the EV-OXU200 in any PCI based computer. Application software running on the system has access to the OXU200 via the PCI memory space.

The EV-OXU200-PCI Evaluation Board is a two board combination of the following:
- An EV-OXU200 Evaluation Board
- A 33 MHz, 32-bit PCI Bridge Board (PCI104)

509407

Mftrs.List No.	Description	Order Code	Price Each
EV-OXU200-PCI	EV-OXU200 PCI Evaluation Board	158-1467	369.89

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RL Re-reeling available

EV-OXU210 PCI Evaluation Board



The EV-OXU210 PCI Evaluation Board is a system for OXU210HP customer evaluations and internal software development in the PC environment. It allows the user to install and use the EV-OXU210 in any PCI based computer. Application software running on the system has access to the OXU210HP via the PCI memory space.

The EV-OXU210-PCI Evaluation Board is a two-board combination of the following:

- An EV-OXU210 Evaluation Board
- A 33 MHz, 32-bit PCI Bridge Board, the PCI104

509406

Mftrs.List No.	Description	Order Code	Price Each
EV-OXU210-PCI	EV-OXU210 PCI Evaluation Board	158-1462●	369.89

PCI Evaluation Card EV-OX16PCI954



The Evaluation board is a valuable tool for accessing the behavior of the OX16PCI954 device and can be configured.

- 4 OX16PCI954 UARTs
- 25 way parallel port
- Serial EEPROM socket
- Internal crystal oscillator
- A 4 way serial lead is suppiled for connect to the board

478256

Mftrs. List No.	Description	Order Code	Price Each
EV-OX16PCI954	PCI Evaluation card	142-6639●	275.13

PCI Evaluation Card EV-OX16PCI958



The OX16PCI958 evaluation board allows users to test applications based on the device features of the OX16PCI958. The board can handle up to eight serial ports at configurable send and receive rates up to 230,400 baud. It has a PCI host interface with a universal slot key which makes it suitable for connection to a PCI bus using either the 3.3-V or 5-V standard. Once installed and configured by the host OS, the OX16PCI958 provides an eight-byte programming interface to each UART. The UARTs are fully software-compatible with 16C550 devices and all ports support RS232. In addition, the board provides an edge connector and a header connector, allowing users to obtain the signals from the eight UARTs

- 8 OX16PCI958 UARTs
- 25 way parallel port
- Serial EEPROM socket
- Internal crystal oscillator
- Two 4 way serial lead is suppiled for connection to the board

478257

Mftrs. List No.	Description	Order Code	Price Each
EV-OX16PCI958	PCI Evaluation card	142-6640●	417.38

PCI Evaluation Card EV-OXCF950-TQFP



The OXCF950 rev B is a low cost asynchronous 16-bit PC PCMCIA card or Compact Flash UART device. Local Bus Selection is performed by use of a MODE pin. The Local Bus mode uses indirect addressing, which is only supported by PCMCIA.The single channel ultra-high performance UART offering data rates up to 15Mbps and 128-deep transmitter and receiver FIFOs. Deep FIFOs reduce CPU overhead and allow utilisation of higher data rates.

- Single full-duplex asynchronous channel
- 128-byte readable deep transmitter / receiver FIFO
- Full software compatible with industry standard 16C550 type UARTs
- System clock up to 60MHz
- Programmable by external MicrowireTM EEPROM (EEPROM programmed via Oxford Semiconductor utilities)
- Extremely low power consumption by use of asynchronous UART core and power down (sleep) modes
- Supports all UART types 450 up to 950 (fully programmable)
- Flexible clock prescaler from 1 to 31.875
- 2 Multi-purpose I/O pins which can be configured as interrupt inputs
- Automated in-band flow control using programmable Xon/Xoff characters
- Detection of bad data in the receiver FIFO
- 9-bit data framing as well as 5,6,7 and 8

478258

Mftrs. List No.	Description	Order Code	Price Each
EV-OXCF950-TQFP	Compact Flash Evaluation card	142-6641●	166.32

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PCI Express, Hot-Plug Controllers

These single, dual, triple and quad hot-plug controllers are designed for PCI Express (PCIe)® applications. They provide hot-plug control for the main 12V, 3.3V and 3.3V auxiliary supplies of (dependant of device ordered) up-to four PCIe slots.
The logic inputs/outputs of all these devices allow interfacing directly with the system hot-plug management controller or through an SMBus™ with an external I/O expander. An integrated debounced attention switch and present-detect signals simplify system design.

Features:

- PCI Express Compliant
- Hot Swaps 12V, 3.3V, and 3.3V Auxiliary
- Integrated Power MOSFET for Auxiliary Supply Rail
- Active Current Limiting Protects Against Overcurrent/Short-Circuit Conditions
- Programmable Current-Limit Timeout
- PWRGD Signal Output with Programmable Power-On Reset (POR) (160ms Default)
- Latched FAULT Signal Output after Overcurrent or Overtemperature Fault
- Attention Switch Input/Output with 4ms Debounce
- Present-Detect Input
- Forced-On Input Facilitates Testing
- Thermal Shutdown
- Allows Control through SMBus with an I/O Expander

508200

Pins/Pkg	Description	Min V_{IN}	Max V_{IN}	Guar. AUX Current	Auto Restart	Operating Temp. Range	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+
36 / TQFN	Single PCI Express, Hot-Plug Controller	3V	13.2V	–	✓	-40 - 85°C	MAX5954AETX+	SMD-157-7092●	3.68	2.96	2.46	2.12
36 / TQFN	Dual PCI Express, Hot-Plug Controller	3V	13.2V	–	✓	-40 - 85°C	MAX5946AETX+	SMD-157-7091●	6.77	5.40	4.51	3.86
56 / TQFP	Triple PCI Express, Hot-Plug Controller	3V	13.2V	375mA	✓	-40 - 85°C	MAX5957AETN+	SMD-157-7093●	8.70	6.95	5.81	4.97
56 / TQFP	Triple PCI Express, Hot-Plug Controller	3V	13.2V	550mA	✓	-40 - 85°C	MAX5958AETN+	SMD-157-7094●	8.70	6.95	5.81	4.97
80 / TQFP	Quad PCI Express, Hot-Plug Controller	3V	13.2V	375mA	✓	-40 - 85°C	MAX5959AECS+	SMD-157-7095●	10.43	8.34	6.95	5.95
80 / TQFP	Quad PCI Express, Hot-Plug Controller	3V	13.2V	550mA	✓	-40 - 85°C	MAX5960LECS+	SMD-157-7096●	10.43	8.34	6.95	5.95

Communications - Ethernet

ATNGW100 Network Gateway Kit



The NGW100 has many functions, it can be used as a router and as a USB mass-storage device when an SD-card is inserted. It also allows user to create dynamic web pages. It is also an ideal development board for the AT32AP7000. All resources are available, and it supports communication on any of the device's communication interfaces. The board is preloaded with Linux and shipped with I/O interface drivers that can be called from your own code.
The NGW100 has two Ethernet ports, SD and MMC card reader, and connectors for USB and JTAG.

495974

Mftrs. List No.	Description	Order Code	Price Each 1+
ATNGW100	Network Gateway Kit	145-5131●	79.30

E-blocks Internet Board EB023

Based on the W3100A hardwired TCP/IP stack chip from WizNET, this E-blocks board adds Ethernet functionality to an existing microprocessor based system without the necessity of a developing the TCP/IP software stack. As well as the Ethernet protocol the module supports 10/100 connection and a number of protocols including UDP, IP, ARP, ICMP, DCHP, ARP, DLC and MAC. The unit interfaces to a microprocessor using I2C serial communication. The patch jumpers on the board allow more than one Ethernet module to be connected to the I2C bus. Flowcode macros for this E-block are available in the Professional version of Flowcode.

RL Re-reeling available

Communications - Ethernet - continued

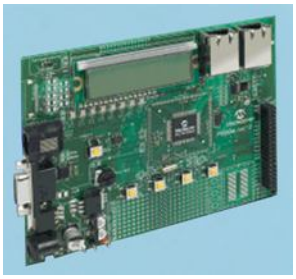
E-blocks Internet Board EB023 - continued

- Rapid embedded internet solution
- Facilitates embedded web page and email functions
- Flowcode macros available

475494

	Mftrs. List No.	Order Code	Price Each
E-BLOCKS, INTERNET BOARD	EB023	138-2371●	60.00

PICDEM.net 2 Development Board



The PICDEM.net™ 2 Development Board (DM163024) is an Internet/Ethernet development board supporting both the popular ENC28J60 Ethernet Controller and the single-chip Ethernet microcontroller family, the PIC18F97J60. With this board, using Microchip's free TCP/IP stack, a web server can be developed showcasing the capability to remote monitor and control embedded applications over the Internet.

Features:
- Web server with HTML support
- Microchip free TCP/IP stack support
- 2 x Ethernet interface (RJ-45 connector)
- PICtailTM connector for future expansion boards
- 16 x 2 character alpha-numeric LCD display
- ICSP™/MPLAB ICD 2 interface connector for in circuit programming and debugging
- Programmable buttons/LEDs
- Temp sensor
- RS-232/RS-485 interface
- Real time clock

493685

	Mftrs. List No.	Order Code	Price Each
PICDEM.net 2	DM163024	143-9836●	118.01

PICtail Ethernet Board



The Ethernet PICtail™ Daughter Board provides a cost-effective method of evaluating and developing Ethernet control applications. The board is designed for flexibility and can be plugged into a wide selection of Microchip's standard PICDEM™ demonstration boards. The development board is populated with the 28-pin ENC28J60 Ethernet controller which interfaces to the RJ-45 female connector. With a standard 28-pin PICtail pin out, the board is easily interfaced to Microchip's 8-bit demonstration boards.

Features:
- 10BASE-T Ethernet
- RJ-45 Female Ethernet Connector
- Plug in compatible with these evaluation and demonstration boards

- PICDEM HPC Explorer (DM183022)
- PICDEM LCD Demonstration Board (DM163028)
- PICDEM Z Zigbee Demonstration Board (DM163025)

493485

	Mftrs. List No.	Order Code	Price Each
PICtail Ethernet Board	AC164121	143-9829●	28.60

Ethernet PICtail Plus Daughter Board



The Ethernet PICtail™ Plus Daughter Board provides a cost-effective method of evaluating and developing Ethernet control applications. The board is designed for flexibility and can be plugged into Microchip's Explorer 16 (DM240001) development boards. The development board is populated with Microchip's 28-Pin ENC28J60 Ethernet controller which interfaces to the RJ-45 female connector. When used in conjunction with the Microchip TCP/IP stack the Ethernet PICtail Plus daughter board allows a developer to connect any Microchip 16-bit product to the Ethernet.

Features:
- IEEE 802.3 Compliant
- 10BASE-T Ethernet
- RJ-45 Female Ethernet Connector
- Plug in compatible with the Explorer 16 Development Board (DM240001)

493673

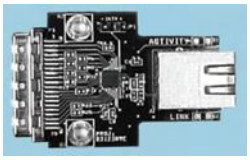
	Mftrs. List No.	Order Code	Price Each
Ethernet PICtail Plus Daughter Board	AC164123	143-9831●	24.38

Ethernet Controllers

422867

Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
60	28	SOIC	Stand-Alone Ethernet Controller With SPI Interface	ENC28J60/SO	SMD 108-4618●	2.79	2.59	2.43
60	28	DIP	Stand-Alone Ethernet Controller With SPI Interface	ENC28J60/SP	108-4619●	2.81	2.60	2.45
60	28	SSOP	Stand-Alone Ethernet Controller With SPI Interface	ENC28J60/SS	SMD 108-4620●	2.79	2.59	2.43
60	28	QFN	Ethernet Controller with SPI Interface	ENC28J60-I/ML	NEW SMD 156-4400●	2.90	2.70	2.50
60	28	SOIC	Ethernet Controller with SPI Interface	ENC28J60-I/SO	NEW SMD 156-4401●	2.80	2.60	2.44
60	28	DIP	Ethernet Controller with SPI Interface	ENC28J60-I/SP	NEW 156-4402●	2.82	2.61	2.46

78Q21x3-DB MicroPHY™ MII Evaluation Boards



Kits Include:
- MicroPHY MII Demo Board
- Demo Board Parts List
- P.C.B. Gerber Files
- Demo Board schematic
- MicroPHY Data Sheet

The 78Q21x3-DB is a design example for a 10/100BASE-TX Mbit/second Fast Ethernet MII Interface adaptor. A **78Q2123** or **78Q2133** MicroPHY transceiver provides the network physical interface and MII (Medium Independent Interface) interface.
Full-featured MII management functions are included along with an extended register set. The MicroPHY interfaces to CAT5 UTP cable via a 1:1 transformer.
The transceiver's transmitter includes on-chip the pulse shaper and low power line driver. The receiver incorporates a sophisticated combination of real-time adaptive equalization, an adaptive DC offset adjustment circuit and baseline wander correction. Smart squelch circuitry further improves the receiver's noise rejection. Full featured autonegotiation or parallel detect modes are supported.

514868

Mftrs. List No	Description	Order Code	Price Each
78Q2123-DB	78Q2123-DB MicroPHY™ MII Demo Board	157-4552●	109.61
78Q2133-DB	78Q2133-DB MicroPHY™ MII Demo Board	157-4554●	109.61

10/100 Ethernet PHYs



The 78Q2123 and 78Q2133 MicroPHY are the smallest Fast Ethernet PHY available that provides a full 802.3 Media Independent Interface (MII) to the system Media Access Controller. The MicroPHY includes integrated MII, ENDECs, scrambler/descrambler, dual-speed clock recovery, and full-featured auto-negotiation functions. The transmitter includes an on-chip pulse-shaper and a low-power line driver. The receiver has an adaptive equalizer and a baseline restoration circuit required for accurate clock and data recovery. The transceiver interfaces to Category-5 unshielded twisted pair (Cat-5 UTP) cabling for 100BASE-TX applications, and Category-3 unshielded twisted pair (Cat-3 UTP) for 10BASE-T applications. The MDI is connected to the line media via dual 1:1 isolation transformers. No external filter is required. Interface to the MAC is accomplished through an IEEE-802.3 compliant Media Independent Interface (MII).

The 78Q8392L Ethernet Transceiver is a low powerBiCMOS coax line transmitter/receiver. The device includes analog transmit and receive buffers, a 10MHz on-board oscillator, timing logic for jabber and heartbeat functions, output drivers and bandgap reference, in addition to a current reference and collision detector. This transceiver provides the interface between the single-ended coaxial cable signals and the Manchester-encoded differential logic signals. Primary functional blocks include the receiver, transmitter, collision detection and jabber timer. This IC may be used in either internal or external MAU (Medium Attachment Unit) environments.

78Q2123/2133 Features:
- 10BASE-T/100BASE-TX IEEE-802.3 compliant TX and RX functions requiring a dual 1:1 isolation transformer interface to the line
- Integrated MII, 10BASE-T/100BASE-TX ENDEC, 100BASE-TX scrambler/descrambler, and full featured auto-negotiation function
- Full duplex operation capable
- Automatic MDI/MDI-X cross over correction
- Register-programmable transmit amplitude
- Automatic polarity correction during autonegotiation and 10BASE-T signal reception
- Power-saving and power-down modes including transmitter disable
- 2 Programmable LED indicators (Link and Activity by default)
- User programmable Interrupt pin
- Low Power (~290mW)
- Single 3.3 V ± 0.3V Supply

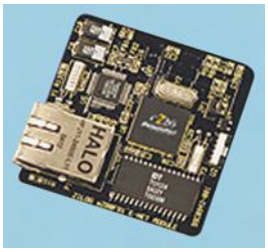
78Q8392 Features:
- Single chip solution
- Compliant with ethernet II, IEEE 802.310Base5 AND 10Base2
- Integrates all transceiver functions except signal and power isolation
- Innovative design minimises external component count and power consumption
- Jabber timer function integrated on chip
- Externally selectable CED hearbeat allows operation with IEEE 802.3 compatible repeaters
- Squelch circuitry at all inputs rejects noise
- Power-on reset and test modes

508724

Mftrs. List No.	Pkg / Pins	Description	Operating Temperature	Order Code	Price Each 1+	10+	100+
78Q2123R/F	QFN	MicroPHY™ 10/100BASE-TX Transeiver	0 to 70°C	SMD-157-4547●	1.43	1.15	0.96
78Q2133R/F	QFN	MicroPHY™ 10/100BASE-TX Transeiver	-40 to 85°C	SMD-157-4548●	1.91	1.52	1.28
78Q8392L-28CH/F	PLCC / 28	10Base2/5 Ethernet Coaxial Transceiver	0 to 70°C	SMD-157-4549●	10.42	8.34	6.95

eZ80F91/92 Development Tools

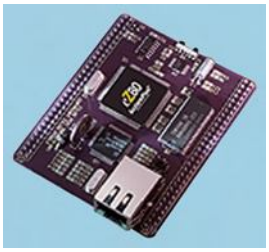
ZiLOG



New

The eZ80F91 Mini Enet Module for the eZ80AcclaimPlus! family is a compact, high-performance Ethernet module which is designed for development and deployment of embedded systems requiring remote control and Internet/Intranet connectivity.
This module is expandable and is powered by the eZ80AcclaimPlus! F91 Ethernet ASSP - Zilog's latest Ethernet Flash controller, featuring a power-efficient, high-speed, optimized pipeline architecture.

Features include:
- Factory-default 5 MHz crystal oscillator input
- 10/100 BaseT Ethernet PHY with RJ45 connector
- 128 KB external high-speed SRAM
- 256 KB on-chip Flash memory
- 8 KB on-chip SRAM
- Real-Time Clock support
- I/O connector provides 32 general-purpose 5 V-tolerant I/O pinouts
- Small footprint 50 mm x 47.5 mm
- 3.3 V power supply
- Standard operating temperature range: 0 to +70 °C



This compact, high-performance Zdots SBC has been created for the rapid deployment of embedded systems. The Zdots eZ80F91 SBC operates at 50MHz, with 256KB on-chip Flash memory and 16KB of internal SRAM. An additional 512KB of off-chip SRAM, 1MB of Flash, and a 10/100BaseT Ethernet PHY with an RJ-45 connector are also provided.

Features include:
- eZ80F91 eZ80AcclaimPlus!™ Connectivity ASSP
- IrDA transceiver
- 2 x 60-pin system expansion interface with full MPU bus/control signals
- LED
- Standard operating temperature: 0°C to 70°C
- 3.3V @ 125mA

502029

Mftrs. List No.	Description	Order Code	Price Each
EZ80F915005MODG	eZ80F91 Mini Enet Module	155-4228●	35.40
EZ80F917050SBCG	Zdots eZ80F91 SBC	155-4229●	49.95

Ethernet Controllers

SMSC

New

These Ethernet controllers are a comprehensive set of tools for implementation of Non-PCI Ethernet connectivity. They offer lower system costs and overheads by eliminating the need for a PCI bus. They have a dependable supply source with thirty plus years supporting long product cycles.

511878

	Pins	Pkg	Description	Operating Temperaure	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
91	128	QFP	10/100 Non-PCI Ethernet Single Chip MAC + PHY	-40 to 85°C	LAN91C111I-NS	SMC-160-3710●	23.83	17.03	13.93
91	128	TQFP	10/100 Non-PCI Ethernet Single Chip MAC + PHY	-40 to 85°C	LAN91C111I-NU	SMC-160-3712●	23.66	16.90	13.84
91	128	TQFP	10/100 Non-PCI Ethernet Single Chip MAC + PHY	0 to 85°C	LAN91C111-NS	SMC-160-3713●	21.78	15.56	12.74
91	128	QFP	10/100 Non-PCI Ethernet Single Chip MAC + PHY	0 to 85°C	LAN91C111-NU	SMC-160-3714●	22.20	15.86	12.99
91	100	TQFP	Non-PCI Single-Chip Full Duplex Ethernet Controller with Magic Packet	0 to 70°C	LAN91C96-MU	SMC-160-3715●	15.86	12.07	8.53
9115	100	TQFP	Highly Efficient 16-Bit Single-Chip 10/100 Non-PCI Ethernet Controller	0 to 70°C	LAN9115-MT	SMC-160-3706●	9.48	7.22	5.10
9116	100	TQFP	Highly Efficient 32-Bit Single-Chip 10/100 Non-PCI Ethernet Controller	0 to 70°C	LAN9116-MT	SMC-160-3707●	12.68	9.65	6.82
9117	100	TQFP	High-Performance 16-Bit Single-Chip 10/100 Non-PCI Ethernet Controller	0 to 70°C	LAN9117-MT	SMC-160-3708●	12.94	9.84	6.97
9117	100	TQFP	High-Performance 32-Bit Single-Chip 10/100 Non-PCI Ethernet Controller	0 to 70°C	LAN9118-MT	SMC-160-3709●	18.63	13.31	10.89

DP83815 Ethernet Controllers

National Semiconductor

New

The DP83815 is a single-chip 10/100 Mb/s Ethernet Controller for the PCI bus.
This device fully implements the V2.2 33 MHz PCI bus interface for host communications with power management support. Packet descriptors and data are transferred via bus-mastering, reducing the burden on the host CPU. It can support full duplex 10/100 Mb/s transmission and reception, with minimum interframe gap.

Features Include:
- Bus master - burst sizes of up to 128 dwords (512 bytes)
- Clkrun function for PCI Mobile Design Guide
- Virtual LAN (VLAN) and long frame support
- Support for IEEE 802.3x Full duplex flow control
- Internal 2 KB Transmit and 2 KB Receive data FIFOs
- Serial EEPROM port with auto-load of configuration data from EEPROM at power-on
- Flash/PROM interface for remote boot support
- Fully integrated IEEE 802.3/802.3u 3.3V CMOS physical layer
- IEEE 802.3 10BASE-T transceiver with integrated filters
- IEEE 802.3u 100BASE-TX transceiver
- Full Duplex support for 10 and 100 Mb/s data rates
- Single 25 MHz reference clock
- Low power 3.3V CMOS design
- IEEE 802.3u MII

Communications - Ethernet - continued

DP83815 Ethernet Controllers - continued

515050

Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
160	LBGA	PCI Ethernet Media Access Controller and Physical Layer (MacPhyter)	DP83815DUJB.	SMD 160-2441	13.61	10.77	8.74
144	LQFP	PCI Ethernet Media Access Controller and Physical Layer (MacPhyter)	DP83815DVNG.	SMD 160-2442	10.24	8.08	6.57

DP838xx PHYTER Ethernet Controllers & Transceivers

National Semiconductor

New

The PHYTER® family are high-speed industrial connectivity devices that feature the industry's highest Electrostatic Discharge (ESD) protection at 4000V and guarantee IEEE 802.3u compliance by testing every part that is shipped beyond the specification. They are offered in commercial, industrial, and extreme temperature ranges for solutions that are geared for flawless performance even in the harshest of environments.

515062

Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
56	LLP	DsPHYTER II - Single 10/100 Ethernet Transceiver	DP83847ALQA56A.	SMD 160-2443	4.14	3.02	2.22
40	LLP	PHYTER Single 10/100 Ethernet Transceiver	DP83848HSQ	SMD 160-2444	15.50	13.36	11.58
40	LLP	PHYTER Single 10/100 Ethernet Transceiver	DP83848MSQ/NOPB	SMD 160-2446	2.71	1.92	1.23
40	LLP	PHYTER Mini Single 10/100 Ethernet Transceiver	DP83848TSQ	SMD 160-2447	3.62	2.55	1.64
48	LQFP	PHYTER Single Port 10/100 Mb/s Ethernet Physical Layer Transceiver	DP83848VYB	SMD 160-2448	16.75	14.43	12.58
80	TQFP	PHYTER Dual Port 10/100 Mb/s Ethernet Physical Layer Transceiver	DP83849CVS.	SMD 160-2449	5.27	3.86	2.84
80	TQFP	PHYTER Dual Port 10/100 Mb/s Ethernet Physical Layer Transceiver with Fiber Support (FX)	DP83849IDVS.	SMD 160-2450	6.33	4.62	3.39
80	TQFP	PHYTER Dual Port 10/100 Mb/s Ethernet Physical Layer Transceiver with Fiber Support (FX) and Flexible Port Switching	DP83849IFVS.	SMD 160-2451	7.54	5.51	4.04
128	PQFP	Gig PHYTER V 10/100/1000 Ethernet Physical Layer	DP83865DVH.	SMD 160-2452	14.04	12.10	10.50

Ethernet Controllers, Switches & Transducers

MICREL®

422889

	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
8001	48	LQFP	1.8V, 3.3V 10/100BASETX/FX Physical Layer Transceiver	KSZ8001L	SMD 110-0673	3.35	2.77	2.36	2.06	1.92
8841	128	PQFP	Single-Port Ethernet mAC Controller with Non-PCI Interface	KSZ8841-16MQL	SMD 110-0674	10.46	8.65	7.37	6.42	5.95
8842	128	PQFP	2-Port Ethernet Switch With Non-PCI Interface	KSZ8842-16MQL	SMD 110-0675	8.69	6.66	6.19	6.02	5.87
8893	128	PQFP	Integrated 3-Port 10/100 mAnaged Switch With PHYs	KSZ8893MQL	SMD 110-0676	8.29	6.37	6.04	5.88	5.73
8995	128	PQFP	Integrated 5-Port 10/100 mAnaged Switch	KSZ8995MA	SMD 110-0677	7.77	6.67	5.85	5.21	4.91

Communications - CAN / LIN

MCP2510 CAN Developer's Kit

MICROCHIP

The MCP2510 is a combination of a software development and a CAN communications tool, introducing the CAN protocol.
The software development has been made easy with a variety of features to allow manipulation of functionality of the MCP2510. CAN messages can be created and saved for future use and modification. Received messages are displayed on a separate window. All MCP2510 registers may be read, displayed and modified.
The tool can be used to demonstrate basic communications on a CAN bus via message transmission and reception. Messages are created on host PC and sent or received, indicated by LED toggle showing the message traffic.
Easy demonstration of message transmission and reception is illustrated by way of push button switches on the target board for digital inputs, potentiometer for analogue inputs via CAN bus.
Supplied with a universal power supply. UK mains (**439-319**) and European (**210-699**) mains plug leads available separately.

210940

	Order Code	Price Each
MCP2510 CAN development Kit	**315-4853**	171.64

MCP250XX CAN I/O Expanders Developer's Kit

MICROCHIP

The MCP250XX Development Kit is an evaluation, demonstration and development tool for Microchip Technology's 14-pin CAN I/O Expanders. The MCP250XX can be evaluated easily by installing the provided software and running the demonstration program. Furthermore, development can be accomplished by utilizing the bare CAN node with the prototyping area, as well as with the on-board device programmer.
The development board has the ability to program the user-defined defaults by using the device programmer module and the supplied software. Alternatively, the In-Circuit Serial Programming (ICSP™) protocol can be used to program the MCP250XX using the 5-pin header, which is connected to a 14-pin socket on the board.

Features:
- MCP250XX Development Board
- MCP250XX Development Kit CD-ROM with demo and programming software
- MCP250XX Development Kit User's Guide
- Three MCP25020 & Three MCP25050 CAN I/O Expanders

450871

		Order Code	Price Each
DV250501	MCP250XX CAN I/O Expanders Developer's Kit	**111-2779**	100.60

MCP2510 CAN Controllers

MICROCHIP

The MPC2510 is a full Controller Area Network (CAN) protocol controller implementing CAN specification V2.0 A/B. It supports CAN 1.2, CAN 2.0B Passive, and CAN 2.0B Active versions of the protocol, and is capable of transmitting and receiving standard and extended messages. It includes three transmit buffers and two receive buffers that reduce the amount of microcontroller work required.
The communication to the device is via an industry standard Serial Peripheral Interface (SPI) with data rates up to 5Mb/sec.

LATEST PRICING

Features:
- Implements Full CAN V2.0
- Programmable bit rate up to 1Mb/s
- Industrial temp. range -40°C to +85°C
- 0-8 Byte message length
- Low power 2.7V to 5.5V
- High speed SPI Interface 5MHz at 4.5V

Prices where indicated by a ↕ are subject to change. Please call your local sales office or visit www.farnell.com for the latest prices.

211007

Pins	Pins		Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
2510	18	DIP	Stand Alone Full CAN Controller (IND TEMP)	MCP2510-I/P	**975-8534**	1.65	1.42	1.19	1.13	1.08
2510	18	SOIC	Stand Alone Full CAN Controller (IND TEMP)	MCP2510-I/SO	SMD **975-8542**	1.65	1.42	1.19	1.13	1.08
2510	20	TSSOP	Stand Alone Full CAN Controller (IND TEMP)	MCP2510-I/ST	SMD **975-8550**	1.90	1.64	1.38	1.31	1.24

RL Re-reeling available

MCP2515 CAN Controller PICtail Demo Board



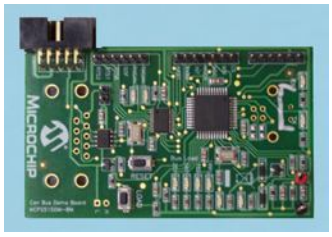
The MCP2515 PICtail™ Demo Board implements a simple CAN bus using two nodes. One node uses the MCP2515 Stand Alone CAN controller and the other node uses the MCP25020 CAN I/O Expander. Each node utilizes one input (push button) and one output (LED).
The board demonstrate a simple, inexpensive implementation of a CAN bus. The MCP2515 node transmits its input (push button) information at regular intervals and request input (push button) information from the MCP25020 at regular intervals. An LED on each node reflects the state of the other node's push button.

Features:
- Two CAN nodes consisting of:
- Node A: MCP2515, PIC16F676 and a MCP2551 CAN transceiver
- Node B: MCP25020 CAN I/O Expander and MCP2551 CAN transceiver
- Two headers on Node A, used for programming the PICmicro® MCU using the programming features of the PICkit™ 1 Flash Starter Kit or PICkit™ 2 Microcontroller Programmer. Neither header is populated

494792

Mftrs. List No.	Description	Order Code	Price Each 1+
MCP2515DM-PCTL	MCP2515 CAN Controller PICtail Demo Board	**133-2096**	20.16

MCP2515 CAN Bus Monitor Demo Board



New

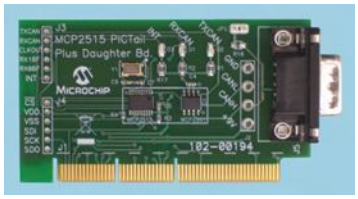
The MCP2515 CAN Bus Monitor Demo Board kit contains two identical boards which can be connected together to create a simple two node Controller Area Network (CAN) bus, which can be controlled and/or monitored via the included PC interface. The board(s) can also be connected to an existing CAN bus.Using the PC interface, users can configure the MCP2515 registers, send CAN messages, and receive CAN messages. CAN traffic can be generated using a button on the board not connected to the PC.There are also several headers (test points) so the MCP2515 pins can be monitored.

Features:
- Two identical boards and a CAN cable for creating a small CAN bus
- USB interface and PC software to interface to the CAN bus
- CAN bus PC software
- Button for changing the bus load on the Traffic Generator node
- Headers (test points) for monitoring the MCP2515 pins (CAN, SPI, and status/interrupt pins)
- PIC18F4550 PIC® Microcontroller (MCU) with ICD2 interface/header for in-circuit programming

527710

Mftrs. List No.	Description	Order Code	Price Each
MCP2515DM-BM	MCP2515 CAN Bus Monitor Demo Board	**167-6254**	33.96

MCP2515 PICtail Plus Daughter Board



New

The MCP2515 PICtail Plus Daughter Board is a simple Controller Area Network (CAN) board designed to be used with boards containing the PICtail Plus connector. The board also has the PICkit™ Serial connector for interfacing to the PICkit Serial Analyser tool. The CAN node consists of the MCP2515 Stand-Alone CAN controller and MCP2551 CAN transceiver. The PICkit Plus and PICkit Serial connectors allow the board to be interfaced to a variety of PICmicros so that the user can develop a CAN node. The board also contains headers or test points for most of the MCP2515 pins to allow the external functions to be monitored/evaluated.

Features:
- Stand-alone CAN controller and CAN transceiver
- PICtail Plus connector for attaching to Explorer 16 and other main boards with the connector
- DB9 connector for connecting to CAN networks using the psuedo standard pinout
- Footprint for terminal block connector for the CAN bus
- Test points for all of the MCP2515 pins

527711

Mftrs. List No.	Description	Order Code	Price Each
MCP2515DM-PTPLS	MCP2515 PICtail Plus Daughter Board	**167-6255**	24.70

PICDEM CAN-LIN 3



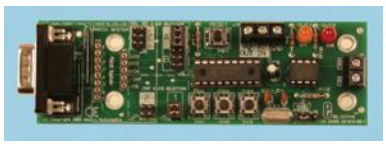
The PICDEM™ CAN-LIN 3 Development Kit provides predefined templates for demonstration, evaluation and development using Microchip's family of 64 and 80-pin CAN microcontrollers. This tool is ideal for beginning CAN designers, as well as those new to the PIC18F6585/6680/8585/8680 family of enhanced CAN devices.
TThe Demonstration Board provides three nodes (two CAN and one LIN bus) that can be configured in numerous ways through jumpers and component selection. The CAN nodes implement basic input and output functionality and can send and receive CAN bus messages. The Host Software, included with the kit, allows fine manipulation of the CAN devices down to the bit level, as well as high-level control of the microcontroller.

Features:
- On-board digital and analog +5V regulator for directinput from 12V AC/DC wall adapter
- Two on-board CAN nodes and optional external CANbus connectors
- On-board LIN Bus master and slave node
- DB-9 RS-232 interface to IBM compatible PC
- Two optional ICSP ICD 2 connectors
- Optional header for LCD panel
- CAN Bus monitoring software for PC
- Devices preprogrammed with CAN Bus monitorfirmware
- Generous prototyping area

450868

Mftrs. List No.	Description	Order Code	Price Each
DM163015	PICDEM CAN-LIN 3 Demo Board	**111-2738**	143.03

E-blocks CAN Board



New

This E-block is designed to allow a CAN bus communications system to be easily set up using a wide range of microcontroller devices - even those without embedded CAN functions. The board includes both a CAN Controller and a CAN Transceiver and uses the high speed SPI bus to configure the CAN controller for transmitting and receiving CAN information. The host microcontroller must therefore have an SPI bus module. The CAN transceiver converts the CAN controller signals into differential signal level used by the CAN bus, and vice versa. Flowcode macros for this E-block are available.

Features:
- Transmit and receive messages via CAN bus
- Allows processors with no CAN module access to the CAN bus
- Uses SPI bus for all configuration
- Access to dedicated input and output lines on the CAN controller
- 3 test switches and 2 test LEDs for development and training

516855

Mftrs. List No.	Description	Order Code	Price Each
EB018	E-blocks CAN Board	**162-0646**	28.00

ECAN/LIN PICtail Plus Daughter Board



New

The ECAN/LIN PICtail™ Plus Daughter Board is used with the Explorer 16 Development Board to facilitate rapid implementation and evaluation of applications that use Controller Area Network (CAN) and Local Interconnect Network (LIN) interfaces and are implemented on dsPIC33F Digital Signal Controllers and PIC24 16-bit microcontrollers.

Features:
- PICtail™ Plus interface
- 2x ECAN nodes with MCP2551 transceivers
- 2x LIN nodes with MCP2021-330 transceivers
- LIN Master or Slave selectable option
- External power supply input
- CD-ROM with example software and documentation

527557

Mftrs. List No.	Description	Order Code	Price Each
AC164130	ECAN/LIN PICtail Plus Daughter Board	**167-6244**	32.18

RL Re-reeling available

Communications - CAN / LIN - continued

LIN Serial Analyser

MICROCHIP



New

The LIN Serial Analyser development system enables a personal computer (PC) to communicate with a LIN (Local Interface Network) bus as a network debug and analysis tool. It can reside on the bus as a master, slave, or non-intrusive snooper. The included PC program uses a graphical user interface to enter and display message frames occurring on the target bus. The user interface program runs on Microsoft Windows® compatible computers with a USB port. The Visual Basic Express source code for the PC interface GUI is open-source and available on the Microchip website. The LIN Serial Analyser connects to the system network using a 3-position terminal block.

527560

Mftrs. List No.	Description	Order Code	Price Each
APGDT001	LIN Serial Analyser	167-6245●	46.45

£ € 40,000 PRICES REDUCED

Fault-Tolerant CAN/LIN Fail-Safe System Basis Chips

NXP

New

The UJA1061and the UJA1065 are fail-safe System Basis Chip (SBC) meaning basic discrete components which are usually present in ECUs are replaced with a Controller Area Network (CAN) and a Local Interconnect Network (LIN) interface, which are used as a local sub-bus. The fail-safe SBC supports all networking applications which control various power and sensor peripherals.
The UJA1061and the UJA1065 are designed to be used in combination with a microcontroller and a CAN controller, and are architectured for 14 V single power supply designs and for 14 V and 42 V dual power supply designs.

The UJA1061and the UJA1065 contain the following integrated devices:

- ISO11898-3 compliant fault-tolerant CAN transceiver, interoperable with TJA1054, TJA1054A and TJA1055 (UJA1061 only)
- High-speed CAN transceiver, inter-operable and downwards compatible with CAN transceiver TJA1041 and TJA1041A, and compatible with the ISO 11898-2 standard and the ISO 11898-5 standard (UJA1065 only)
- LIN transceiver compliant with LIN 2.0 and SAE J2602, and compatible with LIN 1.3
- Advanced independent watchdog
- Dedicated voltage regulators for microcontroller and CAN transceiver
- Serial peripheral interface (full duplex)
- Local wake-up input port
- Inhibit / limp home output port

519201

Pins/Pkg	Description	Mftrs List No.	Order Code	Price Each 1+	10+	100+
32/HTSSOP	Fail-Safe System Basis Chip	UJA1061TW/3V0,512	SMD160-3677●	3.97	2.65	2.12
32/HTSSOP	Fail-Safe System Basis Chip	UJA1061TW/3V3,512	SMD160-3678●	3.97	2.65	2.12
32/HTSSOP	Fail-Safe System Basis Chip	UJA1061TW/5V0,512	SMD160-3679●	3.97	2.65	2.12
32/HTSSOP	Fail-Safe System Basis Chip	UJA1065TW/3V0,512	SMD160-3680●	3.77	2.51	2.02
32/HTSSOP	Fail-Safe System Basis Chip	UJA1065TW/3V3,512	SMD160-3682●	3.77	2.51	2.02
32/HTSSOP	Fail-Safe System Basis Chip	UJA1065TW/5V0,512	SMD160-3683●	3.77	2.51	2.02

LIN Fail-Safe System Basis Chip

NXP

New

The UJA1069 is a fail-safe System Basis Chip (SBC) meaning basic discrete components which are usually present in ECUs are replaced with a Local Interconnect Network (LIN) interface, which is used as a local sub-bus. The fail-safe SBC supports all networking applications which control various power and sensor peripherals.
The UJA1069 is designed to be used in combination with a microcontroller and a LIN controller. The UJA1069 is architectured for 14 V single power supply designs and for 14 V and 42 V dual power supply designs.

The UJA1069 contains the following integrated devices:

- LIN transceiver compliant with LIN 2.0 and SAE J2602, and compatible with LIN 1.3
- Advanced independent watchdog
- Dedicated voltage regulators for microcontroller
- Serial peripheral interface (full duplex)
- Local wake-up input port
- Inhibit / limp home output port

519235

Pins/Pkg	Description	Mftrs List No.	Order Code	Price Each 1+	10+	100+
32/HTSSOP	Fail-Safe System Basis Chip	UJA1069TW/3V0,512	SMD160-3684●	2.99	2.00	1.60
32/HTSSOP	Fail-Safe System Basis Chip	UJA1069TW/3V3,512	SMD160-3685●	2.99	2.00	1.60
32/HTSSOP	Fail-Safe System Basis Chip	UJA1069TW/5V0,512	SMD160-3686●	2.99	2.00	1.60
24/HTSSOP	Fail-Safe System Basis Chip	UJA1069TW24/3V0,512	SMD160-3687●	2.99	2.00	1.60
24/HTSSOP	Fail-Safe System Basis Chip	UJA1069TW24/3V3,512	SMD160-3688●	2.99	2.00	1.60
24/HTSSOP	Fail-Safe System Basis Chip	UJA1069TW24/5V0,512	SMD160-3689●	2.99	2.00	1.60

MAX1305x CAN Transceivers

MAXIM

New

The MAX13050/MAX13052/MAX13053/MAX13054 are pin-for-pin compatible, industry-standard, high-speed, control area network (CAN) transceivers with extended ±80V fault protection. These products are ideal automotive and industrial network applications where overvoltage protection is required. These CAN transceivers provide a link between the CAN protocol controller and the physical wires of the bus lines in a CAN. These devices can be used for +12V/+42V battery, automotive, and DeviceNet® applications, requiring data rates up to 1Mbps.

Mftrs. List No.	Split	Slope Control	Standby Mode	Silent Mode	3.3V Supply	Ref.
MAX13050ASA+	✓	–	✓	–	–	–
MAX13052ESA+	✓	✓	✓	–	–	–
MAX13052ASA+	✓	✓	✓	–	–	–
MAX13053ESA+	–	–	–	✓	–	✓
MAX13053ASA+	–	–	–	✓	–	✓
MAX13054ASA+	–	–	✓	–	✓	–

510407

Mftrs. List No.	Pins/Pkg	Temp Range (°C)	Order Code	Price Each 1+	10+	100+	250+
MAX13050ASA+	8/SOIC	-40 to 125	SMD160-0111●	2.29	1.83	1.52	1.52
MAX13052ESA+	8/SOIC	-40 to 85	SMD160-0112●	1.88	1.51	1.27	1.27
MAX13052ASA+	8/SOIC	-40 to 125	SMD160-0113●	2.14	1.72	1.44	1.44
MAX13053ESA+	8/SOIC	-40 to 85	SMD160-0115●	1.88	1.51	1.27	1.27
MAX13053ASA+	8/SOIC	-40 to 125	SMD160-0116●	2.14	1.72	1.44	1.44
MAX13054ASA+	8/SOIC	-40 to 125	SMD160-0117●	2.41	1.93	1.61	1.61

FREE technical support
Our trained engineers are here to help!
08447 11 11 22
techsales@farnell.co.uk
Live technical chat at www.farnell.co.uk

RL Re-reeling available

CAN Controllers & Interfaces

These devices provide the interface between the CAN protocol controller and the physical bus.

234799

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
65	TI	8	SOIC	High Speed CAN Transceiver	SN65LBC031D	NEW SMD 162-4403●	2.77	2.11	1.60
65	TI	8	SOIC	EMC Optimized Can Transceiver	SN65HVD1050D	SMD 122-0984●	0.76	0.66	0.58
65	TI	8	SOIC	Transceiver, CAN, 3.3V w/Standby	SN65HVD230DR	SMD 845-2148●	2.71	1.85	1.37
65	TI	8	SOIC	Transceiver, CAN, 3.3V w/36V Standoff	SN65HVD233DG4	SMD 120-7268●	1.98	1.75	1.56
65	TI	8	SOIC	Transceiver, CAN, 3.3V w/36V Standoff	SN65HVD234D	SMD 121-2363●	2.71	1.85	1.37
65	TI	8	SOIC	Transceiver, CAN, 3.3V w/36V Standoff	SN65HVD235DG4	SMD 120-7269●	1.98	1.75	1.57
65	TI	8	SOIC	Transceiver, CAN, 5.0V w/36V Standoff	SN65HVD251D	SMD 121-2364●	1.36	1.30	0.98
82	NXP	8	DIP	CAN Controller Interface (EXT TEMP)	PCA82C250/N4	SMD 369-2358●	1.16	0.85	0.64
82	NXP	8	SOIC	CAN Controller Interface (EXT TEMP)	PCA82C250T/N4	SMD 108-5275●	1.16	0.85	0.64
82	NXP	8	DIP	CAN Transceiver for 24V systems (EXT TEMP)	PCA82C251/N3	SMD 369-2371●	1.22	0.90	0.67
82	NXP	8	SOIC	CAN Transceiver for 24V systems (EXT TEMP)	PCA82C251T/N3	SMD 120-1274●	1.06	0.82	0.64
1000	PS	28	DIP	Stand Alone CAN Controller (EXT TEMP)	SJA1000/N1,112	880-4648●	4.10	3.15	2.47
1000	NXP	20	SOIC	CONTROLLER, CAN, STAND ALONE	SJA1000T/N1,112	NEW SMD 162-7057▲	4.73	3.79	3.16
1000	NXP	20	SOIC	CONTROLLER, CAN, STAND ALONE	SJA1000T/N1,118	NEW SMD 162-7058▲	4.73	3.79	3.16
1020	PS	8	SOIC	LIN Transceiver (EXT TEMP)	TJA1020T/N1,112	SMD 880-4583●	0.92	0.62	0.51
1021	TI	8	TO-252 (D-Pak)	Lin Physical Interface	TPIC1021D	SMD 122-0985	0.76	0.66	0.58
1021	NXP	8	SO	LIN 2.0/SAE J2602 Transceiver, 20kbps Max	TJA1021T	SMD 150-6635●	0.77	0.61	0.51
1021	NXP	8	SOIC	LIN 2.0/SAE J2602 Transceiver	TJA1021T/10,118	NEW SMD 160-3694●	0.72	0.48	0.39
1021	NXP	8	SOIC	LIN 2.0/SAE J2602 Transceiver	TJA1021T/20,118	NEW SMD 160-3695●	0.72	0.48	0.39
1040	NXP	8	SOIC	High speed CAN Transceiver	TJA1040T/N1,118	NEW SMD 160-3676●	1.05	0.70	0.57
1041	NXP	14	SO	High speed CAN transceiver	TJA1041AT	SMD 150-6636●	1.63	1.31	1.08
1050	PS	8	SOIC	High Speed CAN Transceiver (EXT TEMP)	TJA1050T/N1,112	SMD 880-4613●	1.15	0.78	0.63
1054	NXP	14	SO	Fault-tolerant CAN transceiver	TJA1054AT	SMD 150-6637●	1.82	1.24	0.89
1055	NXP	14	SO	Enhanced fault-tolerant CAN transceiver	TJA1055T	SMD 150-6639●	1.27	1.01	0.85
1055	NXP	14	SOIC	Enhanced Fault-Tolerant CAN Transceiver 125 kBd	TJA1055T/3,512	NEW SMD 160-3675●	1.33	0.89	0.70
2515	MCHIP	18	SOIC	1Mbps CAN Controller with Serial Interface with 3 Tx/ 2 Rx Buffers	MCP2515-E/SO	NEW SMD 160-5565●	2.45	1.85	1.46
2515	MCHIP	20	TSSOP	1Mbps CAN Controller with Serial Interface with 3 Tx/ 2 Rx Buffers	MCP2515-E/ST	NEW SMD 160-5566●	2.68	2.03	1.60
2515	MCHIP	18	PDIP	Stand-Alone CAN Controller with SPI	MCP2515-I/P	143-9391●	1.52	1.13	0.98
2515	MCHIP	18	SOIC	CAN Controller, SPI	MCP2515-I/SO	SMD 129-2239●	1.52	1.13	0.98
2515	MCHIP	20	TSSOP	Stand-Alone CAN Controller With SPI Interface	MCP2515-I/ST	SMD 119-6851●	2.09	1.24	1.08
2551	MCHIP	8	DIP	High-Speed CAN Transceiver	MCP2551-E/P	143-9745●	0.96	0.62	0.47
2551	MCHIP	8	DIP	CAN TRANSCEIVER	MCP2551-I/P	129-2240●	0.98	0.54	0.47
2551	MCHIP	8	SOIC	CAN High Speed Transceiver (IND TEMP)	MCP2551-I/SN	SMD 975-8569●	0.98	0.54	0.47
5790	NXP	14	SO	Single wire CAN transceiver	AU5790D14	SMD 150-6634●	1.85	1.26	0.94
5790	NXP	8	SOIC	Single-Wire CAN Transceiver	AU5790D,118	NEW SMD 162-7044●	1.58	1.27	1.06
8574	NXP	16	DIP	Remote 8-bit I/O expander for I2C-bus with interrupt	PCA8574N	150-6641●	1.19	0.80	0.58
8574	NXP	20	SSOP	Remote 8-bit I/O expander for I2C-bus with interrupt	PCA8574TS	SMD 150-6642●	1.04	0.74	0.58
8575	NXP	24	SSOP	Remote 16-bit I/O expander for I2C-bus with interrupt	PCA8575DB	SMD 150-6643●	1.03	0.75	0.59
8574	NXP	16	SO	Remote 8-bit I/O expander for I2C-bus	PCF8574T/3	SMD 150-6644●	1.03	0.75	0.59
25050	MCHIP	14	DIP	Mixed-signal CAN I/O Expander	MCP25050-I/P	NEW 143-9736●	3.00	1.68	1.46
33889	FSL	28	SOIC-W	System Basis Chip with Low Speed Fault Tolerant CAN Interface	MCZ33889BEG.	NEW SMD 156-6188●	3.22	2.85	2.34
33889	FSL	28	SOIC-W	System Basis Chip with Low Speed Fault Tolerant CAN Interface	MCZ33889DEG.	NEW SMD 156-6189●	3.22	2.85	2.34
33897	FSL	8	SOICN	83.33kbps Single Wire CAN Transceiver	MCZ33897AEF	NEW SMD 156-6190●	1.80	1.39	1.15
33897	FSL	14	SOICN	83.33kbps Single Wire CAN Transceiver	MCZ33897EF	NEW SMD 156-6191●	1.80	1.39	1.15
33989	FSL	28	SOIC-W	System Basis Chip with High-Speed CAN Transceiver	MCZ33989EG.	NEW SMD 156-6193●	2.91	2.60	2.14

Communications - I/O

MCP23X08 8-Bit GPIO Expander Evaluation Board



Demonstrates simple input/output functionality of the MCP23008 (I^2C™ interface) and the MCP23S08 (SPI™ interface). The system demonstrates the simplicity of monitoring four inputs and applying the level to associated outputs.

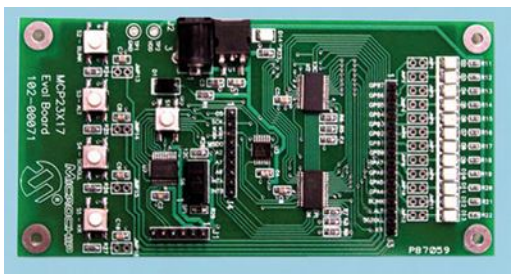
Features:

- Demonstrates the MCP23X08 devices in a simple I/O application
- Includes two I/O expanders that are switch selectable: the MCP23008 with I^2C interface and the MCP23S08 with SPI interface
- ICSP header for the PIC10F202 allows users to customize firmware to further evaluate the MCP23X08
- Jumpers and headers allow the MCP23X08 to connect directly to custom applications for prototype work
- Can be powered from a 3.0V to 5.5V DC power source (connected to the +5V and GND test points)

478234

Mftrs. List No.	Order Code	Price Each 1+
MCP23X08EV	133-2094●	12.60

MCP23X17 16-Bit GPIO Expander Evaluation Board



The MCP23X17 16-bit GPIO Expander Evaluation Board demonstrates simple input/output functionality of the MCP23017 (I^2C™ interface) and the MCP23S17 (SPI™ interface). The system demonstrates the simplicity of monitoring four pins configured as inputs and applying a predetermined pattern on LEDs connected to the remaining 12 pins configured as outputs.

Features:

- Demonstrates the MCP23X17 devices in a simple I/O application
- ICSP header for the PICmicro allows users to customize firmware to further evaluate the MCP23X17
- Jumpers and headers allow the MCP23X17 to connect directly to custom applications for prototype work
- Can be powered from a 3.0V to 5V DC power source (connected to the +5V and GND test points)

478240

Mftrs. List No.	Order Code	Price Each 1+
MCP23X17EV	133-2095●	20.16

expandIO-USB™

Driver-Free USB I/O Expander for Software Controlled Peripherals



expandIO-USB is an ultra-low cost USB I/O expander. It allows a PIC microcontroller to be remotely controlled via USB, significantly reducing time-to-market for simple USB-based products.
It provides control of most microcontroller functions and is available for PIC18-F14K50, LF2450, LF2455, LF4450 and LF4455 microcontrollers.

Features:

- True HID plug and play - No drivers required
- Ultra-low cost, single chip solution
- Low speed version can use a low cost resonator, 200 commands per second
- Full speed version can process up to 32K commands per second
- Product/Manufacturer name, serial number, GUID & 122-byte EEPROM configurable over USB
- No Vendor ID / Product ID registration required
- USB 2.0 compatible
- USB / Self Power inputs
- Optional Configured, Suspended and All-Systems-Go, Tx / Rx indications
- DIL, SSOP, QFP packages

525850

Mftrs List No.	Description	Order Code	Price Each
EXPANDIO-USB-FS-DIL-28	Pre-Programmed 28-Pin DIL	167-0831●	6.32
EXPANDIO-USB-PT-FS	Pre-Programmed 40-Pin TQFP	SMD 167-0832●	6.10
EXPANDIO-USB-SS	Pre-Programmed 20-Pin SSOP	SMD 167-0833●	3.55

Communications - I/O - continued

GPIO Expander Keypad and LCD Demo Board

MICROCHIP

New



The GPIO Expander Keypad and LCD Demo Board is designed to demonstrate the use of the MCP23S08/17 (SPI interface) and the MCP23008/17 (I2C interface) devices in a keypad and LCD example. The MCP23X17 (16-bit) devices interface to a 2x16 LCD module and the MCP23X08 (8-bit) devices interface to a 4x4 keyed matrix.

Features:

- Demonstrates the use of MCP23X08 and MCP23X17 devices for LCD and keypad applications
- Test points allow for easy monitoring of SPI and I2C buses, as well as the keypad and LCD interface to PIC
- ICSP header for the PIC® microcontroller allows users to customise firmware to further evaluate the MCP23X08/17 devices
- Can be powered from a 3 to 5V DC power source (connected to +5V and GND test points)

525164

Mftrs. List No.	Description	Order Code	Price Each
GPIODM-KPLCD	GPIO Expander Keypad and LCD Demo Board	166-2529●	33.53

210801

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+
Z80										
80	ZILog	40	DIP	Dual Asynchronous Receiver/Transmitter - 6MHz (Z80BDARTPS)	Z0847006PSG	108-1863●	4.36	3.26	2.44	– –
84C20	ZILog	40	DIP	CMOS Z80A PIO - 6MHz	Z84C2006PEG	108-1865●	5.16	4.22	3.63	– –
84C20	ZILog	40	DIP	CMOS Z80A PIO - 8MHz	Z84C2008PEG	108-1892●	4.69	2.86	2.41	– –
84C30	ZILog	28	DIP	CMOS Z80A CTC - 6MHz	Z84C3006PEG	108-1866●	4.39	2.80	2.15	– –
84C40	ZILog	40	DIP	CMOS Z80A SIO/O - 6MHz	Z84C4006PEG	108-1867●	12.32	7.90	6.22	– –
84C42	ZILog	40	DIP	CMOS Z80A SIO/2 - 6MHz	Z84C4206PEG	108-1868●	12.32	7.90	6.22	– –
85C30	ZILog	40	DIP	CMOS Serial Communications Controller - 8MHz	Z85C3008PSG	108-1872●	7.01	4.47	3.17	– –
85C30	ZILog	44	PLCC	CMOS Serial Communications Controller - 8MHz	Z85C3008VSG	SMD 108-1873●	7.47	4.85	4.45	– –
8530	ZILog	44	PLCC	Serial Communications Controller - 6MHz	Z0853006VSG	SMD 108-1888●	6.12	5.12	4.56	– –
8530	ZILog	40	DIP	Serial Communications Controller - 8MHz	Z0853008PSG	108-1870●	7.58	6.23	5.80	– –
8536	ZILog	44	PLCC	Counter/Timer and Parallel I/O Unit - 6MHz	Z0853606VSG	SMD 108-1889●	8.72	6.17	5.08	– –
Integrated Z80										
84C90	ZILog	84	PLCC	CMOS Z80 Peripheral Circuit With CTC, SIO, PIO, a byte-wide Bit Programmable I/O port, and a crystal oscillator, 8MHz	Z84C9008VSG	SMD 108-1869●	11.34	8.18	6.40	– –
I/O Expanders for 8048, 8400										
8574A	NXP	16	DIP	CMOS I/O Expander for 8400/84C. Different slave address.	PCF8574AP	390-197●	2.81	2.04	1.54	1.53
8574A	NXP	16	SOIC	CMOS I/O Expander for 8400/84C	PCF8574AT	SMD 120-1333●	2.58	1.99	1.55	1.54
8574	NXP	16	DIP	CMOS I/O Expander for 8400/84C. Different slave address.	PCF8574P	204-020●	2.79	2.03	1.53	1.52
8574	NXP	16	SOIC	CMOS I/O Expander for 8400/84C	PCF8574T	SMD 120-1255●	2.64	1.93	1.45	1.44
Serial I/O Expanders										
23S08	MCHIP	20	SSOP	8-Bit I/O Expander with SPI Interface	MCP23S08-E/SS	SMD 129-2236●	1.01	0.56	0.50	– –
2120	SLAB	20	QFN	SPI-I2C BRIDGE,GPIO EXPANDER	CP2120-GM	SMD 129-5414●	1.96	1.31	1.16	– –
Parallel I/O Expanders										
23008	MCHIP	18	PDIP	8-Bit I/O Expander with Serial Interface	MCP23008-E/P	143-9387●	0.89	0.52	0.45	– –
23016	MCHIP	28	SOIC	16-Bit I2C™ I/O Expander	MCP23016-I/SO	SMD 143-9758●	1.40	0.79	0.68	– –
23016	MCHIP	28	SPDIP	16-Bit I2C™ I/O Expander	MCP23016-I/SP	SMD 143-9389●	1.38	0.79	0.68	– –
23016	MCHIP	28	SSOP	16-Bit I2C™ I/O Expander	MCP23016-I/SS	SMD 143-9757●	1.51	0.84	0.73	– –
Microcontroller Module										
2250	MAX	40	SIMM	Soft Microcontroller Module.	DS2250T-64-16+	137-9735●	67.71	60.37	45.05	43.89

Comparators

210420

	Mftr.	Pins	Pkg	Description	Response Time (ns) typ.	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
Single												
74	TI	20	PDIP	Two 8-Bit Word Identity Comparator		SN74ALS521N	NEW 156-4959●	0.880	0.710	0.640	0.530	0.450
111	NSC	8	TO-5	Voltage Comparator (MIL TEMP)	200	LM111H	121-6162●	7.060	4.780	3.920	3.690	3.340
211	ON SEMI	8	SOIC	Comparator	200	LM211DG..	SMD 142-6405●	0.280	0.240	0.210	0.192	0.153
211	TI	8	SOIC	Single, Strobed Differential Comparator With Open Collector and Emitter Outputs	115	LM211D	SMD 229-2464●	0.185	0.169	0.132	– –	– –
211	NSC	8	TO-5	Voltage Comparator (IND TEMP)	200	LM211H	121-6163●	5.810	4.330	3.390	2.800	2.420
306	TI	8	PDIP	Single Differential Voltage Comparator with Strobe Control	28	LM306P	NEW 156-4868●	0.880	0.710	0.640	0.530	0.450
311	TI	8	PDIP	Single Differential Comparator With Strobes	0.115	LM311P..	NEW 164-8675●	0.138	0.124	0.110	0.096	0.082
311	ON SEMI	8	SOIC	Comparator	200	LM311DG	SMD 142-6406●	0.153	0.140	0.130	0.116	0.093
311	TI	8	PDIP	Differential Comparator With Strobes	–	LM311P	NEW 156-4937●	0.210	0.171	0.146	0.121	0.096
311	TI	8	SOIC	Single, Strobed Differential Comparator	115	LM311D	SMD 229-3183●	0.220	0.186	0.146	– –	– –
311	NSC	8	TO-5	Voltage Comparator	200	LM311H	121-6164●	3.300	3.280	2.800	2.550	2.420
311	ST	8	DIP	Voltage Comparator	200	LM311N	975-5942●	0.540	0.360	0.230	0.191	0.135
311	ON	8	DIP	Voltage Comparator	200	LM311NG	121-4465●	0.500	0.340	0.250	0.196	0.148
311	TI	8	SOIC	Single, Low-Power, Strobed Differential Comparator	1.2	LP311D	SMD 958-9678●	0.730	0.720	0.550	– –	– –
321	TI	5	SC-70	Single General Purpose Low-Voltage Comparator	–	LMV331IDCKTE4	SMD 128-7440●	0.710	0.610	0.480	0.370	0.340
331	TI	5	SOT-23	Single Low Voltage Comparator	1000	LMV331IDBVR	SMD 110-5936●	0.430	0.280	0.198	– –	– –
331	NSC	5	SOT-23	General Purpose, Low Voltage TinyPack Comparator.	1000	LMV331M5	SMD 119-7386●	0.470	0.260	0.210	– –	– –
331	TI	5	SOT-23	Single Differential Comparator	–	TL331IDBVRG4	SMD 128-7653●	0.300	0.260	0.198	0.158	0.141
360	NSC	8	SOIC	Single High Speed Differential Comparator 20nsec	12	LM360M/NOPB	NEW SMD 168-5339●	3.900	3.030	2.480	2.270	2.030
361	ADI	5	SOT-23	Single 0.275% Comparator and Reference with Dual Polarity Outputs	–	ADCMP361YRJZ	SMD 146-1498●	0.810	0.720	0.660	0.590	0.510
361	NSC	14	DIP	High Speed Differential Comparator	12	LM361N	948-7573●	2.220	1.900	1.630	1.560	1.460
392	NSC	8	SOIC-8	Low Power Operational Amp./Voltage Comparator.	1300	LM392M	SMD 948-6755●	1.090	0.900	0.830	0.800	0.750
392	NSC	8	SOIC	Low Power Operational Amp./Voltage Comparator.	1300	LM392M.	SMD 398-585	0.700	0.570	0.460	0.320	0.300
392	NSC	8	DIP	Op Amp / Volt. Comp.	1300	LM392N	948-6763●	1.230	1.000	0.910	0.800	0.660
397	NSC	5	SOT-23	Voltage Comparator With open collector output stage. (IND TEMP)	440	LM397MF	SMD 977-9108● RL	0.530	0.410	0.320	– –	– –
600	ADI	5	SOT-23	Single-Supply Rail-Rail TTL/CMOS Comparator.	3.5	ADCMP600BRJZ-R2	SMD 133-1023●	2.860	2.450	1.940	1.920	1.800
601	ADI	6	SC-70	Single-Supply Rail-Rail TTL/CMOS Comparators	3.5	ADCMP601BKSZ-R2	SMD 133-1025●	3.010	2.570	2.040	2.010	1.880
602	ADI	8	MSOP	Rail-Rail TTL/CMOS Comparator.	3.5	ADCMP602BRMZ	SMD 133-1026●	4.580	3.120	2.320	2.200	2.050
603	ADI	12	LFCSP	Rail-Rail TTL/CMOS Comparator.	3.5	ADCMP603BCPZ-R2	SMD 133-1027●	2.710	2.310	1.830	1.820	1.700
604	ADI	6	SC-70	Rail-Rail Single-Supply LVDS Comparator	1.6	ADCMP604BKSZ-R2	SMD 133-1028●	3.760	3.200	2.540	2.520	2.360
605	ADI	12	LFCSP	Rail-Rail LVDS Comparator	1.5	ADCMP605BCPZ-R2	SMD 133-1029●	2.900	2.660	2.460	2.290	2.140
606	ADI	6	SC-70	Rail-Rail CML Comparator	1	ADCMP606BKSZ-R2	SMD 133-1030●	3.760	3.200	2.540	2.520	2.360
607	ADI	12	LFCSP	Rail-Rail CML Comparator	1.25	ADCMP607BCPZ-R2	SMD 133-1031●	4.060	3.250	2.960	2.500	2.250
608	ADI	6	SC-70	Rail-Rail TTL/CMOS Comparator.	30	ADCMP608BKSZ-R2	SMD 133-1032●	1.290	1.170	1.050	0.940	0.820
609	ADI	8	MSOP	Rail-Rail TTL/CMOS Comparator.	30	ADCMP609BRMZ	SMD 133-1033●	1.290	1.170	1.120	1.090	1.060
749	MAX	8	SOIC	LCD Bias Supply, digitally adjustable.	–	MAX749CSA+	SMD 972-6365●	5.400	3.870	2.850	2.370	– –
761	NSC	8	SOIC	Low Voltage, Precision Comparator With Push-Pull Output	0.12	LMV761MA	SMD 949-0590●	1.320	0.900	0.730	– –	– –
761	NSC	6	SOT-23	Low Voltage, Precision Comparator With Push-Pull Output	0.12	LMV761MF	SMD 977-9388●	0.960	0.700	0.560	– –	– –
790	ADI	8	SOIC	Single Fast Precision Comparator	45	AD790JRZ	NEW SMD 165-1266●	5.710	4.700	3.840	3.520	3.380
790	ADI	8	DIP	Comparator With latch	30	AD790JNZ	960-5045●	7.330	5.020	4.050	– –	– –
903	MAX	8	SOIC	High Speed, Low Power Differential Comparator	8	MAX903CSA+	SMD 972-4621●	6.390	4.470	3.640	– –	– –

RL Re-reeling available

	Mftr.	Pins	Pkg	Description	Response Time (ns) typ.	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
Single												
921	MAX					MAX921CSA+	NEW 161-0134●	2.470	2.040	1.660	1.400	1.300
921	MAX	8	SOIC	Dual Supply Single Comparator with 1.182V Reference	12	MAX921ESA+	NEW SMD 159-3398●	3.030	2.350	2.120	1.760	1.510
931	MAX	8	SOIC	Single Comparator	12	MAX931ESA+	SMD 142-2369●	2.050	1.490	1.310	1.120	1.000
931	MAX	8	DIP	Ultra Low Power, CMOS Comparator	4000	MAX931CPA+	118-8000●	2.190	1.410	1.170	0.870	0.840
941	MAX	8	DIP	High Speed, Low Power, Rail-to-Rail, CMOS Comparator	80	MAX941CPA+	129-0856●	2.290	1.610	1.300	1.160	1.140
951	MAX	8	SOIC	Op Amp, Comparator & Reference	–	MAX951ESA+	SMD 142-2371●	3.340	2.340	1.790	1.610	1.490
951	MAX	8	DIP	Low Power, Single Supply Operational Amp. and Comparator With internal Reference. (IND TEMP)	4000	MAX951EPA+	129-0865●	3.540	2.540	1.940	1.650	– –
961	MAX	8	SOIC	Low Power, High Speed Comparator With Input common mode range extending beyond the rails	4500	MAX961ESA+	SMD 972-5806●	5.400	3.800	2.990	– –	– –
975	MAX	8	SOIC	TTL/CMOS Dual-Speed/Supply Comparator with Auto-Standby	28	MAX975ESA+	NEW SMD 156-9967●	2.980	2.650	2.150	1.830	1.700
999	MAX	5	SOT-23	Low Power, High Speed Comparator With Input common mode range extending beyond the rails	4500	MAX999EUK+	SMD 972-5814●	5.640	4.120	3.360	– –	– –
1011	LT	8	SOIC	Single Voltage Comparator	150	LT1011CS8#PBF	NEW SMD 166-3328●	3.030	2.270	1.820	1.510	1.350
1016	LT	8	DIP	High Speed Precision Comparator	10	LT1016CN8#PBF	955-9353●	5.200	2.950	2.270	– –	– –
1016	LT	8	SOIC	High Speed Precision Comparator	10	LT1016CS8#PBF	SMD 955-9361●	5.790	3.280	2.460	– –	– –
1394	LT	8	SOIC	7ns Low Power Single Supply Ground Sensing Comparator	7	LT1394CS8#PBF	NEW SMD 166-3420●	4.850	3.630	2.910	2.420	2.170
1440	LT	8	SOIC	Ultralow Power Single Comparator with Reference	5	LTC1440IS8#PBF	NEW SMD 166-3623●	2.990	2.320	1.850	1.540	1.390
1440	LT	8	DIP	Ultra Low Power, CMOS Comparator With Programmable hysteresis	4000	LTC1440CN8#PBF	113-6643●	2.610	1.490	1.150	– –	– –
1440	LT	8	SOIC	UltraLow Power Comparator With Reference	–	LTC1440CS8#PBF	SMD 956-1145●	2.610	1.490	1.150	– –	– –
1540	LT	8	MSOP	Single Nanopower Comparator with Reference	50	LTC1540CMS8#PBF	NEW SMD 166-3643●	3.100	2.400	1.920	1.600	1.430
1540	LT	8	SOIC	Single Nanopower Comparator with Reference	50	LTC1540IS8#PBF	NEW SMD 166-3644●	3.200	2.490	1.990	1.660	1.490
1671	LT	8	SOIC	60ns Single Supply Ground-Sensing Single Comparator	60	LT1671CS8#PBF	NEW SMD 166-3466●	3.200	2.490	1.990	1.660	1.490
1711	LT	8	MSOP	4.5ns Rail-to-Rail Single Comparator	4.5	LT1711CMS8#PBF	NEW SMD 166-3469●	4.140	3.110	2.490	2.070	1.850
1713	LT	8	MSOP	Single, 7ns, Low Power, 3V/5V/±5V Rail-to-Rail Comparators	8	LT1713CMS8#PBF	SMD 141-7740●	3.480	2.780	1.760	– –	– –
1713	LT	8	MSOP	Single, 7ns, Low Power, 3V/5V/±5V Rail-to-Rail Comparators	8	LT1713IMS8#PBF	SMD 141-7742●	4.130	2.340	1.810	– –	– –
1716	LT	5	SOT-23	44V Over-The-Top Micropower Precision R/R Single Comparator	3	LT1716CS5#TRMPBF	NEW SMD 166-3767●	2.030	1.580	1.260	1.040	0.940
1716	LT	5	SOT-23	44V Over-The-Top Micropower Precision R/R Single Comparator	5.5	LT1716HS5#TRMPBF	NEW SMD 166-3769●	2.380	1.840	1.480	1.230	1.100
1716	LT	5	SOT-23	44V Over-The-Top Micropower Precision R/R Single Comparator	3	LT1716IS5#TRMPBF	NEW SMD 166-3771●	2.380	1.840	1.480	1.230	1.100
1716	LT	5	SOT-23	44V, Over-The-Top, Micropower, Precision Rail-to-Rail Comparator	3000	LT1716CS5#PBF	SMD 141-7738●	1.730	1.390	0.870	– –	– –
1716	LT	5	SOT-23	44V, Over-The-Top, Micropower, Precision Rail-to-Rail Comparator	3000	LT1716HS5#PBF	SMD 141-7739●	2.130	1.240	0.980	– –	– –
1719	LT	8	SOIC	4.5ns Single/Dual Supply Single Comparator with R/R Output	4.5	LT1719CS8#PBF	NEW SMD 166-3473●	3.780	2.840	2.270	1.900	1.690
1719	LT	6	SOT-23	4.5ns Single/Dual Supply Single Comparator with R/R Output	4.5	LT1719CS6#TRMPBF	NEW SMD 166-3772●	2.840	2.200	1.760	1.460	1.320
1719	LT	6	SOT-23	4.5ns Single/Dual Supply Single Comparator with R/R Output	4.5	LT1719IS6#TRMPBF	NEW SMD 166-3773●	3.190	2.470	1.980	1.650	1.480
2200	ON	6	UDFN	Low Voltage Comparators	1100	NCS2200AMUT1G	SMD 136-9752●	0.580	0.460	0.380	0.330	0.310
2220	ON SEMI	6	UDFN	Single Low Power Comparator	–	NCS2220AMUT1G	SMD 142-6377●	0.840	0.660	0.580	0.540	0.500
3011	TI	6	SOT-23	Comparator + Reference, Open Drain	6	TLV3011AIDBVT	SMD 121-2373●	0.970	0.830	0.770	– –	– –
3011	TI	6	SC-70	Comparator With Voltage Reference	6	TLV3011AIDCKT	SMD 118-0144●	1.880	1.650	1.420	1.190	0.960
3012	TI	6	SOT-23	Comparator + Reference, Push-Pull	6	TLV3012AIDBVTG4	SMD 120-7296●	0.940	0.820	0.810	– –	– –
3012	TI	6	SC-70	Comparator With Voltage Reference	6	TLV3012AIDCKT	SMD 118-0145●	1.900	1.290	0.930	0.770	0.760
3016	TI	8	SOIC	Comparator	0.0078	TL3016CD	SMD 845-3586●	1.470	1.210	0.870	– –	– –
3016	TI	8	SOIC	Comparator	0.0078	TL3016ID	SMD 845-3594●	1.340	1.010	0.860	– –	– –
3021	ST	5	SC-70	Rail-to-Rail 1.8V High-Speed Micropower Comparator	40	TS3021ICT	SMD 137-4150●	2.090	1.540	1.230	1.040	0.930
3116	TI	8	SOIC	Comparator	0.0099	TL3116CD	SMD 845-3608●	0.930	0.830	0.610	– –	– –
3491	TI	5	SOT-23	Comparator	6	TLV3491AIDBVTG4	SMD 120-7299●	0.450	0.440	0.420	– –	– –
6511	NSC	8	SOIC	180 ns 3V Single Comparator	180	LM6511IM/NOPB	NEW SMD 168-5384●	2.360	1.840	1.500	1.370	1.230
6541	MCHIP	8	SOIC	Single Push-Pull Output Sub-Microamp Comparator	4	MCP6541-I/SN	NEW SMD 155-7429●	0.470	0.360	0.280	– –	– –
6541	MCHIP	8	SOIC	Push-Pull Output Sub-Microamp Comparator	4000	MCP6541-E/SN	SMD 143-9473●	0.380	0.240	0.210	– –	– –
6541	MCHIP	8	DIP	Comparator, Single Push/Pull	4	MCP6541-E/P	133-2135●	0.350	0.290	0.196	– –	– –
6541	MCHIP	5	SOT-23	Comparator, Single Push/Pull	4	MCP6541T-E/OT	SMD 133-2136●	0.300	0.183	0.167	– –	– –
6546	MCHIP	8	DIP	Comparator, Single Open Drain	4	MCP6546-E/P	133-2141●	0.350	0.290	0.196	– –	– –
6546	MCHIP	8	SOIC	Comparator, Single Open Drain	4	MCP6546-E/SN	SMD 133-2142●	0.350	0.290	0.196	– –	– –
6703	LT	3	DFN	Micropower Low Voltage Comparator with 400mV Reference	18	LT6703CDC-2#TRMPBF	NEW SMD 166-3852●	1.460	1.140	0.910	0.760	0.680
7211	NSC	5	SOT-23	CMOS Comparator With Rail-to-Rail Input Vos=5mV mAx	8000	LMC7211AIM5	SMD 977-9922●	1.350	0.820	0.660	– –	– –
7211	NSC	8	SOIC	CMOS Comparator With Rail-to-Rail Input Vos=15mV mAx	8000	LMC7211BIM	SMD 949-4820●	1.050	0.710	0.580	– –	– –
7211	NSC	5	SOT-23	Tiny, Rail-to-Rail Input CMOS Comparator	8000	LMC7211BIM5	SMD 977-9655●	1.030	0.860	0.800	0.650	0.560
7211	NSC	8	SOIC	CMOS Comparator with R/R I/P Push-Pull O/P	4	LMC7211AIM/NOPB	NEW SMD 168-5325●	1.130	0.880	0.720	0.660	0.590
7215	NSC	8	SOIC	MicroPower, Rail-to-Rail CMOS Comparator With push-pull output stage	1000	LMC7215IM	SMD 949-4111●	1.270	0.900	0.770	0.620	0.550
7215	NSC	5	SC-70	MicroPower, CMOS Input, RRIO, 1.8V, Push-Pull Output Comparator	45	LPV7215MG	SMD 120-2775●	1.300	1.060	0.860	– –	– –
7219	NSC	5	SOT-23	2.7V to 5V Comparator With Rail-to-Rail Output	7	LMV7219M5	SMD 977-8764● RL	1.940	1.590	1.340	– –	– –
7219	NSC	5	SC-70	7 nsec, 2.7V to 5V Comparator with Rail-to- Rail Output	7	LMV7219M7	SMD 131-2830●	2.190	1.220	0.980	0.840	0.750
7220	NSC	6	SC-70	940Mp/s at 5VDC Single Channel Comparator with LVDS Output	2.9	LMH7220MG	NEW SMD 160-9190●	3.510	2.810	2.560	2.350	2.000
7220	NSC	6	TSOT	High Speed Comparator with LVDS Output	2.9	LMH7220MK/NOPB	NEW SMD 168-5408●	23.250	18.070	14.790	13.560	12.140
7221	NSC	8	SOIC	Tiny CMOS Comparator R/R I/P Open Drain Output	4	LMC7221AIM/NOPB	NEW SMD 168-5315●	1.340	1.040	0.850	0.780	0.700
7221	NSC	5	SOT-23	MicroPower, Rail-to-Rail Input CMOS Comparator, Open Drain Output, 9mV Offset	8000	LMC7221AIM5	SMD 977-9930●	1.530	0.940	0.770	– –	– –
7221	NSC	8	SOIC	MicroPower, Rail-to-Rail Input CMOS Comparator With Open Drain Output, 4mV Offset	7000	LMC7221BIM	SMD 949-4839●	1.230	0.830	0.680	– –	– –
7235	NSC	5	SOT-23	Low Power comparator With rail-to-rail Input and Open Drain output	45	LMV7235M5	SMD 977-8918●	1.100	0.910	0.770	– –	– –
7239	NSC	5	SOT-23	Low Power comparator With rail-to-rail Input and push-pull output stage	45	LMV7239M5	SMD 977-8926● RL	1.240	0.810	0.630	– –	– –
7271	NSC	5	SOT-23	Single & Dual, 1.8V Low Power Comparators With Rail-to-Rail Input	0.88	LMV7271MF	SMD 977-9795● RL	0.640	0.550	0.430	– –	– –
7271	NSC	5	SC-70	Single 1.8V Low Power Comparator with Rail-to-Rail Input	880	LMV7271MG	SMD 131-2834●	0.860	0.700	0.650	0.630	0.590
7275	NSC	5	SC-70	Single 1.8V Low Power Comparator with Rail-to-Rail Input	880	LMV7275MF	SMD 131-2835●	1.000	0.680	0.550	0.520	0.480
7275	NSC	6	SC-70	Single 1.8V Low Power Comparator with Rail-to-Rail Input	880	LMV7275MG	SMD 131-2836●	0.490	0.460	0.400	0.360	0.340
7291	NSC	5	SC-70	Single 1.8V Low Power Comparator With Rail-to-Rail	0.88	LMV7291MG	SMD 818-7649●	0.850	0.660	0.540	– –	– –
7322	NSC	24	LLP	Comparator, high speed	700	LMH7322SQ	SMD 135-9428●	7.610	6.090	5.050	4.280	3.930
7235	NSC	5	SC-70	45 nsec, Ultra Low Power, Low Voltage, Rail-toRail Input Comparator with Open-Drain/Push-Pull Output	45	LMV7235M7	SMD 131-2831●	0.770	0.630	0.550	0.460	0.420
7239	NSC	5	SC-70	45 nsec, Ultra Low Power, Low Voltage, Rail-to-Rail Input Comparator with Open-Drain/Push-Pull Output	45	LMV7239M7	SMD 131-2833●	1.190	0.710	0.560	0.480	0.430
8561	ADI	8	SOIC	Ultrafast 7ns Single Supply Comparator	7	AD8561ARZ	NEW SMD 166-1043●	3.220	2.510	2.060	1.880	1.570
8561	ADI	8	DIP	Single Supply Comparator (IND TEMP/Upgrade for LT1016)	7	AD8561ANZ	960-3867●	3.730	2.560	1.900	– –	– –
8611	ADI	8	MSOP	Ultrafast 4ns Single Supply Comparator	4	AD8611ARMZ-R2	NEW SMD 165-1268●	3.450	2.680	2.190	2.010	1.900
8611	ADI	8	SOIC	Ultrafast 4 ns Single Supply Comparator (IND TEMP)	0.004	AD8611ARZ	SMD 960-4324●	4.790	3.290	2.450	– –	– –
Dual												
10	ON SEMI	20	PLCC	Dual comparator	–	MC10E1652FNG	SMD 142-6408●	45.000	36.610	33.510	30.270	25.390
10	ON SEMI	20	PLCC	ECL Dual comparator	–	MC10E1651FNG	SMD 142-6411●	45.000	36.610	33.510	30.270	25.390
193	TI	8	SOIC	Dual Differential Comparator	0.3	LM193DR..	NEW SMD 164-8671●	0.330	0.260	0.210	0.193	0.189
293	TI	8	SOIC	Dual, General Purpose Differential Comparator	0.3	LM293AD	SMD 838-9225●	0.430	0.270	0.196	– –	– –
293	TI	8	SOIC	Dual, General Purpose Differential Comparator	0.3	LM293D	SMD 229-2944●	0.240	0.220	0.169	– –	– –
293	NSC	8	TO-5	Dual Low Power CMOS Comparator	1300	LM293H	121-6183●	6.340	5.020	4.060	3.520	3.210
293	TI	8	DIP	Dual, General Purpose Differential Comparator	0.3	LM293P	SMD 229-2956●	0.240	0.220	0.169	– –	– –
319	NSC	14	SOIC	High Speed Dual Comparator	80	LM319AM/NOPB	NEW SMD 156-4707●	0.870	0.710	0.610	0.530	0.470
319	NSC	14	SOIC	High Speed Dual Comparator	80	LM319M	SMD 949-0469●	0.700	0.430	0.330	– –	– –
319	NSC	14	DIP	Dual High Speed Comparator	80	LM319N	SMD 948-7581●	1.980	1.640	1.330	1.090	1.020

RL Re-reeling available

Comparators - continued

	Mftr.	Pins	Pkg	Description	Response Time (ns) typ.	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
Dual												
319	ST	14	DIP	Dual High Speed Comparator	80	LM319N	109-4247●	1.140	0.920	0.780	0.590	0.500
352	TI	8	SOIC	Dual, Low Voltage, LINCMOS(TM) Differential Comparator	–	TLC352IDG4	SMD 123-4922●	0.490	0.390	0.300	0.270	0.250
372	TI	8	DIP	Dual Low Power CMOS Differential Comparator.	200	TLC372CP	110-3023●	0.720	0.510	0.390	– –	– –
372	TI	8	SOIC	Dual Differential Comparator	200	TLC372IDG4	SMD 123-4646●	0.570	0.460	0.350	0.310	0.280
372	ST	8	SOIC	Dual Low Power CMOS Comparator	600	TS372CD	SMD 109-4371●	0.630	0.500	0.360	0.310	0.300
372	ST	8	DIP	Dual Low Power CMOS Differential Comparator.	200	TS372CN	109-4372●	0.640	0.530	0.460	0.370	0.310
372	ST	8	DIP	Dual Low Power CMOS Differential Comparator.	200	TS372CN.	404-317▲	0.134	– –	– –	– –	– –
393	TI	8	SOIC	Dual, General Purpose Differential Comparator	0.3	LM393AD	SMD 458-6128●	0.220	0.186	0.144	– –	– –
393	TI	8	SOIC	Dual, General Purpose Differential Comparator	0.3	LM393D	SMD 229-4229●	0.190	0.170	0.140	– –	– –
393	ON	8	SOIC	Dual Low Power Comparator	1300	LM393DG.	SMD 121-1108●	0.340	0.220	0.172	– –	– –
393	NSC	8	SOIC	Dual Low Power Comparator	1300	LM393M	SMD 948-7590●	0.490	0.290	0.230	0.198	0.179
393	NSC	8	DIP	Dual Low Power Comparator	1300	LM393N	948-7611●	0.530	0.310	0.250	0.230	0.220
393	ST	8	DIP	Dual Low Power Comparator	1300	LM393N	975-5950●	0.480	0.330	0.195	0.167	0.118
393	ON	8	DIP	Dual Low Power Comparator	1300	LM393NG	121-1133●	0.470	0.310	0.230	– –	– –
393	TI	8	DIP	Dual, General Purpose Differential Comparator	0.3	LM393P	229-4230●	0.154	0.151	0.143	– –	– –
393	TI	8	TSSOP	Dual, General Purpose Differential Comparator	1.3	LM393PWG4	SMD 128-7425●	0.175	0.141	0.107	0.081	0.061
393	TI	8	SOIC	Dual Low Voltage Comparator	1300	LMV393ID	SMD 110-2985●	0.350	0.290	0.220	– –	– –
393	TI	8	TSSOP	Dual, General Purpose, Low-Voltage Comparator	1.2	LMV393IPW	SMD 958-9643●	0.290	0.240	0.188	– –	– –
393	NSC	8	SOIC	Dual, General Purpose Comparator (Low Voltage version of LM393M)	1000	LMV393M.	SMD 101-655	0.320	0.220	0.188	– –	– –
393	TI	8	SOIC	Dual Voltage Comparator	2.5	TLC393CDG4	SMD 123-4636●	0.530	0.440	0.320	0.290	0.270
393	TI	8	DIP	Dual Low Power CMOS Comparator	2500	TLC393CP	110-3025●	0.680	0.480	0.360	– –	– –
393	TI	8	SOIC	Dual Voltage Comparator	2.5	TLC393IDG4	SMD 123-4648●	0.570	0.470	0.370	0.320	0.290
393	TI	8	PDIP	Dual, MicroPower, LINCMOS(TM) Voltage Comparator	2.5	TLC393IPE4	123-4909●	0.570	0.470	0.370	0.320	0.290
393	ST	8	SOIC	Dual, MicroPower CMOS Comparator	2100	TS393CD	SMD 109-4374●	0.630	0.500	0.420	0.380	0.360
561	ADI	16	QSOP	Dual High Speed PECL Comparator	0.7	ADCMP561BRQZ	SMD 143-8725●	3.480	2.980	2.370	– –	– –
562	ADI	20	QSOP	Dual High Speed PECL Comparator	0.7	ADCMP562BRQZ	SMD 143-8726●	4.860	3.320	2.680	– –	– –
563	ADI	16	QSOP	Dual High Speed ECL Comparator	0.7	ADCMP563BRQZ	SMD 143-8727●	3.480	2.980	2.370	– –	– –
564	ADI	20	QSOP	Dual High Speed ECL Comparator	0.7	ADCMP564BRQZ	SMD 143-8728●	4.820	3.320	2.680	– –	– –
566	ADI	32	LFCSP	Dual Ultrafast Voltage Comparator	0.25	ADCMP566BCPZ	SMD 143-8729●	7.160	4.920	3.970	– –	– –
567	ADI	32	LFCSP	Dual Ultrafast Voltage Comparator	0.25	ADCMP567BCPZ	SMD 143-8730●	7.160	4.920	3.970	– –	– –
762	NSC	8	SOIC	Low Voltage, Precision Comparator With Push-Pull Output	0.12	LMV762MA	SMD 949-0582●	1.840	1.240	1.010	– –	– –
762	NSC	8	MSOP	Low Voltage, Precision Comparator With Push-Pull Output	0.12	LMV762MM	SMD 977-9370●	1.090	0.900	0.680	– –	– –
932	MAX	8	SOIC	Dual Comparators with 2% Reference		MAX932CSA+	NEW! SMD 161-0135●	1.960	1.610	1.310	1.120	1.040
932	MAX	8	DIP	Dual, Ultra Low Power, CMOS Comparator	4000	MAX932CPA+	118-8001●	2.500	1.750	1.440	1.270	1.230
942	MAX	8	µMAX	R/R High Speed Comparators	80	MAX942EUA+	SMD 142-2370●	3.250	2.470	2.360	2.130	1.930
942	MAX	8	DIP	Dual, High Speed, Low Power, Rail-to-Rail, CMOS Comparator	80	MAX942CPA+	118-7999●	1.660	1.170	1.070	1.040	1.010
942	MAX	8	SOIC	Dual, High Speed, Low Power, Rail-to-Rail, CMOS Comparator	80	MAX942CSA+	SMD 972-6411●	3.310	2.130	1.560	1.300	1.270
942	MAX	8	SOIC	Dual, High Speed, Low Power, Rail-to-Rail, CMOS Comparator	80	MAX942ESA+	SMD 118-7986●	4.100	2.640	2.110	– –	– –
962	MAX	8	SOIC	Ultra High Speed Comparator	4.5	MAX962ESA+	SMD 142-2372●	7.970	5.570	4.540	4.030	3.910
962	MAX	8	µMAX	Ultra High Speed Comparator	4.5	MAX962EUA+	SMD 142-2373●	7.970	5.570	4.540	4.040	3.910
992	MAX	8	µMAX	R/R High Speed Comparator	120	MAX992EUA+	SMD 142-2374●	1.980	1.390	1.140	1.000	0.970
977	MAX	14	SOIC	TTL/CMOS Dual-Speed/Supply Dual Comparator with Auto-Standby	28	MAX977ESD+	NEW! SMD 156-9968●	5.330	4.740	3.870	3.270	3.000
1017	LT	8	SOIC	Micropower Dual Comparator		LT1017CS8#PBF	NEW! SMD 166-3329●	4.170	3.120	2.500	2.080	1.860
1017	LT	8	SOIC	Micropower Dual Comparator		LT1017IS8#PBF	NEW! SMD 166-3330●	5.020	3.760	3.010	2.510	2.250
1017	LT	8	DIP	Dual MicroPower Comparator	–	LT1017IN8.#PBF	955-9370●	4.060	2.450	1.870	– –	– –
1441	LT	8	DIP	Dual Ultra Low Power, CMOS Comparator.	4000	LTC1441CN8	790-916▲	3.450	1.990	1.570	– –	– –
1442	LT	8	SOIC	Ultralow Power Dual Comparator with Reference.	5	LTC1442CS8#PBF	NEW! SMD 166-3624●	3.770	2.930	2.340	1.950	1.750
1442	LT	8	SOIC	Ultralow Power Dual Comparator with Reference.	5	LTC1442IS8#PBF	NEW! SMD 166-3625●	4.470	3.460	2.770	2.300	2.070
1714	LT	16	SSOP	Dual 7ns Low Power R/R Comparator	7	LT1714CGN#PBF	NEW! SMD 166-3470●	6.270	4.700	3.760	3.130	2.800
1715	LT	10	MSOP	4ns 150MHz Dual Comparator with Independent I/O Supplies	4	LT1715CMS#PBF.	NEW! SMD 166-3472●	6.500	4.880	3.900	3.260	2.920
1720	LT	8	SOIC	Dual 4.5ns Single Supply 3V/5V Comparator with R/R O/P	4.5	LT1720CS8#PBF.	NEW! SMD 166-3474●	5.490	4.260	3.410	2.840	2.540
2220	ON SEMI	6	UDFN	Single Low Power Comparator	–	NCS2220AMUT1G	SMD 142-6377●	0.840	0.660	0.580	0.540	0.500
2903	TI	8	SOIC	Dual Differential Comparator	–	LM2903D	NEW! SMD 156-4964●	0.210	0.171	0.146	0.121	0.096
2903	NSC	8	SOIC	2mV Off Set Max Dual Voltage Comparator	1.5	LM2903M/NOPB	NEW! SMD 156-4733●	0.470	0.390	0.320	0.290	0.260
2903	FCH	8	SOIC	Single/Dual Supply Dual Differential Comparator	1.4	LM2903M	NEW! SMD 156-4486●	0.187	0.153	0.132	0.110	0.098
2903	ON	8	SOIC	Dual Low Power Comparator (IND TEMP)	1500	LM2903DG	SMD 121-1096●	0.220	0.140	0.114	– –	– –
2903	NSC	8	SOIC	Dual Low Power Comparator	1500	LM2903M	SMD 948-7620●	0.500	0.410	0.370	0.360	0.320
2903	NSC	8	DIP	Dual Low Power Comparator	1500	LM2903N	948-7638●	0.540	0.440	0.410	0.400	0.370
2903	ON	8	DIP	Dual Low Power Comparator (IND TEMP)	1500	LM2903NG	121-1130●	0.510	0.340	0.230	– –	– –
2903	ST	8	TSSOP	Dual Low Power Comparator (IND TEMP/TSSOP)	1300	LM2903PT	SMD 109-4243●	0.161	0.126	0.089	0.070	0.067
2903	ST	8	TSSOP	Dual Low Power Comparator (IND TEMP/TSSOP)	1300	LM2903PT.	SMD 302-4647▲	0.330	0.300	0.210	0.200	0.198
2903	TI	8	TSSOP	Dual, General Purpose Differential Comparator	0.3	LM2903PWR	SMD 838-9209●	0.121	0.107	0.089	– –	– –
3502	TI	8	SOIC	Rail to Rail Comparator	4.5	TLV3502AIDG4	SMD 118-0134●	3.520	2.840	2.600	2.280	2.080
3702	ST	8	SOIC	Dual CMOS Voltage Comparators	–	TS3702IDT	NEW! SMD 156-4334●	0.640	0.510	0.440	0.360	0.310
3702	TI	8	SOIC	Dual, MicroPower, Push-Pull Outputs, Lincmos(Tm) Voltage Comparator	2.7	TLC3702CD	SMD 128-7638●	0.690	0.490	0.380	0.280	0.250
3702	TI	8	SOIC	Dual Voltage Comparator	2.7	TLC3702CDG4	SMD 123-4635●	0.500	0.420	0.310	0.280	0.260
3702	TI	8	DIP	Dual Low Power CMOS Comparator	2500	TLC3702CP	110-3026●	0.690	0.490	0.380	– –	– –
3702	TI	8	PDIP	Dual, MicroPower, Push-Pull Outputs, Lincmos(Tm) Voltage Comparator	2.7	TLC3702IPE4	123-4771●	0.430	0.370	0.310	0.280	0.250
3702	ST	8	SOIC	Dual, MicroPower Push-Pull Output Comparator	2300	TS3702ID	SMD 109-4370●	1.010	0.840	0.730	0.630	0.600
6542	MCHIP	8	DIP	Comparator, Dual Push/Pull	4	MCP6542-E/P	133-2137●	0.450	0.380	0.260	– –	– –
6542	MCHIP	8	SOIC	Comparator, Dual Push/Pull	4	MCP6542-E/SN	SMD 133-2138●	0.450	0.380	0.260	– –	– –
6547	MCHIP	8	DIP	Comparator, Dual Open Drain	4	MCP6547-E/P	133-2143●	0.450	0.380	0.260	– –	– –
6547	MCHIP	8	SOIC	Comparator, Dual Open Drain	4	MCP6547-E/SN	SMD 133-2145●	0.450	0.380	0.260	– –	– –
6672	NSC	8	SOIC	Dual R/R I/P CMOS Comparator	4	LMC6772BIM/NOPB	NEW! SMD 168-5337●	1.870	1.460	1.190	1.100	0.980
6700	LT	6	TSOT-23	Micropower Low Voltage Dual Comparator with 400mV Reference	18	LT6700CS6-1#TRMPBF	NEW! SMD 166-3849●	2.490	1.930	1.540	1.280	1.150
6700	LT	6	TSOT-23	Micropower Low Voltage Dual Comparator with 400mV Reference	18	LT6700CS6-2#TRMPBF	NEW! SMD 166-3850●	2.490	1.930	1.540	1.280	1.150
6700	LT	6	TSOT-23	Micropower Low Voltage Dual Comparator with 400mV Reference	18	LT6700CS6-3#TRMPBF	NEW! SMD 166-3851●	2.490	1.930	1.540	1.280	1.150
6762	NSC	8	SOIC	Dual, MicroPower, Rail-to-Rail Input and Output CMOS Comparator. (IND TEMP)	4000	LMC6762AIM	SMD 949-4804●	2.670	1.810	1.470	– –	– –
6772	NSC	8	SOIC	Dual, MicroPower, Rail-to-Rail Input and Open Drain Output CMOS Comparator. (IND TEMP)	5000	LMC6772AIM	SMD 949-4812●	2.500	2.050	1.880	1.830	– –
6772	NSC	8	DIP	Dual, MicroPower, Rail-to-Rail Input CMOS Comparator With Open Drain Output	5000	LMC6772BIN	949-3735●	2.200	1.480	1.220	1.140	1.060
8612	ADI	14	TSSOP	Dual 14-Lead, Ultrafast 4 ns Single Supply Comparator	4	AD8612ARUZ	SMD 143-8900●	7.160	4.920	3.970	– –	– –
96687	ADI	20	PLCC	Ultra Fast ECL Dual Comparator	2.5	AD96687BPZ	SMD 143-8602●	5.830	3.970	3.210	– –	– –
Quad												
04	ADI	14	SOIC	Quad Low Power, Precision Comparator	300	CMP04FSZ	SMD 143-9008●	7.780	5.970	5.060	– –	– –
139	NSC	14	DIP	Quad Low Power Comparator (Ceramic, MIL TEMP)	1300	LM139J	404-445▲	17.160	10.490	6.990	4.630	4.240
239	ST	14	SOIC	Quad Comparator Single/Dual PSU Operation	300	LM239ADT	NEW! SMD 156-4355●	0.380	0.310	0.290	0.230	0.195
239	ST	14	SOIC	Quad Comparator Single/Dual PSU Operation	300	LM239D	NEW! SMD 156-4356●	0.220	0.182	0.157	0.130	0.103
239	ST	14	PDIP	Quad Comparator Single/Dual PSU Operation	300	LM239N	NEW! 156-4357●	0.195	0.157	0.144	0.117	0.092
239	TI	14	SOIC	Quad, General Purpose Differential Comparator	0.3	LM239D	SMD 838-9179●	0.250	0.210	0.153	– –	– –
239	ON	14	SOIC	Quad Low Power Comparator (IND TEMP)	1300	LM239DG	SMD 121-1093●	0.330	0.250	0.200	– –	– –

RL Re-reeling available

	Mftr.	Pins	Pkg	Description	Response Time (ns) typ.	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
Quad												
239	NSC	14	DIP	Quad Low Power Comparator (Ceramic, IND TEMP)	1300	LM239J	404-457▲	6.120	5.120	4.190	3.800	3.550
239	ON	14	DIP	Quad Low Power Comparator (IND TEMP)	1300	LM239NG	966-5420●	0.530	0.360	0.260	0.210	– –
239	TI	14	PDIP	Quad Differential Comparator	0.3	LM239N.	NEW 164-8672●	0.175	0.140	0.117	0.103	0.101
339	TI	14	TSSOP	Quad General Purpose Low Voltage Comparators	0.2	LMV339IPW.	NEW SMD 164-8677●	0.340	0.280	0.240	0.210	0.200
339	TI	14	SOIC	Quad Micropower LinCMOS Comparator	1	TLC339CD..	NEW SMD 164-8678●	0.580	0.520	0.460	0.400	0.340
339	TI	14	SSOP	Quad Differential Comparator	0.3	LM339DBR	NEW SMD 162-4418●	0.171	0.121	0.110	0.096	0.085
339	TI	14	PDIP	Quad Differential Comparator	1.3	LM339AN	NEW 156-4966●	0.210	0.171	0.146	0.121	0.096
339	NSC	14	TSSOP	Quad General Purpose Low Voltage Tiny Pack Comparator	–	LMV339MT/NOPB	NEW SMD 156-4706●	0.700	0.580	0.490	0.410	0.380
339	TI	14	SOIC	Quad, General Purpose Differential Comparator	0.3	LM339AD	SMD 229-3717●	0.220	0.186	0.158	– –	– –
339	NSC	14	SOIC	Low Power Low Offset Voltage Quad Comparator	1300	LM339AM	SMD 949-0485●	0.510	0.360	0.280	– –	– –
339	NSC	14	DIP	Quad High Performance Low Power Comparator	1300	LM339AN	948-7646●	0.750	0.570	0.450	0.440	0.410
339	ST	14	DIP	Quad High Performance Low Power Comparator	1300	LM339AN	975-5969●	0.500	0.290	0.240	0.167	0.158
339	TI	14	SOIC	Quad, General Purpose Differential Comparator	0.3	LM339D	SMD 229-3778●	0.190	0.170	0.140	– –	– –
339	ON	14	SOIC	Quad Low Power Comparator	1300	LM339DG	SMD 121-1105●	0.350	0.230	0.188	– –	– –
339	NSC	14	SOIC	Quad Low Power Comparator	1300	LM339M	SMD 948-7654●	0.770	0.660	0.570	0.460	0.430
339	NSC	14	DIP	Quad Low Power Comparator	1300	LM339N	948-7670●	0.530	0.340	0.280	0.250	0.240
339	ST	14	DIP	Quad Low Power Comparator	1300	LM339N	975-5977●	0.290	0.230	0.169	0.124	0.109
339	TI	14	DIP	Quad, General Purpose Differential Comparator	0.3	LM339N	229-3821●	0.162	0.143	0.105	– –	– –
339	ON	14	DIP	Quad Low Power Comparator	1300	LM339NG	966-4491●	0.500	0.340	0.250	– –	– –
339	TI	14	TSSOP	Quad, General Purpose Differential Comparator	0.3	LM339PW	SMD 751-7749●	0.119	0.107	0.089	– –	– –
339	NSC	14	SOIC	Quad, General Purpose Comparator (Low Voltage version of LM339)	1000	LMV339M	SMD 930-6790●	0.820	0.630	0.520	– –	– –
339	NSC	14	SOIC	Quad, General Purpose Comparator (Low Voltage version of LM339)	1000	LMV339M.	SMD 101-667	0.320	0.250	0.196	– –	– –
339	TI	14	SOIC	Quad, Low-Power, General Purpose Differential Comparator	8	LP339D	SMD 958-9686●	0.540	0.340	0.250	– –	– –
339	NSC	14	SOIC	Quad Ultra Low Power Comparator	5000	LP339M	SMD 948-7662●	0.590	0.510	0.460	0.450	0.420
339	NSC	14	DIP	Quad Ultra Low Power Comparator	5000	LP339N	949-0477●	0.680	0.550	0.510	0.500	0.460
339	TI	14	DIP	Quad Low Power CMOS Comparator	2500	TLC339CN	110-3028●	0.990	0.700	0.540	– –	– –
339	ST	14	SOIC	Quad MicroPower CMOS Comparator	2100	TS339CD	SMD 109-4369●	0.850	0.730	0.590	0.490	0.380
374	TI	14	SOIC	Quad Comparator	200	TLC374CDG4	SMD 123-4661●	0.430	0.380	0.330	0.280	0.230
374	TI	14	PDIP	Quad General Purpose LINCMOS(TM) Differential Comparator	200	TLC374CNE4	123-4752●	0.630	0.520	0.400	0.350	0.310
374	TI	14	SOIC	Quad General Purpose LINCMOS(TM) Differential Comparator	200	TLC374IDG4	SMD 123-4846●	0.640	0.530	0.410	0.360	0.330
401	ADI	16	SOIC	Quad 23 ns Low Voltage Comparator	23	CMP401GSZ	NEW SMD 165-1267●	5.240	4.080	3.330	3.050	2.610
908	MAX	14	PDIP	Quad TTL Comparators	40	MAX908CPD+	SMD 142-2368●	6.620	4.250	3.530	2.610	2.560
1444	LT	16	SOIC	Ultralow Power Quad Comparators with Reference	4	LTC1444CS#PBF	NEW SMD 166-3626●	4.360	3.380	2.700	2.250	2.020
1721	LT	16	SSOP	Quad 4.5ns Single Supply 3V/5V Comparators with R/R O/P	4.5	LT1721CGN#PBF	NEW SMD 166-3475●	8.880	6.650	5.320	4.440	3.970
1721	LT	16	SOIC	Quad 4.5ns Single Supply 3V/5V Comparators with R/R O/P	4.5	LT1721CS#PBF	NEW SMD 166-3476●	8.510	6.380	5.110	4.260	3.810
2901	TI	14	SOIC	Quad Differential Comparator	0.3	LM2901D.	NEW SMD 164-8673●	0.138	0.124	0.110	0.096	0.082
2901	TSC	14	SOP	Quad Voltage Comparator	1.3	TS2901CS14 RL	SMD 147-6682●	0.290	0.250	0.210	0.184	0.173
2901	ON	14	SOIC	Quad Low Power Comparator (IND TEMP)	1300	LM2901DG	SMD 121-1095●	0.300	0.199	0.162	– –	– –
2901	NSC	14	SOIC	Quad Low Power Comparator	1300	LM2901M	SMD 948-7689●	0.490	0.290	0.250	0.220	0.195
2901	NSC	14	DIP	Quad Low Power Comparator	1300	LM2901N	948-7697●	0.460	0.340	0.270	0.230	0.210
2901	TI	14	DIP	Quad, General Purpose Differential Comparator	0.3	LM2901N	229-2828●	0.210	0.174	0.136	– –	– –
2901	ST	14	TSSOP	Quad Low Power Comparator (IND TEMP/TSSOP)	1300	LM2901PT	SMD 109-4241●	0.290	0.220	0.153	0.124	0.104
2901	TI	14	DIP	Quad, Low-Power, General Purpose Differential Comparator	8	LP2901NG4	958-9660●	0.990	0.820	0.640	– –	– –
3302	NSC	14	DIP	Quad Low Power Comparator	1300	LM3302N	948-7700●	0.730	0.490	0.410	0.390	0.360
3704	TI	14	DIP	Quad Low Power CMOS Comparator	2500	TLC3704CN	110-3029●	0.930	0.660	0.510	– –	– –
3704	TI	14	SOIC	Comparator, Quad	1.1	TLC3704ID	SMD 845-4310●	0.700	0.550	0.430	– –	– –
3704	TI	14	SOIC	Quad, MicroPower, Push-Pull O/P Voltage Comparator	2.7	TLC3704MDR	SMD 123-6557	1.010	0.820	0.640	0.550	0.510
6544	MCHIP	14	DIP	Comparator, Quad Push/Pull	4	MCP6544-E/P	133-2139●	0.900	0.760	0.510	– –	– –
6544	MCHIP	14	SOIC	Comparator, Quad Push/Pull	4	MCP6544-E/SL	SMD 133-2140●	0.900	0.760	0.510	– –	– –
6549	MCHIP	14	DIP	Comparator, Quad Open Drain	4	MCP6549-E/P	133-2146●	0.900	0.760	0.510	– –	– –
6549	MCHIP	14	SOIC	Comparator, Quad Open Drain	4	MCP6549-E/SL	SMD 133-2147●	0.900	0.760	0.510	– –	– –
7300	NSC	8	NSOIC	Micropower Precision Comparator and Precision Reference with Adjustable Hysteresis from the PowerWise® Family	4	LMP7300MA	SMD 149-5062●	1.540	1.150	0.970	0.840	0.820
8564	ADI	16	SOIC	Quad 7ns Single Supply Comparator	7	AD8564ARZ	NEW SMD 166-1044●	6.770	5.560	4.550	4.170	3.470
8564	ADI	16	DIP	Quad, Single Supply Comparator (IND TEMP)	7	AD8564ANZ	960-3875●	6.650	5.140	3.610	– –	– –
9601	MAX	20	TSSOP	Dual Differential PECL O/P 500ps Delay Comparator	500	MAX9601EUP+	NEW SMD 161-0136●	7.000	5.740	4.710	3.980	3.710
55141	INTS	14	TSSOP	High-Speed 18V CMOS Comparator	10	ISL55141IVZ	SMD 136-1003●	2.190	1.820	1.680	1.350	1.270

Single/Dual/Quad Comparators

MAXIM

New

515040

	Pins	Pkg	Description	Response Time (ns) typ.	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
Single											
985	8	SO	Micropower, Low-Voltage Rail-to-Rail I/O Single Comparator	300	MAX985ESA+	SMD 155-0491●	0.90	0.82	0.74	0.67	0.58
987	8	SO	High-Speed, Micropower, Low-Voltage Rail-to-Rail I/O Single Comparators	120	MAX987ESA+	SMD 155-0493●	0.90	0.82	0.74	0.67	0.58
919	8	SO	Nanopower, Beyond-the-Rails Comparator With/Without Reference	22	MAX919ESA+	SMD 155-0481●	0.84	0.76	0.69	0.63	0.55
997	8	SO	Ultra-High-Speed, +3V/+5V, Beyond-the-Rails Single Comparator	4.5	MAX997ESA+	SMD 155-0497●	2.95	2.66	2.41	2.20	1.90
998	8	SO	Single-Supply, High-Speed, Low-Power Single Comparator	20	MAX998ESA+	SMD 155-0498●	2.31	2.08	1.90	1.74	1.49
9021	5	SOT-23	Micropower Single-Supply Single Comparator	3	MAX9021AUK+T	SMD 155-0467●	0.55	0.44	0.40	0.34	0.32
9031	5	SOT-23	Single-Supply Single Comparator	188	MAX9031AUK+T	SMD 155-0472●	0.58	0.45	0.36	0.34	0.30
Dual											
963	14	SO	Ultra-High-Speed Beyond-the-Rails Dual Comparator +3V/+5V Supply	4.5	MAX963ESD+	SMD 155-0486●	4.76	4.29	3.90	3.57	3.05
976	8	SO	Single-Supply, High-Speed, Low-Power Dual Comparator	20	MAX976ESA+	SMD 155-0489●	2.80	2.52	2.29	2.09	1.81
989	8	SO	Micropower, Low-Voltage Rail-to-Rail I/O Dual Comparator	300	MAX989ESA+	SMD 155-0496●	1.39	1.26	1.15	1.06	0.93
9022	8	SO	Micropower Single-Supply Dual Comparator	3	MAX9022ASA+	SMD 155-0468●	0.56	0.51	0.46	0.41	0.35
9032	8	SOIC	Single-Supply Dual Comparator	188	MAX9032ASA+	SMD 155-0474●	0.54	0.49	0.44	0.40	0.34
9077	8	SOIC	Single-Supply Dual Comparator	580	MAX9077ESA+	SMD 155-0476●	1.11	0.99	0.93	0.86	0.79
9119	5	SC70	1.6V Nanopower, Beyond-the-Rails Comparators With/Without Reference	1.4	MAX9119EXK+T	SMD 155-0478●	1.19	0.96	0.87	0.74	0.68
9142	8	SOIC	Single-Supply Dual Comparator	40	MAX9142ESA+	SMD 155-0479●	1.19	1.07	0.87	0.80	0.68
9600	20	TSSOP	Dual ECL and Dual PECL, 500ps, Ultra-High-Speed Comparator	0.5	MAX9600EUP+	SMD 155-0485●	5.81	5.21	4.74	4.35	3.74
Quad											
944	14	SO	Quad,High-Speed, Low-Power, Rail-to-Rail, Single-Supply Comparator	80	MAX944CSD+	SMD 155-0483●	4.07	3.17	2.60	2.38	2.04
964	16	narrow-SO	Ultra-High-Speed Beyond-the-Rails Quad Comparator +3V/+5V Supply	4.5	MAX964ESE+	SMD 155-0487●	7.79	7.02	6.37	5.85	5.00
9144	14	SOIC	Single-Supply Quad Comparator	40	MAX9144ESD+	SMD 155-0480●	1.66	1.49	1.36	1.25	1.07

RL Re-reeling available

Farnell

Comparators - continued

Voltage Comparators

ON Semiconductor

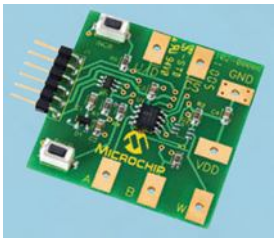
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	Mftr.	Pins	Pkg	Description	Response Time (ns) typ.	Mftrs. List No.	Order Code	Price Each 1+	25+	50+	100+	250+
Single												
211	ON SEMI	8	SOIC	Comparator	200	LM211DG..	SMC 142-6405●	0.280	0.240	0.210	0.192	0.153
311	ON SEMI	8	SOIC	Comparator	200	LM311DG	SMC 142-6406●	0.153	0.140	0.130	0.116	0.093
311	ON SEMI	8	PDIP	Comparator	200	LM311NG	142-6407●	0.163	0.150	0.138	0.125	0.100
931	MAX	8	SOIC	Single Comparator	12	MAX931ESA+	SMC 142-2369●	2.050	1.490	1.310	1.120	1.000
951	MAX	8	SOIC	Op Amp, Comparator & Reference		MAX951ESA+	SMC 142-2371●	3.340	2.340	1.790	1.610	1.490
2220	ON SEMI	6	UDFN	Single Low Power Comparator		NCS2220AMUT1G	SMC 142-6377●	0.840	0.660	0.580	0.540	0.500
Dual												
10	ON SEMI	20	PLCC	Dual comparator		MC10E1652FNG	SMC 142-6408●	45.000	36.610	33.510	30.270	25.390
10	ON SEMI	20	PLCC	ECL Dual comparator		MC10E1651FNG	SMC 142-6411●	45.000	36.610	33.510	30.270	25.390
942	MAX	8	µMAX	R/R High Speed Comparators	80	MAX942EUA+	SMC 142-2370●	3.250	2.470	2.360	2.130	1.930
962	MAX	8	SOIC	Ultra High Speed Comparator	4.5	MAX962ESA+	SMC 142-2372●	7.970	5.570	4.540	4.030	3.910
962	MAX	8	µMAX	Ultra High Speed Comparator	4.5	MAX962EUA+	SMC 142-2373●	7.970	5.570	4.540	4.040	3.910
992	MAX	8	µMAX	R/R High Speed Comparator	120	MAX992EUA+	SMC 142-2374●	1.980	1.390	1.140	1.000	0.970
Quad												
908	MAX	14	PDIP	Quad TTL Comparators	40	MAX908CPD+	SMC 142-2368●	6.620	4.250	3.530	2.610	2.560
2901	TSC	14	SOP	Quad Voltage Comparator	1.3	TS2901CS14 RL	SMC 147-6682●	0.290	0.250	0.210	0.184	0.173

Digital Potentiometers

MCP402X Non-Volatile Digital Potentiometer Evaluation Board

MICROCHIP



Features:

- MCP4021/4022/4023/4024 support
- Small PCB (1.5"x1")
- One populated PCB: MCP4021-103E/SN configured as a "windowed" potentiometer, PIC10F206-I/OT with firmware
- Sample firmware to interface the PIC10F206 with push buttons & the MCP402X
- One un-populated PCB for rapid prototyping of an MCP402X application
- Sample kit with 1 PIC10F206-I/OT and 2ea of theMCP4021-I/SN (2.1kΩ, 5kΩ,10kΩ & 50kΩ)

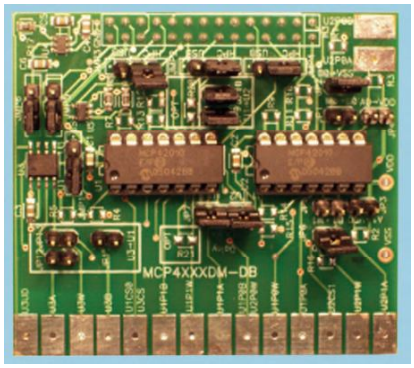
The MCP402xEV is a low cost evaluation board that quickly enables the user to exercise all of the features of the MCP402X Non-Volatile Digital Potentiometer. This kit includes 2 PCBs, one populated & one unpopulated.The populated PCB supports the 8 pin SOIC, SOT-23-6 and SOT-23-5 MCP402X package variations. A 6 pin PIC10F206-I/OT with FLASH memory is utilized to generate all of the Low-Voltage (LV) and High-Voltage (HV) MCP402X serial commands when the 2 momentary switches are depressed in various sequences. This enables the user to Increment and Decrement the wiper, save the setting to EEPROM & exercise the WiperLock™ feature. The PCB also supports the standard ICSP programming header used by the Microchip BFMP low cost programming tool. The second PCB included in the kit is unpopulated to allow the user to build up the exact combination of components that their application would require.

450880

		Order Code	Price Each
MCP402XEV	MCP402X Non-Volatile Digital Potentiometer Evaluation Board	111-2741	7.56

MCP4XXX Digital Potentiometer Daughter Board

MICROCHIP



The MCP4XXX Digital Potentiometer Daughter Board allows the system designer to quickly evaluate the operation of Microchip Technology's MCP42XXX and MCP402X Digital Potentiometers. The MCP42XXX are dual Digital Potentiometer devices that have the same characteristics as their single Digital Potentiometer devices (MCP41XXX). The MCP402X devices are non-volatile devices that have similar characteristics as their volatile memory versions (MCP401X). The board supports two MCP42XXX devices to allow the Resistor Networks to be stacked" and form a programmable windowed Digital Potentiometer and an MCP402X device, which can be replaced with an MCP401X device. The board has one MCP42010 device (10 kΩ), which can be the rheostats at the ends, and one MCP42010 device (10 kΩ) which is the potentiometer in the middle and a separate standalone potentiometer.

The board also has a voltage doubler device (TC1240A), which can be used to show the WiperLock Technology feature of the MCP4021.

The MCP4XXX Digital Potentiometer Daughter Board has been made configurable, via jumpers. This allows you to determine the configuration that you wish to have the four digital potentiometer of the MCP42XXX devices.

Features:

- Header to interface to PICDEM boards using 28-pin header, including:- PICDEM HPC Explorer Demo Board
  - PICDEM FS USB Demo Board
  - PICDEM2 Plus Demo Board (Rev 5 or later)
  - PICDEM LCD
- TC1240A Voltage Doubler to generate VIHH voltage for WiperLock Technolgy evaluation
- Jumpers for configuration of U1-Pot0, U2-Pot0, and U2-Pot1 terminal connections
- Jumpers for MCP4021 Pot (A, W, and B) to replace U1-Pot0 in desired circuit
- Jumpers for routing signals (SI, SO, SCK, and CS) from either a PICDEM HPC Demo board or a PICDEM FS USB Demo Board
- Pads for easy connection to the Digital Potentiometer signals, including the Resistor Network Terminals and the Serial Interface signals

478250

Mftrs. List No.	Order Code	Price Each 1+
MCP4XXXDM-DB	133-2115●	12.60

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Digital Potentiometers

ANALOG DEVICES

210939

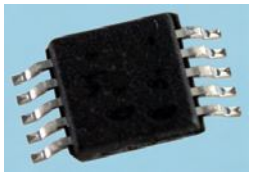
	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
5160	8	SOT-23	256 Position SPI Compatible Digital Potentiometer	AD5160BRJZ5-R2.	SMC 165-1278●	1.36	1.06	0.87
5161	10	MSOP	+5.5V, 256 Position SPI/I2C Selectable Digital Potentiometer, 10k	AD5161BRMZ10	SMC 143-8420●	1.58	1.09	0.78
5161	10	MSOP	+5.5V, 256 Position SPI/I2C Selectable Digital Potentiometer, 100k	AD5161BRMZ100	SMC 143-8421●	1.58	1.09	0.78
5161	10	MSOP	+5.5V, 256 Position SPI/I2C Selectable Digital Potentiometer, 5k	AD5161BRMZ5	SMC 143-8422●	1.58	1.09	0.78
5161	10	MSOP	+5.5V, 256 Position SPI/I2C Selectable Digital Potentiometer, 50k	AD5161BRMZ50	SMC 143-8423●	1.58	1.09	0.78
5162	10	MSOP	+5.5V, 256-Position Dual Channel SPI Digital Potentiometer, 100k	AD5162BRMZ100	SMC 143-8424●	2.23	1.52	1.13
5165	8	SOT-23	Single-channel, 256-Position, UltraLow Power 1.8VLogic-Level Digital Potentiometer, 100k	AD5165BUJZ100-R2	SMC 107-8399●	1.53	1.27	0.96
5170	10	MSOP	+5.5V, 256-Position, Two-Time Programmable, I2C Compatible Digital Potentiometer, 100k	AD5170BRMZ100	SMC 143-8425●	2.47	1.69	1.21

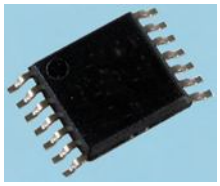
RL Re-reeling available

	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
5170	10	MSOP	+5.5V, 256-Position, Two-Time Programmable, I2C Compatible Digital Potentiometer, 50k	AD5170BRMZ50	SMD 143-8427	2.23	1.52	1.13
5171	8	SOT-23	Single-channel, 64 Position OTP I²C Compatible Digital Potentiometer, 100k	AD5171BRJZ100-R2	SMD 107-8395	1.52	1.27	0.95
5171	8	SOT-23	Single-channel, 64 Position OTP I²C Compatible Digital Potentiometer, 10k	AD5171BRJZ10-R2	SMD 107-8396	2.16	1.48	1.10
5171	8	SOT-23	Single-channel, 64 Position OTP I²C Compatible Digital Potentiometer, 50k	AD5171BRJZ50-R2	SMD 107-8397	1.80	1.34	1.09
5171	8	SOT-23	Single-channel, 64 Position OTP I²C Compatible Digital Potentiometer, 5k	AD5171BRJZ5-R2	SMD 107-8398	1.80	1.34	1.09
5172	10	MSOP	+5.5V, 256-Position One-Time Programmable Dual Channel I2C Compatible Digital Potentiometer, 100k	AD5172BRMZ100	SMD 143-8428	2.92	2.00	1.45
5172	10	MSOP	+5.5V, 256-Position One-Time Programmable Dual Channel I2C Compatible Digital Potentiometer, 50k	AD5172BRMZ50	SMD 143-8429	2.92	2.00	1.48
5204	24	SOIC	4-channel, 256 position digital potentiometer, 10k resistance	AD5204BRZ10	SMD 960-4090	3.35	2.30	1.71
5204	24	SOIC	4-channel, 256 position digital potentiometer, 100k resistance	AD5204BRZ100	SMD 960-4103	2.33	1.93	1.46
5220	8	DIP	Single channel, 128 position digital potentiometer, 100k	AD5220BNZ100	107-9318	2.06	1.60	1.20
5220	8	SOIC	+5.5V, Increment/Decrement Digital Potentiometer, 128 position, 10k	AD5220BRZ10	SMD 143-8430	2.21	1.52	1.09
5227	8	TSOT	Single-channel, 64-Position Manual Up/Down Control Potentiometer, 100k	AD5227BUJZ100-R2	SMD 107-8391	1.17	0.96	0.72
5227	8	TSOT	Single-channel, 64-Position Manual Up/Down Control Potentiometer, 100k	AD5227BUJZ10-R2	SMD 107-8393	1.14	0.94	0.71
5227	8	TSOT	Single-channel, 64-Position Manual Up/Down Control Potentiometer, 100k	AD5227BUJZ50-R2	SMD 107-8394	1.17	0.96	0.72
5228	8	TSOT	Single-channel, 32-Position Manual Up/Down Control Potentiometer, 100k	AD5228BUJZ100-R2	SMD 107-8388	1.03	0.86	0.65
5228	8	TSOT	Single-channel, 32-Position Manual Up/Down Control Potentiometer, 10k	AD5228BUJZ10-R2	SMD 107-8389	0.99	0.81	0.62
5228	8	TSOT	Single-channel, 32-Position Manual Up/Down Control Potentiometer, 50k	AD5228BUJZ50-R2	SMD 107-8390	0.72	0.59	0.45
5231	16	TSSOP	+5.5V or ±3V Nonvolatile, 1024-Position, Digital Potentiometer, SPI-compatible, 100k	AD5231BRUZ100	SMD 143-8431	4.36	2.99	2.23
5235	16	TSSOP	+5.5V or ±3V Nonvolatile, Dual-Channel, 1024-Position, Digital Potentiometer, 25k	AD5235BRUZ25	SMD 143-8432	7.92	6.48	4.97
5235	16	TSSOP	+5.5V or ±3V Nonvolatile, Dual-Channel, 1024-Position, Digital Potentiometer, 250k	AD5235BRUZ250	SMD 143-8433	8.07	6.48	5.06
5241	14	SOIC	Single channel, 256 position digital potentiometer, 10k	AD5241BRZ10	SMD 942-5870	1.93	1.39	1.04
5241	14	SOIC	Single channel, 256 position digital potentiometer, 100kI²C Compatible, 256 Position Digital Potentiometer	AD5241BRZ100	SMD 942-5888	1.59	1.17	0.89
5241	14	SOIC	Single channel, 256 position digital potentiometer, 1M	AD5241BRZ1M	SMD 942-5896	2.05	1.39	1.04
5242	16	SOIC	Dual channel, 256 position digital potentiometer, 10k	AD5242BRZ10	SMD 960-4111	2.81	1.93	1.43
5242	16	SOIC	Dual channel, 256 position digital potentiometer, 100k	AD5242BRZ100	SMD 107-9336	2.82	1.93	1.43
5242	16	SOIC	Dual channel, 256 position digital potentiometer, 1M	AD5242BRZ1M	SMD 107-9337	2.81	1.93	1.43
5243	10	MSOP	+5.5V, 256-Position Dual Channel I2C Compatible Digital Potentiometer 100k	AD5243BRMZ100	SMD 143-8434	2.23	1.52	1.13
5252	14	TSSOP	Dual-channel, 256-Position I²C Nonvolatile Memory, Digital Potentiometer, 1k	AD5252BRUZ1	SMD 107-8384	3.55	2.43	1.81
5252	14	TSSOP	Dual-channel, 256-Position I²C Nonvolatile Memory, Digital Potentiometer, 10k	AD5252BRUZ10	SMD 107-8385	3.55	2.43	1.81
5252	14	TSSOP	Dual-channel, 256-Position I²C Nonvolatile Memory, Digital Potentiometer, 100k	AD5252BRUZ100	SMD 107-8386	3.55	2.43	1.81
5252	14	TSSOP	Dual-channel, 256-Position I²C Nonvolatile Memory, Digital Potentiometer, 50k	AD5252BRUZ50	SMD 107-8387	3.80	3.12	2.38
5253	20	TSSOP	4-channel, 64-Position I²C Nonvolatile Memory, Digital Potentiometer, 1k	AD5253BRUZ1	SMD 107-8378	4.45	3.34	2.67
5253	20	TSSOP	4-channel, 64-Position I²C Nonvolatile Memory, Digital Potentiometer, 10k	AD5253BRUZ10	SMD 107-8381	3.84	3.17	2.40
5253	20	TSSOP	4-channel, 64-Position I²C Nonvolatile Memory, Digital Potentiometer, 100k	AD5253BRUZ100	SMD 107-8382	3.84	3.17	2.40
5253	20	TSSOP	4-channel, 64-Position I²C Nonvolatile Memory, Digital Potentiometer, 50k	AD5253BRUZ50	SMD 107-8383	4.45	3.34	2.67
5254	20	TSSOP	4-channel, 256-Position I²C Nonvolatile Memory, Digital Potentiometer, 1k	AD5254BRUZ1	SMD 107-8374	5.06	3.47	2.80
5254	20	TSSOP	4-channel, 256-Position I²C Nonvolatile Memory, Digital Potentiometer, 10k	AD5254BRUZ10	SMD 107-8375	5.06	3.47	2.80
5254	20	TSSOP	4-channel, 256-Position I²C Nonvolatile Memory, Digital Potentiometer, 100k	AD5254BRUZ100	SMD 107-8376	5.06	3.47	2.80
5254	20	TSSOP	4-channel, 256-Position I²C Nonvolatile Memory, Digital Potentiometer, 50k	AD5254BRUZ50	SMD 107-8377	4.82	3.98	3.03
5255	24	TSSOP	3-Channel, Dual 512 and Single 128 Position Digital Potentiometer With Nonvolatile Memory, 25k	AD5255BRUZ25	SMD 107-8372	7.92	6.53	4.97
5255	24	TSSOP	3-Channel, Dual 512 and Single 128 Position Digital Potentiometer With Nonvolatile Memory, 250k	AD5255BRUZ250	SMD 107-8373	7.13	5.88	4.47
5258	10	MSOP	50K, Nonvolatile, I2C Compatible 64-Position, Digital Potentiometer	AD5258BRMZ50	SMD 111-7921	1.07	0.99	0.71
5258	10	MSOP	100K, Nonvolatile, I2C Compatible 64-Position, Digital Potentiometer	AD5258BRMZ100	SMD 111-7922	1.46	0.99	0.71
5258	10	MSOP	10K, Nonvolatile, I2C Compatible 64-Position, Digital Potentiometer	AD5258BRMZ10	SMD 111-7923	1.46	0.99	0.71
5258	10	MSOP	1K, Nonvolatile, I2C Compatible 64-Position, Digital Potentiometer	AD5258BRMZ1	SMD 111-7924	1.46	0.99	0.71
5259	10	MSOP	50K Nonvolatile, I2C Compatible 256-Position, Digital Potentiometer	AD5259BRMZ50	SMD 111-7915	2.23	1.52	1.09
5259	10	MSOP	5K Nonvolatile, I2C Compatible 256-Position, Digital Potentiometer	AD5259BRMZ5	SMD 111-7916	2.21	1.52	1.09
5259	10	MSOP	100K Nonvolatile, I2C Compatible 256-Position, Digital Potentiometer	AD5259BRMZ100	SMD 111-7917	2.21	1.52	1.09
5259	10	MSOP	10K Nonvolatile, I2C Compatible 256-Position, Digital Potentiometer	AD5259BRMZ10	SMD 111-7918	2.21	1.52	1.09
5260	14	TSSOP	+15 V or ±5 V, Single-Channel, SPI Compatible, 256 Position Digital Potentiometer 20k	AD5260BRUZ20	SMD 143-8435	3.96	2.72	2.02
5260	14	TSSOP	+15 V or ±5 V, Single-Channel, SPI Compatible, 256 Position Digital Potentiometer 200k	AD5260BRUZ200	SMD 143-8436	3.96	2.72	2.02
5262	16	TSSOP	+15 V or ±5 V, Dual-Channel, SPI Compatible, 256 Position Digital Potentiometer 200k	AD5262BRUZ200	SMD 143-8437	4.36	2.99	2.16
5263	24	TSSOP	Quad, 15 V, 256-Position Digital Potentiometer with Pin-Selectable SPI/I2C 200k	AD5263BRUZ200	SMD 143-8439	5.06	3.47	2.80
5263	24	TSSOP	Quad-Channel, 15 V, 256-Position, Digital Potentiometer With Pin Selectable SPI/I2C, 50k resistance	AD5263BRUZ50	SMD 158-1914	4.27	3.02	2.62
5280	14	TSSOP	Single, +15 V/±5 V, 256-Position, I2C-Compatible Digital Potentiometer 20k	AD5280BRUZ20	SMD 143-8441	3.96	2.72	2.02
5282	16	TSSOP	Dual, +15 V/±5 V, 256-Position, I2C-Compatible Digital Potentiometer 200k	AD5282BRUZ200	SMD 143-8442	4.36	2.99	2.23
5290	10	MSOP	Single channel, 256 position digital potentiometer, +30 V / ±15 V, 50k resistance	AD5290YRMZ50	SMD 127-4276	4.39	2.99	2.23
5290	10	MSOP	Single channel, 256 position digital potentiometer, +30 V / ±15 V, 100k resistance	AD5290YRMZ100	SMD 127-4277	4.36	2.99	2.23
5290	10	MSOP	Single channel, 256 position digital potentiometer, +30 V / ±15 V, 10k resistance	AD5290YRMZ10	SMD 127-4278	4.36	2.99	2.23
8400	8	SOIC	+5.5V, 1-Channel Digital Potentiometer, 256-position, SPI-compatible, 10k	AD8400ARZ10	SMD 143-8643	2.30	1.56	1.16
8400	8	SOIC	+5.5V, 1-Channel Digital Potentiometer, 256-position, SPI-compatible, 100k	AD8400ARZ100	SMD 143-8644	2.30	1.56	1.16
8402	14	SOIC	Dual Channel, 256 Position Digital Potentiometer, 1k, SPI	AD8402ARZ1	SMD 134-0532	3.43	2.34	1.74
8402	14	SOIC	Dual Channel, 256 Position Digital Potentiometer, 10k, SPI	AD8402ARZ10	SMD 134-0533	3.43	2.34	1.74
8402	14	SOIC	Dual Channel, 256 Position Digital Potentiometer, 100k, SPI	AD8402ARZ100	SMD 134-0535	3.43	2.34	1.74
8402	14	SOIC	Dual Channel, 256 Position Digital Potentiometer, 50k, SPI	AD8402ARZ50	SMD 134-0536	3.43	2.34	1.74
8403	24	TSSOP	+5.5V, 4-Channel Digital Potentiometer, 256-position, SPI-compatible, 1k	AD8403ARUZ1	SMD 143-8646	5.10	3.47	2.80
8403	24	TSSOP	+5.5V, 4-Channel Digital Potentiometer, 256-position, SPI-compatible, 10k	AD8403ARUZ10	SMD 143-8647	5.10	3.47	2.80
8403	24	TSSOP	+5.5V, 4-Channel Digital Potentiometer, 256-position, SPI-compatible, 100k	AD8403ARUZ100	SMD 143-8648	5.17	3.52	2.84
8403	24	SOIC	+5.5V, 4-Channel Digital Potentiometer, 256-position, SPI-compatible, 10k	AD8403ARZ10	SMD 143-8649	5.10	3.47	2.80
41010	8	PDIP	10k, 256 Step, Single Digital Potentiometer with SPI Interface	MCP41010-I/P	129-2242	1.20	0.67	0.58
41050	8	PDIP	50k, 256 Step, Single Digital Potentiometer with SPI Interface	MCP41050-I/P	129-2243	0.96	0.54	0.46

Digital Potentiometers

ANALOG DEVICES





A digital potentiometer adjusts and trims electronic circuits similar to variable resistors, rheostats and mechanical potentiometers. Sometimes called digital POT, RDAC, or digipot, these compact devices can be used to calibrate system tolerances or dynamically control system parameters. Nonvolatile memory parts provide wiper setting retention after a power OFF to ON cycle. In addition, fuse link parts offer a one time program trimmer feature.

477725

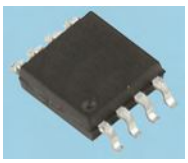
	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
5290	10	MSOP	Single channel, 256 position digital potentiometer, +30 V / ±15 V, 50k resistance	AD5290YRMZ50	SMD 127-4276	4.39	2.99	2.23
5290	10	MSOP	Single channel, 256 position digital potentiometer, +30 V / ±15 V, 100k resistance	AD5290YRMZ100	SMD 127-4277	4.36	2.99	2.23
5290	10	MSOP	Single channel, 256 position digital potentiometer, +30 V / ±15 V, 10k resistance	AD5290YRMZ10	SMD 127-4278	4.36	2.99	2.23
8402	14	SOIC	Dual Channel, 256 Position Digital Potentiometer, 1k, SPI	AD8402ARZ1	SMD 134-0532	3.43	2.34	1.74
8402	14	SOIC	Dual Channel, 256 Position Digital Potentiometer, 10k, SPI	AD8402ARZ10	SMD 134-0533	3.43	2.34	1.74
8402	14	SOIC	Dual Channel, 256 Position Digital Potentiometer, 100k, SPI	AD8402ARZ100	SMD 134-0535	3.43	2.34	1.74
8402	14	SOIC	Dual Channel, 256 Position Digital Potentiometer, 50k, SPI	AD8402ARZ50	SMD 134-0536	3.43	2.34	1.74

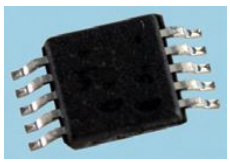
RL Re-reeling available

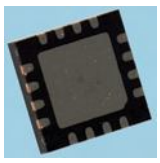
Farnell

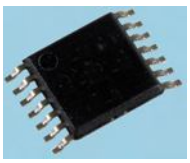
Digital Potentiometers - continued

Single, Dual & Quad Linear Digitally Controlled Potentiometers


8 MSOP


10 MSOP


16 QFN


14 TSSOP


20 TSSOP

- Single or dual supply operation
- -40°C to +125°C
- 128 or 256 resistor taps
- Single, dual or quad potentiometers on a single package device
- Low power shutdown
- I2C or serial interface
- 10kΩ, 50kΩ or 100kΩ total resistance

This is a family of ICs containing single, dual & quad digitally controlled potentiometer (DCP) with non-volatile memory on a monolithic CMOS integrated circuit. The digitally controlled potentiometer is implemented with a combination of resistor elements and CMOS switches. The position of the wiper is controlled by the user through the SPI serial or I2C interface . The potentiometer has an associated volatile Wiper Register (WR) and a non-volatile Initial Value Register (IVR) that can be directly written to and read by the user. The contents of the WR controls the position of the wiper. At power-up the device recalls the contents of the DCP's IVR to the WR. The DCP can be used as three-terminal potentiometer or as two-terminal variable resistor in a wide variety of applications including control, parameter adjustments, and signal processing.

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Mftrs. List No.	No. of Pots	No. of Positions	Resistance	Power Supply Max / Min	Single / Dual	Control Interface	Pins	Pkg	Order Code	Price Each 1+	10+	100+	250+	500+
ISL22319WFU8Z	1	128	10K	5.5/2.7V	Single	I2C	8	MSOP	SMC 143-9891●	1.38	1.07	0.97	0.83	0.77
ISL22316WFU10Z	1	128	10K	5.5/2.7V	Single	I2C	10	MSOP	SMC 143-9889●	1.41	1.10	0.99	0.85	0.79
ISL22319UFU8Z	1	128	50K	5.5/2.7V	Single	I2C	8	MSOP	SMC 143-9890●	1.38	1.07	0.97	0.83	0.77
ISL22419WFU8Z	1	128	10K	5.5/2.7V	Single	SPI	8	MSOP	SMC 143-9915●	1.30	1.01	0.91	0.78	0.72
ISL22416WFU10Z	1	128	10K	5.5/2.7V	Single	SPI	10	MSOP	SMC 143-9913●	1.41	1.10	0.99	0.85	0.79
ISL22419UFU8Z	1	128	50K	5.5/2.7V	Single	SPI	8	MSOP	SMC 143-9914●	1.30	1.01	0.91	0.78	0.72
ISL22416UFU10Z	1	128	50K	5.5/2.7V	Single	SPI	10	MSOP	SMC 143-9912●	1.41	1.10	0.99	0.85	0.79
ISL22313WFU10Z	1	256	10K	5.5/2.25V	Dual	I2C	10	MSOP	SMC 143-9888●	2.77	2.16	1.94	1.65	1.53
ISL22313UFU10Z	1	256	50K	5.5/2.25V	Dual	I2C	10	MSOP	SMC 143-9887●	2.77	2.16	1.94	1.65	1.53
ISL22313TFU10Z	1	256	100K	5.5/2.25V	Dual	I2C	10	MSOP	SMC 143-9886●	2.77	2.16	1.94	1.65	1.53
ISL22414WFU10Z	1	256	10K	5.5/2.25V	Dual	SPI	10	MSOP	SMC 143-9910●	2.77	2.16	1.94	1.65	1.53
ISL22414UFU10Z	1	256	50K	5.5/2.25V	Dual	SPI	10	MSOP	SMC 143-9909●	2.67	2.08	1.87	1.59	1.47
ISL22414TFU10Z	1	256	100K	5.5/2.25V	Dual	SPI	10	MSOP	SMC 143-9908●	2.77	2.16	1.94	1.65	1.53
ISL22329WFU10Z	2	128	10K	5.5/2.7V	Single	I2C	10	MSOP	SMC 143-9899●	2.17	1.69	1.52	1.31	1.19
ISL22326WFV14Z	2	128	10K	5.5/2.7V	Single	I2C	14	TSSOP	SMC 143-9897●	2.26	1.75	1.58	1.36	1.26
ISL22329UFU10Z	2	128	50K	5.5/2.7V	Single	I2C	10	MSOP	SMC 143-9898●	2.17	1.69	1.52	1.31	1.19
ISL22326UFV14Z	2	128	50K	5.5/2.7V	Single	I2C	14	TSSOP	SMC 143-9896●	2.26	1.75	1.58	1.36	1.26
ISL22429WFU10Z	2	128	10K	5.5/2.7V	Single	SPI	10	MSOP	SMC 143-9922●	2.17	1.69	1.52	1.31	1.19
ISL22426WFV14Z	2	128	10K	5.5/2.7V	Single	SPI	14	TSSOP	SMC 143-9920●	2.26	1.75	1.58	1.36	1.26
ISL22429UFU10Z	2	128	50K	5.5/2.7V	Single	SPI	10	MSOP	SMC 143-9921●	2.05	1.60	1.43	1.23	1.13
ISL22426UFV14Z	2	128	50K	5.5/2.7V	Single	SPI	14	TSSOP	SMC 143-9919●	2.26	1.75	1.58	1.36	1.26
ISL22323WFR16Z	2	256	10K	5.5/2.25V	Dual	I2C	16	QFN	SMC 143-9895●	3.23	2.65	2.39	2.04	1.88
ISL22323UFR16Z	2	256	50K	5.5/2.25V	Dual	I2C	16	QFN	SMC 143-9894●	3.17	2.60	2.34	2.00	1.84
ISL22323TFR16Z	2	256	100K	5.5/2.25V	Dual	I2C	16	QFN	SMC 143-9892●	3.17	2.60	2.34	2.00	1.84
ISL22424WFR16Z	2	256	10K	5.5/2.25V	Dual	SPI	16	QFN	SMC 143-9918●	3.36	2.75	2.48	2.12	1.95
ISL22424UFR16Z	2	256	50K	5.5/2.25V	Dual	SPI	16	QFN	SMC 143-9917●	3.17	2.60	2.34	2.00	1.84
ISL22424TFR16Z	2	256	100K	5.5/2.25V	Dual	SPI	16	QFN	SMC 143-9916●	3.17	2.60	2.34	2.00	1.84
ISL22349WFV14Z	4	128	10K	5.5/2.7V	Single	I2C	14	TSSOP	SMC 143-9907●	3.53	2.74	2.47	2.00	1.88
ISL22346WFV20Z	4	128	10K	5.5/2.7V	Single	I2C	20	TSSOP	SMC 143-9905●	3.84	2.99	2.69	2.30	2.11
ISL22349UFV14Z	4	128	50K	5.5/2.7V	Single	I2C	14	TSSOP	SMC 143-9906●	3.53	2.74	2.47	2.00	1.88
ISL22346UFV20Z	4	128	50K	5.5/2.7V	Single	I2C	20	TSSOP	SMC 143-9904●	3.84	2.99	2.69	2.30	2.11
ISL22449WFV14Z	4	128	10K	5.5/2.7V	Single	SPI	14	TSSOP	SMC 143-9930●	3.53	2.74	2.47	2.12	1.94
ISL22446WFV20Z	4	128	10K	5.5/2.7V	Single	SPI	20	TSSOP	SMC 143-9928●	3.84	2.99	2.69	2.30	2.11
ISL22449UFV14Z	4	128	50K	5.5/2.7V	Single	SPI	14	TSSOP	SMC 143-9929●	3.53	2.74	2.47	2.12	1.94
ISL22446UFV20Z	4	128	50K	5.5/2.7V	Single	SPI	20	TSSOP	SMC 143-9927●	3.84	2.99	2.69	2.30	2.11
ISL22343WFV20Z	4	256	10K	5.5/2.25V	Dual	I2C	20	TSSOP	SMC 143-9903●	5.68	4.41	3.97	3.40	3.12
ISL22343UFV20Z	4	256	50K	5.5/2.25V	Dual	I2C	20	TSSOP	SMC 143-9902●	5.68	4.41	3.97	3.40	3.12
ISL22343TFV20Z	4	256	100K	5.5/2.25V	Dual	I2C	20	TSSOP	SMC 143-9901●	5.68	4.41	3.97	3.40	3.12
ISL22444WFV20Z	4	256	10K	5.5/2.25V	Dual	SPI	20	TSSOP	SMC 143-9926●	5.68	4.41	3.97	3.40	3.12
ISL22444UFV20Z	4	256	50K	5.5/2.25V	Dual	SPI	20	TSSOP	SMC 143-9925●	5.68	4.41	3.97	3.40	3.12
ISL22444TFV20Z	4	256	100K	5.5/2.25V	Dual	SPI	20	TSSOP	SMC 143-9924●	5.68	4.41	3.97	3.40	3.12

Digitally Controlled Potentiometers

Intersil offers a wide selection of low-to-high resolution digitally controlled potentiometers in single- and multi-channel packaging. Available in both linear and non-linear tapers, these digital potentiometers replace mechanical potentiometers and trim resistors in applications where digital control allows microprocessor interfacing and extended functionality.
DCPs are typically used for voltage reference trimming, equipment calibration and tuning, feedback loop control, and signal level control.

477726

Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
8	DIP	CMOS Digitally Controlled Potentiometer Max. Resistance 1kΩ (99 Resistive Elements)	X9C102PZ	121-6104●	2.21	1.66	1.33	1.21	– –
8	PDIP	CMOS Digitally Controlled Potentiometer Max. Resistance 1kΩ (99 Resistive Elements)	X9C102PIZ	156-2037●	3.99	2.99	2.39	2.00	1.71
8	SOIC	CMOS Digitally Controlled Potentiometer Max. Resistance 1kΩ (99 Resistive Elements)	X9C102SIZ	SMD 156-2038●	3.99	2.99	2.39	2.00	1.71
8	SOIC	CMOS Digitally Controlled Potentiometer Max. Resistance 1kΩ (99 Resistive Elements)	X9C102SZ	SMD 156-2072●	3.20	2.40	1.92	1.60	1.38
8	PDIP	CMOS Digitally Controlled Potentiometer Max. Resistance 1kΩ (99 Resistive Elements)	X9C102PIZ	NEW 156-2037●	3.99	2.99	2.39	2.00	1.71
8	SOIC	CMOS Digitally Controlled Potentiometer Max. Resistance 1kΩ (99 Resistive Elements)	X9C102SIZ	NEW SMD 156-2038●	3.99	2.99	2.39	2.00	1.71
8	SOIC	CMOS Digitally Controlled Potentiometer Max. Resistance 1kΩ (99 Resistive Elements)	X9C102SZ	NEW SMD 156-2072●	3.20	2.40	1.92	1.60	1.38
8	SOIC	CMOS Digitally Controlled Potentiometer Max. Resistance 10kΩ (31 Resistive Elements)	X9511WSZT1	NEW SMD 156-2065●	2.22	1.66	1.33	1.12	0.95
8	SOIC	CMOS Digitally Controlled Potentiometer Max. Resistance 10kΩ (31 Resistive Elements)	X9511WSZT1	SMD 156-2065●	2.22	1.66	1.33	1.12	0.95
8	SOIC	CMOS Digitally Controlled Potentiometer Max. Resistance 10kΩ (99 Resistive Elements)	X9C103SZ	SMD 121-6118●	2.22	2.00	1.83	1.54	– –
8	DIP	CMOS Digitally Controlled Potentiometer Max. Resistance 10kΩ (99 Resistive Elements)	X9C103PZ	120-8129●	3.65	2.13	1.39	1.34	– –
8	PDIP	CMOS Digitally Controlled Potentiometer Max. Resistance 10kΩ (99 Resistive Elements)	X9C103PIZ	NEW 156-2073●	4.35	3.27	2.62	2.17	1.86
8	PDIP	CMOS Digitally Controlled Potentiometer Max. Resistance 10kΩ (99 Resistive Elements)	X9C103PIZ	156-2073●	4.35	3.27	2.62	2.17	1.86
8	DIP	CMOS Digitally Controlled Potentiometer Max. Resistance Quad 10kΩ (31 Resistive Elements)	X9313WP	270-740▲	1.93	1.65	1.28	1.05	– –
8	DIP	CMOS Digitally Controlled Potentiometer Max. Resistance Quad 10kΩ (31 Resistive Elements)	X9315WP	300-6062	2.71	1.41	0.95	0.86	– –
8	SOIC	CMOS Digitally Controlled Potentiometer Max. Resistance Quad 10kΩ (31 Resistive Elements)	X9313WSZ	SMD 121-6127●	2.04	1.54	1.23	1.11	– –
20	SOIC	CMOS Digitally Controlled Potentiometer Max. Resistance Quad 10kΩ (63 Resistive Elements)	X9241AWSIZ	SMD 156-2074●	9.57	7.18	5.75	4.79	4.10
20	SOIC	CMOS Digitally Controlled Potentiometer Max. Resistance Quad 10kΩ (63 Resistive Elements)	X9241AWSIZ	NEW SMD 156-2074●	9.57	7.18	5.75	4.79	4.10
8	SOIC	CMOS Digitally Controlled Potentiometer Max. Resistance Quad 10kΩ (99 Resistive Elements)	X9C103SIZ	SMD 113-1420●	3.57	3.12	2.77	2.09	– –
8	SOIC	CMOS Digitally Controlled Potentiometer Max. Resistance 50kΩ (99 Resistive Elements)	X9C503SZ	SMD 121-6122●	2.86	2.54	2.29	1.91	– –
8	DIP	CMOS Digitally Controlled Potentiometer Max. Resistance 100kΩ (99 Resistive Elements)	X9C104PIZ	121-6103●	3.12	2.28	2.09	1.93	– –
8	SOIC	CMOS Digitally Controlled Potentiometer Max. Resistance 100kΩ (99 Resistive Elements)	X9C104SZ	SMD 121-6121●	2.50	2.22	2.00	1.66	– –

Digital Potentiometers

493551

Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	25+	100+	250+
1804 8	MSOP	NV Trimmer Potentiometer	DS1804U-010+	SMD 137-9821●	2.35	1.70	1.23	1.20
1804 8	MSOP	NV Trimmer Potentiometer	DS1804U-050+	SMD 137-9822●	2.35	1.70	1.23	1.20
1804 8	SOIC	NV Trimmer Potentiometer	DS1804Z-100+	SMD 137-9824●	2.88	1.85	1.23	1.06
1808 16	SOIC	Dual Log Digital Potentiometer	DS1808Z-050+	SMD 137-9825●	4.40	3.17	2.31	2.26
1845 14	TSSOP	Dual NV Potentiometer and Memory	DS1845E-010+	SMD 137-9826●	3.40	2.19	1.49	1.26
1845 14	TSSOP	Dual NV Potentiometer and Memory	DS1845E-050+	SMD 137-9827●	2.59	1.95	1.37	1.33
5113 8	SOIC	100-Tap Digitally Programmable Potentiometer	CAT5113VI-00	NEW! SMD 165-6110●	1.35	0.90	0.73	0.68
5113 8	SOIC	100-Tap Digitally Programmable Potentiometer	CAT5113VI-10	NEW! SMD 165-6111●	1.35	1.02	0.81	0.68
5114 8	SOIC	32-Tap Digitally Programmable Potentiometer	CAT5114VI-00	NEW! SMD 165-6129●	0.97	0.85	0.68	0.56
5114 8	SOIC	32-Tap Digitally Programmable Potentiometer	CAT5114VI-10	NEW! SMD 165-6130●	0.97	0.85	0.68	0.56
5160 8	SOT-23	256 Position SPI Compatible Digital Potentiometer	AD5160BRJZ10-RL7.	NEW! SMD 166-1079●	1.10	0.86	0.70	0.64
5231 16	TSSOP	Nonvolatile Memory, 1024-Position Digital Potentiometer	AD5231BRUZ10	NEW! SMD 166-1080●	3.77	2.93	2.40	2.19
5245 8	SOT-23	256 Position I2C Compatible Digital Potentiometer	AD5245BRJZ10-R2	NEW! SMD 166-1081●	1.60	1.24	1.02	0.94
5402 8	uMax	Single 256 Taps 10kΩ, Linear 3 Wire Serial Digital Potentiometer	MAX5402EUA+	NEW! SMD 161-0113●	1.59	1.31	1.08	0.92
5413 14	TSSOP	Dual Linear 256-Tap Digital Potentiometer	MAX5413EUD+	SMD 142-2338●	3.63	2.45	1.96	1.90
5419 24	TSSOP	Dual Digitally Programmable Potentiometers with 64 Taps 2-wire I/O	CAT5419YI-10	NEW! SMD 165-6109●	2.55	1.99	1.63	1.49
5478 14	TSSOP	Dual, 256-Tap, Nonvolatile, I2C-Interface, Digital Potentiometer	MAX5478EUD+	SMD 137-9733●	4.64	3.49	2.44	2.38
8400 8	SOIC	Single-Channel 256-Position Digital Potentiometer	AD8400ARZ1	NEW! SMD 166-1082●	2.25	1.77	1.44	1.31
2231610	MSOP	50K 128 Position Linear I2C Potentiometer	ISL22316UFU10Z	SMD 136-0972●	1.29	1.06	0.92	0.79

intersil

210452

Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+
9C102 8	DIP	CMOS Digitally Controlled Potentiometer Max. Resistance 1kΩ (99 Resistive Elements)	X9C102PZ	121-6104●	2.21	1.66	1.33	1.21
9C103 8	SOIC	CMOS Digitally Controlled Potentiometer Max. Resistance 10kΩ (99 Resistive Elements)	X9C103SZ	SMD 121-6118●	2.22	2.00	1.83	1.54
103 8	SOIC	CMOS Digitally Controlled Potentiometer Max. Resistance Quad 10kΩ (99 Resistive Elements)	X9C103SIZ	SMD 113-1420●	3.57	3.12	2.77	2.09
9C103 8	DIP	CMOS Digitally Controlled Potentiometer Max. Resistance 10kΩ (99 Resistive Elements)	X9C103PZ	120-8129●	3.65	2.13	1.39	1.34
9C104 8	DIP	CMOS Digitally Controlled Potentiometer Max. Resistance 100kΩ (99 Resistive Elements)	X9C104PIZ	121-6103●	3.12	2.28	2.09	1.93
9C104 8	SOIC	CMOS Digitally Controlled Potentiometer Max. Resistance 100kΩ (99 Resistive Elements)	X9C104SZ	SMD 121-6121●	2.50	2.22	2.00	1.66
9C503 8	SOIC	CMOS Digitally Controlled Potentiometer Max. Resistance 50kΩ (99 Resistive Elements)	X9C503SZ	SMD 121-6122●	2.86	2.54	2.29	1.91
9313 8	DIP	CMOS Digitally Controlled Potentiometer Max. Resistance Quad 10kΩ (31 Resistive Elements)	X9313WP	270-740▲	1.93	1.65	1.28	1.05
9313 8	SOIC	CMOS Digitally Controlled Potentiometer Max. Resistance Quad 10kΩ (31 Resistive Elements)	X9313WSZ	SMD 121-6127●	2.04	1.54	1.23	1.11
9315 8	DIP	CMOS Digitally Controlled Potentiometer Max. Resistance Quad 10kΩ (31 Resistive Elements)	X9315WP	300-6062	2.71	1.41	0.95	0.86

Rejustor™ Micro-Resistor

microbridge

Rejustors are typically used in circuit resistance-trimming applications where high precision and/or temperature stability is required and the exact value of the desired resistance depends on variations in other circuit components - for example, batch-to-batch or unit-to-unit manufacturing variations, or where packaging-induced stresses cause significant changes in electrical output. The Rejustor's resistance can be adjusted typically to 0.1% precision in about a second, within a range of at-least 30% down from the initial value. The Rejustor is an analog adjustable resistor. These units can be adjusted dozens of times and always maintain the last adjusted state, even if they are placed in storage for extended periods. After adjustment, these passive devices require no power to hold their final value. Adjusting is performed by applying short duration analog voltage pulses to the auxiliary pin(s). Microbridge provides Rejust-it software to facilitate adjusting. Adjusting can be performed in the factory or in the field. Factory adjusting includes adjustment during final assembly, during ATE testing, or at probe for wafers and die.

496441

Resistance min R1/R2 Ω	Power Rated mW	Adjust. Precision %	Pins/Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+
7k / 7k	1.0 & 1.0	0.1	8 / SOIC	Dual Rejustors R1= 10kR & R2= 10kR.	111F	SMD 151-6672●	0.74	0.66	0.55	0.50
7k / 7k	1.0 & 1.0	0.1	16 / QFN	Dual Rejustors R1= 10kR & R2= 10kR.	1112	SMD 151-6673●	0.74	0.66	0.55	0.50
7k / 14k	0.1 & 0.6	0.1	8 / SOIC	Dual Rejustors R1= 10kR & R2= 20kR.	111H	SMD 151-6674●	0.74	0.66	0.55	0.50
7k / 14k	0.1 & 0.6	0.1	16 / QFN	Dual Rejustors R1= 10kR & R2= 20kR.	1115	SMD 151-6675●	0.74	0.66	0.55	0.50
7k / 35k	0.3 & 1.5	0.1	8 / SOIC	Dual Rejustors R1= 10kR & R2= 50kR.	111J	SMD 151-6676●	0.74	0.66	0.55	0.50
7k / 35k	0.3 & 1.5	0.1	16 / QFN	Dual Rejustors R1= 10kR & R2= 50kR.	1117	SMD 151-6677●	0.74	0.66	0.55	0.50
7k / 63k	0.2 & 1.8	0.1	8 / SOIC	Dual Rejustors R1= 10kR & R2= 90kR.	111L	SMD 151-6678●	0.74	0.66	0.55	0.50
7k / 63k	0.2 & 1.8	0.1	16 / QFN	Dual Rejustors R1= 10kR & R2= 90kR.	1110	SMD 151-6679●	0.74	0.66	0.55	0.50
10.5k / 10.5k	0.5 & 0.5	0.1	16 / QFN	Dual Rejustors R1= 15kR & R2= 10.5kR	111Y	SMD 151-6680●	0.74	0.66	0.55	0.50
10.5k / 10.5k	1.0 & 1.0	0.1	8 / SOIC	Dual Rejustors R1= 15kR & R2= 15kR.	111N	SMD 151-6682●	0.74	0.66	0.55	0.50
10.5k / 10.5k	1.0 & 1.0	0.1	16 / QFN	Dual Rejustors R1= 15kR & R2= 15kR.	111C	SMD 151-6683●	0.74	0.66	0.55	0.50
10.5k / 31.5k	0.25 & 0.75	0.1	16 / QFN	Dual Rejustors R1= 15kR & R2= 45kR.	111U	SMD 151-6684●	0.74	0.66	0.55	0.50
23k / 23k	0.5 & 0.5	0.1	16 / QFN	Dual Rejustors R1= 33kR & R2= 33kR.	111Z	SMD 151-6685●	0.74	0.66	0.55	0.50
3.3k / 3.3k	0.5 & 0.5	0.1	16 / QFN	Dual Rejustors R1= 4.7kR & R2= 4.7kR.	111R	SMD 151-6686●	0.74	0.66	0.55	0.50
3.3k / 3.3k	1.0 & 1.0	0.1	8 / SOIC	Dual Rejustors R1= 4.7kR & R2= 4.7kR.	111E	SMD 151-6687●	0.74	0.66	0.55	0.50
3.3k / 3.3k	1.0 & 1.0	0.1	16 / QFN	Dual Rejustors R1= 4.7kR & R2= 4.7kR.	1111	SMD 151-6688●	0.74	0.66	0.55	0.50
3.3k / 16.5k	0.125 & 0.625	0.1	16 / QFN	Dual Rejustors R1= 4.7kR & R2= 23.5kR.	1121	SMD 151-6689●	0.74	0.66	0.55	0.50
6.3k / 6.3k	0.5 & 0.5	0.1	16 / QFN	Dual Rejustors R1= 9.0kR & R2= 9.0kR.	111T	SMD 151-6690●	0.74	0.66	0.55	0.50
6.3k / 32k	0.25 & 0.75	0.1	16 / QFN	Dual Rejustors R1= 9.0kR & R2= 45kR	1127	SMD 151-6691●	0.74	0.66	0.55	0.50
6.3k / 44k	0.125 & 0.875	0.1	16 / QFN	Dual Rejustors R1= 9kR & R2= 63kR.	111X	SMD 151-6692●	0.74	0.66	0.55	0.50
63k / 63k	1.0 & 1.0	0.1	8 / SOIC	Dual Rejustors R1= 90kR & R2= 90kR.	111P	SMD 151-6694●	0.74	0.66	0.55	0.50
63k / 63k	1.0 & 1.0	0.1	16 / QFN	Dual Rejustors R1= 90kR & R2= 90kR.	111D	SMD 151-6695●	0.74	0.66	0.55	0.50

Dual Digital Potentiometers

MAXIM

The DS1803 addressable dual digital potentiometer features two independently controlled 256-position potentiometers. Device control is achieved through a 2-wire serial interface. Three address pins allow up to 8 DS1803's to share the same 2-wire interface. The exact wiper position of each potentiometer can be written or read.
The DS1267 Dual Digital Potentiometer Chip consists of two digitally controlled, solid-state potentiometers. Each potentiometer is composed of 256 resistive sections. Between each resistive section and both ends of the potentiometer are tap points which are accessible to the wiper. The position of the wiper on the resistive array is set by an 8-bit value that controls which tap point is connected to the wiper output. Communication and control of the device are accomplished via a 3-wire serial port interface. This interface allows the device wiper position to be read or written.

477734

Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+
16	DIP	Addressable Dual Digital Potentiometer, 100K	DS18030-100+	130-6349●	4.83	3.60	2.82	2.73
16	DIP	Addressable Dual Digital Potentiometer, 50K	DS18030-050+	130-6348●	4.83	3.60	2.82	2.73
16	DIP	Addressable Dual Digital Potentiometer, 10K	DS18030-010+	128-5411●	4.83	3.60	2.82	2.73
14	DIP	Dual Digital Potentiometer Chip, 100K	DS1267-100+	SMD 130-6336●	7.41	4.77	2.83	– –
14	DIP	Dual Digital Potentiometer Chip, 50K	DS1267-050+	SMD 130-6344●	7.41	4.77	2.83	– –
14	DIP	Dual Digital Potentiometer Chip, 10K	DS1267-010+	972-5890●	7.41	4.77	2.83	– –

RL Re-reeling available

Farnell

Digital Potentiometers - continued

Digital Potentiometers

MAXIM

210762

Pots No.	Resistance	Wiper Memory	No. of Positions	Power Supply	Control Interface	Pins	Pkg	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+
1	10K	Volatile	256-LIN	3V,5V	INC/DECREMENT	16	DIP	DS18030-050	796-049▲	4.75	3.87	3.09	2.91
1	10K	Volatile	256-LIN	3V,5V	INC/DECREMENT	16	DIP	DS18030-100	796-050▲	2.70	2.65	2.59	2.55
1	10K	Non Volatile	100-LIN	3V,5V	INC/DECREMENT	8	DIP	DS1804-010+	128-5408●	2.77	1.78	1.21	– –
1	10K	Non Volatile	128-LIN	2.7V,5.5V	I2C	10	SOP	DS3501U+	SMD 143-3213●	1.08	0.82	0.57	0.56
1	10K	Non Volatile	1024-LIN	2.7,5.25V or ±2.5V	I2C	14	TSSOP	MAX5481EUD+	SMD 143-3214●	3.63	2.72	1.96	1.90
1	10K	Non Volatile	1024-LIN	2.7,5.25V or ±2.5V	I2C	14	TSSOP	MAX5483EUD+	SMD 143-3216●	3.63	2.72	1.96	1.90
1	50K	Non Volatile	100-LIN	3V,5V	INC/DECREMENT	8	DIP	DS1804-50	670-881▲	3.27	2.20	1.86	– –
1	50K	Non Volatile	100-LIN	5.5V, ±2.7V	3-WIRE SERIAL	8	PDIP	DS1804-050+	156-9949●	2.14	1.91	1.55	1.31
1	50K	Non Volatile	1024-LIN	2.7,5.25V or ±2.5V	I2C	14	TSSOP	MAX5482EUD+	SMD 143-3215●	3.63	2.72	1.96	1.90
1	50K	Non Volatile	1024-LIN	2.7,5.25V or ±2.5V	I2C	14	TSSOP	MAX5484EUD+	SMD 143-3217●	3.63	2.72	1.96	1.90
1	100K	Non Volatile	100-LIN	3V,5V	INC/DECREMENT	8	DIP	DS1804-100	670-893▲	2.00	1.65	1.61	– –
2	10K	Volatile	256-LIN	5V, ±5V	3-WIRE SERIAL	16	SOIC	DS1267S-010+	SMD 972-6306●	8.53	5.48	3.27	– –
2	10K	Volatile	256-LIN	3V,5V	2-WIRE ADDRESSABLE	16	DIP	DS18030-010+	128-5411●	4.83	3.60	2.82	2.73
2	10K	Volatile	256-LIN	5V, ±5V	3-WIRE SERIAL	14	DIP	DS1267-010+	972-5890●	7.41	4.77	2.83	– –
2	50K	Volatile	256-LIN	3V,5.5V	2-WIRE SERIAL	16	NSOIC	DS1803Z-050+	NEW SMD 160-6607●	3.95	3.16	2.87	2.63
2	50K	Volatile	64-LOG	3V,5V	3-WIRE SERIAL	14	DIP	DS1801+	972-6217●	6.01	4.35	3.34	– –
2	50K	Volatile	64-LOG	3V,5V	3-WIRE SERIAL	16	SOIC	DS1801S+	SMD 972-6225●	6.61	4.45	3.41	– –
2	50K	Volatile	64-LOG	3V,5V	3-WIRE SERIAL	20	DIP	DS1802+	118-8071●	6.30	4.43	3.45	3.36
2	50K	Volatile	64-LOG	3V,5V	3-WIRE SERIAL	20	SOIC	DS1802S+	SMD 972-6233●	9.90	6.67	5.12	– –
2	50K	Volatile	64-LOG	3V,5V	2-WIRE ADDRESSABLE	14	DIP	DS1807+	129-0863●	5.94	4.01	3.08	– –
2	50K	Volatile	256-LIN	5V, ±5V	3-WIRE SERIAL	16	SOIC	DS1267S-050+	SMD 972-6284●	8.53	5.48	3.63	– –
2	50K	Volatile	256-LIN	5V, ±5V	3-WIRE SERIAL	14	DIP	DS1267-050	703-370▲	5.59	4.61	3.43	– –
2	50K	Volatile	256-LIN	3V,5V	2-WIRE ADDRESSABLE	16	DIP	DS18030-050	796-049▲	4.75	3.87	3.09	2.91
	50K	Volatile	256-LOG	3V,5V	3-WIRE SERIAL	16	SOIC	DS1803Z-010+	SMD 972-5288●	5.70	3.66	2.17	– –
2	100K	Volatile	256-LIN	5V, ±5V	3-WIRE SERIAL	16	SOIC	DS1267S-100+	SMD 972-6292●	8.53	5.48	3.63	– –
2	100K	Volatile	256-LIN	5V, ±5V	3-WIRE SERIAL	14	DIP	DS1267-100	563-353▲	4.59	3.78	2.81	– –
2	100K	Volatile	256-LIN	3V,5V	2-WIRE ADDRESSABLE	16	DIP	DS18030-100	796-050▲	2.70	2.65	2.59	2.55
4	10K	Volatile	64-LIN	3V,2.7V	2-WIRE ADDRESSABLE 5-WIRE SERIAL	20	SOIC	DS1844S-010+	SMD 972-3811●	5.79	4.19	3.21	– –
4	50K	Volatile	64-LIN	3V,5V	2-WIRE ADDRESSABLE 5-WIRE SERIAL	20	SOIC	DS1844S-050+	SMD 972-3820●	4.25	3.08	2.90	– –
4	100K	Volatile	64-LIN	3V,5V	2-WIRE ADDRESSABLE 5-WIRE SERIAL	20	SOIC	DS1844S-100+	SMD 972-3838●	3.94	2.97	2.90	– –

Single/Dual Linear Digital Potentiometers

MICROCHIP

Microchip offers a range of devces that allow the customer to select a device that is a best fit for their application. The availability of both volatile and non-volatile devices allows the designer flexibility in optimising the application. Some applications may use the digital potentiometer as a replacement for a mechanical potentiometer.

477748

Wiper Memory	Interface	Resis. (kΩ)	Positions	Wiper Resis. (Ω)	Operating Temp.	Pins	Pkg	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
Single Pot												
Non-volatile	Up/Down	5	64	75	-40°C to +125°C	8	SOIC	MCP4021T-502E/SN	SMD 155-7418●	0.810	0.610	0.480
Non-volatile	Up/Down	5	64	75	-40°C to +125°C	8	SOIC	MCP4021-502E/SN	SMD 133-2106●	0.530	0.440	0.300
Non-volatile	Up/Down	10	64	75	-40°C to +125°C	8	SOIC	MCP4021-103E/SN	SMD 133-2105●	0.530	0.440	0.300
Volatile	Up/Down	5	64	75	-40°C to +125°C	8	SOIC	MCP4011-502E/SN	SMD 133-2104●	0.450	0.250	0.220
Volatile	Up/Down	10	64	75	-40°C to +125°C	8	SOIC	MCP4011-103E/SN	SMD 133-2103●	0.350	0.290	0.196
Volatile	Up/Down	10	64	75	-40°C to +125°C	8	SOIC	MCP4011-103E/SN	SMD 133-2103●	0.350	0.290	0.196
Volatile	Up/Down	50	64	75	-40°C to +85°C	8	SOIC	MCP4011-503E/SN	NEW SMD 160-5570●	0.480	0.370	0.290
Volatile	SPI	10	256	125	-40°C to +125°C	8	PDIP	MCP41010-E/P	133-2108●	0.980	0.810	0.560
Volatile	SPI	10	256	125	-40°C to +125°C	8	SOIC	MCP41010-E/SN	SMD 133-2109●	0.980	0.810	0.560
Volatile	SPI	10	256	125	-40°C to +85°C	8	PDIP	MCP41010-I/P	129-2242●	1.200	0.670	0.580
Volatile	SPI	10	256	125	-40°C to +85°C	8	SOIC	MCP41010-I/SN	SMD 975-8607●	0.980	0.670	0.580
Volatile	SPI	50	256	125	-40°C to +125°C	8	SOIC	MCP41050-E/SN	SMD 143-9403●	1.050	0.710	0.590
Volatile	SPI	50	256	125	-40°C to +125°C	8	SOIC	MCP41050-I/SN	SMD 143-9759●	1.200	0.670	0.580
Volatile	SPI	50	256	125	-40°C to +85°C	8	PDIP	MCP41050-I/P	129-2243●	0.960	0.540	0.460
Volatile	SPI	100	256	125	-40°C to +85°C	8	PDIP	MCP41100-I/P	155-7412●	1.400	1.060	0.830
Volatile	SPI	100	256	125	-40°C to +85°C	8	SOIC	MCP41100-I/SN	SMD 155-7424●	1.400	1.060	0.830
Volatile	SPI	100	256	125	-40°C to +125°C	8	PDIP	MCP41100-E/P	143-9404●	1.050	0.710	0.590
Volatile	SPI	100	256	125	-40°C to +125°C	8	SOIC	MCP41100-E/SN	SMD 143-9405●	1.050	0.710	0.590
Dual Pot												
Volatile	SPI	10	129	75	-40°C to +125°C	14	PDIP	MCP4231-103E/P	NEW 157-8436●	0.880	0.660	0.520
Volatile	SPI	10	129	75	-40°C to +125°C	14	SOIC	MCP4231-103E/SL	NEW SMD 157-8437●	0.880	0.660	0.520
Volatile	SPI	10	129	75	-40°C to +125°C	10	MSOP	MCP4232-103E/UN	NEW SMD 157-8438●	0.880	0.660	0.520
Volatile	SPI	10	129	75	-40°C to +125°C	14	PDIP	MCP4241-103E/P	NEW 157-8439●	1.040	0.780	0.620
Volatile	SPI	10	129	75	-40°C to +125°C	14	SOIC	MCP4241-103E/SL	NEW SMD 157-8440●	1.040	0.780	0.620
Volatile	SPI	10	129	75	-40°C to +125°C	10	MSOP	MCP4242-103E/UN	NEW SMD 157-8441●	1.040	0.780	0.620
Volatile	SPI	10	256	75	-40°C to +125°C	14	DIP	MCP42010-E/P	133-2110●	1.480	1.240	0.820
Volatile	SPI	10	256	75	-40°C to +125°C	14	SOIC	MCP42010-E/SL	SMD 133-2111●	1.480	1.240	0.820
Volatile	SPI	10	256	75	-40°C to +125°C	14	DIP	MCP42010-I/P	975-8615●	1.790	1.000	0.870
Volatile	SPI	10	257	75	-40°C to +125°C	14	PDIP	MCP4251-103E/P	NEW 157-8442●	0.910	0.690	0.540
Volatile	SPI	10	257	75	-40°C to +125°C	14	SOIC	MCP4251-103E/SL	NEW SMD 157-8444●	0.910	0.690	0.540
Volatile	SPI	10	257	75	-40°C to +125°C	10	MSOP	MCP4252-103E/UN	NEW SMD 157-8445●	0.910	0.690	0.540
Volatile	SPI	10	257	75	-40°C to +125°C	14	PDIP	MCP4261-103E/P	NEW 157-8446●	1.180	0.890	0.700
Volatile	SPI	10	257	75	-40°C to +125°C	14	PDIP	MCP4261-103E/SL	NEW 157-8447●	1.180	0.890	0.700
Volatile	SPI	10	257	75	-40°C to +125°C	10	MSOP	MCP4262-103E/UN	NEW SMD 157-8448●	1.180	0.890	0.700
Volatile	SPI	50	256	125	-40°C to +125°C	14	PDIP	MCP42050-E/P	143-9407●	1.550	1.070	0.870
Volatile	SPI	50	256	125	-40°C to +125°C	14	SOIC	MCP42050-E/SL	SMD 143-9408●	1.550	1.070	0.870
Volatile	SPI	50	256	125	-40°C to +85°C	14	PDIP	MCP42050-I/P	155-7421●	2.080	1.580	1.240
Volatile	SPI	100	256	125	-40°C to +125°C	14	PDIP	MCP42100-E/P	143-9409●	1.550	1.070	0.870
Volatile	SPI	100	256	125	-40°C to +125°C	14	SOIC	MCP42100-E/SL	SMD 143-9410●	1.550	1.070	0.870
Volatile	SPI	100	256	125	-40°C to +125°C	14	PDIP	MCP42100-I/P	155-7407●	2.080	1.580	1.240

RL Re-reeling available

Digital Potentiometers

MICROCHIP

488545

	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
4021	8	SOIC	Single, 64-pos Digital Potentiometer with SPI™ Interface, 5k	MCP4021T-502E/SN	NEW SMD 155-7418●	0.81	0.61	0.48
41050	8	SOIC	Single, 256-pos Digital Potentiometer with SPI™ Interface, 50k	MCP41050-E/SN	SMD 143-9403●	1.05	0.71	0.59
41050	8	SOIC	Single, 256-pos Digital Potentiometer with SPI™ Interface, 50k	MCP41050-I/SN	SMD 143-9759●	1.20	0.67	0.58
41100	8	PDIP	Single, 256-pos Digital Potentiometer with SPI™ Interface, 100k	MCP41100-I/P	NEW 155-7412●	1.40	1.06	0.83
41100	8	SOIC	Single, 256-pos Digital Potentiometer with SPI™ Interface, 100k	MCP41100-I/SN	NEW SMD 155-7424●	1.40	1.06	0.83
41100	8	PDIP	Single, 256-pos Digital Potentiometer with SPI™ Interface, 100k	MCP41100-E/P	143-9404●	1.05	0.71	0.59
41100	8	SOIC	Single, 256-pos Digital Potentiometer with SPI™ Interface, 100k	MCP41100-E/SN	SMD 143-9405●	1.05	0.71	0.59
42050	14	PDIP	Dual, 256-pos Digital Potentiometer with SPI™ Interface, 50k	MCP42050-E/P	143-9407●	1.55	1.07	0.87
42050	14	SOIC	Dual, 256-pos Digital Potentiometer with SPI™ Interface, 50k	MCP42050-E/SL	SMD 143-9408●	1.55	1.07	0.87
42050	14	PDIP	Dual, 256-pos Digital Potentiometer with SPI™ Interface, 50k	MCP42050-I/P	NEW 155-7421●	2.08	1.58	1.24
42100	14	PDIP	Dual, 256-pos Digital Potentiometer with SPI™ Interface, 100k	MCP42100-E/P	143-9409●	1.55	1.07	0.87
42100	14	SOIC	Dual, 256-pos Digital Potentiometer with SPI™ Interface, 100k	MCP42100-E/SL	SMD 143-9410●	1.55	1.07	0.87
42100	14	PDIP	Dual, 256-pos Digital Potentiometer with SPI™ Interface, 100k	MCP42100-I/P	NEW 155-7407●	2.08	1.58	1.24

F to V, V to F & RMS to DC Converters & VCOs

210431

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
32	ADI	14	DIP	V/F, F/V Converter, out:=500kHz Max., ±0.05% linearity	ADVFC32KNZ	107-9386●	9.32	7.15	6.06	– –	– –
32	TI	14	DIP	V/F, F/V Converter, out:=500kHz mAx., High linearity ±0.01% Max at 10kHz FS, ±0.05% Max at 100kHz FS.	VFC32KPG4	121-9419●	8.56	5.83	4.70	– –	– –
32	TI	14	SOIC	Voltage-To-Frequency Converter	VFC32KUE4	SMD 120-7253●	8.36	7.19	5.85	– –	– –
99	ADI	20	PLCC	Programmable Oscillator	AD2S99APZ	SMD 143-8340●	13.76	10.62	9.01	– –	– –
110	TI	14	PDIP	Voltage-To-Frequency Converter	VFC110AP	121-2351●	17.02	14.19	12.16	– –	– –
231	NSC	8	DIP	Precision Voltage-to-Frequency Converter	LM231N/NOPB	NEW 156-4721●	5.83	4.81	4.27	3.41	3.16
320	TI	14	PDIP	Voltage-To-Frequency Converter	VFC320BP	121-2352●	19.05	15.90	14.87	– –	– –
331	NSC	8	DIP	Precision Voltage to Frequency Converter	LM331AN	948-7743●	8.98	6.08	4.97	4.69	4.35
331	NSC	8	DIP	Precision Voltage to Frequency Converter	LM331N	948-7751●	2.40	1.43	1.14	0.98	0.87
536	ADI	14	DIP	True RMS to DC Converter - 2MHz (Max) bandwidth, 60dB dynamic range.	AD536AJD	405-358▲	19.01	15.51	12.24	– –	– –
536	ADI	10	TO-100	True RMS to DC Converter - 2MHz (mAx) bandwidth, 60dB dynamic range.	AD536AJH	405-360▲	12.07	8.75	7.16	– –	– –
636	ADI	10	TO-100	True RMS to DC Converter - 1% error, 50dB O/P. 800μA IQ.	AD636JH	405-395▲	13.15	10.88	8.55	– –	– –
637	ADI	16	SOIC	High Precision, Wideband RMS-to-DC Converter	AD637JRZ	NEW SMD 166-1052●	18.34	14.68	12.23	11.29	10.19
637	ADI	14	DIP	High Precision Wide Band RMS to DC Converter. Acc. 0.02% Max.Computes True RMS Square, Mean Square, Absolute Value, dB Output (60dB range). Bandwidth 8MHz at 2V RMS	AD637JD	318-2290▲	38.87	33.62	27.80	26.62	– –
637	ADI	14	DIP	True RMS to DC Converter - 8MHz (Max) bandwidth, 60dB dynamic range.	AD637JQ	594-970▲	15.39	12.24	10.87	– –	– –
637	ADI	16	WSOIC	RMS-to-DC Converter, BW 8000Hz, acc 0.02%	AD637ARZ	SMD 143-8408●	25.49	20.26	18.00	– –	– –
650	ADI	14	DIP	V/F, F/V Converter out 1MHz @ ±0.1% linearity	AD650JNZ	960-5436●	13.82	10.60	8.99	– –	– –
650	ADI	14	PDIP	Voltage-to-Frequency and Frequency-to-Voltage Converter	AD650KNZ	143-8406●	15.55	12.36	10.98	– –	– –
652	ADI	20	PLCC	Monolithic Synchronous Voltage-to-Frequency Converter.	AD652KPZ	SMD 143-8407●	17.64	14.03	12.46	– –	– –
654	ADI	8	DIP	V/F Converter, Input Voltage ±30V Max out:=500kHz Max	AD654JNZ	960-5053●	7.70	5.25	4.23	– –	– –
654	ADI	8	SOIC	V/F Converter, Input Voltage ±30V Max out: = 500KHz Max ,0.03% linearity for 250KHz FS	AD654JRZ	SMD 960-5363●	7.43	5.10	4.12	3.96	– –
736	ADI	8	DIP	True RMS to DC Converter - 2% error, IQ 270μA Max	AD736JNZ	960-5061●	7.22	4.92	3.97	– –	– –
736	ADI	8	SOIC	RMS to DC Converter	AD736JRZ	SMD 960-5177●	7.22	4.92	3.97	– –	– –
737	ADI	8	DIP	True RMS to DC Converter - 2% error, IQ 210μA Max	AD737JNZ	960-5070●	5.74	3.91	3.16	– –	– –
1804	TI	24	QFN	1:3 LVPECL Clock Buffer + Additional LVCMOS Output and programmable Divider.	CDCM1804RGETG4	SMD 139-0655●	9.56	7.74	6.53	5.44	5.31
1966	LT	8	MSOP	Precision, RMS-to-DC Converter	LTC1966CMS8#PBF	SMD 133-0887●	5.55	3.14	2.77	2.53	2.46
1967	LT	8	MSOP	Precision, RMS-to-DC Converter	LTC1967CMS8#PBF	SMD 133-0888●	6.06	4.80	3.93	3.44	3.05
1968	LT	8	MSOP	Precision, RMS-to-DC Converter	LTC1968CMS8#PBF	SMD 133-0889●	7.45	4.22	3.69	3.23	3.06
2907	NSC	14	MDIL	Frequency to Voltage Converter	LM2907N/NOPB	NEW 156-4686●	1.23	1.01	0.90	0.72	0.66
2907	NSC	14	DIP	Frequency to Voltage Converter (Tachometer)	LM2907N	948-7760●	2.07	1.65	1.18	0.97	0.90
2907	NSC	8	DIP	Frequency to Voltage Converter (Tachometer)	LM2907N-8	948-7778●	1.78	1.43	1.04	0.62	0.60
2917	NSC	14	DIP	Frequency to Voltage Converter (Tachometer) ±28V in	LM2917N	948-7786●	1.50	1.23	1.12	1.10	1.03
2917	NSC	8	DIP	Frequency to Voltage Converter (Tachometer) ±28V in	LM2917N-8	948-7794●	1.45	0.86	0.68	0.58	0.53
5930	ADI	20	TSSOP	Programmable Frequency Sweep and Output Burst Waveform Generator	AD5930YRUZ	SMD 127-4252●	11.48	8.86	7.51	7.20	6.74
5932	ADI	16	TSSOP	Programmable Single-Scan Waveform Generator	AD5932YRUZ	SMD 127-4251●	7.51	5.76	4.89	4.68	4.38
7740	ADI	8	MSOP	3V/5V Low Power Synchronous Voltage-to-Frequency Converter	AD7740KRMZ	NEW SMD 166-1051●	1.85	1.44	1.17	1.07	0.89
8516	ADI	64	LFCSP	14-Output Clock Generator with Integrated 2.8 GHz VCO	AD9516-0BCPZ	SMD 149-8700●	13.17	12.12	11.23	– –	– –
9400	MCHIP	14	SOIC	13 Bit V/F & F/V Converter.	TC9400COD	NEW SMD 162-7183●	5.09	3.85	3.03	– –	– –
9400	TS	14	DIP	V/F, F/V Converter. 10Hz to 100kHz. Linearity (V/F)=0.05%	TC9400CPD	976-2736●	5.36	5.25	4.47	– –	– –
9401	MCHIP	14	PDIP	0.01% Linear Voltage-to-Frequency Converter	TC9401CPD	NEW 160-5584●	8.07	6.11	4.81	– –	– –
9402	MCHIP	14	DIP	V/F, F/V Converter. 10Hz to 100kHz. Linearity (V/F)=0.25%	TC9402CPD	121-3077●	2.03	1.62	1.08	– –	– –
9517	ADI	48	LFCSP	12-Output Clock Generator with Integrated 2.5 GHz VCO	AD9517-1BCPZ	SMD 149-8701●	12.19	11.67	11.37	– –	– –
9833	ADI	10	MSOP	Low Power 20 mW 2.3 V to 5.5 V Programmable Waveform Generator	AD9833BRMZ	158-1966●	7.02	4.97	4.01	– –	– –

RMS-Level Detector

THAT Corporation

- Logarithmic response to the RMS value of the input signal, convenient for audio applications requiring decibel-linear scaling
- Designed to convert an AC input current into a DC output voltage
- Integration time adjustable via an external R/C pair. With some external circuitry, response to DC also possible

Dynamic Range	≥80dB	Bandwidth	≥20kHz
Crest Factor	8 (1 dB error)	Gain-Bandwidth	20MHz

467573

Mftrs. List No.	Pins	Pkg	Order Code	Price Each 1+	10+	100+	250+	500+
THAT2252L08-U	8	SIP	135-4169●	2.77	2.22	1.85	1.58	1.48

Filters, Active

2nd/4th/5th & 8th Order Filters

MAXIM

New

The MAX268 is a CMOS switched capacitor pin programmable Universal and Bandpass filter. There are 32 different centre frequencies range up to 140kHz.
The MAX274/75 are continuous time filters with 4/2 2nd order sections respectively. The filters can be configured for Butterworth, Bessel & Chebyshev filter response. The frquency range for the MAX274/75 are 150kHz/300kHz respectively.
The MAX280 is a 5th order lowpass instrumentation filter ranging from 0 to 20kHz. The filter can be cascaded for higher order rolloff i.e. 10th order.
The MAX7410 is a switched capacitor 5th order low pass Butterworth filter. The cut off freqency range is 1 to 15kHz and draws 1.2mA when in operation.
The MAX7420/21/23/24/25 are switched capacitor 5th order lowpass filter. The MAX7420/24 are Butterworth filters, MAX7421/25 are Elliptic filters & the MAX7423 is a Bessel filter. The cut off

RL Re-reeling available

Farnell

Filters, Active - continued

2nd/4th/5th & 8th Order Filters - continued

freqency range is 1 to 45kHz and draws 3mA when in operation.
The MAX281 is a 5th order lowpass instrumentation Bessel filter ranging from 0 to 20kHz.
The MAX7427 is a 5th order lowpass Elliptic filter ranging from 1 to 12kHz.
The MAX7403/07 are 8th order lowpass Elliptic filter ranging from 1 to 10kHz.

501295

Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
24	SOIC	2nd Order Pin-Programmable Bandpass Filter	MAX268BEWG+	SMD 155-0449	13.07	11.81	10.78	9.91	8.78
20	wideSO	4th Order Continuous Time Active Filters	MAX275BCWP+	SMD 155-0452	5.63	4.39	3.58	3.28	2.82
16	wideSO	5th Order Butterworth, Zero-Error,Switched-Capacitor Lowpass Filter	MAX280EWE+	SMD 155-0453	7.70	6.93	6.29	5.76	4.81
8	MicroMAX	5th-Order Butterworth , Lowpass, Switched-Capacitor Filter	MAX7410EUA+	SMD 155-0460	2.16	1.97	1.82	1.68	1.54
8	MicroMAX	5th-Order Butterworth , Lowpass, Switched-Capacitor Filter	MAX7420EUA+	SMD 155-0461	4.10	3.35	3.06	2.84	2.63
8	MicroMAX	5th-Order Butterworth , Lowpass, Switched-Capacitor Filter	MAX7424EUA+	SMD 155-0464	4.61	3.67	3.35	2.84	2.63
8	MicroMAX	5th-Order Bessel, Lowpass, Switched-Capacitor Filter	MAX7423EUA+	SMD 155-0463	4.10	3.35	3.06	2.84	2.63
16	wideSO	5th Order Bessel , Zero Error, Switched Capacitor Lowpass Filter	MAX281AEWE+	SMD 155-0454	12.08	10.57	8.45	7.04	6.03
8	MicroMAX	5th-Order Elliptic, Lowpass, Switched-Capacitor Filter	MAX7425EUA+	SMD 155-0465	4.10	3.35	3.06	2.84	2.63
8	MicroMAX	5th-Order Elliptic, Lowpass, Switched-Capacitor Filter	MAX7421EUA+	SMD 155-0462	4.10	3.35	3.06	2.84	2.63
8	MicroMAX	5th-Order Elliptic, Lowpass, Switched-Capacitor Filter	MAX7427EUA+	SMD 155-0466	1.69	1.38	1.26	1.16	1.09
28	SO	8th Order Continuous Time Active Filters	MAX274BCWI+	SMD 155-0450	9.00	7.02	5.73	5.27	4.51
16	wideSO	8th-Order, Elliptic, Lowpass Switched-Capacitor Filter	MAX297EWE+	SMD 155-0455	6.05	5.46	4.96	4.54	3.90
8	SO	8th-Order, Elliptic, Lowpass Switched-Capacitor Filter	MAX7403ESA+	SMD 155-0456	3.53	3.17	2.88	2.65	2.27
8	SO	8th-Order, Elliptic, Lowpass Switched-Capacitor Filter	MAX7407ESA+	SMD 155-0458	3.53	3.17	2.88	2.65	2.27

210429

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
04	TI	8	SOIC	Butterworth Switched-Capacitor Filter.	TLC04CDG4	SMD 123-4853	1.93	1.48	1.09	0.98	0.90
4	TI	8	SOIC	Filter, Switched-Cap Low-Pass	TLC04ID	SMD 845-3667	2.31	1.57	1.17	– –	– –
10	NSC	20	DIP	Universal Monolithic Dual Switched Capacitor Filter	MF10CCN/NOPB	NEW 156-4735	2.95	2.25	1.73	1.53	1.44
10	NSC	20	SOIC	Universal Dual Switched 4th Order Capacitor Filter	MF10CCWM/NOPB	NEW SMD 168-5747	2.92	2.41	1.96	1.81	1.61
10	NSC	20	DIP	Monolithic Dual Switched Capacitor Filter, clock to centre frequency ratio error ±1.5%	MF10CCN	948-7727	2.44	2.09	1.83	1.62	1.46
14	TI	8	SOIC	Filter, Switched-Cap Low-Pass	TLC14CD	SMD 845-3748	1.97	1.44	1.04	– –	– –
42	TI	16	SOIC	Universal Active Filter.	UAF42AUE4	SMD 120-7366	13.87	10.61	7.80	– –	– –
42	TI	14	DIP	Universal Active Filter.	UAF42AP	141-7429	17.56	12.76	9.32	– –	– –
100	NSC	20	DIP	High Performance CMOS Dual Switched Capacitor Filter, clock to centre frequency ratio error ±0.2% typ. Operation up to 100kHz (Improved MF10)	LMF100CCN	948-7735	7.59	5.14	4.20	3.96	3.68
1060	LT	20	DIP	Universal Dual Filter Building Block.	LTC1060CN#PBF	NEW 166-3595	6.78	5.24	4.20	3.50	3.13
1062	LT	8	DIP	5th Order Low Pass Filter.	LTC1062CN8#PBF	956-0815	5.79	3.30	2.54	– –	– –
1062	LT	16	SOIC	5th Order Lowpass Filter	LTC1062CSW#PBF	SMD 956-0823	5.91	3.38	2.73	– –	– –
1063	LT	8	DIP	5th Order Butterworth Low Pass Filter (clock sweepable Without changing the Input coupling network)	LTC1063CN8#PBF	956-0831	10.40	5.88	4.43	– –	– –
1063	LT	16	SOIC	Clock-Tunable 5th Order Butterworth Filter	LTC1063CSW#PBF	SMD 956-0840	10.64	6.30	4.73	– –	– –
1064	LT	14	DIP	8th Order Butterworth Lowpass Filter	LTC1064-2CN#PBF	956-0858	18.89	10.74	8.66	– –	– –
1562	LT	20	SSOP	Quad Universal Filter, Butterworth, Chebyshev, Elliptic or EquirippleDelay Response	LTC1562CG-2#PBF	SMD 141-7716	18.06	9.96	7.57	– –	– –
1562	LT	20	SSOP	Quad Universal Filter, Butterworth, Chebyshev, Elliptic or EquirippleDelay Response	LTC1562IG-2#PBF	SMD 141-7717	19.64	11.23	9.14	– –	– –
1563	LT	16	SSOP	Unity-gain Butterworth response using a single resistor value, or different resistor values to get other responses with or without gain	LTC1563-2CGN#PBF	SMD 141-7718	3.90	2.20	1.62	– –	– –
1563	LT	16	SSOP	Unity-gain Bessel response using a single resistor value, or different resistor values to get other responses with or without gain	LTC1563-3CGN#PBF	SMD 141-7719	3.68	2.11	1.73	– –	– –
1563	LT	16	SSOP	Unity-gain Butterworth response using a single resistor value, or different resistor values to get other responses with or without gain	LTC1563-2IGN#PBF	SMD 141-7720	4.01	2.30	1.87	– –	– –
1563	LT	16	SSOP	Unity-gain Bessel response using a single resistor value, or different resistor values to get other responses with or without gain	LTC1563-3IGN#PBF	SMD 141-7722	4.01	2.30	1.87	– –	– –
1564	LT	16	SSOP	10k-150kHz Digitally Controlled Antialiasing Filter and 4Bit PGA	LTC1564CG#PBF	NEW SMD 166-3645	17.39	13.48	10.78	8.99	8.05
1564	LT	16	SSOP	10k-150kHz Digitally Controlled Antialiasing Filter and 4Bit PGA	LTC1564IG#PBF	NEW SMD 166-3646	20.03	15.53	12.42	10.35	9.26
1568	LT	16	SSOP	Single 4-Pole Lowpass Filter or Matched Pair of 2-Pole Lowpass Filters	LT1568CGN#PBF	SMD 141-7714	8.03	4.54	3.62	– –	– –
1568	LT	16	SSOP	Single 4-Pole Lowpass Filter or Matched Pair of 2-Pole Lowpass Filters	LT1568IGN#PBF	SMD 141-7715	9.17	5.23	4.26	– –	– –
1569	LT	8	SOIC	Linear Phase, DC Accurate, Tunable 10th Order Lowpass Filter	LTC1569CS8-7#PBF	SMD 141-7723	11.57	6.54	4.85	– –	– –
1569	LT	8	SOIC	Linear Phase, DC Accurate, Tunable 10th Order Lowpass Filter	LTC1569IS8-7#PBF	SMD 141-7724	12.03	6.89	5.61	– –	– –
6603	LT	24	QFN	Dual Adjustable Lowpass Filter	LTC6603CUF#PBF	NEW SMD 167-3527	14.13	10.77	9.05	7.54	6.68
6603	LT	24	QFN	Dual Adjustable Lowpass Filter	LTC6603IUF#PBF	NEW SMD 167-3528	16.21	12.35	10.37	8.65	7.66
7414	MAX	8	MicroMax	5th-Order Lowpass Switched Capacitor Butterworth Filter.	MAX7414EUA+	NEW SMD 161-0126	2.91	2.40	1.96	1.66	1.53
7480	MAX	8	SOIC	8TH- Order, Low-Pass, Butterworth, Switched Capacitor Filter. Clock to Corner ratio 100:1, tunable corner frequency 1Hz to 2kHz	MAX7480ESA+	SMD 118-7937	3.21	2.27	1.93	– –	– –

Fluorescent HID Drivers

210432

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+
4830	MICR	8	MSOP	Low Noise 180V Peak to Peak EL Driver	MIC4830YMM	NEW SMD 166-3113	1.54	1.27	1.02	0.93
4832	MICR	8	MSOP	Low Noise 220V Peak to Peak EL Driver	MIC4832YMM	NEW SMD 166-3114	1.54	1.27	1.02	0.93
6810	ALEG	18	DIP	Vacuum Fluorescent Drive, 10-Bit CMOS shift register, latched With active pnp pull downs, increased data Input rate compared to UCN5810, 40mA - 60V...	A6810SA-T	119-3489	1.63	1.11	0.85	– –
6812	ALEG	28	SOIC	DABiC-IV 20-Bit Serial-Input Latched Source Drivers With Active Pull-Downs	A6812ELW-T	SMD 119-8096	3.71	2.53	1.88	1.79
8302	ADI	14	TSSOP	2.7GHz RF / IF Gain Phase Detector.	AD8302ARUZ	SMD 149-8702	15.94	14.69	13.61	– –
8314	ADI	8	MSOP	100 MHz to 2.7 GHz, 45 dB RF Detector/Controller	AD8314ARMZ	SMD 149-8703	8.56	5.83	4.70	– –
8333	ADI	32	LFCSP	DC to 50 MHz, Dual I/Q Demodulator and Phase Shifter	AD8333ACPZ	SMD 149-8704	12.07	10.53	9.34	– –
9022	NSC	8	MSOP	Vacuum Fluorescent Display Driver	LM9022M	SMD 128-6933	0.98	0.76	0.61	0.51
29000	INTS	5	ODFN	Ambient Light Photo Detector IC	ISL29000IROZ-T7	SMD 122-6249	1.01	0.83	0.75	0.60

RL Re-reeling available

Hall Effect Switches

210449

	Mftr.	Pins	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
94	HON	3 / SIL	Linear Output Hall Effect Transducer	SS94A2	120-8001	11.48	10.69	10.46
634	HON	4 / DIP	Hall Effect anaLogue position sensor	634SS2	121-5665	14.66	10.99	8.79
712	ALL	8 / SOIC	5A Current Sensor	ACS712ELCTR-05B-T	SMD 132-9623	2.58	1.76	1.43
712	ALL	8 / SOIC	20A Current Sensor	ACS712ELCTR-20A-T	SMD 132-9624	2.58	1.76	1.31
1101	ALEG	3 / SOT-23W	Hall-effect switch	A1101ELHLT-T	SMD 119-8077	1.12	0.88	0.72
1101	ALEG	3 / SIP	Hall-effect switch	A1101EUA-T	119-8078	1.12	0.88	0.72
1201	ALEG	3 / SOT-23W	Continuous-Time Bipolar Hall Effect Switch	A1201ELHLT-T	SMD 119-8080	1.21	0.96	0.80
1201	ALEG	3 / SIP	Continuous-Time Bipolar Hall Effect Switch	A1201EUA-T	119-8081	1.21	0.96	0.80
1210	ALEG	3 / SOT-23W	Continuous-Time Latch Hall Effect Switch	A1210ELHLT-T	SMD 119-8082	1.12	0.88	0.72
1210	ALEG	3 / SIP	Continuous-Time Latch Hall Effect Switch	A1210EUA-T	119-8083	1.12	0.88	0.72
1301	ALEG	3 / SOT-23W	Continuous-Time Ratiometric Linear Hall Effect Sensor	A1301ELHLT-T	SMD 119-8084	0.90	0.71	0.59
1301	ALEG	3 / SIP	Continuous-Time Ratiometric Linear Hall Effect Sensor	A1301EUA-T	119-8085	0.81	0.63	0.53
3020	OPT	3 / SIL	HalLogic Hall Effect Sensor	OHS3020U	120-2503	2.82	2.27	1.68
3030	OPT	3 / SIL	HalLogic Hall Effect Sensor	OHS3030U	120-2504	3.46	2.76	1.92
3040	OPT	3 / SIL	HalLogic Hall Effect Sensor	OHS3040U	120-2505	3.76	3.12	2.29
3212	ALEG	3 / SOT-23W	MicroPower, Ultra-Sensitive Hall-Effect Switch.	A3212ELHLT-T	SMD 119-8086	0.70	0.60	0.50
3240	ALEG	3 / SIL	Chopper-Stabilized, Precision Hall Effect Switch, BOP 50 Gauss Max. BRP 25 Gauss typ. (IND TEMP)	A3240EUA-T	114-1949	1.93	1.20	1.02
3280	ALEG	3 / SIL	Chopper-Stabilized, Precision Hall Effect Switch, BOP 40 Gauss Max. BRP -5 Gauss mAx. (IND TEMP)	A3280EUA	300-5161	0.88	0.59	0.58
3280	ALEG	3 / SIL	Chopper-Stabilized, Precision Hall Effect Switch, BOP 40 Gauss mAx. BRP -5 Gauss Max. (IND TEMP)	A3280EUA-T	119-3487	1.76	1.12	0.90
3422	ALEG	5 / SIL	Direction-Detection Hall Effect Sensor, BOP 75 Gauss Max. BRP -18 Gauss typ. (IND TEMP).	A3422EKA	300-5112	1.89	1.21	1.00
3422	ALEG	5 / SIL	Direction-Detection Hall Effect Sensor, BOP 75 Gauss Max. BRP -18 Gauss typ. (IND TEMP).	A3422EKA-T	119-3486	3.40	2.19	1.80
4420	MAX	8 / SOIC	6A Single noninverting MOSFET Driver.	MAX4420ESA+	NEW SMD 142-2324	4.08	2.63	1.93
4427	MAX	8 / SOIC	Dual noninverting 1.5A MOSFET Driver	MAX4427ESA+	NEW SMD 142-2325	3.34	2.24	1.90
52004	ROHM	4 / VCSP50L1	Bipolar Detection Hall IC with Polarity Discrimination Output	BU52004GUL-E2	NEW SMD 160-3634	0.36	0.28	0.23

HALL Sensors & Switchers

MAXIM Allegro

496458

	Pins/Package	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
1101	3 / SIP	Continuous-Time Switch	A1101LUA-T	152-1703	1.24	0.85	0.61
1102	3 / SIP	Continuous-Time Switch	A1102EUA-T	152-1704	0.90	0.81	0.73
1104	3 / SIP	Continuous-Time Switch	A1104EUA-T	152-1705	0.71	0.64	0.58
1104	3 / SIP	Continuous-Time Switch	A1104LUA-T	152-1707	0.87	0.79	0.71
1205	3 / SIP	Continuous-Time Bipolar Switch	A1205EUA-T	NEW 168-4779	1.36	1.05	0.87
1205	3 / SIP	Continuous-Time Bipolar Switch	A1205LUA-T	NEW 168-4780	1.66	1.29	1.05
1205	3 / SOT-23W	Continuous-Time Bipolar Switch	A1205ELHLT-T	NEW SMD 168-4781	1.36	1.05	0.87
1302	3 / SIP	Continuous-Time Ratiometric Linear Hall Effect Sensor	A1302EUA-T	152-1708	0.72	0.65	0.59
1242	3 / SIP	Two Wire Chopper Stabilized Hall Effect Latch	A1242EUA-I1-T	NEW 152-1675	0.86	0.78	0.70
9921	10 / UMAX	Dual, 2-Wire Hall-Effect Sensor Interface with Diagnostics	MAX9921AUB+	NEW SMD 167-3106	1.72	1.22	0.96
1321	3 / SOT-23W	Ratiometric Linear Hall Effect Sensor for High Temp.	A1321ELHLT-T	SMD 152-1677	0.97	0.88	0.80
1321	3 / SIP	Ratiometric Linear Hall Effect Sensor for High Temp.	A1321EUA-T	152-1678	0.97	0.88	0.80
1322	3 / SIP	Ratiometric Linear Hall Effect Sensor for High Temp.	A1322EUA-T	152-1679	0.97	0.88	0.80
1395	6 / DFN	Micro Power 3V Linear Hall Effect Sensor with 3 State O/P	A1395SEHLT-T	SMD 152-1680	1.16	0.79	0.57
3213	3 / SIP	Micro Power Ultra Sensitive Hall Effect Switch.	A3213EUA-T	152-1681	0.69	0.62	0.56
3281	3 / SOT-23W	Chopper Stabilized Precision Hall Effect Latches	A3281ELHLT-T	SMD 152-1682	0.81	0.71	0.64
3281	3 / Ultra Mini SIP	Chopper Stabilized Precision Hall Effect Latches	A3281EUA-T	152-1683	0.81	0.71	0.64
3282	3 / SIP	Chopper Stabilized Hall Effect Latch	A3282EUA-T	152-1684	0.69	0.62	0.56
3282	3 / SOT-23W	Chopper Stabilized Hall Effect Latch	A3282LLHLT-T	SMD 152-1685	0.79	0.70	0.64
3290	3 / SIP	Chopper Stabilized Precision Hall Effect Latch	A3290KUA-T	NEW 165-0225	0.64	0.57	0.47
3291	3 / SIP	Chopper Stabilized Precision Hall Effect Latch	A3291KUA-T	NEW 165-0226	0.64	0.57	0.47
3423	4 / SIP	Dual Channel Hall Effect Direction Detection Sensor.	A3423LK-T	NEW 165-0227	1.74	1.57	1.30
3425	4 / SIP	Ultra-Sensitive Dual-Channel Quadrature Hall-Effect Bipolar Switch	A3425LK-T	NEW 165-0228	1.61	1.43	1.18
3425	4 / SIP	Ultra Sensitive Dual Channel Quadrature Hall Effect Bipolar Switch.	A3425EK-T	152-1686	1.47	1.33	1.21
3245	3 / SIP	Chopper-Stabilized Omnipolar Hall-Effect Switch	A3245EUA-T	152-1709	0.72	0.64	0.58
3245	3 / SIP	Chopper-Stabilized Omnipolar Hall-Effect Switch	A3245LUA-T	152-1710	1.12	0.80	0.61

LCD/TFT Drivers

210433

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
438	MCHIP	40	DIP	32-Segment CMOS LCD Driver.	AY0438/P	NEW 162-7184	3.130	2.370	1.860	– –	– –
749	MAX	8	SOIC	LCD Bias Supply, digitally adjustable	MAX749CSA+	SMD 972-6365	5.400	3.870	2.850	2.370	– –
1600	ZET	10	MSOP	LCD and OLED bias boost converter - STN, CSTN screens	ZXLB1600X10	SMD 122-6475	1.040	0.780	0.600	0.550	0.510
1621	HT	48	DIP	RAM Mapping 32 x 4 LCD Controller for I/O MCU.	HT1621B-48DIPLF	SMD 142-0866	1.520	1.220	1.000	0.930	0.800
3931	NSC	24	LLP	Dual RGB LED Driver With High Current Boost DC-DC Converter.	LP3931ISQ	SMD 100-8068	2.940	2.160	1.650	– –	– –
3936	NSC	32	CSP	Lighting Management System fo 6 White LEDs and 1 RGB or Flash LED.	LP3936SL	SMD 820-6864	3.110	2.650	2.120	– –	– –
3943	NSC	24	LLP	RGB/White/Blue 6-LED Fun Light Driver	LP3943ISQ	SMD 820-6872	2.500	2.120	1.690	– –	– –
3944	NSC	24	LLP	RGB/White/Blue 8-LED Fun Light Driver	LP3944ISQ	SMD 820-6880	2.660	2.250	1.810	– –	– –
3950	NSC	32	LLP	Color LED Driver With Audio Synchronizer	LP3950SL	SMD 100-8069	2.330	1.690	1.360	– –	– –
4543	TI	16	PDIP	CMOS BCD-to-Seven-Segment Latch/Decoder/Driver for LCD.	CD4543BE	128-7418	0.430	0.270	0.196	0.145	0.116
4826	MICR	8	MSOP	Low Input Voltage 160Vpp O/P Voltage EL Driver	MIC4826YMM	NEW SMD 155-6723	1.920	1.540	1.280	– –	– –
4827	MICR	8	MSOP	Low Input Voltage, 180VPP Output Voltage, EL Driver.	MIC4827YMM	NEW SMD 155-6755	1.550	1.250	1.130	– –	– –
5225	INTS	24	TSSOP	10-Channel TFT-LCD Reference Voltage Generator.	EL5225IRZ	SMD 122-6243	3.340	3.010	2.750	2.530	2.340
5452	NSC	40	DIP	33-Segment and Back Plane LCD Driver (Serially Loaded)	MM5452N	121-5186	6.720	4.130	3.540	2.570	2.030
5452	NSC	44	PLCC	32-Segment and Back Plane LCD Driver (Serially Loaded)	MM5452V	SMD 949-3859	6.220	4.220	3.440	3.260	2.940
5453	NSC	40	MDIP	32 Segment or 4.5 digit 7-Segment LCD Display Driver	MM5453N/NOPB	NEW 156-4709	3.820	3.150	2.800	2.150	1.690
5453	NSC	40	DIP	Serial In/Parallel Out LCD Driver (Serially Loaded).	MM5453N	948-7808	6.370	4.110	3.060	2.210	1.820
5483	NSC	40	DIP	Liquid Crystal Display Driver 31 Segment	MM5483N/NOPB	NEW 168-5391	4.980	3.870	3.180	2.910	2.610
5607	FCH	16	MLP	LED Driver With Adaptive Charge Pump DC/DC Converter.	FAN5607HMPX	SMD 127-6944	0.690	0.510	0.500	– –	– –
5610	FCH	8	MLP	LED Driver for White, Blue or any Color LED	FAN5610MPX	SMD 127-6947	0.610	0.490	0.350	– –	– –
5611	FCH	6	SC-70	Low Dropout LED Driver for White, Blue or any Color LED.	FAN5611S7X	SMD 127-6948	0.610	0.490	0.350	– –	– –
5612	FCH	6	SC-70	Low Dropout LED Driver for White, Blue or any Color LED.	FAN5612S7X	SMD 127-6949	0.610	0.490	0.350	– –	– –
5613	FCH	8	MLP	Low Dropout LED Driver for White, Blue or any Color LED.	FAN5613MPX	SMD 127-6950	0.920	0.680	0.510	– –	– –
5614	FCH	6	SC-70	Low Dropout LED Driver for White, Blue or any Color LED.	FAN5614S7X	SMD 127-6951	0.920	0.680	0.510	– –	– –
5616	FCH	16	MLP	High-Efficiency Constant-Current LED Driver With Adaptive Charge Pump.	FAN5616MPX	SMD 127-6952	0.900	0.720	0.520	– –	– –
7211	INTS	40	DIP	CMOS 4-digit LCD Decoder Driver (μP interface)	ICM7211AMIPLZ	120-1539	2.020	1.770	1.570	1.290	1.010
7311	FCH	20	SOIC	LCD Backlight Inverter Drive IC.	FAN7311M	SMD 122-8247	1.700	1.140	0.910	– –	– –
7311	FCH	20	SOIC	LCD Backlight Inverter Drive IC.	FAN7311BM	SMD 149-5470	0.900	0.660	0.600	0.520	0.480
7313	FCH	20	SOIC	LCD Backlight Inverter Drive IC.	FAN7313M	SMD 149-5472	0.810	0.720	0.610	0.460	0.410

RL Re-reeling available

Farnell

LCD/TFT Drivers - continued

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
7585	INTS	20	QFN	TFT-LCD Power Supply	EL7585ILZ	SMD 122-6244	1.630	1.550	1.510	1.470	1.430
8383	ADI	48	LFCSP	Low Cost 10-Bit, 6-Channel Output Decimating LCD DecDriver®	AD8383ACPZ	SMD 143-8631	7.360	5.040	4.070	– –	– –
8389	ADI	48	LFCSP	Triple, 6-Channel LCD Timing Delay-Locked Loop	AD8389ACPZ	SMD 143-8632	2.540	1.810	1.340	– –	– –
8566	NXP	40	VSOP	24-Segment Universal LCD Driver for Low multiplex rates.	PCF8566T,112	SMD 890-6149 ▲	1.520	1.240	1.200	– –	– –
8577	NXP	40	DIP	LCD Direct/Duplex Driver With I²C-Bus Interface	PCF8577CP/F3,112	890-6190	2.350	1.710	1.300	– –	– –
27966	NSC	24	LLP	White LED Driver With I2C Compatible Interface	LM27966SQ	SMD 127-1408	2.090	1.470	1.190	– –	– –
61045	TI	8	SON	LCD Boost Converter	TPS61045DRBTG4	SMD 122-6311	1.820	1.360	1.310	1.280	1.250
65120	TI	16	QFN	TFT LCD Power Supply	TPS65120RGTTG4	SMD 122-6313	2.550	2.060	1.580	1.490	1.380
65140	TI	24	TSSOP	LCD Supply With Linear Regulator , Triple output	TPS65140PWPG4	SMD 122-6314	2.140	1.560	1.220	1.110	1.070
65150	TI	24	TSSOP	LCD Bias	TPS65150PWPG4	SMD 122-6315	2.350	1.710	1.350	1.280	1.250

E-blocks Graphical LCD board EB043

matrix multimedia

This is a Graphical LCD display designed for E-blocks, which allows a large amount of data to be displayed to help reduce development time or to increase productivity in projects. The display features 132 by 132 pixels or 17424 individually addressable pixels. There is also a maximum of 65,536 individual colours available for each pixel and a white backlight to provide maximum display visibility even in the dark. Internal fonts allow up to 16 lines of text with 21 characters per line.

- 131 x 131 Pixels at a 1:1 ratio
- Up to 65,535 colours
- 3 or more programmable font sizes
- up to 16 lines of text, 21 characters per line
- E-Blocks compatible

475506

	Mftrs. List No.	Order Code	Price Each
E-BLOCKS GRAPHICAL DISPLAY BRD	EB043	138-2381	50.00

LED & Laser Drivers

MCP1650 Multiple White LED Demo Board

MICROCHIP



The MCP1650 Multiple White LED Demo Board uses the MCP1650 IC to power the nine white LEDs which are connected in series. A PIC10F202 microcontroller in a SOT-23 6 pin package is used to provide the PWM signal to the MCP1650. It also accepts a push button input that allows the user to adjust the white LEDs to three different intensities of 100%, 50% and 25%.
The PIC10F202 microcontroller is programmable, allowing the user to modify or develop their own firmware routines to further evaluate the MCP1650 in this application.

Features:
- Programmed MCP1650 White LED intensity control via the PIC10F202
- Nine white LEDs connected in series
- PIC10F202 is used to generate the PWM signal which controls the intensity of the LEDs
- Push button selection for three levels of intensity control
- Includes three AA battery holder (batteries not included)

450875

		Order Code	Price Each
MCP1650DM-LED1	MCP1650 3W White LED Demo Board	111-2774	27.72

Multiple White LED Kit - MCP1650

MICROCHIP

New



The MCP1650 Multiple White LED Demo Board demonstrates the use of a conventional boost topology in a LED application. The board also serves as a platform to evaluate the MCP1650 boost controller.

This kit includes:
- MCP1650 Multiple White LED Demo Board
- MCP1650 Multiple White LED Demo Board User's Guide

505600

Mftrs. List No.	Order Code	Price Each 1+
MCP1650DM-LED2	155-5683	20.16

LED Drivers

ON Semiconductor

New

The NCP5604/8 are multiple white LED drivers for display back light. It has a built-in DC/DC converter, based on a charge pump structure for improved battery efficiency. The NUD4001 is a high current 500mA O/P LED driver with continuous input voltage of 30V. The NUD4011 is a low current 70mA O/P LED driver with continuous input voltage of 200V. Typical applications are for automotive tail lights, industrial low voltage lighting and for portables battery back-up applications.

500025

Mftr.	Pins	Pkg	O/P Current (mA)	O/P Voltage (V)	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
ON	16	WQFN	120	6.0	Four Parrallel White LED Driver	NCP5604AMTR2G	SMD 154-7144	1.28	1.06	0.94
ON	16	WQFN	120	6.0	Three Parrallel White LED Driver	NCP5604BMTR2G	SMD 154-7145	1.23	1.01	0.91
ON	24	TQFN	500	5.5	Eight Parrallel White LED Driver	NCP5608MTR2G	SMD 154-7146	1.96	1.61	1.44
ON	8	NSOIC	500	28	Eight Series White LED Driver	NUD4001DR2G	SMD 154-7147	0.56	0.47	0.41
ON	8	NSOIC	70	200	100 Series White LED Driver	NUD4011DR2G	SMD 154-7149	0.56	0.47	0.41

LED Drivers

MAXIM

New

501841

Mftr.	Pins	Pkg	O/P Voltage (V)	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
MAX	8	MicroMAX	23	DC-DC PWM Controllers for High-Brightness LED Driver Duty Cycle 50%	MAX16801AEUA+	SMD 155-2868	1.30	1.16	1.06
MAX	8	MicroMAX	23	DC-DC PWM Controllers for High-Brightness LED Driver Duty Cycle 75%	MAX16801BEUA+	SMD 155-2869	1.30	1.16	1.06
MAX	8	MicroMAX	23	DC-DC PWM Controllers for High-Brightness LED Driver Duty Cycle 50%	MAX16802AEUA+	SMD 155-2871	1.30	1.16	1.06
MAX	8	MicroMAX	23	DC-DC PWM Controllers for High-Brightness LED Driver Duty Cycle 75%	MAX16802BEUA+	SMD 155-2872	1.30	1.16	1.06
MAX	16	TQFN	38	350mA, High-Brightness LED Driver with PWM Dimming & 5V Regulator	MAX16803ATE+	SMD 155-2873	2.31	2.03	1.63
MAX	20	TQFN	39	EEPROM-Programmable 350mA LED Driver with LED Current Foldback	MAX16805ATP+	SMD 155-2874	3.20	2.79	2.24
MAX	20	TQFN	39	EEPROM-Programmable 350mA LED Driver with LED Current Foldback with Wetting Current	MAX16806ATP+	SMD 155-2875	3.36	2.95	2.36
MAX	28	TSSOP	36	8-Channel LED Drivers with Switch-Mode Boost and SEPIC Controller.	MAX16807AUI+	SMD 155-2876	4.58	4.02	3.22
MAX	40	TQFN	—	4-Wire Interfaced LED Display Driver with I/O Expander and Key Scan	MAX6954ATL+	SMD 155-2877	13.92	12.38	11.13
MAX	40	TQFN	—	2-Wire Interfaced LED Display Driver with I/O Expander and Key Scan	MAX6955ATL+	SMD 155-2878	13.92	12.38	11.13
MAX	40	TQFN	—	2-Wire Interfaced Configurable 20/28 port LED Display Driver with I/O Expander	MAX6956ATL+	SMD 155-2881	6.89	6.03	4.82
MAX	16	QSOP	5.5	2-Wire Interfaced Configurable 20/28 port LED Display Driver with I/O Expander	MAX6959BAEE+	SMD 155-2882	8.05	7.04	5.64
MAX	44	TQFN	3.6	4-Wire Serially Interfaced 8x8 Matrix Graphic LED Driver Monocolour/RGY 2/4 step	MAX6960ATH+	SMD 155-2883	11.43	10.02	8.00
MAX	44	TQFN	3.6	4-Wire Serially Interfaced 8x8 Matrix Graphic LED Driver Monocolour/RGY 2 step	MAX6961ATH+	SMD 155-2884	9.46	8.40	7.56

RL Re-reeling available

Farnell

Mftr.	Pins	Pkg	O/P Voltage (V)	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
MAX	44	TQFN	3.6	4-Wire Serially Interfaced 8x8 Matrix Graphic LED Driver Monocolour 2/4 step	MAX6962ATH+	SMD 155-2885●	9.11	8.10	7.30
MAX	44	TQFN	3.6	4-Wire Serially Interfaced 8x8 Matrix Graphic LED Driver Monocolour 2 step	MAX6963ATH+	SMD 155-2886●	8.63	7.68	6.91
MAX	16	TSSOP	5.5	8-Port 5.5V Constant-Current LED Driver	MAX6968AUE+	SMD 155-2887●	3.16	2.77	2.20
MAX	24	TSSOP	5.5	16-Port 36V Constant-Current LED Driver	MAX6971AUG+	SMD 155-2888●	6.02	5.27	4.21
MAX	16	TSSOP	5.5	8-Port 5.5V Constant-Current LED Driver with LED Fault Detection	MAX6977AUE+	SMD 155-2889●	3.35	2.93	2.35
MAX	16	PDIP	5.5	8-Port 5.5V Constant-Current LED Driver with LED Fault Detection and Watchdog	MAX6978APE+	155-2891●	3.58	3.14	2.50

LED Drivers

National Semiconductor

New

- Input voltage range of 2.7V to 5.5V
- 170 mΩ NMOS Switch
- 190 mV Internal Voltage Reference
- Internal Soft-Start
- Current-Mode PWM Operation
- Thermal Shutdown

508898

Mftr.	Pins	Pkg	O/P Current (mA)	O/P Voltage (V)	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
NSC	6	LLP	2.8	24	PowerWise 1.6MHz Constant Current Boost LED Driver.	LM3410XSD	SMD 155-2436●	2.35	2.04	1.64
NSC	6	LLP	2.8	24	PowerWise 525KHz Constant Current Boost LED Driver	LM3410YSD	SMD 155-2437●	2.35	2.04	1.64

The STP16CPS05 is 16-bit shift register designed for LED panel displays. The serial-in, parallel-out register drivers 16 regulated constant current sources from 5mA to 100mA. The Auto Power Shut-Down and Auto Power-ON feature allows the device to save power without any external intervention. The LEDs' brightness can be controlled by using an external resistor to adjust the STP16CPS05 output current. The 30MHz high clock frequency makes the device suitable for high data rate transmission. The 3.3V voltage supply is useful in applications that interface with a 3.3V microcontroller.

New

Mftr.	Pins	Pkg	O/P Current (mA)	O/P Voltage (V)	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
ST	24	TSSOP	100	20	30MHz 3V 16 Channel Constant Current LED Sink Driver	STP16CP05TTR	SMD 155-1226●	1.73	1.52	1.25
ST	24	SO	100	20	30MHz 3V 16 Channel Constant Current LED Sink Driver with Auto Power Saving	STP16CPS05MTR	SMD 155-1227●	2.04	1.80	1.47

LED Drivers/Charge Pump

ON Semiconductor

The NCP5603 is an integrated circuit dedicated to the medium power White LED applications.

NCP5603 Features:

- Wide Battery Supply Voltage Range: 2.7 - 5.5 V
- Automatic Operating Mode 1X, 1.5X and 2X Improves Efficiency
- Dimmable Output Current
- Up to 350 mA Output Pulsed Current
- Selectable Output Voltage
- High Efficiency Up To 90%
- Supports 2.5 kV ESD, Human Body Model
- Supports 200 V Machine Model ESD
- Low 40mA Short Circuit Current

The NCP5008 is a high efficiency boost converter operating in current loop control mode to drive a LED. The current mode regulation allows a uniform brightness of the LEDs.

NCP5008 Features:

- 2.7 to 6.0 V Input Voltage Range
- Output Voltage from Vbat to 15 V
- 3.0 µA Quiescent Supply Current
- Automatically LEDs Current Matching
- No External Sense Resistor
- Includes Dimming Function
- Programmable or Automatic Current Output Mode
- LOCAL or REMOTE Control Facility
- Photo Transistor Sense Feedback Input
- Inductor Based Converter brings High Efficiency
- Low Noise DC/DC Converter

The NCP5010 is a fixed frequency PWM boost converter with integrated rectification optimized for constant current applications such as driving white LEDs.

NCP5010 Features:

- 2.7 to 5.5 V Input Voltage Range
- Efficiency: 84% for 5 LED (VF = 3.5 V by LED) at 30 mA and
- 2 V V_{IN}
- Low Noise 1 MHz PWM DC-DC Converter
- Open LED Protection and Short Circuit Protection
- Serial LEDs Architecture for Uniform Current Matching

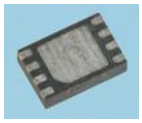
496989

Pins/Pkg	Description	Output Voltage (V)	Max Output Current (mA)	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
10/DFN	High Efficiency Charge Pump Converter / White LED Driver	5.5	350	NCP5603MNR2G	SMD 146-0680●	0.92	0.71	0.65	0.57	0.50
10/Micro	Backlight LED Boost Driver	15	75	NCP5008DMR2G	SMD 146-0678●	1.19	0.93	0.83	0.76	0.68
8/FLIP CHIP CSP	Integrated Backlight LED Boost Driver	22	25	NCP5010FCT1G	SMD 146-0679●	0.92	0.71	0.65	0.57	0.53

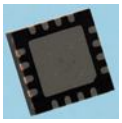
High Efficient 6 LED Drivers

MAXIM

MAX8901 Parallel LED Driver MAX8647/MAX8648 Serial LED Driver



8 pins TDFN



16 pins TQFN

The MAX8901A/B drive two to six series-connected white LEDs with constant current to provide uniform light intensity for LCD back lighting in cell phones, PDAs, and other handheld devices.
The MAX8647/MAX8648 drive up to six white LEDs or two sets of RGB LEDs in parallel with regulated constant current for display backlight. Each LED has a independent voltage supply and an adaptive current regulator.

- Input voltage range 2.6V to 5.5V
- Fixed-frequency operation MA8901 750 kHz & MAX647/8 1MHz
- Capable of driving up to 6 white LEDs
- Shutdown current MA8901& MAX647/8 are 0.01µA & 1µA
- Internal Soft-Start and Thermal Shutdown
- Dimming Current Range 0.1mA to 24mA

485339

Pins/Package	Dimming Control	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
8 / TDFN	Direct 32-Step PWM	MAX8901AETA+T	SMD 145-5607●	1.93	1.36	1.19	1.06	0.98
8 / TDFN	1 Wire Serial	MAX8901BETA+T	SMD 145-5608●	1.93	1.36	1.19	1.06	0.98
16 / TQFN	Serial I2C Interface	MAX8647ETE+	SMD 145-5609●	3.65	2.59	2.26	2.01	1.86
16 / TQFN	Serial Pulse Logic	MAX8648ETE+	SMD 145-5610●	2.87	2.03	1.77	1.57	1.47

RL Re-reeling available

Farnell

LED & Laser Drivers - continued

Six & Eight White/RGB LED Driver

MAXIM

- The MAX8901A/B are a step-up converters drive from two to six series-connected white LEDs (WLEDs) with constant current to provide uniform WLED intensity for LCD backlighting in cell phones, PDAs, and other handheld devices. The MAX8901operates at a fixed 750kHz (typ) switching frequency, allowing for tiny external components, and are optimized for the highest possible efficiency over the full 1-cell Li+/Li-Poly battery range. These converters use a single input (ON) to enable the IC and to control WLED intensity. The MAX8901A requires a direct PWM input to regulate WLED intensity with the WLED current proportional to the PWM duty cycle. The MAX8901B uses single-wire, serial-pulse dimming that reduces the WLED intensity in 32 linear steps.
- The MAX8647/8 can drive up to six white LEDs or two sets of RGB LEDs with regulated constant current for display backlight and fun light applications. By utilizing an inverting charge pump and extremely low-dropout adaptive current regulators, these ICs achieve very high efficiency over the full 1-cell Li+ battery voltage range and even with large LED forward voltage mismatch. The 1MHz fixed-frequency switching allows for tiny external components. The regulation scheme is optimized to ensure low EMI and low input ripple. The MAX8647/MAX8648 include thermal shutdown, open- and short-circuit protection.The MAX8647 features an I²C serial port, while the MAX8648 features a three-wire serial-pulse logic interface. Both devices support independent on/off and dimming for main and subbacklights. The dimming ranges are pseudo-logarithmic from 24mA to 0.1mA and off in 32 steps. Both devices include a temperature derating function to safely allow bright 24mA full-scale output current setting while automatically reducing current to protect LEDs at high ambient temperatures above +60°C.
- The MAX8645X/Y charge pumps drive up to eight white LEDs with regulated constant current for uniform intensity. The main group of LEDs (M1-M6) can be driven up to 30mA per LED for backlighting. The flash group of LEDs (F1 and F2) is independently controlled and can be driven up to 200mA per LED (or 400mA total). Two 200mA LDOs are on-board to provide power for camera functions. The LDOs' output voltages are pin programmable to meet different camera-module requirements. The MAX8645X/Y differ only in LDO output voltages. By utilizing adaptive 1x/1.5x/2x charge-pump modes and very-low-dropout current regulators, the MAX8645X/Y achieve high efficiency over the full 1-cell lithium-battery voltage range. The 1MHz fixed-frequency switching allows for tiny external components, and the regulation scheme is optimized to ensure low EMI and low input ripple.

496962

Mftrs. List No.	Pins/Package	Operating Temp. Min/Max	Order Code	Price Each 1+	10+	100+	10+	100+
MAX8901AETA+T	8 / TDFN	-40 / 85	SMD 145-5607	1.93	1.36	1.19	1.06	0.98
MAX8901BETA+T	8 / TDFN	-40 / 85	SMD 145-5608	1.93	1.36	1.19	1.06	0.98
MAX8647ETE+	16 / TQFN	-40 / 85	SMD 145-5609	3.65	2.59	2.26	2.01	1.86
MAX8648ETE+	16 / TQFN	-40 / 85	SMD 145-5610	2.87	2.03	1.77	1.57	1.47
MAX8645XETI+	28 / TQFN	-40 / 85	SMD 145-5617	4.99	3.56	2.60	– –	– –
MAX8645YETI+	28 / TQFN	-40 / 85	SMD 145-5619	5.52	3.93	2.88	– –	– –

210434

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
16	ST	24	TSSOP	30MHz 3V 16 Channel Constant Current LED Sink Driver.	STP16CP05TTR	NEW SMD 155-1226	1.73	1.52	1.25	– –	– –
16	ST	24	SO	30MHz 3V 16 Channel Constant Current LED Sink Driver with Auto Power Saving	STP16CPS05MTR	NEW SMD 155-1227	2.04	1.80	1.47	– –	– –
16	ST	24	DIP	LED Driver,SINK,16-Bit.	STP16CP05B1R	129-2453	1.86	1.46	1.21	1.11	0.95
16	ST	24	DIP	LED Driver,SINK,16-Bit, AUTO SHUTDOWN	STP16CPS05B1R	129-2452	1.75	1.46	1.24	1.09	1.04
281	TI	16	SOIC	8Bit LED Driver with I2C Interface	TPIC2810D.	NEW SMD 164-8761	1.31	1.06	0.88	0.79	0.77
300	ZET	5	SOT-23	Single / Multicell LED driver	ZXSC300E5TA	SMD 113-2760	0.72	0.54	0.47	– –	– –
310	ZET	5	SOT-23	Single or Multi Cell LED Driver With Shutdown Function	ZXSC310E5	SMD 122-6478	0.66	0.49	0.38	0.35	0.33
400	ZET	6	SOT-23	Multi Cell LED Driver Voltage mAde Boost Converter	ZXSC400E6	SMD 113-2782	1.29	1.05	0.73	– –	– –
400	ZET	6	SOT-23	LED Driver Boost Converter	ZXSC400E6TA	SMD 146-1569	0.97	0.72	0.63	0.58	0.49
438	MCHIP	40	DIP	LCD Driver	AY0438-I/P	122-7383	3.09	1.92	1.67	– –	– –
953	CAT	24	SOIC	16Bit I2C LED Dimmer	CAT9532WI.	NEW SMD 165-6134	1.13	0.99	0.79	0.65	0.61
1101	ZET	5	TSOT-23	PFM Inductive Boost Converter, Adjustable LED driver With internal switch	ZXLD1101ET5	SMD 122-6477	0.88	0.66	0.52	0.48	0.44
1160	TI	6	SON	Integrated Switch FET Boost Converter Six Series LED Driver 26V 0.7A O/P	TPS61160DRVT	NEW SMD 160-3420	1.81	1.41	1.16	0.97	0.91
1161	TI	6	SON	Integrated Switch FET Boost Converter Ten Series LED Driver 38V 0.7A O/P	TPS61161DRVT	NEW SMD 160-3421	2.10	1.63	1.34	1.13	1.06
1350	ZET	5	TSOT-23	7V-30V Input, 350mA LED driver With internal switch	ZXLD1350ET5	SMD 122-6470	1.22	0.93	0.73	0.66	0.60
1352	ZET			350mA LED driver with internal switch	ZXLD1352ET5TA	NEW 167-2732	0.97	0.71	0.64	0.53	0.46
1356	ZET	6	DFN	550mA, 60V LED driver with internal switch	ZXLD1356ET5TA	NEW SMD 167-2734	1.69	1.21	1.09	0.90	0.78
1356	ZET	5	TSOT-23	550mA, 60V LED driver with internal switch	ZXLD1356DACTC	NEW SMD 167-2735	1.90	1.35	1.21	1.01	0.87
1360	ZET	5	TSOT-23	1A LED driver with internal switch.	ZXLD1360ET5TA	SMD 134-8137	2.57	1.83	1.27	1.06	0.90
1366	ZET	5	TSOT-23	1A, 60V LED driver with internal switch.	ZXLD1366ET5TA	NEW SMD 167-2736	2.65	1.88	1.69	1.41	1.21
1366	ZET	6	DFN	1A, 60V LED driver with internal switch.	ZXLD1366DACTC	NEW SMD 167-2737	3.18	2.26	2.04	1.69	1.45
1431	LT	8	DIP	Opto Driver.	LT1431CN8#PBF	127-3481	2.27	1.28	0.96	– –	– –
1932	LT	6	SOT-23	Constant Current DC/DC LED Driver	LT1932ES6#TRMPBF	NEW SMD 166-3808	3.41	2.63	2.11	1.76	1.58
1937	LT	5	TSOT-23	White LED Step-Up Converter	LT1937ES5#TRMPBF	NEW SMD 166-3813	2.47	1.92	1.53	1.27	1.15
1937	ZET	5	TSOT-23	PFM Inductive Boost Step-up converter for LED backlighting	ZXLD1937ET5	SMD 113-2783	1.73	1.40	0.98	– –	– –
1942	LT	24	QFN	Triple Output TFT Supply plus LED Driver	LT1942EUF#PBF	SMD 127-3794	4.96	3.31	2.77	– –	– –
2289	MICR	8	MLF	White LED Driver With Internal Schottky Diode and OVP	MIC2289-15YML TR	SMD 110-0669	1.52	1.27	0.99	– –	– –
2291	MICR	5	SOT-23	1.2A PWM Boost Regulator Photo Flash LED Driver	MIC2291YD5 TR	SMD 110-0670	1.69	1.35	1.05	– –	– –
2293	MICR	8	MLF	High Frequency PWM White LED Drivers With Internal Schottky Diode and OVP	MIC2293-15YML TR	SMD 110-0672	1.71	1.37	1.07	– –	– –
2298	MICR	12	MLF	7W 1MHz Boost High Brightness White LED Driver	MIC2298-15YML TR	NEW SMD 166-3097	2.83	2.33	1.86	1.70	1.44
2299	MICR	12	MLF	3.5A Minimum, 2MHz High Brightness LED Driver	MIC2299-15YML TR	NEW SMD 166-3098	2.92	2.41	1.93	1.76	1.49
2707	NSC	8	SOT-23	Inductive-Boost Series LED Driver With Programmable Oscillator Frequency	LM2707MF	SMD 122-6776	1.21	0.92	0.71	0.53	0.50
2751	NSC	10	LLP	Regulated 2X, 1.5X Switched Capacitor White LED Driver	LM2751SD-A	SMD 131-2555	1.07	1.02	0.97	0.87	0.82
2751	NSC	10	LLP	Regulated 2X, 1.5X Switched Capacitor White LED Driver	LM2751SD-B	SMD 131-2557	1.47	1.22	0.97	0.87	0.82
2753	NSC	10	LLP	High Power Switched Capacitor Voltage Convertor/Flash LED Driver	LM2753SD.	SMD 122-6778	2.08	1.47	1.19	1.12	1.03
2754	NSC	24	LLP	Flash LED Charge Pump	LM2754SQ.	SMD 128-6704	2.33	1.75	1.38	1.21	1.08
2756	NSC	20	Micro SMD	Multi-Display Inductorless LED Driver with 32 Exponential Dimming Steps in µSMD	LM2756TM	SMD 149-5074	2.62	1.99	1.80	1.61	1.51
2794	NSC	14	DSBGA	Current Regulated Switched Capacitor LED Supply With AnaLog and PWM Brightness Control.	LM2794TL	SMD 122-6779	1.81	1.38	1.07	0.88	0.82
2841	ADI	32	LFCSP	Dual-Loop Laser Diode Driver, 5 V 50 Mbps - 2.7Gbps	ADN2841ACPZ-32	SMD 135-3049	17.09	15.19	14.78	14.39	14.03
2981	ALEG	18	DIP	LED/Relay Driver, 8 NPN Darlingtons +5V Input, 500mA output	UDN2981A-T	119-3495	1.66	1.08	0.80	0.78	– –
3029	LT	20	QFN	High Current Software Configurable Multidisplay LED Controller	LTC3209EUF-1#PBF	SMD 122-6275	2.43	1.63	1.59	1.55	1.51
3206	LT	24	QFN	I²C Multidisplay LED Controller	LTC3206EUF#PBF	SMD 122-6273	2.68	1.69	1.61	1.57	1.53
3214	LT	10	DFN	500mA Camera LED Charge Pump	LTC3214EDD#PBF	SMD 122-6279	2.02	1.28	1.21	1.17	1.14
3215	LT	10	DFN	700mA Current LED Charge Pump	LTC3215EDD#PBF	SMD 122-6280	3.31	2.01	1.59	1.51	1.47
3216	LT	12	DFN	1A Low Noise High Current LED Charge Pump With Independent Torch/Flash Current Control	LTC3216EDE#PBF	SMD 122-6281	2.71	1.71	1.52	1.48	1.44
3220	LT			360mA Universal 18-Channel LED Driver	LTC3220EPF#PBF	NEW 162-8760	3.94	3.52	2.86	2.63	2.26
3402	NSC	8	MSOP	0.5A LED Driver	LM3402HVMM	SMD 129-0934	2.83	1.90	1.38	– –	– –
3404	NSC	8	SO	1.0A Constant Current Buck Regulator for Driving High Power LEDs	LM3404MA	SMD 132-0973	3.03	2.40	1.88	1.57	1.44
3405	NSC	8	MSOP	1.6MHz 1A Constant Current Buck LED Driver.	LM3405AXMY	NEW SMD 167-9649	2.37	1.84	1.50	1.28	1.18
3406	NSC	14	TSSOP	1.5A Constant Current Buck Regulator foe LED	LM3406HVMH/NOPB	NEW SMD 168-5410	25.89	20.14	16.47	15.10	13.53
3406	NSC	14	TSSOP	1.5A Constant Current Buck Regulator foe LED	LM3406MH/NOPB	NEW SMD 168-5411	27.21	21.17	17.32	15.88	14.21
3410	NSC	5	SOT-23	2.8A Adju.Voltage O/P O/P 1.6 MHz Constant Current Boost	LM3410XMF/NOPB	NEW SMD 168-5357	2.65	2.06	1.69	1.54	1.38
3410	NSC	8	MSOP	2.8A Adju.Voltage O/P O/P 1.6 MHz Constant Current Boost	LM3410XMY/NOPB	NEW SMD 168-5358	2.65	2.06	1.69	1.54	1.38
3410	NSC	5	SOT-23	2.8A Adju.Voltage O/P O/P 525kHz Constant Current Boost.	LM3410YMF/NOPB	NEW SMD 168-5359	2.65	2.06	1.69	1.54	1.38
3410	NSC	8	MSOP	2.8A Adju.Voltage O/P O/P 525kHz Constant Current Boost.	LM3410YMY/NOPB	NEW SMD 168-5360	2.65	2.06	1.69	1.54	1.38
3421	MCHIP			Dev Board for MCP3421	MCP3421EV	NEW 162-7175	10.91	10.00	8.57	– –	– –
3421	NSC	16	TSSOP	N-Channel Controllers for Constant Current LED Drivers	LM3421MH	NEW SMD 164-3506	2.73	2.13	1.73	1.60	1.37
3423	NSC	20	TSSOP	N-Channel Controllers for Constant Current LED Drivers	LM3423MH	NEW SMD 164-3507	2.71	1.97	1.82	1.67	1.45
3433	NSC	24	LLP	High Brightness LED Driver with High Frequency Dimming	LM3433SQ	NEW SMD 164-3508	4.43	3.45	2.58	2.39	2.21
3453	LT	16	QFN	Synchronous Buck-Boost High Power White LED Driver	LTC3453EUF#PBF	SMD 122-6283	3.35	2.12	1.68	1.46	1.43
3454	LT	10	DFN	1A Synchronous Buck-Boost High Current LED Driver.	LTC3454EDD#PBF	SMD 122-6284	3.54	2.24	1.76	1.68	1.63

RL Re-reeling available

Farnell

Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
3465 LT	6	TSOT-23	1.2MHz White LED Step-Up Converters with Built-In Schottky	LT3465AES6#TRMPBF	NEW SMD 166-3825	2.75	2.13	1.70	1.42	1.27
3465 LT	6	TSOT-23	1.2MHz White LED Step-Up Converters with Built-In Schottky	LT3465ES6#TRMPBF	NEW SMD 166-3826	2.75	2.13	1.70	1.42	1.27
3465 LT	6	SOT-23	1.2MHz/2.4MHz White LED Step-Up Converters With Built-In Schottky	LT3465ES6#PBF	SMD 122-6269	2.51	1.59	1.18	1.15	1.12
3466 LT	16	TSSOP	Dual Full Function White LED Step-Up Converter With Built-In Schottky Diodes	LT3466EFE#PBF	SMD 122-6270	3.98	2.51	1.99	1.81	1.76
3474 LT	16	TSSOP	Step-Down 1A LED Driver	LT3474EFE#PBF	SMD 122-6271	5.58	3.39	2.67	2.48	2.41
3475 LT	20	TSSOP	Dual Step-Down 1.5A LED Driver	LT3475EFE#PBF	NEW SMD 166-3559	6.41	4.97	3.97	3.31	2.96
3478 LT	16	TSSOP	4.5A Monolithic LED Drivers with True Color PWM Dimming	LT3478IFE#PBF	NEW SMD 166-3560	7.92	6.14	4.92	4.10	3.67
3490 LT	8	SO	Single Cell 350mA LED Driver	LTC3490ES8#PBF	SMD 122-6285	3.97	2.41	1.90	1.76	1.72
3496 LT	28	QFN	Triple Output LED Driver	LT3496IUFD#PBF	NEW SMD 166-3566	7.68	5.96	4.77	3.97	3.55
3500 NSC	8	Bump Micro SMD	Synchronous Step-up DC/DC Converter for White LED Applications	LM3500TL-21	SMD 100-8011	2.69	1.98	1.52	– –	– –
3501 NSC	8	Bump Micro SMD	Synchronous Step-up DC/DC Converter for White LED Applications	LM3501TL-16	SMD 823-8855	1.48	1.27	1.07	– –	– –
3502 NSC	16	LLP	White LED Driver, 16V	LM3502ITL-16	SMD 128-6750	2.45	1.86	1.42	– –	– –
3502 NSC	16	LLP	White LED Driver, 25V	LM3502ITL-25	SMD 128-6751	2.49	1.89	1.44	– –	– –
3502 NSC	16	LLP	White LED Driver, 35V	LM3502ITL-35	SMD 128-6753	3.83	2.89	2.18	– –	– –
3502 NSC	16	LLP	White LED Driver .44V	LM3502ITL-44	SMD 128-6755	2.99	2.28	1.74	– –	– –
3502 NSC	16	LLP	Step-Up Converter for White LED Applications	LM3502SQ-16	SMD 131-2572	2.80	2.31	1.86	1.64	1.57
3502 NSC	16	LLP	LED Driver, WHITE	LM3502SQ-25	SMD 131-2573	3.37	2.54	1.99	1.75	1.60
3502 NSC	16	LLP	LED Driver, WHITE	LM3502SQ-35	SMD 131-2574	5.58	3.77	3.09	2.92	2.70
3502 NSC	16	LLP	LED Driver, WHITE	LM3502SQ-44	SMD 131-2575	5.23	4.32	3.48	3.06	2.92
3503 NSC	16	LLP	LED Driver, WHITE	LM3503SQ-16	SMD 131-2576	4.10	3.39	2.72	2.40	2.29
3503 NSC	16	LLP	LED Driver, WHITE	LM3503SQ-25	SMD 131-2577	3.51	2.66	2.08	1.83	1.67
3503 NSC	16	LLP	LED Driver, WHITE	LM3503SQ-35	SMD 131-2578	3.47	2.86	2.30	2.04	1.94
3503 NSC	16	LLP	LED Driver, WHITE	LM3503SQ-44	SMD 131-2579	6.10	4.13	3.38	3.18	2.95
3503 NSC	16	LLP	White LED Driver, 16V, Dual	LM3503ITL-16	SMD 128-6757	2.35	1.79	1.63	– –	– –
3503 NSC	16	LLP	White LED Driver, 25V, Dual	LM3503ITL-25	SMD 128-6758	3.42	2.59	1.98	– –	– –
3503 NSC	16	LLP	White LED Driver, 35V, Dual	LM3503ITL-35	SMD 128-6759	3.77	2.87	2.18	– –	– –
3509 NSC	10	LLP	Dual Display LED/OLED Driver	LM3509SD	SMD 134-2342	4.25	3.37	2.50	2.32	2.28
3509 NSC	10	LLP	DUAL DISPLAY LED/OLED DRIVER	LM3509SDE	SMD 149-5071	3.21	2.56	2.13	1.84	1.70
3518 LT	16	TSSOP	Single Channel LED Driver with 2.3A Switch Current	LT3518EFE#PBF	NEW SMD 164-7748	5.13	4.00	3.27	3.00	2.63
3518 LT	16	QFN	Full-Featured LED Driver with 2.3A Switch Current	LT3518EUF#PBF	SMD 143-2694	5.58	3.39	2.67	– –	– –
3518 LT	16	QFN	Full-Featured LED Driver with 2.3A Switch Current	LT3518IUF#PBF	SMD 143-2695	6.68	4.07	3.21	– –	– –
3519 NSC	6	SOT-23	High Frequency Boost White LED Driver with High-Speed PWM Brightness Control	LM3519MK-20	SMD 131-2717	2.48	2.36	1.75	1.44	1.34
3520 NSC	14	LLP	Integrated White LED Driver with Organic LED Display Power Supply	LM3520SD	SMD 131-2718	4.49	3.40	2.64	2.34	2.19
3551 NSC	14	LLP	1A White LED Driver with Flash Timeout Protection	LM3551SD	SMD 131-2580	3.55	2.16	1.62	1.33	1.25
3552 NSC	14	LLP	1A White LED Driver with Flash Timeout Protection	LM3552SD	SMD 131-2719	2.55	1.86	1.52	1.43	1.33
3557 NSC	8	LLP	Step-Up Converter for White LED Applications	LM3557SD-2	SMD 131-2582	1.44	1.09	0.85	0.77	0.71
3570 NSC	14	LLP	Low Noise White LED Driver System	LM3570SD	SMD 131-2720	2.22	1.84	1.47	1.31	1.23
3590 LT	6	DFN	48V Buck Mode 10 Serial LED Driver	LT3590EDC#PBF	NEW SMD 155-6252	3.09	2.70	2.16	1.79	1.54
3590 NSC	5	SOT-23	Series White LED Driver	LM3590MF	SMD 818-1330	0.70	0.58	0.47	– –	– –
3591 LT	8	DFN	White LED Driver with Integrated Schottky	LT3591EDDB#TRMPBF	NEW SMD 166-3840	2.66	2.05	1.65	1.37	1.23
3593 LTC	6	DFN	20mA O/P 1MHz 10 Serial White LED Driver with Brightness Control	LT3593EDC#TRMPBF	NEW SMD 160-9754	2.32	2.08	1.77	1.61	1.40
3593 LTC	6	TSOT-23	20mA O/P 1MHz 10 Serial White LED Driver with Brightness Control	LT3593ES6#TRMPBF	NEW SMD 160-9755	2.32	2.08	1.77	1.61	1.40
3595 NSC	10	LLP	Parallel White-LED Driver	LM3595LD	SMD 818-1349	1.84	1.57	1.20	– –	– –
3598 LT	24	QFN	44V O/P 6 Channel each 30mA LED Driver	LT3598IUF#PBF	NEW SMD 167-3524	6.38	4.87	4.09	3.41	2.92
3598 LT	24	QFN	44V O/P 6 Channel each 30mA LED Driver	LT3598EUF#PBF	NEW SMD 167-3529	5.57	4.25	3.56	2.97	2.54
3636 CAT	16	TQFN	6 Channel Quad-Mode Fractional LED Driver	CAT3636HV3-T2	NEW SMD 165-6112	1.06	0.93	0.75	0.62	0.58
3643 CAT	16	TQFN	3 Channel Ultra High Efficiency Quad-Mode LED Drive	CAT3643HV3-T2	NEW SMD 165-6113	0.82	0.62	0.50	0.42	0.38
3644 CAT	16	TQFN	4 Channel Ultra High Efficiency Quad-Mode LED Driver	CAT3644HV3- T2	NEW SMD 165-6114	0.85	0.63	0.51	0.43	0.40
3646 MAX	24	TQFN	155Mbps to 622Mbps Laser Driver	MAX3646ETG+	NEW SMD 160-6641	3.24	2.60	2.36	2.16	1.81
3656 MAX	24	TQFN-EP	155Mbps to 2.5Gbps Burst-Mode Laser Driver	MAX3656ETG+	NEW SMD 160-6642	2.93	2.35	2.13	1.96	1.64
3668 MAX	32	TQFP	622Mbps Laser Driver with Automatic Power Control	MAX3668EHJ+	NEW SMD 160-6643	7.68	6.15	5.59	5.12	4.28
3735 MAX	24	TQFN-EP	2.7GBPS Low-Power SFP Laser Drivers	MAX3735AETG+	NEW SMD 161-0100	6.93	6.01	4.93	4.17	3.86
3738 MAX	24	TQFN-EP	155MBPS to 2.7GBPS SFP/SFF Laser Drivers	MAX3738ETG+	NEW SMD 161-0101	8.39	6.90	5.65	4.77	4.43
3747 MAX	10	MircroMax	155MBPS to 3.2GBPS SFP Limiting Amplifier	MAX3747AEUB+	NEW SMD 161-0102	6.30	5.18	4.23	3.59	3.34
3755 LT	16	QFN	Single Channel 60V O/P LED Controller	LT3755EMSE#PBF	NEW SMD 164-7746	4.70	3.66	3.00	2.75	2.35
3755 LT	16	QFN	Single Channel 60V O/P LED Controller	LT3755EUD#PBF	NEW SMD 164-7747	4.54	3.54	2.88	2.66	2.27
3756 LT	16	MSOP	100V in, 100V out LED Controller	LT3756EMSE#PBF	NEW SMD 167-3557	5.65	4.31	3.62	3.02	2.59
3783 LT	16	DFN	High Power LED Driver	LTC3783EDHD#PBF	SMD 127-3546	5.28	3.53	2.95	– –	– –
3783 LT	16	TSSOP	PWM LED Driver and Boost, Flyback and SEPIC Controller	LTC3783EFE#PBF	SMD 122-6286	5.52	3.28	2.58	2.33	2.27
3869 MAX	32	TQFN-EP	2.7GBPS Low-Power SFP Laser Drivers	MAX3869EHJ+	NEW SMD 161-0103	14.30	12.09	9.89	8.36	7.77
3916 NSC	18	DIP	LED Bar/Dot Display Driver - 10 steps VU Scaling (replaces LM3916N)	LM3916N-1	948-6526	1.92	1.56	1.44	– –	– –
4016 CAT	24	SOIC	16 Channel Constant Current LED Driver	CAT4016W-T1	NEW SMD 165-6115	1.04	0.78	0.62	0.52	0.47
4016 CAT	24	TSSOP	16 Channel Constant Current LED Driver	CAT4016Y-T2	NEW SMD 165-6116	1.04	0.78	0.62	0.52	0.47
4201 CAT	5	TSOT-23	350mA High Efficiency Step Down LED Driver	CAT4201TD-GT3	NEW SMD 165-6117	0.97	0.85	0.68	0.56	0.52
4238 CAT	5	TSOT-23	High Efficiency 10 LED Boost Converter	CAT4238TD-GT3	NEW SMD 165-6118	1.11	0.84	0.67	0.55	0.51
4240 CAT	5	TSOT-23	6 Watt Boost LED Driver	CAT4240TD-GT3	NEW SMD 165-6135	1.03	0.90	0.72	0.60	0.55
4240 INF	5	SCT-595	Low Voltage Drop LED Driver	TLE4240G	SMD 122-6616	0.51	0.44	0.34	– –	– –
4241 INF	8	P-DSO-8-9	LED Driver With Adjustable Current Output	TLE4241GM	SMD 122-6618	0.62	0.51	0.42	– –	– –
4242 INF	7	TO-263 (D2-Pak)	LED Driver With Adjustable Current Output	TLE4242G	SMD 122-6619	2.42	2.01	1.63	– –	– –
5005 ON	5	TSOP	Compact Backlight LED Boost Driver	NCP5005SNT1G	SMD 122-6287	0.59	0.47	0.39	0.33	0.29
5006 ON	5	TSOP	Compact Backlight LED Boost Driver	NCP5006SNT1G	SMD 122-6288	0.78	0.59	0.46	0.37	0.29
5007 ON	5	TSOP	Compact Backlight LED Boost Driver	NCP5007SNT1G	SMD 122-6291	0.63	0.50	0.41	0.34	0.28
5330 FCH	5	SOT-23	High Efficiency Serial LED Driver with 30V Integrated Switch	FAN5330SX	NEW SMD 165-9463	0.50	0.37	0.31	0.28	0.25
5332 FCH	5	SOT-23	High Current Serial LED Driver and OLED Supply with 30V Integrated Switch	FAN5332ASX	NEW SMD 165-9464	0.85	0.64	0.53	0.49	0.44
5333 FCH	5	SOT-23	Adjustable 1.6MHz Boost Regulator with 30V Integrated FET Switch	FAN5333ASX	NEW SMD 165-9465	0.71	0.54	0.44	0.39	0.37
5333 FCH	5	SOT-23	Adjustable 1.6MHz Boost Regulator with 30V Integrated FET Switch	FAN5333BSX	NEW SMD 165-9466	0.52	0.38	0.32	0.29	0.26
5450 MICR	40	DIP	34-Segment LED Display Driver (Serially Loaded)	MM5450YN	121-3480	3.55	2.66	2.42	– –	– –
5450 MICR	44	PLCC	34-Segment LED Display Driver (Serially Loaded) PLCC Package	MM5450YV	SMD 121-3481	5.90	4.99	3.84	– –	– –
5481 ST	20	DIP	2 Digit (14 segments) LED Driver	M5481B7	122-6766	5.52	4.10	3.42	– –	– –
5482 ST	20	DIP	2 Digit (15 segments) LED Driver	M5482B7	122-6767	5.88	4.37	3.43	– –	– –
5526 NSC	25	Micro SMD	Serial Flash LED Driver, 0.15A	LP5526TL	SMD 128-6805	2.66	2.09	1.72	1.48	1.38
5527 NSC	5	Small microSMD	Flash LED Driver With 12C	LP5527TL	SMD 128-6806	2.54	2.00	1.65	1.41	1.32
5611 FCH	6	MLP	Low Dropout LED Driver for White, Blue or any Color LED	FAN5611MPX	SMD 149-5473	0.65	0.45	0.41	0.37	0.35
5612 ON	12	LLGA	White LED Driver, 5.7V Dual O/P Serial Control	NCP5612MUTBG	SMD 136-9739	1.01	0.76	0.65	0.57	0.55
5617 FCH	16	MLP	High efficiency, constant current LED Driver with Adaptive Charge Pump and and TinyWire Single-Wire Control	FAN5617MPX	SMD 149-5474	0.85	0.61	0.56	0.48	0.46
5810 ON	12	UDFN	Dual 1W DC/DC Converter with positive and negative O/P LED Driver	NCP5810DMUTXG	NEW SMD 157-8235	1.84	1.62	1.47	1.22	1.05
5911 TI	28	TSSOP	16 Channel I2C Bus Constant Current LED Sink Driver	TLC59116IPWR	NEW SMD 164-7815	2.09	1.67	1.39	1.28	1.19
5916 TI	16	PDIP	8Bit Constant Current LED Sink Driver	TLC5916IN	NEW 164-7814	0.72	0.58	0.48	0.45	0.40
5920 TI	48	SSOP	LED Driver	TLC5920DLG4	SMD 122-6302	1.74	1.43	1.16	0.99	0.92
5921 TI	32	HTSSOP	LED Driver	TLC5921DAPG4	SMD 120-7285	1.98	1.75	1.39	– –	– –
5922 TI	32	TSSOP	LED Driver	TLC5922DAPG4	SMD 122-6303	2.35	1.99	1.59	1.36	1.23
5923 TI	32	HTSSOP	16-Channel at 80 mA LED Driver with DOT Correction & 128 Dimming Steps	TLC5923DAP	NEW SMD 156-4906	2.83	2.33	2.08	1.71	1.44
5923 TI	32	QFN	16 Channel LED Driver With DOT Correction	TLC5923RHBT	NEW SMD 156-4935	3.13	2.59	2.30	1.87	1.58
5923 TI	32	TSSOP	16 Channel LED Driver	TLC5923DAPG4	SMD 122-6304	2.44	2.04	1.68	1.43	1.29
5924 TI	32	QFN	16-Channel LED Driver with DOT Correction & Pre-Charge FET	TLC5924RHBT	NEW SMD 156-4934	3.33	2.75	2.45	2.01	1.71
5940 TI	28	DIP	16 Channel LED Driver	TLC5940NTG4	122-6306	3.30	2.74	2.22	1.86	1.75
5941 TI	28	TSSOP	16 Channel LED Driver	TLC5941PWPG4	SMD 122-6308	2.87	2.38	1.93	1.60	1.52
5942 TI	28	TSSOP	16 Channel 12Bit PWM with 7Bit Dot Correction	TLC5942PWP	NEW SMD 164-7811	2.81	2.23	1.86	1.73	1.60

RL Re-reeling available

Farnell

LED & Laser Drivers - continued

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
5944	TI	28	HTSSOP	16-Channel 12-Bit PWM LED Driver with Pre-Charge FET	TLC5944PWPR	NEW SMD 164-7816	3.21	2.57	2.13	1.98	1.83
5944	TI	32	QFN	16-Channel 12-Bit PWM LED Driver with Pre-Charge FET	TLC5944RHBT	NEW SMD 164-7818	3.85	3.07	2.57	2.37	2.20
5945	TI	28	HTSSOP	16-Channel LED Driver PWM Control	TLC5945PWP	NEW SMD 164-7810	2.81	2.23	1.86	1.73	1.60
5946	TI	32	QFN	16 Channel 12Bit PWM LED Driver with 6-Bit Dot Correction	TLC5946RHBT	NEW SMD 164-7819	3.09	2.47	2.05	1.90	1.76
6278	ALEG	16	SOIC	Serial-Input, Constant-Current Latched LED Drivers With Open LED Detection (8 way)	A6278ELW-T	SMD 119-8093	1.71	1.35	1.12	0.95	0.86
6279	ALEG	24	SOIC	Serial-Input, Constant-Current Latched LED Drivers With Open LED Detection (16 way)	A6279ELW-T	SMD 119-8094	1.67	1.14	0.87	0.84	0.82
6507	TI	14	TSSOP	7Bit I2C & SMBus LED Driver with Intensity Control & Shutdown	TCA6507PW	NEW SMD 164-7813	1.11	0.89	0.73	0.67	0.63
6525	NSC	28	Mini SOIC	Four-Channel Laser Diode Driver with Dual Output	LMH6525SP	SMD 131-2806	3.11	2.36	1.86	1.45	1.42
6526	NSC	28	Mini SOIC	Four-Channel Laser Diode Driver with Dual Output	LMH6526SP	SMD 131-2808	3.11	2.36	1.86	1.45	1.33
6686	SIP	10	DFN	400mA Buck/Boost Charge Pump LED Driver	SP6686ER-L	SMD 113-5805	1.30	1.09	0.93	0.86	0.83
6821	ALEG	16	SOIC	DABiC-5 8-Bit Serial Input Latched Sink Drivers	A6821SLW-T	SMD 119-8097	2.12	1.44	1.08	1.05	1.02
6833	ALEG	44	PLCC	DABiC-5 32-Bit Serial Input Latched Sink Drivers	A6833SEP-T	SMD 119-8098	6.12	4.84	4.00	3.42	3.07
6946	MAX	16	TQFN-EP	Serial Interface with 10 Channel O/P Constant-Current LED Driver	MAX6946ATE+	NEW SMD 160-9604	2.61	2.33	2.01	1.76	1.57
6947	MAX	16	TQFN-EP	Addressable Serial Interface with 10 Channel O/P Constant-Current LED Driver	MAX6947ATE+	NEW SMD 160-9605	2.61	2.33	2.01	1.76	1.57
6951	MAX	16	QSOP-EP	Eight 7 Segment Digits or 64 Discrete LED Driver Serially Interfaced	MAX6951EEE+	NEW SMD 161-0122	10.00	8.21	6.72	5.69	5.29
6966	MAX	16	TQFN	26MHz Serial Interface 10 Channel Constant Current LED Driver	MAX6966ATE+	NEW SMD 160-9606	2.41	2.15	1.84	1.64	1.46
6970	MAX	16	TSSOP-EP	8 Channel 36V each 55mA O/P Constant Current Sink LED Driver	MAX6970AUE+	NEW SMD 159-3379	3.27	2.55	2.29	1.91	1.64
7107	MAX	40	DIP	3.5 Digit ADC with Common Anode LED Driver	ICL7107CPL+	NEW 159-3297	7.99	6.22	5.59	4.66	3.99
7218	INTS	28	DIP	CMOS Universal 8 digit LED Driver system (C.A. Display) µP app	ICM7218AIJI	405-991	5.10	4.48	3.95	3.26	2.73
7218	MAX	28	DIP	CMOS 8 digit LED Driver system (C.A. Display) µP interface	ICM7218AIPI	641-870	7.23	5.73	4.77	3.97	3.69
7218	MAX	28	DIP	CMOS 8 digit LED Driver system (C.A. Display) µP interface	ICM7218AIPI+	129-0860	10.46	6.73	5.23	4.35	4.32
7218	INTS	28	DIP	CMOS Universal 8-digit LED Driver system (C.C. Display) µP app	ICM7218BIJI	406-004	6.82	5.98	5.31	4.33	3.63
7218	INTS	28	DIP	CMOS Universal 8 digit LED Driver system (C.A. Display) hardwire app	ICM7218CIJI	406-016	8.63	5.78	5.08	4.07	3.70
7218	INTS	28	DIP	CMOS Universal 8-digit LED Driver system (C.C. Display) hardwire app	ICM7218DIJI	406-028	6.27	4.89	4.41	3.99	3.67
7219	MAX	24	DIP	8-digit, Serially Interfaced, LED Display Driver (C.C. Display), µP interface	MAX7219CNG+	972-5245	9.63	6.19	4.74	3.95	3.84
7219	MAX	24	SOIC	8-digit, Serially Interfaced, LED Display Driver (C.C. Display), µP interface	MAX7219CWG+	SMD 972-6357	9.63	6.19	4.74	3.95	3.77
7221	MAX	24	DIP	10MHz Serial Interface 8 Digit, Bargraph or 64 LED Display Driver	MAX7221CNG+	NEW 159-3381	7.10	5.52	4.97	4.14	3.55
7221	MAX	24	SOIC	8-digit serially interfaced LED display driver	MAX7221CWG+	SMD 972-5725	9.63	6.19	4.74	– –	– –
7228	INTS	28	DIP	8-digit LED Multiplexed Display Driver	ICM7228AIPIZ	101-8168	5.59	4.97	4.07	3.45	3.14
7228	INTS	28	SOIC	8-Digit, Microprocessor-Compatible, LED Display Decoder Driver	ICM7228AIBIZ	NEW SMD 156-1989	7.72	5.79	4.63	3.86	3.31
7228	INTS	28	PDIP	8 Digit 7 Segment Numeric Microprocessor Compatible LED Display Decoder Driver	ICM7228BIPIZ	NEW 156-2066	4.51	3.38	2.71	2.25	1.93
7243	INTS	40	PDIP	8-Character, Microprocessor-Compatible, LED Display Decoder Driver	ICM7243BIPLZ	122-6247	9.34	8.42	7.65	6.48	6.01
7456	MAX	28	TSSOP-EP	Monochrome On-Screen Display with Integrated EEPROM Driver	MAX7456EUI+	NEW SMD 159-3382	17.80	13.85	12.46	10.38	8.90
7513	INTS	8	TSOT	White LED Step-Up Regulator	EL7513IWTZ-T7A	NEW SMD 156-2024	3.05	2.27	1.83	1.52	1.30
7615	SIP	8	DFN	4 Channel Constant Current LED Driver	SP7615ER-L	SMD 113-5808	0.66	0.55	0.48	0.44	0.42
7618	SIP	8	DFN	Constant Current LED Driver	SP7618ER-L	SMD 131-7828	1.14	1.00	0.90	0.81	0.74
7630	INTS	6	SC-70	White LED Boost Regulator	EL7630ICZ-T7A	SMD 122-6245	1.49	1.11	0.92	0.87	0.85
8240	ADI	8	MSOP	LED Driver/Monitor	AD8240YRMZ	SMD 107-8293	2.47	1.74	1.32	– –	– –
8631	MAX	28	TQFN	1x/1.5x/2x White LED Charge Pump with Two LDOs	MAX8631XETI+	NEW SMD 167-3137	5.77	4.12	3.21	2.89	2.62
8631	MAX	28	TQFN	1x/1.5x/2x White LED Charge Pump with Two LDOs	MAX8631YETI+	NEW SMD 167-3138	5.77	4.12	3.21	2.89	2.62
8678	MAX	16	TQFN	White LED Charge Pump with 1.1W Audio Amplifier	MAX8678ETE+	SMD 143-3257	2.76	1.92	1.32	1.28	1.25
8790	MAX	20	TQFN	Six Channel White LED Driver with Active Current Balancing for LCD Panel	MAX8790AETP+	NEW SMD 159-3393	4.13	3.21	2.89	2.41	2.06
8790	MAX	20	TQFN	Six Channel White LED Driver with Active Current Balancing for LCD Panel NFND	MAX8790ETP+	NEW SMD 159-3394	4.13	3.21	2.89	2.41	2.06
9003	ON	5	TSOP	White LED Driver, 24 V Mono O/P	NCP9003SNT1G	SMD 136-9749	0.53	0.40	0.34	0.30	0.29
16804	MAX	20	TQFN	350mA O/P Serial LED Driver with Dimming Control	MAX16804ATP+	NEW SMD 159-3319	2.93	2.29	2.06	1.72	1.48
16821	MAX	28	TQFN	30A Synchronous LED Driver with Rapid Current Pulsing	MAX16821BATI+	NEW SMD 159-3320	4.07	3.17	2.85	2.38	2.04
16822	MAX	8	SOIC	2MHz LED Drivers with Integrated MOSFET and High-Side Current Sense	MAX16822AASA+	NEW SMD 167-3093	2.87	2.05	1.59	1.43	1.30
16822	MAX	8	SOIC	2MHz LED Drivers with Integrated MOSFET and High-Side Current Sense	MAX16822BASA+	NEW SMD 167-3094	2.87	2.05	1.59	1.43	1.30
16823	MAX	16	TQFN-EP	3 Channel each 70mA O/P LED Driver with 3.4V Regulator	MAX16823ATE+	NEW SMD 159-3321	2.33	1.82	1.64	1.37	1.17
16823	MAX	16	TSSOP-EP	3 Channel each 70mA O/P LED Driver with 3.4V Regulator	MAX16823AUE+	NEW SMD 159-3322	2.28	1.77	1.59	1.33	1.15
16832	MAX	8	SOIC	2MHz LED Driver with Integrated MOSFET and High-Side Current Sense	MAX16832AASA+	NEW SMD 167-3095	3.79	2.71	2.11	1.90	1.72
16832	MAX	8	SOIC	2MHz LED Driver with Integrated MOSFET and High-Side Current Sense	MAX16832CASA+	NEW SMD 167-3096	3.79	2.71	2.11	1.90	1.72
16834	MAX	20	TQFN	LED Driver with Integrated High-Side LED Current Sense	MAX16834ATP+	NEW SMD 167-3103	3.62	2.58	2.01	1.81	1.64
27951	NSC	14	LLP	White LED Adaptive 1.5X/1X Switched Capacitor Current Driver	LM27951SD	SMD 131-2559	1.46	1.03	0.84	0.79	0.72
27952	NSC	14	LLP	White LED Adaptive 1.5X/1X Switched Capacitor Current Driver	LM27952SD	SMD 131-2561	0.96	0.92	0.87	0.77	0.73
27964	NSC	24	LLP	White LED Driver System with I2C Compatible Brightness Control	LM27964SQ-I	SMD 131-2697	3.23	2.44	1.90	1.68	1.51
27964	NSC	24	LLP	White LED Driver System with I2C Compatible Brightness Control	LM27964SQ-A	SMD 131-2699	2.49	1.75	1.42	1.34	1.25
27964	NSC	24	LLP	White LED Driver System With I2C Compatible Brightness Control	LM27964SQA	SMD 122-6783	4.71	3.37	2.62	2.16	1.97
27966	NSC	24	LLP	LED Driver With 12C Control	LM27966SQ.	128-6713	2.45	2.18	1.79	1.47	1.27
33999	FSL	54	SOICW-EP	16-Output Switch with SPI and PWM Control	MC33999EK.	NEW SMD 156-6184	4.84	4.30	3.52	3.23	2.77
60230	TI	16	QFN	White LED Charge pump	TPS60230RGTTG4	SMD 122-6309	1.91	1.57	1.30	1.17	1.14
60231	TI	16	QFN	White LED Charge pump	TPS60231RGTTG4	SMD 122-6310	1.81	1.49	1.22	1.18	1.15
60252	TI	16	QFN	High Efficiency Charge Pump for 7 WLEDs with I2C	TPS60252RTET	NEW SMD 164-7912	2.57	1.90	1.58	1.36	1.32
61042	TI	8	SOIC	30-V, 500-mA SWITCH BOOST CONVERTER IN QFN-8 for WHITE LED APPLICATIONS	TPS61042DRBRG4	SMD 128-7686	1.56	1.34	1.03	0.81	0.72
61050	TI	10	SON	1.2A White LED Driver with I2C Compatible Interface	TPS61050DRCT	NEW SMD 156-4951	3.13	2.59	2.30	1.87	1.58
61054	TI	10	SON	700mA High Power White LED Driver	TPS61054DRCT	NEW SMD 164-7913	2.57	1.90	1.58	1.43	1.39
61055	TI	10	SON	500mA High Power White LED Driver	TPS61055DRCT	NEW SMD 164-7914	2.47	1.83	1.53	1.38	1.34
61059	TI	10	SON	Boost Converter With White LED Driver	TPS61059DRCTG4	SMD 122-6312	1.80	1.48	1.25	1.10	0.97
61150	TI	10	SON	Dual Output Boost WLED Driver Using Single Inductor	TPS61150ADRCT	NEW SMD 164-7812	2.96	2.38	1.99	1.83	1.69
61180	TI	16	QFN	1.5A White LED Driver for Notebook	TPS61180RTET	NEW SMD 164-7916	3.62	2.68	2.23	1.92	1.87
63010	TI	20	BGA	High Efficient Single Inductor Buck Boost Converter with 2A Switch	TPS63010YFFT	NEW SMD 164-7820	3.21	2.57	2.13	1.98	1.83
63011	TI	20	BGA	High Efficient Single Inductor Buck Boost Converter with 2A Switch	TPS63011YFFT	NEW SMD 164-7821	3.21	2.57	2.13	1.98	1.83
63012	TI	20	BGA	High Efficient Single Inductor Buck Boost Converter with 2A Switch	TPS63012YFFT	NEW SMD 164-7822	3.21	2.57	2.13	1.98	1.83
65136	TI	16	QFN	Dual Positive & Negative O/P Regulator 1.0A for AMOLED	TPS65136RTER	NEW SMD 164-7920	1.99	1.46	1.22	1.10	1.07

RL Re-reeling available

LED Drivers

494152

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
1601	ROHM	16	VQFN	6 Parallel White LED Driver	BD1601MUV-E2	SMD 151-2700●	0.72	0.62	0.48	0.40	0.36
1603	ROHM	10	VSON	Charge Pump LED Driver Selectable Vout 5.0V or 4.5V	BD1603NUV-E2	SMD 151-2694●	0.72	0.62	0.48	0.40	0.36
1604	ROHM	16	SQFN	4 Parallel White LED Driver	BD1604MVV-E2	SMD 151-2692●	0.72	0.62	0.48	0.40	0.36
1604	ROHM	16	VQFN	4 Parallel White LED Driver	BD1604MUV-E2	SMD 151-2693●	0.57	0.50	0.40	0.32	0.29
1606	ROHM	16	VQFN	6 Parallel White LED Driver 64 steps	BD1606MVV-E2	SMD 151-2701●	1.27	1.10	0.85	0.70	0.64
1698	MAX	10	MSOP	High-Efficiency Step-Up Current Regulator for LEDs	MAX1698EUB+	SMD 137-9759●	2.54	1.95	1.57	1.37	– –
1937	ROHM	5	SSOP	Step Up DC-DC Converter	BD1937G-TR	SMD 151-2688●	0.41	0.35	0.28	0.22	0.21
6054	ROHM	63	VCSP	DC/DC Converter with Multi Function O/P	BH6054GU-E2	SMD 151-2706●	4.47	3.84	2.98	2.45	2.24
6056	ROHM	36	VCSP	White LED Driver with Multi Function O/P	BH6056GU-E2	SMD 151-2704●	2.16	1.84	1.43	1.18	1.07
6062	ROHM	23	VCSP	Flashing LED Driver	BD6062GU-E2	SMD 151-2711▲	1.70	1.46	1.13	0.93	0.85
6066	ROHM	17	VCSP	Multi Function LED Driver	BD6066GU-E2	SMD 151-2708●	1.92	1.64	1.28	1.05	0.96
6066	ROHM	28	HQFN	Multi Function LED Driver	BD6066EKN-E2	SMD 151-2709●	2.02	1.72	1.34	1.10	1.00
6067	ROHM	8	VCSP85H1	Step Up DC-DC Converter	BD6067GU-E2	SMD 151-2689●	0.78	0.68	0.52	0.43	0.40
6069	ROHM	62	VCSP	DC/DC Converter with Multi Function O/P	BH6069GU-E2	SMD 151-2707▲	4.26	3.66	2.84	2.33	2.13
6071	ROHM	8	HSON	Step Up DC-DC Converter	BD6071HFN-TR	SMD 151-2690●	0.55	0.47	0.36	0.30	0.28
6072	ROHM	8	HSON	Step Up DC-DC Converter	BD6072HFN-TR	SMD 151-2691●	0.55	0.47	0.36	0.30	0.28
6081	ROHM	63	SBGA	LCD, LED & RGB LED Driver	BD6081GVW-E2	SMD 151-2702●	3.03	2.60	2.02	1.65	1.51
6081	ROHM	48	VCSP	LCD, LED & RGB LED Driver	BD6081GU-E2	SMD 151-2703●	2.66	2.28	1.77	1.46	1.33
6275	ALLEGRO	16	SOIC	8 Bit Serial I/P Constant Current LED Driver	A6275ELW-T	SMD 152-1689●	1.45	1.29	1.17	1.05	0.97
6276	ALLEGRO	24	SOIC	16 Bit Serial I/P Constant Current LED Driver	A6276ELW-T	SMD 152-1691●	1.90	1.71	1.55	1.43	1.22
6277	ALLEGRO	20	SOIC	8 Bit Serial I/P Constant Current LED Driver	A6277ELW-T	SMD 152-1692●	1.90	1.71	1.55	1.43	1.22
6282	ALEG	24	QFN	16 Channel Constant Current LED Driver	A6282EES-T	NEW SMD 165-0235●	0.81	0.73	0.65	0.57	0.49
6285	ALEG	32	QFN	16-Channel Constant Current Latched LED Driver, Open LED Detection & Dot Correction	A6285EET-T	NEW SMD 165-0236●	1.76	1.57	1.28	1.09	1.06
6941	ROHM	20	VQFN	Charge Pump LED Driver with 4 Channel Brightness Control	BH6941KN-E2	SMD 151-2695●	0.91	0.80	0.63	0.51	0.47
6942	ROHM	20	VQFN	Charge Pump LED Driver with 5 Channel Brightness Control	BH6942KN-E2	SMD 151-2697●	0.93	0.83	0.64	0.52	0.48
6943	ROHM	20	VQFN	Charge Pump LED Driver with 6 Channel Brightness Control	BH6943KN-E2	SMD 151-2698●	0.97	0.85	0.66	0.55	0.50
7851	ROHM	25	HSOP	Serial to 16bit Parallel O/P Driver	BD7851FP-E2	SMD 151-2710●	1.31	1.11	0.88	0.76	0.69
8105	ROHM	20	SSOP	12Bit Serial LED Driver Open Drain 40mA 35V O/P	BD8105FV-E2	NEW SMD 160-3626●	1.17	0.91	0.75	0.68	0.63
8430	ALLEGRO	5	MLP	White LED Driver with Constant Current Converter	A8430EEKTR-T	SMD 152-1695●	0.44	0.38	0.34	0.31	0.29
8434	ALLEGRO	16	MLP	6 Channel White LED Driver	A8434EESTR-T	SMD 152-1696●	1.02	0.89	0.80	0.71	0.65

Line Drivers and Receivers

210435/410982

	Mftr.	Pins	Pkg	Description	Propagation Delay	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
Drivers - Single										
0002	NSC	8	SOIC	Serial Digital Cable Driver	–	LMH0002MA	SMD 128-6771●	9.190	7.730	6.590
0002	NSC	8	SOIC	Serial Digital Cable Driver	110ns	LMH0002TMA	SMD 128-6772●	10.950	9.190	7.860
7	NSC	8	SOIC	Serial Digital Cable Driver with Dual Complementary O/P		CLC007BM/NOPB	NEW SMD 168-5347●	9.310	7.240	5.920
90	NSC	48	TSSOP	Programmable LVDS Transmitter 18Bit Flat Panel Display		DS90C363MTD/NOPB	NEW SMD 168-5586●	6.270	5.160	4.230
90	NSC	8	SOIC	3V LVDS Single CMOS Differential Line Receiver		DS90LV018ATMX/NOPB	NEW SMD 168-5540●	1.520	1.180	0.960
106	TI	14	PDIP	4-20mA Current Transmitter with Bridge Excitation & Linearization	–	XTR106PA	NEW 156-4883●	8.090	6.680	5.940
92001	NSC	8	SOIC	3.3V B/LVDS-BLVDS Buffer		DS92001TMA/NOPB	NEW SMD 168-5783●	2.000	1.650	1.350
96173	NSC	16	DIP	RS-485/RS-422 Quad Differential Line Receiver		DS96173CN/NOPB	NEW 168-5504●	3.740	2.910	2.380
253	MAX	8	DIP	Transformer driver for isolated RS485 interface	110ns	MAX253CPA+	972-5393●	2.500	1.610	1.180
302	NSC	16	LLP	3Gbps HD/SD SDI Cable Driver		LMH0302SQE/NOPB	NEW SMD 168-5354●	13.760	10.700	8.750
1101	TI	8	SOIC	High Power Differential Line Driver	–	DRV1101U	SMD 146-0357●	5.620	3.830	3.090
2141	INTS	8	SOIC	150MHz Differential Twisted Pair Driver	–	EL2141CSZ	NEW SMD 156-2002●	3.820	3.350	2.690
2480	MAX	8	SOIC	Serail 1-wire line driver With load sensor	–	DS2480B+	SMD 972-5326●	6.090	3.920	2.680
2871	ADI	24	LFCSP	Single-Loop Laser Diode Driver, 3.3 V, 50Mbps - 4.25Gbps	–	ADN2871ACPZ	SMD 135-3050●	5.790	4.710	3.870
4447	MAX	16	NSOIC	430MHz Single-Ended-to-Differential Line Drivers with Enable		MAX4447ESE+	NEW SMD 159-3371●	3.370	2.630	2.360
5170	INTS	8	SOIC	100MHz Fixed Gain 2 Differential Twisted-Pair Drivers	–	EL5170ISZ	NEW SMD 156-2000●	1.180	0.880	0.700
5171	INTS	8	SOIC	250MHz Differential Twisted Pair Driver	–	EL5171ISZ	NEW SMD 156-2003●	1.500	1.130	0.900
5174	INTS	8	SOIC	550MHz Differential Twisted Pair Driver	–	EL5174ISZ	NEW SMD 156-2004●	2.500	1.870	1.500
5821	MICR	16	PDIP	8-Bit Serial-Input Latched Drivers	–	MIC5821YN	NEW 155-6760●	2.270	2.030	1.680
5841	MICR	18	SOIC	8Bit Serial Input Latched Driver		MIC5841YWM	NEW SMD 166-3128●	2.580	2.140	1.700
5842	MICR	18	PDIP	8-Bit Serial-Input Latched Drivers Max O/P 80V	–	MIC5842YN	NEW 155-6761●	2.470	2.210	1.820
5891	MICR	16	PDIP	8-Bit Serial-Input Latched Drivers	–	MIC5891YN	NEW 155-6762●	1.770	1.580	1.300
8131	ADI	8	SOIC	High Speed 400MHz, Differential Driver	–	AD8131ARZ	SMD 960-3999●	4.280	2.940	2.190
Drivers - Dual										
88	FCH	14	DIP	Dual Differential Line Driver	110ns	MM88C30N	101-4052●	4.460	3.040	2.450
488	ADI	8	DIP	CMOS Differential Bus Transceiver With reduced slew rate. Low Power (RS485/422 - IND TEMP)	–	ADM488ANZ	158-1893●	1.670	1.140	1.100
2870	ADI	24	LFCSP	Dual-Loop Laser Diode Driver, 3.3 V, 50Mbps - 3.3Gbps	–	ADN2870ACPZ	SMD 135-3051●	8.640	5.890	4.750
6012	TI	20	HSOP	Differential Line Driver	–	THS6012CDWP	SMD 121-2367●	6.250	5.070	3.750
6012	TI	20	HSOP	Differential Line Driver	–	THS6012CDWP.	SMD 845-3446	2.700	2.240	2.010
6022	TI	14	HTSSOP	250mA Dual Differential Line Driver		THS6022CPWP..	NEW SMD 164-8745●	3.790	3.030	2.510
6022	TI	14	HTSSOP	Differential Line Driver	–	THS6022IPWP	SMD 121-2368●	4.830	3.290	2.660
6022	TI	14	HTSSOP	Driver	–	THS6022IPWP.	SMD 845-3462	2.280	1.890	1.610
9636	TI	8	DIP	Dual RS423 Programmable Slew Rate Line Driver	1100ns	UA9636ACPE4	121-0965●	0.490	0.350	0.260
9637	TI	8	DIL	Dual Differential RS422/423 Line Receiver	15ns	UA9637ACP	NEW 156-4881●	0.520	0.400	0.370
9638	TI	8	SOIC	Dual High-Speed Differential Line Driver	–	UA9638CDE4	SMD 123-6604●	0.290	0.210	0.156
9638	TI	8	DIP	Dual RS422 Differential Line Driver	10ns	UA9638CPE4	121-0966●	1.290	0.820	0.600
75110	TI	14	DIP	Dual Line Driver - 12mA Output	9ns	SN75110AN	110-6024●	0.720	0.460	0.330
75110	TI	14	DIP	Dual Line Driver - 12mA Output	9ns	SN75110AN..	406-260	0.780	0.520	0.350
75150	TI	8	SOIC	Dual Line Driver	60ns	SN75150D	NEW SMD 156-4970●	0.820	0.660	0.600
75157	TI	8	SOIC	Dual Differential Line Driver	15ns	SN75157D	NEW SMD 156-4867●	1.460	1.200	1.080
75158	TI	8	PDIP	Dual Differential Line Driver	16ns	SN75158P	NEW 156-4866●	2.830	2.330	2.080
75158	TI	8	SOIC	Dual Differential Line Driver	–	SN75158D	NEW SMD 156-4971●	2.830	2.330	2.080
75471	TI	8	PDIP	Dual 0.5A Peak 70V O/P Peripheral Driver with AND Gate	30ns	SN75471P	NEW 156-4974●	0.390	0.340	0.290
75472	TI	8	PDIP	Dual 0.5A Peak 70V O/P Peripheral Driver with NAND Gate	30ns	SN75472P	NEW 156-4975●	0.390	0.330	0.290
Drivers - Quad										
14	NSC	14	SOIC	Quad CMOS RS232 Line Driver	6µs	DS14C88M	SMD 948-7824●	1.220	0.990	0.840
14	NSC	14	DIP	Quad CMOS RS232 Line Driver	6µs	DS14C88N	948-7832●	1.570	1.380	1.190
26	TI	16	SOIC	Quad Differential Line Driver		AM26C31ID.	NEW SMD 164-8732●	0.640	0.520	0.430
26	TI	16	PDIP	Quad Differential Line Driver		AM26C31IN	NEW 164-8733●	0.640	0.520	0.430
26	TI	16	SOIC	Quad Differential Line Driver		AM26LS31CD..	NEW SMD 164-8735●	0.360	0.280	0.240
26	TI	16	SOIC	Quadruple Differential Line Driver	7ns	AM26C31ID	NEW SMD 156-4875●	0.910	0.760	0.660
26	TI	16	DIL	Quad Differential RS422 Line Driver (Tri-state)	14ns	AM26LS31CN	NEW 156-4938●	0.520	0.400	0.370
26	TI	16	SOIC	Quad Differential Line Driver	30ns	AM26LS31CD.	NEW SMD 156-4965●	0.520	0.400	0.370
26	TI	16	SOIC	RS-422 Differential Line Driver. Quad	12ns	AM26C31CD	SMD 497-5637●	0.700	0.490	0.350
26	TI	16	DIP	Quad Differential RS422 Line Driver (Tri-state)	14ns	AM26LS31CNE4	121-0967●	0.680	0.430	0.310
26	NSC	16	SOIC	Quad CMOS Differential RS422 Line Driver (Tri-state)	11ns	DS26C31TM	SMD 949-0060●	1.030	0.610	0.480
26	NSC	16	DIP	Quad CMOS Differential RS422 Line Driver (Tri-state)	8ns	DS26C31TN	948-7840●	1.730	1.240	1.010
26	NSC	16	SOIC	Quad Differential RS422 Line Driver (Tri-state)	10ns	DS26LS31CM	SMD 948-7859●	0.970	0.580	0.460
26	NSC	16	DIP	Quad Differential RS422 Line Driver (Tri-state)	10ns	DS26LS31CN	948-7867●	0.630	0.550	0.530
26	ST	16	DIP	CMOS Quad Tri-State Differential Line Driver	11ns	ST26C31BN	109-5404●	0.880	0.780	0.660
34	NSC	16	NSOIC	CMOS Quad TRI-STATE Differential Line Driver	6ns	DS34C87TM/NOPB	NEW SMD 156-4611●	0.890	0.730	0.630

RL Re-reeling available

Line Drivers and Receivers - continued

	Mftr.	Pins	Pkg	Description	Propagation Delay	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
Drivers - Quad										
34	NSC	16	SOIC	Quad CMOS Differential RS422 Line Driver (Tri-state)	8ns	DS34C87TM	SMD 948-7875	1.110	0.910	0.840
65	TI	16	TSSOP	High Speed Differential Line Driver		SN65LVDS391PW.	NEW SMD 164-8751	1.920	1.540	1.280
65	TI	16	SOIC	Quad LVDM Transmitter		SN65LVDM31D.	NEW SMD 164-8742	1.990	1.580	1.320
65	TI	16	TSSOP	Quad LVDS Transmitter		SN65LVDS31PW.	NEW SMD 164-8748	1.800	1.440	1.200
75	TI	16	DIP	Quad Differential RS422 Line Driver (Tri-state)	6ns	SN75ALS192NE4	121-4404	0.830	0.540	0.390
75	TI	16	SOIC	Quadruple Differential Line Driver	10ns	SN75ALS194D	SMD 959-3047	1.010	0.740	0.550
75	TI	14	SOIC	Quadruple Low-Power Line Driver	3.5µs	SN75C188D	SMD 959-3080	0.510	0.330	0.230
75	TI	14	DIP	Quad CMOS RS232 Line Driver	3µs	SN75C188N	110-6025	0.510	0.330	0.230
90	NSC	16	TSSOP	400Mbps 3V LVDS Quad CMOS Differential Line Driver	1.7ns	DS90LV047ATMTC/NOPB	NEW SMD 156-4786	1.920	1.600	1.350
90	NSC	16	TSSOP	400 Mbps Quad CMOS Differential Line Receiver	3.3ns	DS90LV032ATMTC/NOPB	NEW SMD 156-4762	1.950	1.620	1.380
90	NSC	16	TSSOP	Quad CMOS Differential Line Driver, 3V LVDS	1.7ns	DS90LV047ATMTC	SMD 977-8659	2.570	2.000	1.660
487	LT	16	SOIC	Quad Low Power RS485 Driver		LTC487CSW#PBF	NEW SMD 166-3737	7.410	5.740	4.600
487	LT	16	DIP	Quad Low Power RS485 Driver	28ns	LTC487CN#PBF	113-6634	6.480	3.790	2.850
1488	MAX	14	DIP	Quad CMOS RS232 Line Driver. (MC1488, DS1488)	3µs	MAX1488ECPD+	118-8031	1.510	1.060	0.820
1488	ON	14	DIP	Quad RS232 Line Driver	350ns	MC1488PG	966-4530	0.630	0.450	0.330
1489	MAX	14	DIP	Quad CMOS RS232 Line Receiver. (MC1489, DS1489)	4000ns	MAX1489ECPD+	118-8032	1.490	1.060	0.900
1688	LT	16	SOIC	100MBPS RS485 Hot Swapable Quad Driver		LTC1688CS#PBF	NEW SMD 166-3664	9.260	7.170	5.740
1688	LT	16	SOIC	100MBPS RS485 Hot Swapable Quad Driver		LTC1688IS#PBF	NEW SMD 166-3666	10.640	8.240	6.590
3487	NSC	16	SOIC	Quad Differential RS422 Line Driver (Tri-state)	10ns	DS3487M.	SMD 118-7178	0.680	0.480	0.400
3487	NSC	16	DIP	Quad Differential RS422 Line Driver (Tri-state)	10ns	DS3487N	948-7891	0.750	0.730	0.650
3487	TI	16	SOIC	Quadruple Differential Line Driver	20ns	MC3487D	SMD 958-9830	0.680	0.480	0.300
3487	TI	16	DIP	Quad Differential RS422 Line Driver (Tri-state)	20ns	MC3487NE4	121-0969	0.530	0.350	0.260
3691	NSC	16	SOIC	Quad/Dual Differential RS422/RS423 Line Driver (Tri-state) (26LS30)	120ns	DS3691M	SMD 949-0566	1.130	0.800	0.660
75172	TI	16	DIP	Quad Differential RS422/RS485 Line Driver (Tri-state)	45ns	SN75172N	110-3030	1.630	1.110	0.800
75174	TI	20	SOIC	Quad Differential RS422/RS485 Line Driver (Tri-state)	45ns	SN75174DW	SMD 110-6095	2.300	1.660	1.080
75174	TI	16	DIP	Quad Differential RS422/RS485 Line Driver (Tri-state)	45ns	SN75174N	110-6026	1.040	0.730	0.610
75188	TI	14	SOIC	Quad RS232 Driver	220ns	SN75188D	SMD 958-9430	0.290	0.197	0.138
75188	TI	14	DIP	Quad RS232 Line Driver	220ns	SN75188N	110-3031	0.430	0.270	0.196
75188	TI	14	DIP	Quad RS232 Line Driver	220ns	SN75188N..	406-570	0.280	0.192	0.138
96174	NSC	16	DIP	Quad Differential RS422/RS485 Line Driver (Tri-state)	45ns	DS96174CN	949-3905	3.320	2.710	2.500
Drivers - Octal										
65	TI	38	TSSOP	Octal LVDS Transmitter Driver 630 MBPS	2.9ns	SN65LVDS389DBT	NEW SMD 156-4879	4.940	4.080	3.610
75	TI	64	TSSOP	LVDS Driver	–	SN75LVDS387DGG	SMD 121-2365	7.250	4.940	3.990
90	NSC	100	TQFP	Dual Pixel LVDS Display Interface / FPD-Link		DS90C387AVJD/NOPB	NEW SMD 168-5587	9.860	8.100	6.630
Drivers- 12										
89	NSC	48	SSOP	Twelve Channel CMOS Differential Line Driver		DS89C387TMEA/NOPB	NEW SMD 168-5327	9.290	7.220	5.910
Receivers - Single										
213	MICR	16	QSOP	3.3V QwikRadio 315MHz Receiver		MICRF213AYQS	NEW SMD 166-3067	3.390	2.490	2.030
218	MICR	16	QSOP	3.3V QwikRadio® 300 MHz to 450 MHz Receiver		MICRF218AYQS	NEW SMD 166-3068	3.560	2.610	2.140
2142	INTS	8	SOIC	150MHz 400V/microsec Slew Differential Line Receiver	–	EL2142CSZ	NEW SMD 156-2031	4.470	3.350	2.690
5172	INTS	8	SOIC	250MHz Single Differential Line Receiver Slew Rate Max. 1000V/microsec	–	EL5172ISZ	NEW SMD 156-2067	1.180	0.880	0.700
9110	INTS	16	QSOP	150MHz Differential Receiver/Equalizer Slew Rate 1.5V/ns	–	EL9110IUZ	NEW SMD 156-2018	10.150	8.340	7.490
Receivers - Dual										
9637	TI	8	SOIC	Dual Differential Line Receiver	15ns	UA9637ACD	SMD 959-3934	0.780	0.500	0.360
9637	TI	8	DIP	Dual Differential RS422/423 Line Receiver	15ns	UA9637ACPE4	121-0971	0.680	0.480	0.360
75107	TI	14	DIP	Dual Line Receiver	17ns	SN75107AN	110-3032	1.120	0.760	0.540
75107	TI	14	DIP	Dual Line Receiver	17ns	SN75107AN..	406-685	0.660	0.460	0.340
75107	TI	14	SOIC	Dual Line Receiver	25ns	SN75107BD	SMD 959-2938	0.420	0.350	0.300
75182	TI	14	DIP	Dual Differential Line Receiver	18ns	SN75182N	110-3033	1.120	0.760	0.540
Receivers - Triple										
4543	INTS	24	QSOP	350MHz Triple Differential Twisted-Pair Driver with Common-Mode Sync Encoding	–	EL4543IUZ	NEW SMD 156-2032	4.100	3.080	2.470
8145	ADI	32	LFCSP	High Speed, Triple Differential Receiver with Comparators	–	AD8145YCPZ-R2	SMD 131-6451	4.390	3.530	2.970
Receivers - Quad										
14	NSC	14	SOIC	Quad CMOS RS232 Line Receiver	6500ns	DS14C89AM	SMD 948-7921	1.220	0.990	0.910
14	NSC	14	DIP	Quad CMOS RS232 Line Receiver	6500ns	DS14C89AN	948-7930	1.400	1.150	1.060
26	NSC	16	NSOIC	Quad Differential Line Receivers	–	DS26LS32ACM/NOPB	NEW SMD 156-4610	0.850	0.700	0.590
26	TI	16	PDIP	Quad Differential Line Receiver		AM26C32CN....	NEW 164-8734	0.580	0.520	0.460
26	TI	16	SOIC	RS-422 Differential Line Receiver, Quad	27ns	AM26C32CD	SMD 496-4391	0.700	0.570	0.390
26	TI	16	SOIC	Quadruple Differential Line Receiver	–	AM26C32ID	SMD 112-1592	0.800	0.520	0.370
26	TI	16	SOIC	Quad Differential RS422/RS423 Line Receiver (Tri-state)	17ns	AM26LS32ACD	SMD 110-3045	0.550	0.350	0.250
26	TI	16	DIP	Quad Differential RS422/RS423 Line Receiver (Tri-state)	17ns	AM26LS32ACN	110-3046	0.510	0.350	0.250
26	TI	16	SOIC	RS-422 Differential Line Receiver, Quad	35ns	AM26LS33ACD	SMD 442-5406	0.650	0.460	0.360
26	TI	16	DIP	Quadruple Differential Line Receiver	22ns	AM26LS33ACN	112-1593	0.720	0.460	0.330
26	TI	16	SOIC	Low-Voltage High-Speed Quadruple Differential Line Driver	8ns	AM26LV31CD	SMD 112-1594	0.800	0.570	0.440
26	NSC	16	SOIC	Quad CMOS Differential RS422/RS423 line Receiver (Tri-state)	30ns	DS26C32ATM	SMD 949-0051	1.220	0.720	0.570
26	NSC	16	DIP	Quad Differential RS422/RS423 Line Receiver (Tri-state)	23ns	DS26LS32ACN	948-7956	1.450	1.180	1.090
26	NSC	16	SOIC	Quad Differential RS422/RS423 Line Receiver (Tri-state)	17ns	DS26LS32CM	SMD 948-7964	0.910	0.740	0.680
26	NSC	16	DIP	Quad Differential RS422/RS423 Line Receiver (Tri-state)	17ns	DS26LS32CN	948-7972	1.360	1.120	1.020
34	NSC	16	SOIC	Quad CMOS Differential RS422/RS423 Line Receiver (Tri-state)	20ns	DS34C86TM	SMD 948-7980	1.260	1.020	0.950
65	TI	16	TSSOP	Quad LVDS Receiver		SN65LVDS32PW.	NEW SMD 164-8749	1.800	1.440	1.200
65	TI	16	SOIC	Quad RS485 Differential Line Receivers		SN65LBC175AD.	NEW SMD 164-8741	1.800	1.440	1.200
75	TI	16	PDIP	Quadruple DIFFERENTIAL LINE RECEIVER	–	SN75ALS197N	123-6496	0.540	0.340	0.250
75	TI	14	SOIC	Quadruple Low-Power Line Receiver	6µs	SN75C189AD	SMD 959-3098	0.510	0.330	0.230
75	TI	14	DIP	Quad CMOS RS232 Line Receiver	6000ns	SN75C189ANE4	121-4405	0.510	0.330	0.230
75	TI	16	SOIC	Quadruple RS-485 DIFFERENTIAL LINE RECEIVERS	–	SN75LBC173ADG4	SMD 123-4886	1.890	1.320	1.060
75	TI	16	SOIC	Quadruple Low-Power Differential Line Receiver	–	SN75LBC173DG4	SMD 123-4839	1.910	1.340	1.030
75	TI	16	SOIC	Quadruple RS-485 DIFFERENTIAL LINE RECEIVERS	–	SN75LBC175ADG4	SMD 123-4956	2.360	1.660	1.270
75	TI	16	SOIC	Quadruple RS-485 Differential Line Receivers	–	SN75LBC175DG4	SMD 123-4667	1.830	1.280	1.000
90	NSC	56	TSSOP	28Bit to Quad LVDS 2.38Gbps Link Clock 85MHz		DS90CR288AMTD/NOPB	NEW SMD 168-5539	11.120	9.140	7.480
90	NSC	16	TSSOP	Quad CMOS Differential Line Receiver, 3V LVDS	2.7ns	DS90LV048ATMTC	SMD 977-8667	2.310	1.820	1.480
489	LT	16	SOIC	Quad RS485 Line Receiver		LTC489CSW#PBF	NEW SMD 166-3738	7.410	5.740	4.600
1489	TI	14	PDIP	Quad Line Receiver	–	MC1489AN	NEW 156-4968	0.330	0.270	0.250
1489	ON	14	DIP	Quad RS232 Line Receiver	25ns	MC1489APG	121-1143	0.580	0.420	0.340
1489	ST	14	DIP	Quad RS232 Line Receiver	25ns	MC1489P	975-6000	0.790	0.460	0.330
1489	ST	14	DIP	Quad RS232 Line Receiver	25ns	MC1489P.	406-960▲	0.520	0.300	0.210
1489	ON	14	DIP	Quad RS232 Line Receiver	25ns	MC1489PG	121-1144	0.330	0.250	0.159
3095	MAX	16	DIP	Quad, CMOS RS-485/RS-422 Line Receiver With ±15kVESD protected	98ns	MAX3095CPE+	972-3919	2.690	1.730	1.170
3223	MAX	20	DIP	Low Power, RS232 Transceiver With auto-shutdown. 2 Drivers/2 Receivers	–	MAX3223CPP+	118-8043	3.370	2.330	1.850
3486	TI	16	SOIC	Quad Differential Line Receiver With 3 State Output		MC3486D..	NEW SMD 164-8740	0.420	0.330	0.280
3486	NSC	16	SOIC	Quad Differential RS422/RS423 Line Receiver (Tri-state)	19ns	DS3486M	SMD 949-0558	0.860	0.710	0.650
3486	NSC	16	DIP	Quad Differential RS422/RS423 Line Receiver (Tri-state)	19ns	DS3486N	948-8006	0.860	0.730	0.610
3486	TI	16	DIP	Quad Differential RS422/RS423 Line Receiver (Tri-state)	28ns	MC3486NE4	121-0972	0.680	0.480	0.360
75173	TI	16	SOIC	Quad Differential Line Receiver	22ns	SN75173D	NEW SMD 156-4972	1.480	1.210	1.090
75173	TI	16	DIP	Quad Differential RS485/RS422/RS423 Line Receiver (Tri-state)	20ns	SN75173N	110-6027	1.630	1.110	0.800
75175	TI	16	SOIC	Quad Differential RS485/RS422/RS423 Line Receiver (Tri-state)	22ns	SN75175D	SMD 110-3177	1.160	0.790	0.570
75175	TI	16	DIP	Quad Differential RS485/RS422/RS423 Line Receiver (Tri-state)	22ns	SN75175N	110-6029	0.780	0.500	0.440
75189	TI	14	SOIC	Quad RS232 Line Receiver	25ns	SN75189AD	SMD 110-3185	0.430	0.270	0.196
75189	TI	14	DIP	Quadruple Line Receiver	25ns	SN75189ANG4	959-2970	0.330	0.280	0.210
75189	TI	14	SOIC	Quadruple Line Receiver	25ns	SN75189D	SMD 959-2989	0.430	0.270	0.196

RL Re-reeling available

	Mftr.	Pins	Pkg	Description	Propagation Delay	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
Receivers - Quad										
75189	TI	14	DIP	Quad RS232 Line Receiver	25ns	SN75189N	110-3034●	0.430	0.270	0.196
75189	TI	14	DIP	Quad RS232 Line Receiver	25ns	SN75189N..	407-057	0.290	0.192	0.138
96175	NSC	16	DIP	Quad Differential RS485/RS422/RS423 Line Receiver (Tri-State)	22ns	DS96175CN	121-5197●	3.850	3.150	2.890
Receivers - Octal										
65	TI	38	TSSOP	Octal LVDS Receiver		SN65LVDT388ADBT.	NEW SMD 164-8744●	3.730	2.990	2.480
90	NSC	100	TQFP	Dual Pixel LVDS Display Interface		DS90CF388VJD/NOPB	NEW SMD 168-5581●	9.860	8.100	6.630
90	NSC	100	TQFP	Dual Pixel LVDS Display Interface		DS90CF388AVJD/NOPB	NEW SMD 168-5580●	9.860	8.100	6.630
Receivers - 10										
90	NSC	128	TQFP	3.3V 8MHz to 135MHz Dual FPD-Link Receiver		DS90C3202VS/NOPB	NEW SMD 168-5771●	9.010	7.410	6.070
Receivers - 16										
65	TI	64	TSSOP	16 Channel LVDS Receiver		SN65LVDS386DGG.	NEW SMD 164-8750●	6.460	5.690	4.750
Transmitters/Receivers										
14	NSC	16	SOIC	5V Powered TIA/EIA-232 Dual Driver/Receiver		DS14C232TM/NOPB	NEW SMD 168-5312●	2.670	2.080	1.700
14	NSC	28	SSOP	3.3V Supply TIA/EIA-232 3/5 Driver/Receiver		DS14C335MSA/NOPB	NEW SMD 168-5313●	8.590	6.680	5.470
14	NSC	16	SOIC	Dual, Low Power Driver/Receiver With DC/DC converter - requires only +5V supply		DS14C232CM	SMD 949-0124●	2.460	2.010	1.540
14	NSC	16	DIP	Dual, Low Power Driver/Receiver With DC/DC converter - requires +5V supply only		DS14C232CN	949-0116●	2.540	2.120	1.580
36	NSC	8	SOIC	CMOS Differential Bus Transceiver (RS485) (IND TEMP)		DS36C278TM	SMD 949-4022●	2.000	1.630	1.500
36	NSC	8	DIP	CMOS Low Power Multipoint Bus Transceiver (RS485) (IND TEMP)		DS36C278TN	949-4006●	1.530	1.210	1.000
36	NSC	8	SOIC	CMOS Low Power, Differential Bus Transceiver With sleep mode (RS485) (IND TEMP)		DS36C279TM	SMD 949-4014●	2.320	2.000	1.610
36	NSC	8	SOIC	CMOS Low Power, Differential Bus Transceiver With Slew Rate Control (RS485) (IND TEMP)		DS36C280TM	SMD 121-5198●	1.700	1.350	1.120
65	TI	14	SOIC	Differential Driver And Receiver Pair		SN65ALS180D	NEW SMD 156-4945●	1.920	1.580	1.410
65	TI	8	MSOP	Single Full-Duplex LVDS Transceiver		SN65LVDS179DGK.	NEW SMD 164-8746●	1.670	1.340	1.120
65	TI	14	TSSOP	Single Full-Duplex LVDS Transceiver		SN65LVDS180PW.	NEW SMD 164-8747●	1.670	1.340	1.120
65	TI	8	SOIC	5 V Full-Duplex RS-485/RS-422 Drivers and Balanced Receivers		SN65HVD179DG4	SMD 139-0641●	2.740	2.180	1.800
65	TI	8	SOIC	3.3-V Full-Duplex RS-485 Drivers and Receivers		SN65HVD30DG4	SMD 139-0632●	2.660	2.120	1.750
65	TI	8	SOIC	3.3 V Full-Duplex RS 485 Drivers and Receivers		SN65HVD31DG4	SMD 139-0633●	2.660	2.120	1.750
65	TI	8	SOIC	3.3 V Full-Duplex RS 485 Drivers and Receivers		SN65HVD32DG4	SMD 139-0634●	2.660	2.120	1.750
65	TI	14	SOIC	3V Full-Duplex RS-485 Driver and Receiver		SN65HVD33DG4	SMD 139-0635●	3.040	2.440	2.010
65	TI	14	SOIC	3V Full-Duplex RS-485 driver and receiver		SN65HVD34DG4	SMD 139-0637●	3.040	2.440	2.010
65	TI	14	SOIC	3V Full-duplex RS-485 Driver and Receiver		SN65HVD35DG4	SMD 139-0638●	3.040	2.440	2.010
65	TI	8	SOIC	3.3 V Full-Duplex RS-485/RS-422 Drivers and Balanced Receivers		SN65HVD379DG4	SMD 139-0639●	2.900	2.310	1.900
65	TI	10	MSOP	LOW-POWER RS-485 FULL-DUPLEX DRIVERS/RECEIVERS		SN65HVD3080EDGSG4	SMD 139-0629●	1.640	1.290	1.080
65	TI	10	MSOP	Low-Power RS-485 Full-Duplex Drivers/Receivers		SN65HVD3083EDGSG4	SMD 139-0630●	1.850	1.490	1.220
65	TI	8	SOIC	Low-power Half-duplex RS-485 Transceiver		SN65HVD3085EDG4	SMD 139-0627●	1.340	1.080	0.890
65	TI	10	MSOP	Low-Power RS-485 Full-Duplex Drivers/Receivers		SN65HVD3086EDGSG4	SMD 139-0631●	2.080	1.670	1.380
65	TI	8	SOIC	Low-power Half-duplex RS-485 Transceiver		SN65HVD3088EDG4	SMD 139-0628●	1.480	1.180	0.970
65	TI	8	SON	1-Channel M-LVDS Type-2 Receiver		SN65MLVD3DRBTG4	SMD 139-0652●	2.550	2.060	1.720
74	TI	48	TSSOP	19-Bit IEEE 1284 Translation Transceiver With Error-Free Power Up		SN74LVCE161284DGGR	SMD 123-6409●	1.290	0.920	0.660
74	TI	48	SSOP	19-Bit IEEE 1284 Translation Transceiver With Error-Free Power Up		SN74LVCE161284DL	123-6410●	1.760	1.260	0.950
74	TI	20	TSSOP	Octal Bus Transceiver With 3-State Outputs		SN74LVCZ245APW	SMD 123-6427●	0.920	0.650	0.510
75	TI	20	PDIP	Low-Power 3 Drivers & 5 Receivers		SN75C185N	NEW 156-4969●	1.210	0.990	0.890
75	NSC	8	SOIC	Differential Bus Transceiver		LMS75LBC176M	SMD 949-0760●	1.300	0.920	0.810
75	TI	8	SOIC	Differential Bus Transceiver		SN75ALS176BD	SMD 959-3012●	1.570	1.060	0.760
75	TI	8	SOIC	Differential Bus Transceiver		SN75ALS176BDG4	SMD 123-6495●	1.380	0.970	0.750
75	TI	8	SOIC	Differential Bus Transceiver		SN75ALS176D	SMD 959-3020●	1.240	0.940	0.620
75	TI	8	DIP	High Performance Differential Bus Transceiver (RS485/RS422)		SN75ALS176P	110-3021●	1.380	0.940	0.680
75	TI	14	SOIC	Differential Driver And Receiver Pair		SN75ALS180D	SMD 959-3039●	1.820	1.250	0.960
75	TI	16	SOIC	Triple Low-Power Drivers/Receiver		SN75C1406D	SMD 959-3055●	1.280	0.910	0.700
75	TI	16	DIP	Triple Low-Power Drivers/Receiver		SN75C1406NG4	959-3071●	1.110	0.810	0.610
75	TI	16	TSSOP	3-V TO 5.5-V MULTICHANNEL RS-232 LINE DRIVER/RECEIVER		SN75C3221PWE4	SMD 123-6498●	1.190	0.850	0.640
75	TI	20	SOIC	3V to 5.5V Multichannel RS-232 Compatible Line Driver/Receiver		SN75C3222DW	SMD 959-3101●	3.020	2.200	1.760
75	TI	20	TSSOP	3V to 5V Multichannel RS-232 Compatible Line Driver/Receiver		SN75C3223PW	SMD 959-3110●	4.330	3.610	3.000
75	TI	16	TSSOP	3V to 5.5V Multichannel RS-232 Compatible Line Driver/Receiver		SN75C3232PW	SMD 959-3128●	3.940	2.860	2.260
75	TI	28	SOIC	3V to 5.5V Multichannel RS-232 Line Driver/Receiver		SN75C3243DW	SMD 959-3144●	1.920	1.600	1.290
75	TI	8	SOIC	3.3v Differential Transceiver		SN75HVD10DG4	SMD 123-4863●	2.910	2.040	1.560
75	TI	8	SOIC	Transceiver, RS-485		SN75HVD1176D	SMD 845-2695●	2.360	1.820	1.350
75	TI	8	SOIC	3.3v Differential Transceiver		SN75HVD11DG4	SMD 123-4838●	2.820	2.050	1.600
75	TI	8	SOIC	3.3v Differential Transceiver		SN75HVD12DG4	SMD 123-4694●	2.720	1.900	1.480
75	TI	8	SOIC	Low-Power RS-485 TRANSCEIVER		SN75HVD3082EDG4	SMD 123-4723●	1.480	1.030	0.800
75	TI	8	SOIC	Differential Line Transceiver		SN75LBC176AD	SMD 845-2709●	1.050	0.910	0.850
75	TI	8	SOIC	High-speed, Low Voltage, LinBiCMOS, Differential Bus Transceiver		SN75LBC176D	SMD 334-9615	1.760	1.660	1.300
75	TI	8	DIP	Differential Bus Transceiver (Low Power 75176)		SN75LBC176P	121-2852●	1.080	0.880	0.680
75	TI	8	SOIC	Low-Power Differential Line Driver And Receiver Pairs		SN75LBC179ADG4	SMD 123-4957●	1.900	1.340	1.030
75	TI	14	SOIC	Low-Power Differential Line Driver And Receiver Pair		SN75LBC180ADG4	SMD 123-4843●	2.270	1.570	1.220
75	TI	14	SOIC	Low-Power Differential Line Driver And Receiver Pairs		SN75LBC180DG4	SMD 123-4655●	1.710	1.210	0.930
75	TI	14	PDIP	Low-Power Differential Line Driver And Receiver Pair		SN75LBC180NE4	123-4698●	1.150	0.930	0.790
75	TI	8	SOIC	Differential Data Line Transceiver With ±15kV ESD protection, 0 to +70°Ctemp. Range		SN75LBC184D	SMD 110-2955●	2.400	1.640	1.220
75	TI	8	DIP	Differential Data Line Transceiver With ±15kV ESD protection, 0 to +70°Ctemp. Range		SN75LBC184P	110-2956●	2.400	1.640	1.220
75	TI	20	SSOP	Low-Power Multiple Rs-232 Drivers And Receivers		SN75LP1185DBR	SMD 123-6501●	1.410	1.000	0.720
82	INTS	40	PDIP	8 Bit CMOS Programmable Peripheral 24 I/O Interface		IP82C55AZ	NEW 156-2050●	11.170	8.390	6.710
82	INTS	44	PLCC	24 I/O CMOS Programmable Peripheral Interface		IS82C55AZ	NEW SMD 156-1926●	10.530	8.200	6.710
90	NSC	48	TSSOP	Quad LVDS to 28Bit 1848Mbps Link Clock 66MHz		DS90CR216AMTD/NOPB	NEW SMD 168-5584●	6.000	4.940	4.030
90	NSC	56	TSSOP	28Bit to Quad LVDS 1848Mbps Link Clock 66MHz		DS90CR283MTD/NOPB	NEW SMD 168-5585●	12.010	9.870	8.080
90	NSC	100	TQFP			DS90C387VJD/NOPB	NEW SMD 168-5513●	10.100	8.310	6.800
90	NSC	16	SOIC	3V LVDS Dual Line Driver and Receiver Pair		DS90LV049HMT/NOPB	NEW SMD 168-5759●	1.820	1.490	1.220
91	NSC	32	LLP	125Mz Quad M-LVDS Transceiver		DS91M040TSQE/NOPB	NEW SMD 168-5781●	7.590	6.240	5.100
91	NSC	8	SOIC	100Mz Single Channel M-LVDS Transceiver		DS91C176TMA/NOPB	NEW SMD 168-5786●	3.100	2.550	2.080
101	ADI	10	MSOP	Craft Port Tiny RS-232 Transceiver to Portable Applications		ADM101EARMZ	NEW SMD 166-1056●	1.650	1.290	1.050
201	MCHIP	8	PDIP	20 kbps Half Duplex LIN Transceiver with 5V 50mA O/P Voltage Regulator		MCP201-E/P	NEW 160-5560●	1.450	1.100	0.860
201	MCHIP	8	SOIC	20 kbps Half Duplex LIN Transceiver with 5V 50mA O/P Voltage Regulator		MCP201-E/SN	SMD 160-5561● NEW	1.450	1.100	0.860
202	ADI	16	TSSOP	Dual RS-232 Line Driver/Receiver EMI/EMC Compliant ESD Protected		ADM202EARUZ	NEW SMD 166-1058●	1.570	1.220	1.000
202	INTS	16	SOIC	Dual Transceiver ESD-Protected 5V RS-232 with 4 0.1uF Caps		HIN202EIBNZ	SMD 156-1954● NEW	0.630	0.500	0.400
202	ADI	16	SOIC	Transceiver, Rs-232, 230 kbps		ADM202EARNZ	SMD 133-3249●	1.320	1.010	0.970
202	ADI	16	DIP	CMOS Dual RS232 Transmitter/Receiver, ±15kV ESD Protected (IND TEMP)		ADM202EANZ	960-5495●	1.890	1.380	0.920
202	ADI	16	DIP	CMOS Dual RS232 Transmitter/Receiver		ADM202JNZ	960-5312●	1.450	1.160	0.930
202	ADI	16	SOIC	Dual RS232 Transceiver, 2 Drivers/2 Receivers		ADM202JRNZ	SMD 942-6248●	1.070	0.800	0.770
202	INTS	16	SOIC	CMOS RS232 Transmitter/Receiver. 2 Drivers/2 Receivers		HIN202CB	SMD 302-5445▲	0.830	0.720	0.580
202	INTS	16	SOIC	CMOS RS232 Transmitter/Receiver, 2 Drivers/2 Receivers, +5V supply		HIN202CBNZ	SMD 966-3886●	0.860	0.610	0.370
202	INTS	16	SOIC	CMOS RS232 Transmitter/Receiver. 2 Drivers/2 Receivers		HIN202CBZ	SMD 966-3444●	0.990	0.610	0.370
202	INTS	16	DIP	CMOS RS232 Transmitter/Receiver, 2 Drivers/2 Receivers, +5V supply		HIN202CPZ	120-1541●	0.680	0.590	0.480
202	INTS	16	SOIC	CMOS RS232 Transmitter/Receiver, 2 Drivers/2 Receivers, +5V supply, ±15kV ESD protected.		HIN202ECBNZ	SMD 966-3894●	0.680	0.590	0.480
202	INTS	16	SOIC	CMOS RS232 Transmitter/Receiver. 2 Drivers/2 Receivers, With 15kV ESD protected		HIN202ECBZ	SMD 966-3452●	0.990	0.610	0.370
202	INTS	16	DIP	CMOS RS232 Transmitter/Receiver, 2 Drivers/2 Receivers, +5V supply, ±15kV ESD protected.		HIN202ECPZ	101-8174●	0.660	0.600	0.500
202	NSC	16	SOIC	15KV ESD Rated, 5V Single Supply TIA/EIA-232 Dual Transceiver		LMS202EIM	SMD 949-0795●	2.010	1.660	1.350
202	MAX	16	DIP	CMOS Dual RS232 Transmitter/Receiver (mAX232 upgrade)		MAX202CPE+	972-3803●	2.940	1.900	1.390
202	MAX	16	SOIC	CMOS Dual RS232 Transmitter/Receiver (mAX232 upgrade)		MAX202CSE+	SMD 972-5989●	2.940	1.900	1.390
202	MAX	16	SOIC	CMOS Dual RS232 Transmitter/Receiver (mAX232 upgrade)		MAX202CWE+	SMD 972-4486●	2.940	1.900	1.390
202	MAX	16	DIP	CMOS Dual RS232 Transmitter/Receiver (mAX232 upgrade), ±15KV ESD Protection		MAX202ECPE+	972-6039●	3.740	2.400	1.760
202	MAX	16	SOIC	CMOS Dual RS232 Transmitter/Receiver (mAX232 upgrade), ±15KV ESD Protection		MAX202ECSE+	SMD 972-6047●	3.740	2.400	1.760
202	MAX	16	SOIC	CMOS Dual RS232 Transmitter/Receiver (mAX232 upgrade),±15KV ESD Protection		MAX202ECWE+	SMD 972-4419●	3.740	2.400	1.760
202	MAX	16	SOIC	CMOS Dual RS232 Transmitter/Receiver (mAX232 upgrade/IND TEMP),±15KV ESD Protection		MAX202EESE+	SMD 972-4338●	4.820	3.100	2.290

RL Re-reeling available

Farnell

Line Drivers and Receivers - continued

	Mftr.	Pins	Pkg	Description	Propagation Delay	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
Transmitters/Receivers										
202	MAX	16	SOIC	CMOS Dual RS232 Transmitter/Receiver (mAX232 upgrade/IND TEMP)		MAX202ESE+	SMD 972-4443●	3.550	2.280	1.670
202	TI	16	SOIC	RS-232 Line Driver / Receiver		MAX202IDG4	SMD 149-4906●	0.540	0.460	0.350
202	ST	16	DIP	5V Powered Multichannel RS-232 Driver/Receiver		ST202CN	107-7186●	1.020	0.740	0.590
202	ST	16	DIP	5V RS-232 Transceiver, 15kV ESD Protection		ST202ECN	107-7188●	1.170	0.820	0.740
203	MAX	20	SOIC	CMOS Dual RS232 TRansciever With no external use of capacitors (IND TEMP)		MAX203ECWP+	SMD 122-4204●	7.330	5.570	4.230
204	MAX	16	SOIC	CMOS RS232 With 4 drivers		MAX204CWE+	SMD 972-4893●	4.120	3.150	2.490
207	ADI	24	DIP	CMOS RS232 Transmitter/Receiver. 5 Drivers/3 Receivers, ±15kV ESD Protected (IND TEMP)		ADM207EANZ	960-5509●	3.560	2.610	1.740
207	INTS	16	SOIC	CMOS RS232 Transmitter/Receiver. 5 Drivers/3 Receivers, With 15kV ESD protected		HIN207ECBZ	SMD 966-3460●	1.690	1.500	1.220
208	ADI	24	DIP	CMOS RS232 Transmitter/Receive, ±15kV ESD Protected (IND TEMP)		ADM208EANZ	960-5517●	2.840	2.020	1.900
208	INTS	24	SOIC	CMOS RS232, 4 Drivers/4 Receivers, 5V supply, ±15kV ESD protected.		HIN208ECBZ	SMD 966-3908●	1.600	1.420	1.150
208	MAX	24	SOIC	CMOS RS232 With 4 drivers, 4 recievers....		MAX208CWG+	SMD 972-5105●	6.720	4.330	3.180
208	TI	24	SSOP	Multichannel RS-232 Line Driver/Receiver		MAX208IDBG4	SMD 149-4907●	0.950	0.770	0.710
208	INTS	24	SOIC	120kbps RS-232 Transceiver with 0.1uF Caps		HIN208CBZ	NEW SMD 156-2036●	2.740	2.060	1.650
211	INTS	28	SSOP	4 Tx/ 5 Rx Transceiver ESD-Protected 5V RS-232 with 4 0.1uF Caps..		HIN211CAZ	NEW SMD 156-1958●	1.210	0.940	0.780
211	ADI	28	SSOP	IC SM Line Drivers/ Receivers RS-232		ADM211EARSZ	SMD 942-6256●	1.690	1.380	1.350
211	ADI	28	SOIC	CMOS RS232 Transmitter/Receiver. 4 Drivers/5 Receivers, ±15kV ESD Protected (IND TEMP)		ADM211EARZ	SMD 107-9415●	2.210	1.780	1.390
211	INTS	28	SOIC	CMOS RS232 Transmitter/Receiver. 4 Drivers/5 Receivers, With Powershutdown mode		HIN211CBZ	SMD 966-3428●	1.020	0.900	0.750
211	INTS	28	SOIC	CMOS RS232 Transmitter/Receiver. 4 Drivers/5 Receivers, With Powershutdown mode and 15kV ESD protected		HIN211ECBZ	SMD 966-3436●	2.010	1.800	1.460
211	MAX	28	SSOP	CMOS RS232 With 4 Drivers, 5 Recievers, Low Power shutdown (SSOP).		MAX211ECAI+	SMD 972-4907●	8.170	5.250	4.340
211	TI	28	SSOP	5-V MULTICHANNEL RS-232 LINE DRIVER/RECEIVER WITH ±15-kV ESD PROTECTION		MAX211IDBG4	SMD 149-4908●	0.950	0.770	0.580
213	ADI	28	SOIC	CMOS RS232 Transmitter/Receiver. 4 Drivers/3 Receivers, ±15kV ESD Protected (IND TEMP)		ADM213EARZ	SMD 960-5525●	2.460	1.960	1.470
220	MAX	16	DIP	Low Power CMOS Dual RS232 Transmitter/Receiver		MAX220CPE+	118-7947●	4.660	3.200	2.440
222	MAX	18	DIP	CMOS Dual RS232 Transmitter/Receiver With shutdown		MAX222CPN+	118-7926●	4.350	2.790	2.130
222	MAX	18	SOIC	CMOS Dual RS232 Tranceiver With shutdown		MAX222CWN+	SMD 972-4915●	4.350	2.790	2.130
231	MAX	14	DIP	CMOS RS232 Transmitter/Receiver operates from +5V and +12V.Contains a +12V to -12V charge pump Voltage converter		MAX231CPD+	972-5164●	2.940	1.900	1.390
232	ADI	16	SOIC	Dual High-Speed 5 V 0.1 µF CMOS RS-232 Driver/Receiver		ADM232AARNZ	NEW SMD 166-1059●	1.740	1.350	1.120
232	TI	16	SOIC	Dual EIA-232 Driver/Receiver		MAX232IDW..	NEW SMD 164-8736●	0.430	0.340	0.280
232	TI	16	PDIP	Dual EIA-232 Driver/Receiver		MAX232IN	NEW 164-8737●	0.430	0.340	0.280
232	INTS	16	SOIC	250kbps Dual RS-232 Transceiver with 4 0.1uF Caps.		HIN232ACBNZ	NEW SMD 156-1980●	0.770	0.570	0.460
232	INTS	16	SOIC	CMOS Dual RS-232 Transceiver.		ICL232CBEZ	NEW SMD 156-2052●	2.500	1.870	1.500
232	ADI	16	DIP	CMOS Dual RS232 Transmitter/Receiver (AD232JN upgrade).		ADM232LJNZ	960-5339●	2.110	1.460	1.050
232	ADI	16	SOIC	CMOS Dual RS232 Transmitter/Receiver (AD232JR upgrade).		ADM232LJRZ	SMD 942-6388●	2.130	1.390	0.950
232	INTS	16	DIP	CMOS RS232, 2 Drivers/2 Receivers, 5V supply.		HIN232ACPZ	120-1543●	0.710	0.620	0.550
232	INTS	16	SOIC	CMOS Dual RS232 Transmitter/Receiver		HIN232CBZ	SMD 966-4068●	1.060	0.860	0.660
232	INTS	16	DIP	CMOS Dual RS232 Transmitter/Receiver		HIN232CPZ	966-4041●	0.700	0.590	0.480
232	INTS	16	SOIC	CMOS Dual RS232 Transmitter/Receiver		HIN232ECBZ	SMD 966-3479●	0.650	0.590	0.490
232	INTS	16	DIP	CMOS RS232, 2 Drivers/2 Receivers, 5V supply, ±15kV ESD protected.		HIN232ECPZ	966-3916●	1.430	0.900	0.570
232	INTS	16	SOIC	CMOS Dual RS232 Transmitter/Receiver (IND TEMP)		HIN232IBZ	SMD 966-4165●	0.480	0.370	0.310
232	INTS	16	DIP	CMOS Dual RS232 Transmitter/Receiver (IND TEMP)		HIN232IPZ	966-4157●	0.600	0.480	0.390
232	INTS	16	SOIC	CMOS Dual RS232 Transmitter/Receiver		ICL232CBE	SMD 407-136▲	2.000	1.480	1.220
232	INTS	16	DIP	CMOS Dual RS232 Transmitter/Receiver		ICL232CPE	407-148▲	1.890	1.320	1.070
232	MAX	16	DIP	Enhanced CMOS Dual RS232 Transmitter/Receiver		MAX232ACPE+	972-3773●	4.910	3.160	2.410
232	MAX	16	SOIC	Enhanced CMOS Dual RS232 Transmitter/Receiver		MAX232ACSE+	SMD 972-4362●	4.470	3.160	2.410
232	MAX	16	SOIC	Enhanced CMOS Dual RS232 Transmitter/Receiver		MAX232ACWE+	SMD 972-4370●	4.350	2.790	2.130
232	MAX	16	DIP	Enhanced CMOS Dual RS232 Transmitter/Receiver (IND TEMP)		MAX232AEPE+	972-4389●	4.310	3.010	2.470
232	MAX	16	SOIC	Enhanced CMOS Dual RS232 Transmitter/Receiver (IND TEMP)		MAX232AESE+	SMD 972-4397●	5.890	3.780	2.560
232	MAX	16	SOIC	Enhanced CMOS Dual RS232 Transmitter/Receiver (IND TEMP)		MAX232AEWE+	SMD 972-4400●	5.200	3.340	2.560
232	MAX	16	DIP	CMOS Dual RS232 Transmitter/Receiver		MAX232CPE+	972-5172●	2.840	1.900	1.390
232	MAX	16	SOIC	CMOS Dual RS232 Transmitter/Receiver		MAX232CSE+	SMD 972-6055●	2.940	1.900	1.390
232	MAX	16	SOIC	CMOS Dual RS232 Transmitter/Receiver		MAX232CWE+	SMD 972-5962●	2.750	1.900	1.390
232	TI	16	SOIC	Dual EIA-232 Driver/Receiver		MAX232DG4	SMD 958-9775●	0.770	0.610	0.480
232	TI	16	SOIC	Dual EIA-232 Driver/Receiver		MAX232DW	SMD 958-9783●	0.680	0.430	0.310
232	MAX	16	DIP	CMOS Dual RS232 Transmitter/Receiver		MAX232ECPE+	972-4427●	3.740	2.400	1.760
232	MAX	16	SOIC	CMOS Dual RS232 Transmitter/Receiver. ±15KV ESD Protection.		MAX232ECSE+	SMD 972-6063●	3.010	2.400	1.760
232	MAX	16	SOIC	CMOS Dual RS232 Transmitter/Receiver		MAX232ECWE+	SMD 972-4435●	3.740	2.400	1.760
232	MAX	16	SOIC	CMOS Dual RS232 Transmitter/Receiver (IND TEMP)		MAX232EESE+	SMD 972-4346●	4.820	3.100	2.290
232	MAX	16	SOIC	CMOS Dual RS232 Transmitter/Receiver (IND TEMP)		MAX232EEWE+	SMD 972-4354●	3.460	2.710	2.400
232	MAX	16	DIP	CMOS Dual RS232 Transmitter/Receiver (IND TEMP)		MAX232EPE+	972-4451●	3.550	2.280	1.670
232	MAX	16	SOIC	CMOS Dual RS232 Transmitter/Receiver (IND TEMP)		MAX232ESE+	SMD 972-4460●	3.350	2.280	1.670
232	MAX	16	SOIC	CMOS Dual RS232 Transmitter/Receiver (IND TEMP)		MAX232EWE+	SMD 972-4478●	3.550	2.280	1.670
232	TI	16	SOIC	Dual EIA-232 Driver/Receiver		MAX232ID	SMD 958-9791●	0.770	0.570	0.440
232	TI	16	DIP	Dual EIA-232 Driver/Receiver		MAX232NG4	958-9805●	0.840	0.670	0.530
232	CD	24	DIP	Isolated EIA232D Dual Transmitter/Receiver		NM232DDC	120-2164●	30.620	26.170	23.820
232	ST	16	DIP	5V Powered, Very High-Speed, Ultra Low Power Consumption RS-232 Driver/Receiver		ST232ABN	107-7189●	0.890	0.720	0.670
232	ST	16	DIP	5V Powered Multichannel RS-232 Driver/Receiver		ST232CN	107-7192●	1.430	1.030	0.800
232	ST	16	DIP	5V RS-232 Transceiver, 15kV ESD Protection		ST232ECN	107-7195●	1.800	1.320	1.060
233	MAX	20	SOIC	RS232 5 Drivers/ 4 Receivers 120kbps Data Rate		MAX233ACWP	SMD 642-605▲	9.280	7.280	6.330
234	MAX	16	DIP	CMOS Quad RS-232 Transmitter		MAX234CPE+	118-7976●	5.240	3.370	2.480
238	INTS	24	SOIC	CMOS Quad RS-232 Transmitter/Receiver		HIN238CBZ	SMD 966-4173●	4.340	2.910	2.510
238	INTS	24	DIP	CMOS Quad RS-232 Transmitter/Receiver		HIN238CPZ	966-4050●	1.520	1.180	0.970
238	MAX	24	DIP	CMOS Quad RS-232 Transmitter/Receiver		MAX238CNG+	972-5180●	6.720	4.330	3.180
238	MAX	24	SOIC	CMOS Quad RS-232 Transmitter/Receiver		MAX238CWG+	SMD 972-5113●	6.720	4.330	3.180
238	MAX	24	SOIC	CMOS Quad RS232 Tranciever (IND TEMP)		MAX238EWG+	SMD 972-4923●	8.140	6.200	4.720
239	INTS	24	DIP	CMOS RS232 Transmitter/Receiver. 3 Drivers/5 Receivers		HIN239CPZ	966-4181●	2.290	1.790	1.450
241	MAX	28	SSOP	+5V, multi-channel RS232, 4 Drivers/5 Receivers With shutdown and 3 state operation, 120kbps data rate.		MAX241ECAI+	SMD 972-5121●	8.240	6.270	4.770
250	MAX	14	DIP	5V Isolated RS232 Transceiver, 2 Drivers/2 Receivers		MAX250CPD+	972-4540●	6.830	4.390	3.330
250	MAX	14	SOIC	5V Isolated RS232 Transceiver, 2 Drivers/2 Receivers		MAX250CSD+	SMD 972-5385●	7.730	5.640	4.510
251	MAX	14	DIP	5V Isolated Dual RS232 Transceiver With Power shutdown, output enable control for tri-state operation...		MAX251CPD+	972-4931●	6.830	4.390	3.330
481	MAX	8	DIP	RS485/RS422, Low Power Transmitter/Receiver With ±15kV ESD protection, Receiver/Driver enable and shutdown mode		MAX481ECPA+	118-7939●	2.690	1.850	1.550
481	MAX	8	SOIC	RS485/RS422, Low Power Transmitter/Receiver With ±15kV ESD protection, Receiver/Driver enable and shutdown mode..		MAX481ECSA+	SMD 972-5130●	3.250	2.340	1.770
483	MAX	8	DIP	CMOS Differential Bus Transceiver (RS485/RS422). Reduced slew rate alLows for error free data transmission.		MAX483CPA+	972-5229●	2.460	1.580	1.160
483	MAX	8	DIP	RS485/RS422, Low Power, limited slew rate Transmitter/Receiver With ±15kV ESD protection, Receiver/Driver enable and shutdown mode		MAX483ECPA+	972-4516●	2.760	1.900	1.550
483	MAX	8	SOIC	CMOS Differential Bus Transceiver (RS485/RS422). Reduced slew rate alLows for error free data transmission.		MAX483ECSA+	SMD 972-5571●	3.050	1.960	1.450
483	MAX	8	DIP	RS485/RS422, Low Power, limited slew rate Transmitter/Receiver With ±15kV ESD protection, Receiver/Driver enable and shutdown mode (IND TEMP).		MAX483EPA+	972-4575●	2.120	1.460	1.120
483	MAX	8	SOIC	CMOS Differential Bus Transceiver (RS485/RS422). Reduced slew rate alLows for error free data transmission.		MAX483ESA+	SMD 972-5580●	2.990	2.160	1.610
483	ADI	8	DIP	Single ESD Protected Slew Rate Limited 5V RS-485 Transceiver		ADM483EANZ	NEW 166-1063●	2.370	1.830	1.510

RL Re-reeling available

	Mftr.	Pins	Pkg	Description	Propagation Delay	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
Transmitters/Receivers										
483	ADI	8	SOIC	Single ESD Protected Slew Rate Limited 5V RS-485 Transceiver		ADM483EARZ	NEW SMD 166-1064●	1.770	1.360	1.130
485	ADI	8	SOIC	Single +5V Low Power EIA RS-485 Transceiver		ADM485ARZ	NEW SMD 166-1065●	1.650	1.290	1.050
489	ADI	14	SOIC	Slew Rate Limited RS-485 with extra Receiver and Driver Enable Control		ADM489ARZ	NEW SMD 166-1066●	2.610	2.040	1.660
485	ADI	8	DIP	CMOS Differential Bus Transceiver (RS485/RS422). Low Power 75176		ADM485JNZ	107-9405●	1.720	1.070	0.770
485	ADI	8	SOIC	CMOS Low Power RS485 Transceiver		ADM485JRZ	SMD 942-6264●	1.450	1.070	0.850
485	NSC	8	SOIC	CMOS Multipoint Transceiver (RS485/RS422), Low Power.		DS485M	SMD 949-0078●	2.070	1.400	1.140
485	NSC	8	DIP	CMOS Multipoint Transceiver (RS485/RS422), Low Power.		DS485N	949-0086●	2.230	1.510	1.230
485	NSC	8	SOIC	5V Low Power RS-485 / RS-422 Differential Bus Transceiver		LMS485CM	SMD 949-0663●	1.730	1.230	1.060
485	NSC	8	DIP	5V Low Power RS-485 / RS-422 Differential Bus Transceiver		LMS485CNA	949-0671●	1.740	1.230	1.080
485	NSC	8	SOIC	5V Low Power RS-485 Differential Bus Transceiver		LMS485EIM	SMD 818-1551●	1.780	1.490	1.210
485	NSC	8	SOIC	5V Low Power RS-485 / RS-422 Differential Bus Transceiver		LMS485IM	SMD 949-0680●	1.750	1.260	1.070
485	LT	8	DIP	CMOS Differential Bus Transceiver (RS485/RS422). Low Power 75176		LTC485CN8#PBF	956-1323●	2.360	1.340	1.040
485	LT	8	SOIC	CMOS Differential Bus Transceiver (RS485/RS422)		LTC485CS8#PBF	SMD 956-1331●	2.960	1.690	1.310
485	LT	8	DIP	Low Power RS485 Interface Transceiver		LTC485IN8.#PBF	956-1340●	3.030	1.880	1.530
485	MAX	8	DIP	CMOS Differential Bus Transceiver (RS485/RS422). Low Power 75176		MAX485CPA+	972-5210●	2.460	1.580	1.160
485	MAX	8	SOIC	CMOS Differential Bus Transceiver (RS485/RS422)		MAX485CSA+	SMD 972-5954●	2.460	1.580	1.160
485	MAX	8	DIP	RS485/RS422, Low Power, limited slew rate Transmitter/Receiver With ±15kV ESD protection, Receiver/Driver enable		MAX485ECPA+	118-7940●	3.050	1.960	1.450
485	MAX	8	SOIC	RS485/RS422, Low Power Transmitter/Receiver With ±15kV ESD protection, Receiver/Driver enable		MAX485ECSA+	SMD 972-4524●	2.760	1.900	1.550
485	MAX	8	SOIC	RS485/RS422, Low Power, limited slew rate Transmitter/Receiver With Receiver/Driver enable. (IND TEMP)		MAX485ESA+	SMD 972-4583●	2.920	2.020	1.550
485	CD	24	DIP	Isolated EIA485 Dual Differential Driver/Receiver.		NM485DC	120-2163●	42.310	34.320	27.500
485	ST	8	DIP	Low Power RS-485/RS-422 Transceiver		ST485CN	107-7201●	1.230	1.000	0.800
485	ST	8	DIP	Low Power RS-485/RS-422 Transceiver With 15kV ESD Protection		ST485ERBN	107-7206●	1.300	1.070	0.850
485	ADI	8	SOIC	5 V, 32 Nodes, ±15 kV ESD-Protected, 2.5Mbps Half-Duplex Transceiver		ADM485EARZ	SMD 143-9034●	2.190	1.680	1.250
487	ADI	8	SOIC	5 V, 128 Nodes, ±15 kV ESD-Protected, 250kps Half-Duplex Transceiver		ADM487EARZ	SMD 143-9035●	2.190	1.680	1.250
487	MAX	8	DIP	CMOS Differential Bus Transceiver (RS485/RS422), Low Power 75176		MAX487CPA+	118-8013●	2.500	1.610	1.180
487	MAX	8	SOIC	CMOS Differential Bus Transceiver (RS485/RS422)		MAX487CSA+	SMD 972-6128●	2.500	1.610	1.180
487	MAX	8	SOIC	RS485/RS422, Low Power, limited slew rate Transmitter/Receiver With ±15kV ESD protection, Receiver/Driver enable		MAX487ECSA+	SMD 972-4532●	3.050	1.960	1.450
488	MAX	8	DIP	RS485/RS422, Low Power, limited slew-rate Transmitter/Reciever With thermAl shutdown, 250kbps data rate for Duplex applications.		MAX488CPA+	972-5598●	2.500	1.610	1.180
488	MAX	8	SOIC	RS485/RS422, Low Power, limited slew-rate Transmitter/Reciever With thermAl shutdown, 250kbps data rate for Duplex applications.		MAX488CSA+	SMD 972-4966●	2.500	1.610	1.180
488	MAX	8	SOIC	RS485/RS422, Low Power, limited slew-rate Transmitter/Reciever With thermAl shutdown, 250kbps data rate for Duplex applications (IND TEMP)		MAX488ECSA+	SMD 972-4974●	3.050	1.960	1.450
488	MAX	8	SOIC	RS485/RS422, Low Power, limited slew-rate Transmitter/Reciever With thermAl shutdown, 250kbps data rate for Duplex applications.		MAX488EESA+	SMD 972-5601●	4.390	2.820	2.080
489	LT	16	DIP	Quad RS485 Differential Bus/Line Receiver.		LTC489CN#PBF	956-1358●	6.710	3.790	2.850
489	MAX	14	DIP	RS485/RS422, Low Power, Limited slew rate Transmitter/Receiver With Receiver/driver enable.		MAX489CPD+	972-5148●	2.500	1.610	1.180
489	MAX	14	SOIC	RS485/RS422, Low Power, limited slew rate Transmitter/Receiver With Receiver/Driver enable		MAX489CSD+	SMD 972-4559●	2.500	1.610	1.180
490	LT	8	DIP	CMOS Differential Driver and Receiver		LTC490CN8#PBF	956-1366●	4.540	2.560	1.920
490	LT	8	SOIC	Multipoint Differential Driver and Receiver Pair		LTC490CS8#PBF	SMD 956-1374●	5.580	3.150	2.350
490	LT	8	DIP	CMOS Differential Driver and Receiver (IND TEMP)		LTC490IN8#PBF	956-1382●	4.810	3.160	2.570
490	MAX	8	SOIC	RS485/RS422, Low Power Transmitter/Reciever With thermAl shutdown, 2.5Mbps data rate for Duplex applications		MAX490CSA+	SMD 972-4982●	2.500	1.610	1.180
490	MAX	8	SOIC	RS485/RS422, Low Power Transmitter/Reciever With thermAl shutdown, 2.5Mbps data rate for Duplex applications		MAX490EESA+	SMD 972-5610●	3.630	3.000	2.380
490	MAX	8	SOIC	RS485/RS422, Low Power Transmitter/Reciever With thermAl shutdown, 2.5Mbps data rate for Duplex applications		MAX490ESA+	SMD 972-5628●	2.620	2.130	1.720
491	LT	14	SOIC	Differential Driver and Receiver Pair		LTC491CS#PBF	NEW SMD 166-3739●	5.380	4.180	3.340
491	LT	14	SOIC	Differential Driver and Receiver Pair		LTC491IS#PBF	NEW SMD 166-3740●	7.140	5.540	4.430
491	LT	14	DIP	Differential Driver and Receiver With Failsafe.		LTC491CN#PBF	956-1390●	5.010	2.830	2.160
491	LT	14	DIP	Differential Driver and Receiver With Failsafe (IND TEMP)		LTC491IN#PBF	956-1404●	5.370	3.530	2.870
491	MAX	14	SOIC	RS485/RS422, Low Power Transmitter/Receiver With Receiver/Driver enable.		MAX491CSD+	SMD 972-4567●	2.500	1.610	1.400
491	MAX	14	SOIC	RS485/RS422, Low Power Transmitter/Reciever With thermAl shutdown, Reciever/Driver enable, 2.5Mbps data rate for Duplex applications (IND TEMP)		MAX491ECSD+	SMD 972-4990●	2.040	1.360	1.270
804	MICR	48	TQFP	Physical Layer Transceiver 10/100BASE-T/TX/FX.		KSZ8041TL	NEW SMD 166-3064●	2.920	2.190	1.760
804	MICR			Physical Layer Transceiver 10/100BASE-T/TX/FX.		KSZ8041TL-EVAL	NEW 166-3065●	147.500	136.150	129.820
804	MICR			Physical Layer Transceiver 10/100BASE-T/TX/FX.		KSZ8041NL-EVAL	NEW 166-3066●	127.380	117.580	112.120
1039	LT	18	DIP	Triple RS232 Driver/Receiver with Shutdown.		LT1039ACN#PBF	NEW 166-3339●	5.110	3.840	3.060
1080	LT	18	DIP	Dual RS232 Driver/Receiver With shutdown		LT1080CN#PBF	113-6636●	5.760	3.260	2.420
1081	LT	16	DIP	Dual RS232 Driver/Receiver		LT1081CN#PBF	955-9710●	4.500	2.550	2.040
1133	LT	24	DIP	Enhanced, Low Power, RS232 Driver/Receiver. 3 Drivers/5 Receivers (enhanced LT1133CN).		LT1133ACN#PBF	956-0114●	6.860	3.890	3.080
1134	LT	24	DIP	Enhanced, Low Power, Quad RS232 Driver/Receiver		LT1134ACN#PBF	956-0122●	6.620	3.760	2.890
1180	LT	18	DIP	Enhanced, Low Power, Dual RS232 Driver/Receiver With shutdown		LT1180ACN#PBF	956-0246●	4.370	2.480	1.940
1180	LT	18	SOIC	Low Power RS232 Dual driver/receiver With 0.1µf capacitors.		LT1180ACSW#PBF	SMD 956-0254●	4.850	2.750	2.080
1180	LT	18	DIP	Low Power RS232 Dual driver/receiver With 0.1µf capacitors.		LT1180AIN,#PBF	113-6618●	5.370	3.530	2.870
1181	LT	16	DIP	Enhanced, Low Power, Dual RS232 Driver/Receiver		LT1181ACN#PBF	956-0262●	4.370	2.480	1.890
1181	LT	16	SOIC	Enhanced, Low Power, Dual RS232 Driver/Receiver		LT1181ACSW#PBF	SMD 956-0270●	4.850	2.750	2.150
1334	LT	28	SSOP	Single 5V RS232/RS485 Multiprotocol Transceiver.		LTC1334CG#PBF	NEW SMD 166-3610●	11.900	9.220	7.380
1334	LT	28	SSOP	Single 5V RS232/RS485 Multiprotocol Transceiver.		LTC1334IG#PBF	NEW SMD 166-3611●	13.730	10.650	8.510
1338	LT	28	SSOP	5V Low Power RS232 5-Driver/3-Receiver Transceiver		LTC1338CG#PBF	NEW SMD 166-3612●	9.260	7.170	5.740
1348	LT	28	SOIC	Low Power RS232 Transceiver		LTC1348CSW#PBF	SMD 956-1064●	7.680	4.390	3.460
1349	LT	28	SSOP	5V RS232 3-Driver/5-Receiver Transceiver with 2 Receivers Active in Shutdown		LTC1349CG#PBF	NEW SMD 166-3613●	8.690	6.740	5.390
1384	LT	18	DIP	Low Power, Dual RS232 Driver/Receiver, With Active in Shutdown mode.		LTC1384CN#PBF	956-1072●	6.140	3.500	2.620
1384	LT	18	SOIC	5V Low Power RS232 Transceiver With active receivers in shutdown mode		LTC1384CSW#PBF	SMD 956-1080●	6.140	3.500	2.620
1385	LT	20	SSOP	3.3V Low Power EIA/TIA-562 Transceiver		LTC1385CG#PBF	NEW SMD 166-3614●	6.640	5.150	4.120
1385	ADI	20	SSOP	Low Power, 3.3V Dual RS232, Transceiver With Driver Disable Mode and Complete Shutdown		ADM1385ARSZ	SMD 960-3654●	2.730	1.860	1.380
1386	LT	16	SOIC	Low Power EIA/TIA562 Transceiver		LTC1386CS#PBF	SMD 956-1099●	5.320	3.020	2.310
1387	LT	20	SSOP	Single 5V RS232/RS485 Multiprotocol Transceiver.		LTC1387CG#PBF	NEW SMD 166-3615●	8.340	6.470	5.180
1387	LT	20	SSOP	Single 5V RS232/RS485 Multiprotocol Transceiver.		LTC1387IG#PBF	NEW SMD 166-3617●	9.610	7.450	5.960
1387	LT	20	SOIC	Single 5V RS232/RS485 Multiprotocol Transceiver.		LTC1387ISW#PBF	NEW SMD 166-3618●	8.930	6.920	5.540
1387	LT	20	SOIC	RS232/RS485 Multiprotocol Transceiver		LTC1387CSW#PBF	SMD 956-1102●	8.030	4.550	3.730
1480	LT	8	DIP	3.3V Ultra-Low Power RS485 Transceiver		LTC1480CN8#PBF	113-6631●	4.500	2.540	2.040
1480	LT	8	DIP	3.3V Ultra-Low Power RS485 Transceiver (IND TEMP).		LTC1480IN8	386-2562▲	5.150	3.380	2.770
1480	LT	8	SOIC	3.3V Ultralow Power RS485 Transceiver		LTC1480CS8#PBF	NEW SMD 166-3633●	4.690	3.630	2.910
1480	LT	8	SOIC	3.3V Ultralow Power RS485 Transceiver		LTC1480IS8#PBF	NEW SMD 166-3634●	6.060	4.700	3.760
1481	LT	8	DIP	CMOS, Ultra Low Power, RS485 Driver/Receiver With shutdown		LTC1481CN8#PBF	113-6638●	2.610	1.490	1.120
1482	LT	8	SOIC	RS485 Transceiver with Carrier Detect & Receiver Fail-Safe		LTC1482CS8#PBF	NEW SMD 166-3635●	3.770	2.930	2.340
1483	LT	8	DIP	CMOS, Ultra Low Power, RS485 Driver Receiver With controlled slew rate, Low EMI emission and shutdown		LTC1483CN8#PBF	956-1226●	2.610	1.490	1.190
1483	LT	8	SOIC	Low Power RS485 Low EMI Transceiver With Shutdown		LTC1483CS8#PBF	SMD 956-1234●	3.190	1.810	1.460
1483	LT	8	DIP	UltraLow Power RS485 Low EMI Transceiver With Shutdown (IND TEMP)		LTC1483IN8#PBF	956-1242●	3.790	2.880	2.350
1483	MAX	8	DIP	CMOS, Ultra-Low-Power, RS-485/RS-422 Transceiver With limited slew rate, Low EMI and shutdown.		MAX1483CPA+	972-3870●	2.120	1.440	1.180
1484	LT	8	MSOP	RS485 Transceiver with Receiver Fail-Safe.		LTC1484CMS8#PBF	NEW SMD 166-3636●	3.900	3.020	2.420
1484	LT	8	SOIC	RS485 Transceiver with Receiver Fail-Safe.		LTC1484CS8#PBF	NEW SMD 166-3637●	3.200	2.490	1.990
1484	LT	8	SOIC	RS485 Transceiver with Receiver Fail-Safe.		LTC1484IS8#PBF	NEW SMD 166-3638●	4.230	3.280	2.620
1485	ADI	8	SOIC	5V High Speed Ultra-Low Power EIA RS-485 Transceiver		ADM1485JRZ	NEW SMD 166-1057●	1.490	1.160	0.940

RL Re-reeling available

Line Drivers and Receivers - continued

	Mftr.	Pins	Pkg	Description	Propagation Delay	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
Transmitters/Receivers										
1485	LT	8	SOIC	Single Differential Bus Transceiver		LTC1485CS8#PBF	NEW SMD 166-3639	3.290	2.550	2.040
1485	NSC	8	SOIC	5V Low Power RS-485 Differential Bus Transceiver		LMS1485M	SMD 949-0701	1.460	1.070	0.880
1486	MAX	10	SOIC	CMOS, Software-selectable, RS-485/RS-422 Transceiver With limited slew rate and shut-down mode		MAX1486CUB+	SMD 972-3889	2.050	1.430	1.170
1487	ADI	8	SOIC	Half-Duplex Transceiver RS485/422		ADM1487EARZ	SMD 143-9013	2.470	1.680	1.250
1487	NSC	8	SOIC	5V Low Power RS-485 / RS-422 Differential Bus Transceiver		LMS1487CM	SMD 949-0710	1.720	1.230	1.060
1487	NSC	8	SOIC	Low Power RS-485/RS-422 Differential Bus Transceiver		LMS1487ECM	SMD 818-1497	1.550	1.310	1.050
1487	NSC	8	DIP	Low Power RS-485/RS-422 Differential Bus Transceiver		LMS1487ECNA	818-1500	1.590	1.350	1.090
1487	NSC	8	SOIC	Low Power RS-485/RS-422 Differential Bus Transceiver		LMS1487EIM	SMD 818-1519	1.660	1.390	1.120
1487	NSC	8	SOIC	5V Low Power RS-485 / RS-422 Differential Bus Transceiver		LMS1487IM	SMD 949-0736	1.740	1.230	1.060
1487	LT	8	DIP	CMOS, Ultra Low Power, RS485 Driver/Receiver as LTC1483CN8, With High impedance receiver Inputs		LTC1487CN8#PBF	956-1269	2.610	1.490	1.190
1487	LT	8	SOIC	Differential Line Transceiver With Shutdown and High Input Impedance		LTC1487CS8#PBF	SMD 956-1277	3.190	1.810	1.460
1687	LT	14	SOIC	Single 52Mbps Precision Delay RS485 Fail-Safe Transceiver		LTC1687IS#PBF	NEW SMD 166-3663	8.810	6.820	5.460
1690	LT	8	SOIC	Differential Driver and Receiver Pair with Fail-Safe Receiver O/P		LTC1690CS8#PBF	NEW SMD 166-3667	3.200	2.490	1.990
1781	LT	16	DIP	Dual Low Power 5V RS232 Dual Driver/Receiver		LT1781CN#PBF	NEW 166-3494	4.970	3.730	2.990
1785	LT	8	SOIC	60V Fault Protected RS485/RS422 Transceiver		LT1785ACS8#PBF	NEW SMD 166-3496	4.570	3.540	2.840
1785	LT	8	SOIC	60V Fault Protected RS485/RS422 Transceiver		LT1785AIS8#PBF	NEW SMD 166-3497	5.450	4.090	3.270
1785	LT	8	SOIC	60V Fault Protected RS485/RS422 Transceiver		LT1785CS8#PBF	NEW SMD 166-3498	3.890	2.930	2.340
1785	LT	8	DIP	60V Fault Protected RS485/RS422 Transceiver		LT1785IN8#PBF	NEW 166-3499	4.370	3.280	2.620
1785	LT	8	SOIC	60V Fault Protected RS485/RS422 Transceiver		LT1785IS8#PBF	NEW SMD 166-3500	4.510	3.380	2.700
1785	LT	8	DIP	60V Fault Protected RS485/RS422 Transceivers With fail-safe Inputs		LT1785ACN8#PBF	956-0696	4.370	2.850	2.180
1785	LT	8	DIP	60V Fault Protected RS485/RS422 Transceivers With fail-safe Inputs (IND TEMP)		LT1785AIN8#PBF	956-0700	5.320	3.020	2.310
1785	LT	8	DIP	60V Fault Protected RS485/RS422 Transceivers		LT1785CN8#PBF	956-0718	3.780	2.140	1.620
1791	LT	14	SOIC	Single 60V Fault Protected RS485/RS422 Transceiver		LT1791AIS#PBF	NEW SMD 166-3505	6.040	4.530	3.620
1791	LT	14	DIP	Single 60V Fault Protected RS485/RS422 Transceiver		LT1791CN#PBF	NEW 166-3506	4.140	3.110	2.490
1791	LT	14	SOIC	Single 60V Fault Protected RS485/RS422 Transceiver		LT1791CS#PBF	NEW SMD 166-3507	4.260	3.190	2.550
1791	LT	14	SOIC	Single 60V Fault Protected RS485/RS422 Transceiver		LT1791IS#PBF	NEW SMD 166-3508	4.850	3.630	2.910
1796	LT	8	SOIC	Overvoltage Fault Protected CAN Transceiver		LT1796CS8#PBF	NEW SMD 166-3510	2.840	2.130	1.700
2483	ADI	16	WSOIC	Slew-Rate Limited Isolated RS-485 Transceiver		ADM2483BRWZ	SMD 143-9014	5.080	3.960	3.120
2485	ADI	16	WSOIC	High Speed, Isolated RS-485 Transceiver with Integrated Transformer Driver		ADM2485BRWZ	SMD 143-9015	8.940	6.850	5.810
2486	ADI	16	SOIC	High Speed, Half-Duplex iCoupler Isolated RS-485 Transceiver		ADM2486BRWZ	SMD 107-8207	8.260	6.340	5.380
2490	ADI	16	WSOIC	High Speed ESD Protected Full-Duplex iCoupler® Isolated RS-485 Transceiver		ADM2490EBRWZ	NEW SMD 143-9016	7.600	5.940	4.690
2804	LT	16	SSOP	1.8V to 5.5V RS-232 Dual Transceiver		LTC2804IGN-1#PBF	NEW SMD 166-3698	4.300	3.340	2.670
2850	LT	8	DFN	Single 3.3V 20Mbps RS485/422 Transceiver		LTC2850HDD#PBF	NEW SMD 162-8764	3.100	2.760	2.250
2850	LT	8	MSOP	3.3V 20Mbps RS485/RS422 Transceiver		LTC2850IMS8#PBF	NEW SMD 166-3699	3.190	2.470	1.980
2850	LT	8	SOIC	3.3V 20Mbps RS485/RS422 Transceiver		LTC2850IS8#PBF	NEW SMD 166-3700	3.190	2.470	1.980
2851	LT	8	MSOP	3.3V 20Mbps RS485/RS422 Transceiver		LTC2851IMS8#PBF	NEW SMD 166-3701	3.380	2.620	2.100
2851	LT	8	DFN	Single 3.3V 20Mbps RS485/422 Transceiver		LTC2851IDD#PBF	NEW SMD 162-8765	2.930	2.610	2.120
2851	LT			Single 3.3V 20Mbps RS485/422 Transceiver		LTC2851IS8#PBF	NEW 162-8766	2.930	2.610	2.120
2852	LT	10	MSOP	3.3V 20Mbps RS485/RS422 Transceiver		LTC2852IMS#PBF	NEW SMD 166-3702	3.380	2.620	2.100
2852	LT			Single 3.3V 20Mbps RS485/422 Transceiver		LTC2852IDD#PBF	NEW 162-8767	2.930	2.610	2.120
2856	LT	8	MSOP	Single 20Mbps Slew Rate Limited 15kV RS485/422 Transceiver		LTC2856HMS8-1#PBF	NEW SMD 162-8769	3.100	2.760	2.250
2856	LT	8	MSOP	Single 0.25Mbps Slew Rate Limited 15kV RS485/422 Transceiver		LTC2856HMS8-2#PBF	NEW SMD 162-8771	3.100	2.760	2.250
2857	LT	8	MSOP	Single 20Mbps Slew Rate Limited 15kV RS485/422 Transceiver		LTC2857HMS8-1#PBF	NEW SMD 162-8772	3.310	2.950	2.420
2857	LT	8	MSOP	Single 0.25Mbps Slew Rate Limited 15kV RS485/422 Transceiver		LTC2857HMS8-2#PBF	NEW SMD 162-8773	3.310	2.950	2.420
2858	LT	8	MSOP	Single 20Mbps Slew Rate Limited 15kV RS485/422 Transceiver		LTC2858HMS-1#PBF	NEW SMD 162-8774	3.310	2.950	2.420
2858	LT	8	MSOP	Single 0.25Mbps Slew Rate Limited 15kV RS485/422 Transceiver		LTC2858HMS-2#PBF	NEW SMD 162-8775	3.310	2.950	2.420
2861	LT	16	SSOP	20Mbps RS485 Transceivers with Integrated Switchable Termination		LTC2861CGN#PBF	NEW SMD 166-3703	3.190	2.470	1.980
3070	ADI	14	SOIC	Full-Duplex, RS-485/RS-422 Transceivers		ADM3070EARZ	SMD 133-1034	3.110	2.120	1.580
3071	ADI	8	SOIC	3.3V ±15kV ESD Protected Full Duplex Transceiver w/250kbps Data Rate		ADM3071EARZ	SMD 143-9018	3.020	2.060	1.540
3072	ADI	8	SOIC	3.3V ±15kV ESD Protected Half Duplex Driver/Receiver Enable Transceiver w/250kbps		ADM3072EARZ	SMD 143-9019	2.900	1.980	1.470
3073	ADI	14	SOIC	3.3V ±15kV ESD Protected Full Duplex Driver/Receiver Enable Transceiver w/500kbps		ADM3073EARZ	SMD 143-9020	3.110	2.120	1.580
3074	ADI	8	SOIC	3.3V ±15kV ESD Protected Full Duplex Transceiver w/500kbps		ADM3074EARZ	SMD 143-9021	2.900	1.980	1.470
3075	ADI	8	SOIC	3.3V ±15kV ESD Protected Half Duplex Driver/Receiver Enable Transceiver w/500kbps		ADM3075EARZ	SMD 143-9022	2.550	1.970	1.470
3076	ADI	14	SOIC	3.3V ±15kV ESD Protected Full Duplex Driver/Receiver Enable Transceiver w/16Mbps		ADM3076EARZ	SMD 143-9023	3.110	2.120	1.580
3077	ADI	8	SOIC	3.3V ±15kV ESD Protected Full Duplex Transceiver w/16Mbps		ADM3077EARZ	SMD 143-9024	3.020	2.060	1.540
3078	ADI	8	SOIC	3.3V ±15kV ESD Protected Half Duplex Driver/Receiver Enable Transceiver w/16Mbps		ADM3078EARZ	SMD 143-9025	2.970	2.020	1.500
3082	MAX	8	DIP	CMOS, RS-485/RS-422 Transceiver With limited slew rate, shutdown mode and fail-safe feature		MAX3082CPA+	972-3897	2.660	1.720	1.160
3082	MAX	8	SOIC	CMOS, RS-485/RS-422 Transceiver With limited slew rate, shutdown mode and fail-safe feature		MAX3082CSA+	SMD 972-3900	2.660	1.720	1.160
3085	MAX	8	SOIC	High-speed , slew rate limited RS485/422 transceiver		MAX3085CSA+	SMD 972-5407	2.590	1.740	1.290
3086	MAX	14	SOIC	High-speed , slew rate limited RS485/422 transceiver		MAX3086CSD+	SMD 972-5415	2.660	1.720	1.160
3089	MAX	14	DIP	CMOS, RS-485/RS-422 Transceiver With selectable slew rate, shutdown mode and fail-safe feature		MAX3089CPD+	118-7933	2.180	1.480	1.270
3160	MAX	20	SSOP	RS232/RS485/RS422 multiprotocol Transceiver		MAX3160CAP+	SMD 972-5431	11.910	7.740	5.230
3202	ADI	16	SOIC	Transceiver, Rs-232, 3.3V, 460 kbps		ADM3202ARNZ	SMD 133-3250	1.590	1.500	1.160
3202	ADI	16	TSSOP	Low Power, 3.3V RS232 Transceiver. 2 Drivers/2 Receivers (TSSOP)		ADM3202ARUZ	SMD 942-5586	1.670	1.280	1.110
3221	TI	16	SSOP	Single Channel RS232 Line Driver/Receiver		MAX3221IDB.	NEW SMD 164-8738	0.790	0.630	0.530
3221	INTS	16	SSOP	RS232 CMOS Transmitter/Receiver, 256kbps data rate, 1µA supply, +3V to +5.5V		ICL3221CAZ	SMD 966-3924	1.490	0.870	0.550
3221	MAX	16	SSOP	RS232 Transmitter/Receiver With shutdown mode. (SSOP, IND TEMP)		MAX3221CAE+	SMD 972-4508	2.520	1.620	1.190
3221	TI	16	SSOP	3V to 5.5V Single-Channel RS-232 Line Driver/Receiver		MAX3221CDBE4	SMD 105-3617	0.950	0.680	0.550
3221	TI	16	TSSOP	3V to 5.5V Single-Channel RS-232 Line Driver/Receiver		MAX3221CPWE4	SMD 105-3614	0.950	0.680	0.550
3221	MAX	16	SSOP	RS232 Transmitter/Receiver With shutdown mode. (SSOP, IND TEMP)		MAX3221EAE+	SMD 972-5440	3.610	2.320	1.710
3221	MAX	16	SSOP	RS232 Transmitter/Receiver With shutdown mode. (SSOP, IND TEMP)		MAX3221ECAE+	SMD 972-5458	2.900	1.870	1.380
3221	MAX	16	SSOP	RS232 Transmitter/Receiver With shutdown mode. (SSOP, IND TEMP)		MAX3221EEAE+	SMD 972-5466	4.160	2.670	1.970
3221	TI	16	TSSOP	3-V to 5.5-V Single-Channel RS-232 Line Driver/Receiver		MAX3221EIPWG4	SMD 149-4911	0.820	0.650	0.490
3221	TI	16	SSOP	3V to 5.5V Single-Channel RS-232 Line Driver/Receiver		MAX3221IDBE4	SMD 105-3611	0.980	0.680	0.550
3221	TI	16	TSSOP	3V to 5.5V Single-Channel RS-232 Line Driver/Receiver		MAX3221IPWG4	SMD 105-3606	0.950	0.710	0.550
3221	INTS	16	TSSOP	1Microamp, 250kbps, RS-232 Single Transmitter/Receiver		ICL3221ECVZ	NEW SMD 156-1925	1.230	0.930	0.740
3221	INTS	16	TSSOP	1 Tx/1 Rx RS232 Transceiver 250kbps		ICL3221CVZ	NEW SMD 156-1962	1.230	0.930	0.740
3221	INTS	16	SSOP	ESD Protected 1 Tx/1 Rx RS232 Transceiver 250kbps		ICL3221ECAZ	NEW SMD 156-1963	1.230	0.930	0.740
3221	INTS	16	SSOP	ESD Protected 1 Tx/1 Rx RS232 Transceiver 250kbps		ICL3221EIAZ	NEW SMD 156-1964	1.570	1.180	0.940
3223	INTS	20	SSOP	2 Tx/2 Rx RS232 Transceiver 250kbps		ICL3223CAZ	NEW SMD 156-1965	1.210	0.940	0.780
3222	ADI	20	TSSOP	2-Channel RS232/V.28 Interface Device with 460kBPS		ADM3222ARUZ	NEW SMD 166-1060	1.960	1.530	1.250
3222	TI	20	SSOP	RS232 500kbit/s 2 Line Driver & 2 Line Reciever		MAX3222ECDB	NEW SMD 162-4415	1.470	1.110	0.850
3222	TI	20	TSSOP	3-V to 5.5-V Multichannel RS-232 Line Driver/Receiver	300ns	MAX3222CPW	SMD 146-0364	1.150	0.920	0.700
3222	TI	20	TSSOP	3-V to 5-V Multichannel RS-232 Line Driver/Receiver w/ ±15-kV ESD Protection		MAX3222EIPWG4	SMD 149-4912	1.190	0.940	0.710
3222	ADI	18	DIP	Low Power, RS232 Transceiver With auto-shutdown. 2 Drivers/2 Receivers.		ADM3222ANZ	107-9324	1.900	1.470	1.110
3222	INTS	20	SSOP	RS232 CMOS 2 Transmitters/2 Receiver, 256kbps data rate, 1µA supply, +3V to +5.5V		ICL3222CAZ	SMD 966-3932	2.280	1.150	0.780
3222	INTS	18	SOIC	RS232 CMOS Transmitter/Receiver, 256kbps data rate, 1µA supply, +3V to +5.5V		ICL3222CBZ	SMD 966-3940	2.280	1.150	0.780
3222	INTS	18	DIP	RS232 CMOS 2 Transmitters/2 Receivers, 256kbps data rate, 1µA supply, +3V to +5.5V		ICL3222CPZ	120-1544	2.250	1.450	1.210
3222	MAX	18	DIP	Low Power, RS232 Transceiver. 2 Drivers/2 Receivers.		MAX3222CPN+	118-8044	3.740	2.400	1.760
3223	TI	20	SSOP	3-V to 5.5-V Multichannel RS-232 Line Driver/Receiver		MAX3223CDB	SMD 146-0367	1.020	0.820	0.600
3223	INTS	20	DIP	RS232 CMOS 2 Transmitters/2 Receivers 256kbps data rate, 1µA supply, +3V to +5.5V		ICL3223CPZ	120-1545	1.780	1.520	1.340
3223	MAX	20	SSOP	Low Power, RS232 Transceiver With auto-shutdown. 2 Drivers/2 Receivers.		MAX3223CAP+	SMD 972-5474	3.430	2.550	2.040
3223	MAX	20	SSOP	Low Power, RS232 Transceiver With auto-shutdown. 2 Drivers/2 Receivers.		MAX3223EAP+	SMD 972-5482	4.820	3.100	2.290
3223	TI	20	TSSOP	3-V to 5-V Multichannel RS-232 Line Driver/Receiver w/ ±15-kV ESD Protection		MAX3223ECPWG4	SMD 149-4913	1.030	0.830	0.620
3223	TI	20	SSOP	3-V to 5-V Multichannel RS-232 Line Driver/Receiver w/ ±15-kV ESD Protection		MAX3223EIDBG4	SMD 149-4914	1.030	0.830	0.620

RL Re-reeling available

	Mftr.	Pins	Pkg	Description	Propagation Delay	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
Transmitters/Receivers										
3224	MAX	20	SSOP	CMOS, RS232 Transmitter/Receiver With auto-shutdown/wake-up features, 3V Powered and ±15kV ESD protected (SSOP)		MAX3224ECAP+	SMD 972-3927	4.500	2.880	2.130
3225	INTS	20	SSOP	RS232 CMOS 2 Transmitters/2 Receivers, 1Mbps data rate, 1µA supply, +3V to +5.5V, ±15kV ESD Protected.		ICL3225ECAZ	SMD 966-3959	1.660	1.430	1.110
3225	INTS	20	DIP	Dual RS232 Tx/Rx		ICL3225ECP	412-6762	3.580	2.210	1.830
3225	INTS	20	DIP	RS232 CMOS 2 Transmitters/2 Receivers, 1Mbps data rate, 1µA supply, +3V to +5.5V, ±15kV ESD Protected.		ICL3225ECPZ	121-6114	2.820	2.420	1.880
3227	TI	16	SSOP	3-V to 5.5-V Single-Channel RS-232 Line Driver/Receiver.		MAX3227EIDBG4	SMD 149-4915	1.190	0.940	0.710
3227	INTS	16	SSOP	RS232 CMOS Transmitter/Receiver, 1Mbps data rate, 1µA supply, +3V to +5.5V, ±15kV ESD Protected.		ICL3227ECAZA	SMD 120-2822	1.980	1.690	1.330
3232	TI	16	SOIC	250KBPS Multichannel RS-232 Dual Driver/Receiver	300ns	MAX3232CDR	NEW SMD 156-4957	1.210	0.990	0.890
3232	TI	16	SOIC	RS-232 1Mbit/s Dual Driver/ Receiver with ESD Protection	300ns	TRSF3232EID	NEW SMD 160-3424	1.340	1.060	0.850
3232	TI	16	TSSOP	3-V to 5.5-V Multichannel RS-232 Line Driver/Receiver		MAX3232IPW	SMD 146-0375	0.950	0.770	0.570
3232	ST	16	TSSOP	3 to 5.5V, Low power, up to 400Kbps RS-232 Driver and Receiver.		ST3232CTR	SMD 136-6572	1.930	1.590	1.140
3232	INTS	16	SOIC	RS232 CMOS 2 Transmitters/2 Receivers, 256kbps data rate, 1µA supply, +3V to +5.5V.		ICL3232CBNZ	SMD 966-3975	1.570	0.760	0.490
3232	INTS	16	SOIC	RS232 CMOS 2 Transmitters2 Receivers, 256kbps data rate, 1µA supply, +3V to +5.5V.		ICL3232CBZ	SMD 966-3967	0.620	0.560	0.510
3232	INTS	16	DIP	RS232 CMOS 2 Transmitters/2 Receivers, 256kbps data rate, 1µA supply, +3V to +5.5V.		ICL3232CPZ	120-1546	2.250	1.450	1.210
3232	TI	16	SSOP	3-V to 5.5-V Multichannel RS-232 Line Driver/Receiver		MAX3232CDBE4	SMD 128-7435	1.070	0.910	0.710
3232	TI	16	SOIC	3-V to 5.5-V Multichannel RS-232 Line Driver/Receiver		MAX3232CDE4	SMD 128-7437	1.070	0.910	0.710
3232	MAX	16	DIP	Low Power, RS232 Transmitter/Receiver, 2 Drivers/2 Receivers(mAX232 compatible)		MAX3232CPE+	972-4494	3.340	2.300	1.850
3232	TI	16	TSSOP	3-V to 5.5-V Multichannel RS-232 Line Driver/Receiver		MAX3232CPWG4	SMD 128-7432	0.970	0.830	0.640
3232	MAX	16	SOIC	Low Power, RS232 Transmitter/Receiver, 2 Drivers/2 Receivers(Narrow package, mAX232 compatible)		MAX3232CSE+	SMD 972-5490	3.740	2.400	1.760
3232	MAX	16	SOIC	Low Power, RS232 Transmitter/Receiver, 2 Drivers/2 Receivers(Wide package, mAX232 compatible)		MAX3232CWE+	SMD 972-5504	3.430	2.550	2.040
3232	MAX	16	SSOP	Low Power, RS232 Transmitter/Receiver, 2 Drivers/2 Receivers(mAX232 compatible)		MAX3232ECAE+	SMD 972-5512	4.500	2.880	2.130
3232	TI	16	SOIC	3-V to 5.5-V Multichannel RS-232 Line Driver/Receiver With ±15kV IEC ESD Protection		MAX3232ECDG4	SMD 149-4916	0.930	0.760	0.560
3232	TI	16	SSOP	3-V to 5.5-V Multichannel RS-232 Line Driver/Receiver With ±15kV IEC ESD Protection		MAX3232ECDBG4	SMD 149-4917	0.930	0.760	0.560
3232	MAX	16	SOIC	Low Power, RS232 Transmitter/Receiver, 2 Drivers/2 Receivers(mAX232 compatible)		MAX3232ECWE+	SMD 972-5520	4.500	2.880	2.130
3232	TI	16	SSOP	3-V to 5.5-V Multichannel RS-232 Line Driver/Receiver With ±15kV IEC ESD Protection		MAX3232EIDBG4	SMD 149-4918	0.930	0.760	0.560
3232	TI	16	SOIC	3-V to 5.5-V Multichannel RS-232 Line Driver/Receiver With ±15kV IEC ESD Protection		MAX3232EIDWG4	SMD 149-4919	0.930	0.760	0.560
3232	TI	16	TSSOP	Multichannel RS-232 Line Driver/Receiver		MAX3232EIPWG4	SMD 149-4920	0.930	0.760	0.560
3232	MAX	16	SOIC	Low Power, RS232 Transmitter/Receiver, 2 Drivers/2 Receivers(Narrow Package, mAX232 compatible)		MAX3232ESE+	SMD 972-5539	4.820	3.100	2.290
3232	INTS	16	TSSOP	2 Tx/2 Rx RS232 Transceiver 250kbps		ICL3232CVZ	NEW SMD 156-1966	0.910	0.690	0.550
3232	INTS	16	TSSOP	ESD Protected 2 Tx/2 Rx RS232 Transceiver 250kbps		ICL3232ECV-16Z	NEW SMD 156-1967	2.480	1.860	1.490
3232	INTS	16	TSSOP	ESD Protected 2 Tx/2 Rx RS232 Transceiver 250kbps		ICL3232EIV-16Z	NEW SMD 156-1968	3.520	2.650	2.110
3232	INTS	16	SSOP	Dual ESD Protected 250kbps RS-232 Transceiver		ICL3232ECAZ	NEW SMD 156-1987	1.630	1.220	0.970
3232	INTS	16	SSOP	250kbps RS-232 Transceiver 2 Tx/ 2 Rx		ICL3232CAZ	NEW SMD 156-2048	2.010	1.500	1.200
3237	TI	28	TSSOP	RS232 1Mbit/s 5 Line Driver & 3 Line Reciever		MAX3237EIPW	NEW SMD 162-4414	1.730	1.290	0.990
3238	MAX	28	SSOP	CMOS, RS232 Transmitter/Receiver, 5 Drivers/3 Receivers, With auto-shutdown, 3V Powered (SSOP)		MAX3238EAI+	SMD 972-3935	9.590	6.160	5.360
3241	MAX	28	SSOP	CMOS RS232 Tranceiver, 3 Drivers/5 Recievers With auto shutdown, 250kbps data rate and ±15kV ESD protection, 3V to 5.5V supply. (SSOP)		MAX3241ECAI+	SMD 972-4940	7.800	5.010	3.690
3243	TI	28	SSOP	Multichannel RS232 Line Driver/Receiver With ESD Protection		MAX3243CDB.	NEW SMD 164-8739	0.790	0.630	0.530
3243	TI	28	TSSOP	3 Tx & 5 Rx Multichannel RS-232 with ESD Protection.	150ns	MAX3243CPWR	NEW SMD 156-4899	1.120	0.920	0.820
3243	INTS	28	SSOP	RS232 CMOS 3 Transmitters/5 Receivers, 256kbps data rate, 1µA supply, +3V to +5.5V.		ICL3243CAZ	SMD 966-3983	2.950	1.830	1.530
3243	INTS	28	SOIC	RS232 CMOS 3 Transmitters/5 Receivers, 256kbps data rate, 1µA supply, +3V to +5.5V.		ICL3243CBZ	SMD 966-3991	3.300	2.080	1.710
3243	MAX	28	SSOP	CMOS RS232 Transciever, 3 Drivers/5 Recievers With Low Power shutdown, 250kbpts data rate and ±15kV ESD protection. (SSOP)		MAX3243ECAI+	SMD 972-4958	7.800	5.010	3.690
3243	TI	28	SSOP	3V to 5.5V Multichannel RS-232 Line Driver/Receiver With ±15kV ESD (HBM) Protection		MAX3243ECDB	SMD 105-3601	0.970	0.640	0.530
3243	TI	28	SOIC	3V to 5.5V Multichannel RS-232 Line Driver/Receiver With ±15kV ESD (HBM) Protection		MAX3243ECDW	SMD 105-3599	1.000	0.710	0.560
3243	TI	28	SSOP	3V to 5.5V Multichannel RS-232 Line Driver/Receiver With ±15kV ESD (HBM) Protection		MAX3243EIDB	SMD 105-3597	1.160	0.850	0.660
3243	TI	28	SOIC	3V to 5.5V Multichannel RS-232 Line Driver/Receiver With ±15kV ESD (HBM) Protection		MAX3243EIDW	SMD 105-3595	0.910	0.610	0.520
3243	TI	28	TSSOP	3-V to 5.5-V Multichannel RS-232 Line Driver/Receiver With ±15kV IEC ESD Protection		MAX3243EIPWG4	SMD 149-4921	0.850	0.680	0.520
3311	ADI	28	TSSOP	3V RS-232 Serial Port Driver-Receiver		ADM3311EARUZ	NEW SMD 166-1062	2.450	1.900	1.560
3311	ADI	28	SOIC	CMOS, RS232 Transmitter/Receiver With auto-shutdown, 3V Powered and ±15kV ESD protected. 3 Drivers/5 Receivers		ADM3311EARSZ	SMD 942-5802	2.030	1.550	1.280
3471	MAX	8	SOIC	CMOS. Differential Transceiver (RS-485/RS-422) With fail-safe receiver Input.		MAX3471CUA+	SMD 972-3943	2.850	1.960	1.740
3483	ADI	8	SOIC	3.3 V Slew Rate Limited Half - Duplex Low Power Tranceiver		ADM3483ARZ	SMD 127-4169	2.130	1.460	1.050
3483	MAX	8	DIP	RS485/RS422, 3.3V - Low Power Transmitter/Receiver, With slew-rate limited driver		MAX3483CPA+	118-8019	3.120	2.200	1.690
3483	ADI	8	SOIC	3.3 V, ±15 kV ESD-Protected, 250kbps Half-Duplex Transceiver		ADM3483EARZ	SMD 143-9026	2.190	1.720	1.280
3485	ADI	8	SOIC	3.3 V Half Duplex Low Power Transceiver.		ADM3485ARZ	SMD 127-4167	2.130	1.450	1.080
3485	MAX	8	DIP	RS485/RS422, 3.3V - Low Power Transmitter/Receiver, transmits up to10Mbps		MAX3485CPA+	118-8020	2.260	1.600	1.260
3485	ADI	8	SOIC	ESD Protected, EMC Compliant, 3.3V, 20 Mbps, EIA RS-485 Transceiver		ADM3485EARZ	SMD 143-9027	2.070	1.450	1.110
3486	ADI	8	SOIC	3.3 V, ±15 kV ESD-Protected, Half-Duplex Transceiver		ADM3486EARZ	SMD 143-9028	2.190	1.720	1.280
3488	ADI	8	SOIC	3.3 V Slew - Rate Limited, Full Duplex Low Power Transceiver		ADM3488ARZ	SMD 127-4166	2.130	1.460	1.050
3488	ADI	8	SOIC	3.3 V, ±15 kV ESD-Protected, 250kbps Full-Duplex Transceiver.		ADM3488EARZ	SMD 143-9031	2.520	1.720	1.280
3490	ADI	8	SOIC	3.3 V, ±15 kV ESD-Protected, Full-Duplex Transceiver.		ADM3490EARZ	SMD 143-9032	2.630	1.790	1.330
3490	ADI	8	SOIC	3.3 V Full - Duplex Low Power Transceiver.		ADM3490ARZ	SMD 127-4165	2.130	1.450	1.080
3491	ADI	14	SOIC	3.3 V, ±15 kV ESD-Protected, Full-Duplex Transceiver Featuring Enable Inputs for the Driver & Receiver		ADM3491EARZ	SMD 143-9033	2.730	1.860	1.380
3491	ADI	14	SOIC	RS485/RS422, 3.3V - Low Power Transmitter/Receiver With Shutdown Mode, transmits up to 20Mbps		ADM3491ARZ	SMD 942-5594	1.850	1.360	1.030
3493	ADI	8	SOIC	3.3 V Slew Rate Limited, Half Duplex RS-485/RS-422 Transceiver		ADM3493ARZ	SMD 127-4164	2.030	1.380	1.030
3676	NSC	8	SOIC	FailSafe Multipoint Transceiver		DS36276M/NOPB	NEW SMD 168-5503	2.160	1.680	1.370
3695	NSC	8	DIP	Multipoint RS485/RS422 Transceivers/Repeaters		DS3695TN/NOPB	NEW 168-5515	1.250	0.970	0.790
3695	NSC	8	SOIC	Differential Bus Transceiver (RS485/RS422)		DS3695AM	SMD 949-3409	1.190	0.980	0.900
3695	NSC	8	DIP	Differential Bus Transceiver (RS485/RS422)		DS3695N	948-7166	1.270	1.040	0.960
3696	NSC	8	DIP	Differential Bus Transceiver With line fault reporting (RS485/RS422)		DS3696N	948-7182	1.780	1.460	1.340
3696	NSC	8	DIP	Differential Bus Transceiver With line fault reporting (RS485/RS422)		DS3696N.	403-520	4.030	2.980	2.220
4310	ADI	10	MSOP	Dual, High Current Output Line Driver with Shutdown		ADA4310-1ARHZ	SMD 149-8722	2.780	2.030	1.580
6002	TI	20	SOIC	Dual Differential Line Driver and Receiver, ±4 to ±16V, -40 to +85°CTemp. Range.		THS6002IDWP	SMD 121-4370	7.040	5.490	4.130
6555	NSC	16	LLP	Low Distortion 1.2 GHz Differential Driver from the PowerWise® Family		LMH6555SQE	SMD 149-5067	9.520	7.620	6.360
8487	INTS	8	SOIC	250kbps Half Duplex ESD Protected RS-485/RS-422 Transceiver.		ISL8487EIBZ	NEW SMD 156-2023	2.070	1.550	1.230
8921	NSC	8	MDIP	Differential Line Driver and Receiver Pair	12ns	DS8921N/NOPB	NEW 156-4612	0.930	0.770	0.640
8921	NSC	8	DIP	RS422 Differential Line Driver and Receiver Pair		DS8921N	948-8014	1.150	0.940	0.860
8921	NSC	8	SOIC	Differential Line Driver and Receiver Pair		DS8921AM/NOPB	NEW SMD 168-5526	1.060	0.820	0.670
8922	NSC	16	DIP	RS-422 Dual Differential Line Driver and Receiver Pairs		DS8922AN/NOPB.	NEW 168-5482	1.760	1.370	1.120
8922	NSC	16	SOIC	RS-422 Dual Differential Line Driver and Receiver	12ns	DS8922M/NOPB	NEW SMD 156-4749	1.150	0.950	0.800
8923	NSC	16	SOIC	RS-422 Dual Differential Line Driver and Receiver	12ns	DS8923AM/NOPB	NEW SMD 156-4751	1.150	0.950	0.800
14185	NSC	20	SOIC	RS232 Driver/Receiver, 3 Drivers/5 Receivers, (Replaces one 1488 and two 1489s)		DS14185WM	SMD 949-4243	1.260	1.020	0.920
14196	NSC	20	SOIC	RS232 Driver/Receiver, 5 Drivers/3 Receivers, (Replaces two 1488s and one 1489)		DS14196WM	SMD 949-4235	0.640	0.550	0.470
36950	NSC	20	PLCC	Quad Differential Bus Transceiver		DS36950V/NOPB	NEW SMD 168-5512	10.820	8.900	7.280
43485	INTS	8	SOIC	BiCMOS 50Mbps RS485/422 Transceiver		ISL43485IBZ	NEW SMD 156-2054	1.750	1.300	1.040
75117	TI	8	PDIP	Differential Line Transceiver with Driver O/P Internally Connected to Receiver I/P.		SN75117P	NEW 156-4872	3.550	2.930	2.600
75155	TI	8	SOIC	RS-232 Line Driver / Receiver		SN75155D	SMD 110-3186	1.070	0.760	0.580
75155	TI	8	DIP	RS-232 Line Driver / Receiver		SN75155P	110-3035	1.070	0.760	0.580
75162	TI	24	SOIC	Octal General-Purpose Interface Bus Transceiver		SN75162BDWE4	SMD 123-6487	3.670	2.610	1.980
75176	NSC	8	DIP	Differential Bus Transceiver (RS485/RS422)		DS75176BN	948-7190	0.990	0.810	0.740
75176	NSC	8	DIP	Industrial Differential Bus Transceiver (RS485/RS422)		DS75176BTN	948-7204	0.990	0.810	0.740
75176	TI	8	SOIC	Differential Bus Transceiver		SN75176AD	SMD 959-2946	0.470	0.300	0.220
75176	TI	8	DIP	Differential Bus Transceiver (RS485/RS422)		SN75176AP	110-3022	0.470	0.300	0.220
75176	TI	8	SOIC	Differential Bus Transceiver (RS485/RS422)		SN75176BD	SMD 110-3176	0.470	0.300	0.220

RL Re-reeling available

Line Drivers and Receivers - continued

	Mftr.	Pins	Pkg	Description	Propagation Delay	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
Transmitters/Receivers										
75176	TI	8	DIP	Differential Bus Transceiver (RS485/RS422), (improved SN75176AP)		SN75176BP	110-6023	0.510	0.330	0.230
75179	TI	8	SOIC	Differential Driver And Receiver Pair		SN75179BD	SMD 959-2954	0.780	0.630	0.480
75179	TI	8	DIP	Differential Driver And Receiver Pair		SN75179BPE4	959-2962	0.930	0.790	0.620
75185	TI	20	SOIC	Multiple Rs-232 Drivers And Receivers		SN75185DWG4	SMD 128-7637	0.550	0.380	0.310
75186	TI	24	SOIC	Quadruple Driver/Receiver with Loopback		SN75186DWE4	123-6488	2.070	1.380	1.040
75232	TI	20	SOIC	Multiple Rs-232 Drivers And Receivers		GD75232DWE4	SMD 128-7429	0.260	0.197	0.146
75232	TI	20	PDIP	Multiple Rs-232 Drivers And Receivers		GD75232NE4	128-7426	0.220	0.168	0.124
75232	TI	20	SOIC	Multiple Rs-232 Drivers And Receivers		GD75232PWE4	SMD 128-7427	0.260	0.197	0.146
75323	TI	20	SOIC	Multiple Rs-232 Drivers And Receivers		GD75323DWE4	SMD 128-7428	0.420	0.300	0.220
83491	INTS	14	SOIC	BiCMOS 10Mbps Full Duplex RS485/422 Transceiver		ISL83491IBZ	NEW SMD 156-2055	1.630	1.220	0.970
83843	NSC	80	PQFP	Phyter		DP83843BVJE/NOPB	NEW SMD 168-5509	22.530	18.530	15.160
83846	NSC	80	LQFP	Single 10/100 Ethernet Transceiver		DP83846AVHG/NOPB	NEW SMD 168-5511	10.060	8.270	6.780
83847	NSC	56	LLP	Single 10/100 Ethernet Transceiver		DP83847ALQA56A/NOPB	NEW SMD 168-5782	3.670	3.020	2.470
83848	NSC	40	LLP	Single Port 10/100 Ethernet Transceiver		DP83848JSQ/NOPB	NEW SMD 168-5522	3.210	2.490	2.050
83848	NSC	40	LLP	Single Port 10/100 Ethernet Transceiver		DP83848KSQ/NOPB	NEW SMD 168-5523	4.270	3.320	2.720
83848	NSC	48	LQFP	Single Port 10/100 Mb/s Ethernet Physical Layer Transceiver		DP83848CVV/NOPB	NEW SMD 168-5784	5.720	4.710	3.850
92001	NSC	8	SOIC	3.3V B/LVDS-BLVDS Buffer		DS92001TMA/NOPB	NEW SMD 168-5783	2.000	1.650	1.350
96173	NSC	16	DIP	RS-485/RS-422 Quad Differential Line Receiver		DS96173CN/NOPB	NEW 168-5504	3.740	2.910	2.380
96176	NSC	8	DIP	RS-485/RS-422 Differential Bus Transceiver		DS96176CN/NOPB	NEW 168-5483	2.090	1.620	1.340
145406	NXP	16	SOIC	CMOS Triple RS232 Low Power Transmitter/Receiver		MC145406D	SMD 121-1743	1.520	1.290	1.110
145406	TI	16	SOIC	Triple RS-232 Driver/Receiver		TL145406DWE4	SMD 123-6515	1.340	0.980	0.720
Repeaters										
75178	TI	8	DIP	Repeater for RS485/RS422 line		SN75178BP	110-6031	2.010	1.370	0.980

ESD Protection RS-422/485 Triple/Quad Receivers

MAXIM

MAX3094
- 4 Receivers & 128 Rx/Tx on bus
- Single +3V Operation (MAX3094E)
- 10Mbps Data Rate
- 1nA Low-Power Shutdown Mode
- 2.4mA Operating Supply Current

MAX3095/6
- 4 Receivers & 128 Rx/Tx on bus
- Single +3V Operation (MAX3096)
- Single +5V Operation (MAX3095)
- 10Mbps Data Rate
- 1nA Low-Power Shutdown Mode

MAX3097
- 3 Receivers & 240 Rx/Tx on bus
- Supply Voltage +3V to +5.5V
- Supply Voltage -10V to +13.2V Extended Common-Mode Range
- Capacitor-Programmable Delay of Fault Indication
- Allows Error-Free Operation at Slow Data Rates
- Independent and Universal Fault Outputs
- 32Mbps Data Rate

ESD Protection:
- ±15kV-IEC 1000-4-2, Air-Gap Discharge
- ±8kV-IEC 1000-4-2, Contact Discharge
- ±15kV-Human Body Model

These devices are rugged, low-power, triple/quad, RS-422/RS-485 receivers featuring electrostatic discharge (ESD) protection for use in harsh environments.

496990

Pins/Package	Operating Temp. min/max	Mftrs. List No.	Order Code	Price Each 1+	25+	100+	250+	+
16 / TSSOP	-40 / 85	MAX3094EEUE+	SMD 137-9904	3.34	2.24	1.79	1.51	– –
16 / SOIC	0 / 70	MAX3095CSE+	SMD 137-9905	2.33	1.54	1.26	1.06	– –
16 / QSOP	-40 / 85	MAX3096EEE+	SMD 137-9906	3.34	2.24	1.79	1.51	– –
16 / SOIC	-40 / 85	MAX3096ESE+	SMD 137-9907	3.34	2.24	1.76	1.51	– –
16 / SOIC	0 / 70	MAX3097ECSE+	SMD 137-9908	7.80	5.01	3.39	2.82	– –

Transceivers

MAXIM

492595

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	25+	50+	100+	250+
207	MAX	24	SSOP	RS232 Transceiver	MAX207ECAG+	SMD 142-2295	6.45	4.43	3.67	3.28	3.10
208	MAX	24	SSOP	RS232 Transceiver	MAX208ECAG+	SMD 142-2296	6.45	4.43	3.67	3.28	3.10
3238	MAX	28	SSOP	RS232 Transceiver	MAX3238CAI+	SMD 142-2304	6.48	4.44	3.38	3.01	2.96
3238	MAX	28	SSOP	RS232 Transceiver	MAX3238EEAI+	SMD 142-2305	10.29	7.08	5.38	4.78	4.71
3241	MAX	28	SSOP	RS232 Transceiver	MAX3241CWI+	SMD 142-2306	6.48	4.44	3.68	3.19	2.96
3254	MAX	28	SSOP	RS232 Transceiver	MAX3245EEAI+	SMD 142-2307	10.30	7.08	6.13	5.15	4.79
1488	MAX	14	SOIC	Quad RS-232 Line Driver	MAX1488ECSD+	SMD 142-2289	1.85	1.25	0.92	0.76	0.73
1482	MAX	14	SOIC	RS-485 Transceivers	MAX1482CSD+	SMD 142-2283	2.50	1.61	1.18	0.99	0.93
1483	MAX	8	SOIC	RS-485 Transceivers	MAX1483CSA+	SMD 142-2284	2.04	1.43	1.16	1.07	0.97
1487	MAX	8	DIP	RS-485 Transceivers	MAX1487CPA+	142-2286	2.50	1.61	1.18	0.99	0.95
1487	MAX	8	SOIC	RS485/422 Transceivers	MAX1487CSA+	SMD 142-2287	2.04	1.43	1.16	1.07	0.97
1487	MAX	8	DIP	RS485/422 Transceiver	MAX1487ECPA+	142-2288	2.41	1.74	1.41	1.28	1.16
2155	MAX	100	LQFP	T1/E1/J1 Single-Chip Transceiver	DS2155LN+	SMD 137-9710	26.98	18.54	14.17	12.53	– –
3080	MAX	14	DIP	RS485/422 Transceiver	MAX3080CPD+	142-2298	2.38	1.64	1.25	1.11	1.09
3140	MAX	28	QSOP	UART with Single RS-485/RS-422 Transceiver	MAX3140CEI+	SMD 160-6632	5.73	4.58	4.18	3.82	3.20
3381	MAX	20	TSSOP	+2.35V to +5.5V, 1µA, 2Tx/2Rx RS-232 Transceivers with ±15kV ESD-Protected I/O and Logic Pins	MAX3381ECUP+	SMD 137-9712	5.40	3.73	2.95	2.50	– –
3490	MAX	8	SOIC	RS485/422 Transceiver	MAX3490ESA+	SMD 142-2310	4.10	2.82	2.14	1.90	1.87
3245	MAX	28	SSOP	1µA Supply Current, 1Mbps, 3.0V to 5.5V, RS-232 Transceivers with AutoShutdown Plus	MAX3245CAI+	SMD 137-9745	6.48	4.44	3.42	3.01	– –
1045	MAX	16	SOIC	4-Bit, Dual, Programmable Delay Line	DS1045S-3+	SMD 137-9746	22.40	16.29	11.35	11.06	– –
3471	MAX	8	MSOP	1.6µA, RS-485/RS-422, Half Duplex, Differential Transceiver for Battery-Powered Systems	MAX3471EUA+	SMD 137-9742	4.63	2.98	2.01	1.68	– –
3223	MAX	20	SSOP	±15kV ESD-Protected, 1µA, 3.0V to 5.5V, 250kbps, RS-232 Transceivers with AutoShutdown	MAX3223EEAP+	SMD 137-9754	6.43	4.13	3.04	2.53	– –
221	MAX	16	SSOP	±15kV ESD-Protected, +5V, 1µA, Single RS-232 Transceiver with AutoShutdown	MAX221ECAE+	SMD 137-9783	2.26	1.58	1.21	1.08	– –
221	MAX	16	TSSOP	±15kV ESD-Protected, +5V, 1µA, Single RS-232 Transceiver with AutoShutdown	MAX221ECUE+	SMD 137-9784	2.26	1.58	1.21	1.08	– –
3160	MAX	20	SSOP	+3.0V to +5.5V, 1µA, RS-232/RS-485/422 Multiprotocol Transceivers	MAX3160EAP+	SMD 137-9775	17.19	11.05	8.82	7.47	– –
3232	MAX	16	TSSOP	3.0V to 5.5V, Low-Power, up to 1Mbps, True RS-232 Transceivers Using Four 0.1µF External Capacitors	MAX3232EUE+	SMD 137-9769	4.82	3.10	2.09	1.74	– –
276	MAX	8	SOIC	Low Power Transceiver Chip	DS276S+	SMD 137-9757	6.97	4.63	2.75	2.59	– –
491	MAX	14	SOIC	±15kV ESD-Protected, Slew-Rate-Limited, Low-Power, RS-485/RS-422 Transceiver	MAX491EESD+	SMD 137-9758	4.23	2.91	2.24	1.97	– –
3225	MAX	20	SSOP	±15kV ESD-Protected, 1µA, 1Mbps, 3.0V to 5.5V, RS-232 Transceivers with AutoShutdown Plus	MAX3225ECAP+	SMD 137-9786	4.23	2.99	2.28	2.03	– –
3232	MAX	16	TSSOP	3.0V to 5.5V, Low-Power, up to 1Mbps, True RS-232 Transceivers Using Four 0.1µF External Capacitors	MAX3232EUE+	SMD 137-9769	4.82	3.10	2.09	1.74	– –
229	MAX	20	DIP	Triple RS-232 Transmitter/Receiver	DS229+	137-9831	5.70	3.82	3.08	2.60	– –
275	MAX	8	SOIC	Line-Powered RS-232 Transceiver Chip	DS275S+	SMD 137-9836	5.10	3.37	2.00	1.89	– –
1481	MAX	10	MSOP	Software-Selectable, Half-/Full-Duplex, Slew-Rate-Limited, 12Mbps, RS-485/RS-422 Transceiver	MAX1481EUB+	SMD 137-9852	2.96	2.04	1.55	1.38	– –
1487	MAX	8	SOIC	±15kV ESD-Protected, Slew-Rate-Limited, Low-Power, RS-485/RS-422 Transceivers	MAX1487ECSA+	SMD 137-9853	3.05	1.96	1.71	1.45	– –
208	MAX	24	SSOP	+5V, RS-232 Transceivers with 0.1µF External Capacitors	MAX208CAG+	SMD 137-9882	7.09	4.55	3.33	2.80	– –

RL Re-reeling available

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	25+	50+	100+	250+
221	MAX	16	SSOP	±15kV ESD-Protected, +5V, 1µA, Single RS-232 Transceiver with AutoShutdown	MAX221EEAE+	SMD 137-9883	3.10	2.13	1.64	1.44	– –
3070	MAX	14	SOIC	+3.3V, ±15kV ESD-Protected, Fail-Safe, Hot-Swap, RS-485/RS-422 Transceiver	MAX3070EESD+	SMD 137-9891	3.33	2.34	1.79	1.58	– –
3079	MAX	14	SOIC	+3.3V, ±15kV ESD-Protected, Fail-Safe, Hot-Swap, RS-485/RS-422 Transceiver	MAX3079EESD+	SMD 137-9892	3.33	2.34	1.79	1.58	– –
3080	MAX	14	NSOIC	Fail-Safe, High-Speed (10Mbps), Slew-Rate-Limited RS-485/RS-422 Transceiver	MAX3080CSD+	SMD 137-9894	2.38	1.64	1.26	1.11	– –
3080	MAX	14	SOIC	±15kV ESD-Protected, Fail-Safe, High-Speed (10Mbps), Slew-Rate-Limited RS-485/RS-422 Transceiver	MAX3080ECSD+	SMD 137-9895	3.08	1.97	1.58	1.34	– –
3080	MAX	14	SOIC	±15kV ESD-Protected, Fail-Safe, High-Speed (10Mbps), Slew-Rate-Limited RS-485/RS-422 Transceiver	MAX3080EESD+	SMD 137-9897	2.96	2.04	1.59	1.38	– –
3085	MAX	8	SOIC	±15kV ESD-Protected, Fail-Safe, High-Speed (10Mbps), Slew-Rate-Limited RS-485/RS-422 Transceivers	MAX3085EESA+	SMD 137-9898	2.96	2.04	1.59	1.38	– –
3087	MAX	8	SOIC	±15kV ESD-Protected, Fail-Safe, High-Speed (10Mbps), Slew-Rate-Limited RS-485/RS-422 Transceivers	MAX3087ECSA+	SMD 137-9899	2.38	1.64	1.27	1.11	– –
3088	MAX	8	SOIC	±15kV ESD-Protected, Fail-Safe, High-Speed (10Mbps), Slew-Rate-Limited RS-485/RS-422 Transceivers	MAX3088EESA+	SMD 137-9900	2.96	2.04	1.59	1.38	– –
3089	MAX	14	SOIC	Fail-Safe, High-Speed (10Mbps), Slew-Rate-Limited RS-485/RS-422 Transceiver	MAX3089ESD+	SMD 137-9901	2.96	2.04	1.59	1.38	– –
3162	MAX	28	SSOP	+3.0V to +5.5V, 1µA, RS-232/RS-485/422 Multiprotocol Transceivers	MAX3162EAI+	SMD 137-9911	17.19	11.05	7.47	6.22	– –
3221	MAX	16	TSSOP	1µA Supply-Current, True +3V to +5.5V RS-232 Transceivers with AutoShutdown	MAX3221CUE+	SMD 137-9915	2.45	1.69	1.29	1.14	– –
3221	MAX	16	TSSOP	1µA Supply-Current, True +3V to +5.5V RS-232 Transceivers with AutoShutdown	MAX3221EUE+	SMD 137-9916	3.48	2.39	1.83	1.63	– –
3222	MAX	20	SSOP	True RS-232 Transceiver	MAX3222EAP+	SMD 137-9917	4.66	3.20	2.45	2.15	– –
3222	MAX	20	TSSOP	±15kV ESD-Protected, Down to 10nA, 3.0V to 5.5V, Up to 1Mbps, True RS-232 Transceivers	MAX3222ECUP+	SMD 137-9918	4.03	2.77	2.12	1.87	– –
3222	MAX	20	SSOP	±15kV ESD-Protected, Down to 10nA, 3.0V to 5.5V, Up to 1Mbps, True RS-232 Transceivers	MAX3222EEAP+	SMD 137-9919	6.20	4.25	3.25	2.89	– –
3222	MAX	20	TSSOP	±15kV ESD-Protected, Down to 10nA, 3.0V to 5.5V, Up to 1Mbps, True RS-232 Transceivers	MAX3222EEUP+	SMD 137-9920	5.25	3.59	2.76	2.44	– –
3223	MAX	20	SSOP	±15kV ESD-Protected, 1µA, 3.0V to 5.5V, 250kbps, RS-232 Transceivers with AutoShutdown	MAX3223ECAP+	SMD 137-9921	4.50	2.88	2.51	2.13	– –
3223	MAX	20	TSSOP	±15kV ESD-Protected, 1µA, 3.0V to 5.5V, 250kbps, RS-232 Transceivers with AutoShutdown	MAX3223EEUP+	SMD 137-9922	5.25	3.59	2.76	2.44	– –
3224	MAX	20	SSOP	±15kV ESD-Protected, 1µA, 1Mbps, 3.0V to 5.5V, RS-232 Transceivers with AutoShutdown Plus	MAX3224EEAP+	SMD 137-9923	6.20	4.25	3.24	2.89	– –
3225	MAX	20	SSOP	1µA Supply Current, 1Mbps, 3.0V to 5.5V, RS-232 Transceivers with AutoShutdown Plus	MAX3225CAP+	SMD 137-9924	3.74	2.40	1.76	1.34	– –
3226	MAX	16	SSOP	±15kV ESD-Protected, 1µA, 1Mbps, 3.0V to 5.5V, RS-232 Transceivers with AutoShutdown Plus	MAX3226ECAE+	SMD 137-9925	2.83	1.94	1.49	1.31	– –
3226	MAX	16	SSOP	±15kV ESD-Protected, 1µA, 1Mbps, 3.0V to 5.5V, RS-232 Transceivers with AutoShutdown Plus	MAX3226EEAE+	SMD 137-9927	4.16	2.67	1.97	1.64	– –
3232	MAX	20	TSSOP	±15kV ESD-Protected, Down to 10nA, 3.0V to 5.5V, Up to 1Mbps, True RS-232 Transceivers	MAX3232ECUP+	SMD 137-9928	4.03	2.77	2.12	1.87	– –
3232	MAX	20	TSSOP	±15kV ESD-Protected, Down to 10nA, 3.0V to 5.5V, Up to 1Mbps, True RS-232 Transceivers	MAX3232EEUP+	SMD 137-9929	5.25	3.59	2.76	2.44	– –
3237	MAX	28	SSOP	3.0V to 5.5V, Low-Power, up to 1Mbps, True RS-232 Transceivers Using Four 0.1µF External Capacitors	MAX3237EAI+	SMD 137-9930	9.03	6.37	4.85	4.31	– –
3237	MAX	28	SSOP	±15kV ESD-Protected, Down to 10nA, 3.0V to 5.5V, Up to 1Mbps, True RS-232 Transceivers	MAX3237EEAI+	SMD 137-9931	10.68	6.86	5.05	4.20	– –
3241	MAX	28	SSOP	±15kV ESD-Protected, Down to 10nA, 3.0V to 5.5V, Up to 1Mbps, True RS-232 Transceivers	MAX3241EEAI+	SMD 137-9932	10.68	6.86	5.05	4.20	– –
3243	MAX	28	SSOP	1µA Supply-Current, True +3V to +5.5V RS-232 Transceivers with AutoShutdown	MAX3243CAI+	SMD 137-9933	6.71	4.31	3.18	2.65	– –
3244	MAX	28	SSOP	±15kV ESD-Protected, 1µA, 1Mbps, 3.0V to 5.5V, RS-232 Transceivers with AutoShutdown Plus	MAX3244ECAI+	SMD 137-9934	7.80	5.01	3.69	3.07	– –
3292	MAX	14	SOIC	RS-485/RS-422 Transceivers with Preemphasis for High-Speed, Long-Distance Communication	MAX3292ESD+	SMD 137-9936	8.48	5.45	3.68	3.06	– –
3311	MAX	10	MSOP	±15kV ESD-Protected, 460kbps, 1µA, RS-232-Compatible Transceiver	MAX3311EEUB+	SMD 137-9937	3.38	2.17	1.47	1.22	– –
3313	MAX	10	MSOP	±15kV ESD-Protected, 460kbps, 1µA, RS-232-Compatible Transceiver	MAX3313ECUB+	SMD 137-9939	2.61	1.67	1.13	0.94	– –
3380	MAX	20	TSSOP	+2.35V to +5.5V, 1µA, 2Tx/2Rx RS-232 Transceivers with ±15kV ESD-Protected I/O and Logic Pins	MAX3380ECUP+	SMD 137-9941	5.59	3.60	2.82	2.02	– –
3380	MAX	20	TSSOP	+2.35V to +5.5V, 1µA, 2Tx/2Rx RS-232 Transceivers with ±15kV ESD-Protected I/O and Logic Pins	MAX3380EEUP+	SMD 137-9942	8.01	5.15	4.28	3.17	– –
3387	MAX	24	TSSOP	3V, ±15kV ESD-Protected, AutoShutdown Plus RS-232 Transceiver for PDAs and Cell Phones	MAX3387EEUG+	SMD 137-9943	7.80	5.01	3.38	2.82	– –
3483	MAX	8	NSOIC	3.3V Powered, ±15kV ESD-Protected, 12Mbps, Slew-Rate-Limited True RS-485/RS-422 Transceivers	MAX3483ECSA+	SMD 137-9945	3.85	2.47	1.82	1.52	– –
3485	MAX	8	NSOIC	3.3V Powered, 10Mbps and Slew-Rate Limited, True RS-485/RS-422 Transceivers	MAX3485CSA+	SMD 137-9946	3.27	2.26	1.73	1.52	– –
3485	MAX	8	SOIC	3.3V Powered, ±15kV ESD-Protected, 12Mbps, Slew-Rate-Limited True RS-485/RS-422 Transceivers	MAX3485ECSA+	SMD 137-9947	4.01	3.26	2.61	2.19	– –
3485	MAX	8	SOIC	3.3V Powered, ±15kV ESD-Protected, 12Mbps, Slew-Rate-Limited True RS-485/RS-422 Transceivers	MAX3485EESA+	SMD 137-9948	4.70	3.22	2.47	2.18	– –
3485	MAX	8	SOIC	3.3V Powered, 10Mbps and Slew-Rate Limited, True RS-485/RS-422 Transceivers	MAX3485ESA+	SMD 137-9949	4.11	2.82	2.15	1.90	– –
3486	MAX	8	SOIC	3.3V Powered, ±15kV ESD-Protected, 12Mbps, Slew-Rate-Limited True RS-485/RS-422 Transceivers	MAX3486EESA+	SMD 137-9950	4.70	3.22	2.47	2.18	– –
3488	MAX	8	SOIC	3.3V Powered, ±15kV ESD-Protected, 12Mbps, Slew-Rate-Limited True RS-485/RS-422 Transceivers	MAX3488EESA+	SMD 137-9952	4.70	3.22	2.47	2.18	– –
3490	MAX	8	SOIC	3.3V Powered, ±15kV ESD-Protected, 12Mbps, Slew-Rate-Limited True RS-485/RS-422 Transceivers	MAX3490EESA+	SMD 137-9953	4.70	3.22	2.47	2.18	– –
3491	MAX	14	NSOIC	3.3V Powered, ±15kV ESD-Protected, 12Mbps, Slew-Rate-Limited True RS-485/RS-422 Transceiver	MAX3491EESD+	SMD 137-9954	4.86	3.13	2.30	1.92	– –
3491	MAX	14	SOIC	3.3V Powered, 10Mbps and Slew-Rate Limited, True RS-485/RS-422 Transceiver	MAX3491ESD+	SMD 137-9955	4.11	2.82	2.15	1.90	– –
483	MAX	8	SOIC	±15kV ESD-Protected, Slew-Rate-Limited, Low-Power, RS-485/RS-422 Transceivers	MAX483EESA+	SMD 137-9972	4.23	2.91	2.24	1.97	– –
485	MAX	8	SOIC	±15kV ESD-Protected, Slew-Rate-Limited, Low-Power, RS-485/RS-422 Transceivers	MAX485EESA+	SMD 137-9973	4.23	2.91	2.24	1.97	– –
487	MAX	8	DIP	±15kV ESD-Protected, Slew-Rate-Limited, Low-Power, RS-485/RS-422 Transceivers	MAX487ECPA+	137-9974	2.96	2.04	1.55	1.38	– –
489	MAX	14	SOIC	±15kV ESD-Protected, Slew-Rate-Limited, Low-Power, RS-485/RS-422 Transceiver	MAX489EESD+	SMD 137-9976	4.23	2.91	2.24	1.97	– –
489	MAX	14	SOIC	Low-Power, Slew-Rate-Limited RS-485/RS-422 Transceiver	MAX489ESD+	SMD 137-9977	3.03	2.08	1.59	1.41	– –
491	MAX	14	SOIC	Low-Power, Slew-Rate-Limited RS-485/RS-422 Transceiver	MAX491ESD+	SMD 137-9978	3.03	2.08	1.59	1.41	– –
2119	MAX	28	TSSOP	Ultra3 LVD/SE SCSI Terminator	DS2119ME+	NEW SMD 160-6612	2.45	1.96	1.77	1.64	1.37

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Line Drivers and Receivers - continued

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A range of RS232/422/485 Drivers, Receivers and Transceivers from Sipex. The ICs come with improved ESD specifications and are rated for between 3.0 and 5.5V supply voltage. A wide range of options are available including Low Power and High Speed, as well as Half and Full Duplex versions.

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	Pins/Package	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
26	16/NSOIC	High Speed, +3.3V Quad RS-422 Differential Line Driver	SP26LV431CN-L	SMD-938-6637●	2.96	2.42	2.04	1.90	1.75
26	16/NSOIC	High Speed, Low Power Quad RS-422 Differential Line Receiver	SP26LV432CN-L	SMD-938-6645●	2.96	2.42	2.04	1.90	1.75
202	16/SOIC	High-Performance RS-232 Line Drivers/Receivers, 15kV ESD	SP202ECN-L	SMD-938-6351●	1.03	0.85	0.71	0.66	0.62
202	16/DIP	High-Performance RS-232 Line Drivers/Receivers, 15kV ESD	SP202ECP-L	938-6360●	1.03	0.85	0.71	0.66	0.62
202	16/WSOIC	High-Performance RS-232 Line Drivers/Receivers, 15kV ESD	SP202ECT-L	SMD-938-6378●	1.03	0.85	0.71	0.66	0.62
202	16/NSOIC	High-Performance RS-232 Line Drivers/Receivers, 15kV ESD	SP202EEN-L	SMD-938-6386●	1.03	0.85	0.71	0.66	0.62
207	24/SSOP	+5V RS232 Transceivers 5 Driver, 3 Receiver, Enhanced ESD	SP207ECA-L	SMD-938-6394●	2.04	1.82	1.64	1.49	1.37
207	24/WSOIC	Driver/Reciever, RS-232	SP207ECT-L	SMD-129-6622●	2.99	2.45	2.05	1.91	1.77
207	24/SSOP	High Speed RS232 Transceivers 5 Driver, 3 Receiver, Enhanced ESD	SP207EHCA-L	SMD-938-6408●	1.82	1.64	1.50	1.37	1.27
208	24/SSOP	Driver/Reciever, RS-232	SP208ECA-L	SMD-129-6623●	2.99	2.45	2.05	1.91	1.77
208	24/DIP	+5V RS232 Transceivers 4 Driver, 4 Receiver, Enhanced ESD	SP208EEP-L	938-6416●	2.01	1.64	1.37	1.28	1.18
208	24/SOIC	+5V RS232 Transceivers 4 Driver, 4 Receiver, Enhanced ESD	SP208EET-L	SMD-938-6424●	2.26	1.84	1.54	1.51	1.47
211	28/SSOP	+5V RS232 Transceivers 4 Driver, 5 Receiver, Enhanced ESD, Shutdown	SP211ECA-L	SMD-938-6432●	2.49	2.03	1.69	1.58	1.48
211	28/SSOP	+5V RS232 Transceivers 4 Driver, 5 Receiver, Enhanced ESD, Shutdown	SP211EEA-L	SMD-938-6440●	2.49	2.03	1.69	1.58	1.48
213	28/SSOP	+5V RS232 Transceivers 4 Driver, 5 Receiver, Enhanced ESD, Shutdown	SP213ECA-L	SMD-938-6459●	2.49	2.03	1.69	1.58	1.48
213	28/SSOP	Driver/Reciever, RS-232	SP213EEA-L	SMD-129-6625●	2.61	2.13	1.80	1.66	1.56
213	28/SSOP	High Speed RS232 Transceivers 4 Driver, 5 Receiver, Enhanced ESD, Shutdown.	SP213EHCA-L	SMD-938-6467●	2.49	2.03	1.69	1.58	1.48
232	16/NSOIC	+5V RS232 Transceivers 2 Driver, 2 Receiver	SP232ACN-L	SMD-938-6475●	1.03	0.85	0.71	0.66	0.62
232	16/DIP	+5V RS232 Transceivers 2 Driver, 2 Receiver	SP232ACP-L	938-6483●	1.03	0.85	0.71	0.66	0.62
232	16/WSOIC	+5V RS232 Transceivers 2 Driver, 2 Receiver	SP232ACT-L	SMD-938-6491●	1.03	0.85	0.71	0.66	0.62
232	16/NSOIC	+5V RS232 Transceivers 2 Driver, 2 Receiver	SP232AEN-L	SMD-938-6505●	1.03	0.85	0.71	0.66	0.62
232	16/DIP	Driver/Reciever, RS-232	SP232AEP-L	129-6626●	0.97	0.80	0.67	0.63	0.57
232	16/WSOIC	+5V RS232 Transceivers 2 Driver, 2 Receiver	SP232AET-L	SMD-938-6513●	1.03	0.85	0.71	0.66	0.62
232	16/NSOIC	+5V RS232 Transceivers 2 Driver, 2 Receiver, Enhanced ESD	SP232ECN-L	SMD-938-6521●	1.03	0.85	0.71	0.66	0.62
232	16/DIP	+5V RS232 Transceivers 2 Driver, 2 Receiver, Enhanced ESD	SP232ECP-L	938-6530●	1.03	0.85	0.71	0.66	0.62
232	16/WSOIC	+5V RS232 Transceivers 2 Driver, 2 Receiver, Enhanced ESD	SP232ECT-L	SMD-938-6548●	1.03	0.85	0.71	0.66	0.62
232	16/NSOIC	+5V RS232 Transceivers 2 Driver, 2 Receiver, Enhanced ESD	SP232EEN-L	SMD-938-6556●	1.03	0.85	0.71	0.66	0.62
232	16/WSOIC	+5V RS232 Transceivers 2 Driver, 2 Receiver, Enhanced ESD	SP232EET-L	SMD-938-6564●	1.03	0.85	0.71	0.66	0.62
233	20/DIP	RS232 Transceivers 2 Driver, 2 Receiver, No External Capacitors	SP233ACP-L	938-6572●	4.41	3.60	3.03	2.82	2.63
233	20/SOIC	RS232 Transceivers 2 Driver, 2 Receiver, No External Capacitors	SP233ACT-L	SMD-938-6580●	4.41	3.60	3.03	2.82	2.63
238	24/WSOIC	Driver/Reciever, RS-232	SP238ACT-L	SMD-129-6627●	2.83	2.31	1.94	1.80	1.67
310	18/WSOIC	+5V RS232 Transceivers 2 Driver, 2 Receiver, Enhanced ESD, Shutdown	SP310EET-L	SMD-938-6726●	1.44	1.19	1.00	0.92	0.86
312	18/WSOIC	Driver/Reciever, RS-232	SP312ACT-L	SMD-129-6628●	1.64	1.35	1.12	1.06	0.99
319	80/MQFP	10Mbps, +5V-Only V.35 Interface With RS-232 (V.28) Control Lines	SP319CF-L	SMD-938-6734●	10.46	8.72	6.91	– –	– –
331	28/WSOIC	Transceiver, RS-232/485	SP331CT-L	SMD-129-6637●	13.34	10.91	9.17	8.51	7.94
331	28/WSOIC	Transceiver, RS-232/485	SP331ET-L	SMD-129-6638●	13.34	10.91	9.17	8.51	7.94
332	28/SOIC	RS-232/RS-485 Multi-Mode Serial Transceiver	SP332ET-L	SMD-938-7064●	10.03	8.36	6.64	– –	– –
334	28/SOIC	Multi-mode RS-232/RS-485 Configurable Serial Port Transceiver	SP334CT-L	SMD-938-7072●	6.56	5.47	4.90	– –	– –
385	20/SSOP	Line Driver/Receiver, RS-232	SP385ECA-L	SMD-129-6647●	1.56	1.28	1.08	1.00	0.93
385	18/WSOIC	Line Driver/Receiver, RS-232	SP385ECT-L	SMD-129-6648●	1.56	1.28	1.08	1.00	0.93
385	20/SSOP	Line Driver/Receiver, RS-232	SP385EEA-L	SMD-129-6649●	1.56	1.28	1.08	1.00	0.93
481	8/NSOIC	Half-Duplex RS-485 Transceivers With enhanced ESD.	SP481ECN-L	SMD-938-7102●	1.65	1.35	1.14	1.06	0.99
481	8/NSOIC	Half-Duplex RS-485 Transceivers With enhanced ESD.	SP481EEN-L	SMD-938-7110●	1.65	1.35	1.14	1.06	0.99
483	8/NSOIC	Slew Limited Half-Duplex RS-485 Transceivers With enhanced ESD	SP483ECN-L	SMD-938-7129●	1.65	1.35	1.14	1.06	0.99
483	8/DIP	Slew Limited Half-Duplex RS-485 Transceivers With enhanced ESD	SP483ECP-L	938-7137●	1.65	1.35	1.14	1.06	0.99
483	8/NSOIC	Slew Limited Half-Duplex RS-485 Transceivers With enhanced ESD	SP483EEN-L	SMD-938-7145●	1.65	1.35	1.14	1.06	0.99
485	8/NSOIC	Half-Duplex RS-485 Transceivers With enhanced ESD.	SP485ECN-L	SMD-938-7153●	1.25	1.02	0.85	0.79	0.74
485	8/DIP	Half-Duplex RS-485 Transceivers With enhanced ESD.	SP485ECP-L	938-7161●	1.25	1.02	0.85	0.79	0.74
485	8/NSOIC	Half-Duplex RS-485 Transceivers With enhanced ESD.	SP485EEN-L	SMD-938-7170●	1.25	1.02	0.85	0.79	0.74
485	8/DIP	Half-Duplex RS-485 Transceivers With enhanced ESD.	SP485EEP-L	938-7188●	1.25	1.02	0.85	0.79	0.74
485	8/NSOIC	High Temperature, Half-Duplex RS-485 Transceivers With enhanced ESD	SP485EMN-L	SMD-938-7196●	1.25	1.02	0.85	0.79	0.74
485	8/NSOIC	High-Fanout RS-485 Transceiver.	SP485RCN-L	SMD-938-7200●	1.25	1.02	0.85	0.79	0.74
485	8/NSOIC	High-Fanout RS-485 Transceiver.	SP485REN-L	SMD-938-7218●	1.25	1.02	0.85	0.79	0.74
487	16/WSOIC	Line Driver, RS-485/RS-422	SP487CT-L	SMD-129-6650●	2.21	1.81	1.53	1.41	1.31
488	16/WSOIC	Line Driver, RS-485/RS-422	SP488CT-L	SMD-129-6651●	2.21	1.81	1.53	1.41	1.31
490	8/SOIC	Full Duplex RS-485 Transceivers With enhanced ESD	SP490ECN-L	SMD-938-7226●	1.18	1.05	0.95	0.86	0.79
490	8/NSOIC	Full Duplex RS-485 Transceivers With enhanced ESD	SP490EEN-L	SMD-938-7234●	1.65	1.35	1.14	1.06	0.99
490	8/DIP	Transceiver, RS-485.	SP490EEP-L	129-6652●	1.85	1.53	1.28	1.19	1.10
491	14/NSOIC	Full Duplex RS-485 Transceivers With enhanced ESD	SP491ECN-L	SMD-938-7242●	1.65	1.35	1.14	1.06	0.99
491	14/PDIP	Transceiver, RS-485.	SP491EEP-L	129-6653●	1.85	1.53	1.28	1.19	1.10
491	14/NSOIC	Transceiver, RS-485.	SP491EN-L	SMD-129-6654●	1.85	1.53	1.28	1.19	1.10
495	20/WSOIC	Quad 10Mbps RS-485 Transceivers, SCSI pinout	SP495CT-L	SMD-938-7250●	6.51	6.27	5.47	5.06	4.73
503	80/MQFP	Multiprotocol Transceiver	SP503EF-L	SMD-129-6655●	23.98	19.62	16.48	15.30	14.27
505	80/MQFP	Transceiver Multimode	SP505ACF-L	SMD-129-6657●	22.68	20.22	18.24	16.61	15.25
508	100/LQFP	20Mbps, Single-Chip Multi-Protocol DCE/DTE With integraged V.11 and V.35 termination, 15kV ESD	SP508CF-L	SMD-938-7277●	30.92	25.75	20.45	– –	– –
526	44/MQFP	4-Driver/4-Receiver Multi-Mode Serial Transceiver for Control and Handshake signals	SP526CF-L	SMD-938-8923●	12.67	11.37	9.95	9.26	8.62
1485	8/NSOIC	High Speed Half-Duplex RS-485 Transceiver, 15kV ESD	SP1485ECN-L	SMD-938-6319●	1.38	1.17	1.01	0.92	0.86
1490	8/NSOIC	High Speed Full-Duplex RS-485 Transceiver, 15kV ESD.	SP1490ECN-L	SMD-938-6335●	3.00	2.45	2.06	1.92	1.79
1491	14/NSOIC	High Speed Full-Duplex RS-485 Transceiver, 15kV ESD.	SP1491ECN-L	SMD-938-6343●	3.30	2.70	2.28	2.12	1.98
2233	20/SOIC	RS232 Transceivers 2 Driver, 2 Receiver, No External Capacitors	SP233ECT-L	SMD-938-6599●	4.41	3.60	3.03	2.82	2.63
3070	14/NSOIC	3V RS485 Full Duplex Transceiver, 15kV ESD, 1/8th Load, Slew Limited	SP3070EEN-L	SMD-938-6653●	2.06	1.68	1.41	1.31	1.23
3071	8/NSOIC	3V RS485 Full Duplex Transceiver, 15kV ESD, 1/8th Load, Slew Limited	SP3071EEN-L	SMD-938-6661●	2.06	1.68	1.41	1.31	1.23
3072	8/NSOIC	3V RS485 Half Duplex Transceiver, 15kV ESD, 1/8th Load, Slew Limited.	SP3072EEN-L	SMD-938-6670●	2.06	1.68	1.41	1.31	1.23
3075	8/NSOIC	3V RS485 Half Duplex Transceiver, 15kV ESD, 1/8th Load, Reduced EMI	SP3075EEN-L	SMD-938-6688●	2.06	1.68	1.41	1.31	1.23
3076	14/NSOIC	3V RS485 Full Duplex Transceiver, 15kV ESD, 1/8th Load, High Speed	SP3076EEN-L	SMD-938-6696●	2.06	1.68	1.41	1.31	1.23
3077	8/NSOIC	3V RS485 Full Duplex Transceiver, 15kV ESD, 1/8th Load, High Speed	SP3077EEN-L	SMD-938-6700●	2.06	1.68	1.41	1.31	1.23
3078	8/NSOIC	3V RS485 Half Duplex Transceiver, 15kV ESD, 1/8th Load, High Speed.	SP3078EEN-L	SMD-938-6718●	2.06	1.68	1.41	1.31	1.23
3203	20/TSSOP	1.8V Interface, RS-232 Transceivers With 15kV ESD Protection.	SP3203ECY-L	SMD-938-6742●	2.69	2.21	1.85	1.71	1.59
3220	16/SSOP	High Speed +3.0V to +5.5V RS-232 Driver/Receiver Pair	SP3220EBCA-L	SMD-938-6750●	1.86	1.53	1.28	1.19	1.10
3220	16/TSSOP	High Speed +3.0V to +5.5V RS-232 Driver/Receiver Pair	SP3220EBCY-L	SMD-938-6769●	1.86	1.53	1.28	1.19	1.10
3220	16/SSOP	High Speed +3.0V to +5.5V RS-232 Driver/Receiver Pair	SP3220EBEA-L	SMD-938-6777●	1.86	1.53	1.28	1.19	1.10
3220	16/SSOP	Driver/Reciever, RS-232	SP3220ECA-L	SMD-129-6629●	2.10	1.72	1.44	1.35	1.25
3220	16/SSOP	Driver/Reciever, RS-232	SP3220EEA-L	SMD-129-6630●	2.10	1.72	1.44	1.35	1.25
3220	16/SSOP	Driver/Reciever, RS-232	SP3220EUEA-L	SMD-129-6631●	2.42	1.98	1.66	1.55	1.44
3222	20/TSSOP	Driver/Reciever, RS-232	SP3222EBCY-L	SMD-129-6633●	2.10	1.72	1.44	1.35	1.25
3222	20/SSOP	Low Power +3.0V to +5.5V RS-232 Transceivers With Tristate	SP3222ECA-L	SMD-938-6785●	1.86	1.53	1.28	1.19	1.10
3222	20/TSSOP	Low Power +3.0V to +5.5V RS-232 Transceivers With Tristate	SP3222ECY-L	SMD-938-6793●	1.86	1.53	1.28	1.19	1.10
3222	20/SSOP	Low Power +3.0V to +5.5V RS-232 Transceivers With Tristate	SP3222EEA-L	SMD-938-6807●	1.86	1.53	1.28	1.19	1.10
3223	20/SSOP	Auto On-Line +3.0V to +5.5V RS-232 Transceivers.	SP3223ECA-L	SMD-938-6815●	1.86	1.53	1.28	1.19	1.10
3223	20/SSOP	Auto On-Line +3.0V to +5.5V RS-232 Transceivers.	SP3223EEA-L	SMD-938-6823●	1.86	1.53	1.28	1.19	1.10
3223	20/TSSOP	Auto On-Line +3.0V to +5.5V RS-232 Transceivers.	SP3223EEY-L	SMD-938-6831●	1.86	1.53	1.28	1.19	1.10
3232	16/SSOP	+3.0V to +5.5V RS-232 Transceivers	SP3232EBCA-L	SMD-938-6858●	1.86	1.53	1.28	1.19	1.10
3232	16/NSOIC	+3.0V to +5.5V RS-232 Transceivers	SP3232EBCN-L	SMD-938-6866●	1.86	1.53	1.28	1.19	1.10
3232	16/TSSOP	+3.0V to +5.5V RS-232 Transceivers	SP3232EBCY-L	SMD-938-6874●	1.86	1.53	1.28	1.19	1.10
3232	16/SSOP	+3.0V to +5.5V RS-232 Transceivers	SP3232ECA-L	SMD-938-6882●	1.86	1.53	1.28	1.19	1.10

RL Re-reeling available

Farnell

	Pins/Package	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
3232	16/NSOIC	+3.0V to +5.5V RS-232 Transceivers	SP3232ECN-L	SMD 938-6890●	1.86	1.53	1.28	1.19	1.10
3232	16/DIP	+3.0V to +5.5V RS-232 Transceivers	SP3232ECP-L	938-6904●	1.86	1.53	1.28	1.19	1.10
3232	16/WSOIC	+3.0V to +5.5V RS-232 Transceivers	SP3232ECT-L	SMD 938-6912●	1.86	1.53	1.28	1.19	1.10
3232	16/TSSOP	+3.0V to +5.5V RS-232 Transceivers	SP3232ECY-L	SMD 938-6920●	1.86	1.53	1.28	1.19	1.10
3232	16/SSOP	+3.0V to +5.5V RS-232 Transceivers	SP3232EEA-L	SMD 938-6939●	1.86	1.53	1.28	1.19	1.10
3232	16/NSOIC	Transceiver, RS232	SP3232EEN-L	SMD 129-6634●	2.01	1.65	1.39	1.29	1.20
3232	16/TSSOP	+3.0V to +5.5V RS-232 Transceivers	SP3232EEY-L	SMD 938-6947●	1.86	1.53	1.28	1.19	1.10
3232	16/NSOIC	1Mbps +3.0V to +5.5V RS-232 Transceivers	SP3232EUCN-L	SMD 938-6955●	1.86	1.53	1.28	1.19	1.10
3232	16/DIP	1Mbps +3.0V to +5.5V RS-232 Transceivers	SP3232EUCP-L	938-6963●	1.86	1.53	1.28	1.19	1.10
3238	28/SSOP	Auto On-Line +3.0V to +5.5V RS-232 Transceivers 5-Driver/3-Receiver	SP3238ECA-L	SMD 938-6971●	2.83	2.32	1.94	1.81	1.67
3238	28/SSOP	Auto On-Line +3.0V to +5.5V RS-232 Transceivers 5-Driver/3-Receiver	SP3238EEA-L	SMD 938-6980●	2.56	2.09	1.74	1.63	1.52
3239	28/SSOP	Intelligent +3.0V to +5.5V RS-232 Transceivers 5-Driver/3-Receiver	SP3239ECA-L	SMD 938-6998●	2.56	2.09	1.74	1.63	1.52
3243	28/SSOP	Auto On-Line +3.0V to +5.5V RS-232 Transceivers 3-Driver/5-Receiver	SP3243EBCA-L	SMD 938-7013●	1.92	1.72	1.56	1.42	1.31
3243	28/TSSOP	Transceiver, RS232	SP3243EBEY-L	SMD 129-6635●	2.83	2.31	1.94	1.80	1.67
3243	28/SSOP	Auto On-Line +3.0V to +5.5V RS-232 Transceivers 3-Driver/5-Receiver	SP3243EEA-L	SMD 938-7021●	2.69	2.21	1.85	1.71	1.59
3243	28/SOIC	Auto On-Line +3.0V to +5.5V RS-232 Transceivers 3-Driver/5-Receiver	SP3243EET-L	SMD 938-7030●	1.92	1.75	1.61	1.49	1.38
3243	28/SSOP	1 Mbps Auto On-Line +3.0V to +5.5V RS-232 Transceivers 3-Driver/5-Receiver	SP3243EUCA-L	SMD 938-7048●	2.69	2.21	1.85	1.71	1.59
3249	24/TSSOP	Transceiver, RS232	SP3249ECY-L	SMD 129-6636●	2.02	1.80	1.62	1.47	1.35
3483	8/NSOIC	Transceiver, RS-485	SP3483CN-L	SMD 129-6639●	2.10	1.72	1.44	1.35	1.25
3483	8/NSOIC	Transceiver, RS-485	SP3483EN-L	SMD 129-6640●	2.10	1.72	1.44	1.35	1.25
3485	8/NSOIC	Transceiver, RS-485	SP3485CN-L	SMD 129-6641●	2.10	1.72	1.44	1.35	1.25
3485	8/NSOIC	TRANSCEIVER, RS-485	SP3485EN-L	SMD 129-6642●	2.10	1.72	1.44	1.35	1.25
3490	8/NSOIC	Transceiver, RS-485	SP3490CN-L	SMD 129-6643●	2.10	1.72	1.44	1.35	1.25
3491	14/NSOIC	Transceiver, RS-485	SP3491EN-L	SMD 129-6645●	2.10	1.72	1.44	1.35	1.25
3508	100/LQFP	3.3V, 20Mbps, 8 Channel Multiprotocol Transceiver With Programmable DCE/DTE and Termination Resistors	SP3508CF-L	SMD 938-7080●	35.86	29.88	23.73	– –	– –
5301	14/NSOIC	Universal Serial Bus FS/LS Transceiver	SP5301CN-L	SMD 938-8931●	1.18	0.97	0.81	0.74	0.70
5301	14/TSSOP	Universal Serial Bus FS/LS Transceiver	SP5301CY-L	SMD 938-8915●	0.84	0.75	0.68	0.61	0.56

Cirrus Transmitters, Receivers & Interface

CIRRUS LOGIC

418946

	Pins	Pkg	Features	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
8406	28	SOIC	192 kHz Digital Audio Interface Transmitter	CS8406-CSZ	SMD 102-3446●	3.50	2.91	2.38
8406	28	TSSOP	192 kHz Digital Audio Interface Transmitter	CS8406-CZZ	SMD 102-3448●	3.54	2.41	1.96
8415	28	TSSOP	96 kHz Digital Audio Interface Receiver	CS8415A-CZZ	SMD 102-3449●	5.86	3.99	3.22
8416	28	QFN	192 kHz Digital Audio Interface Receiver	CS8416-CNZ	SMD 102-3450●	4.38	3.67	3.02
8416	28	SOIC	192 kHz Digital Audio Interface Receiver	CS8416-CSZ	SMD 102-3451●	4.51	3.07	2.56
8416	28	TSSOP	192 kHz Digital Audio Interface Receiver	CS8416-CZZ	SMD 102-3452●	4.51	3.07	2.93
Ethernet Controllers								
8900	100	LQFP	Crystal LAN® 10Base-T Embedded Ethernet Controller	CS8900A-CQ3Z	SMD 102-3455●	5.87	4.51	3.88
8900	100	LQFP	Crystal LAN® 10Base-T Embedded Ethernet Controller	CS8900A-CQZ	SMD 102-3456●	6.64	4.53	3.65
8900	100	LQFP	Crystal LAN® 10Base-T Embedded Ethernet Controller	CS8900A-IQZ	SMD 102-3458●	6.63	5.09	4.32
PHY Line Interface								
8952	100	TQFP	Crystal LAN® 100Base-X, 10Base-T Transceiver, and 100Base-Fx Interface	CS8952-CQZ	SMD 102-3459●	7.01	5.38	4.56
8952	100	TQFP	Crystal LAN® 100Base-X, 10Base-T Transceiver, and 100Base-Fx Interface	CS8952-IQZ	SMD 102-3460●	7.70	6.13	5.20

Only for sale in the European Union

AS-Interface ICs

ZMD

AS-Interface (Actuator Sensor Interface) is a bus system for low level field applications in industrial automation. The primary application is communication with small binary sensors and actuators using the ASI standard. The AS-Interface modernizes automation systems effectively, saving installation costs and time. The easy "plug and play" capabilities of AS-Interface products will minimize maintenance costs.
A significant feature of AS-Interface is the Yellow Cable." The 2 wires in the ASI cable transmit power and data to all points in the network. To transform the binary data in the physical layer of the AS-Interface, highly integrated circuits are required. These innovative ICs from the ZMD AG fulfill all requirements of the ASI 2.11 standard, defined by the AS-Interface Association, and will give you quick access to the world of AS-Interface.
The AS-Interface is an open standard based on IEC 62026-2 and EN 50295.

- Multifunctional interface ICs for slave, master and repeater/monitor applications
- Fully certified according to specification AS-Interface V2.11 and V3.0
- Bus interface optimization option for high current applications
- Flexible I/Os, flexible bus interface, on-chip EEPROM
- Additional addressing channel through infra-red port
- Very small SSOP packages

A2SI-G1-ST REV. C	2 Inputs, 2 Outputs
A2SI-L16-G1-ST REV. B	2 Inputs, 2 Outputs, LED Pin, FID Pin
ASI4UC-G1-ST	4 Inputs, 4 Outputs, 4 Parameter ports, FID, 2 LED Pins DSR, PST
SAP5SC-A-G1-T	4 Inputs, 4 Outputs, 4 Parameter ports
SAP5SC-B-G1-T	4 Inputs, 4 Outputs, 4 Parameter ports
SAP51C-A-G1-T	4 Inputs, 4 Outputs, 4 Parameter ports
SAP51C-B-G1-T	4 Inputs, 4 Outputs, 4 Parameter ports

Pins	Mftrs. List No.	Order Code	Price Each 1+	10+
SSOP - 28	A2SI-G1-ST REV. C	SMD 149-5042●	6.67	6.07
SOP - 16	A2SI-L16-G1-ST REV. B	SMD 149-5043●	2.73	2.27
SSOP - 28	ASI4UC-G1-ST	SMD 149-5044●	8.14	6.77
SOP - 20	SAP5SC-A-G1-T	SMD 149-5046●	7.39	6.72
SOP - 16	SAP5SC-B-G1-T	SMD 149-5047●	7.14	6.49
SOP - 20	SAP51C-A-G1-T	SMD 149-5048●	7.59	6.32
SOP - 16	SAP51C-B-G1-T	SMD 149-5049●	7.32	6.10

Programmer

The ZMD AS-Interface Programmer provides support for newcomers and experienced users in handling ZMDs AS-Interface ICs. A self-explanatory graphical user interface allows to control AS-Interface functionality like EEPROM programming, telegram by telegram debugging - including IC configuration - of an AS-Interface network, and setting and reading of digital parameter and IO ports. Furthermore a real AS-Interface network can be controlled digitally with a graphical interface (not AS-Interface real-time mode!).
The Programmer hardware includes a simple data decoupling network for laboratory setups, witch makes a special AS-Interface power supply unnecessary. Only a additional power source of 30VDC is required.
ZMDs AS-Interface Programmer features at a glance:

- AS-Interface IC and network evaluation kit
- Static AS-Interface network evaluation and configuration
- Ideal for AS-Interface module setup and test by the included software and the open serial protocol
- Included Software tools:
- Graphical user interface for IC and network setup
- Software application for a TCL* interface

Mftrs. List No.	Order Code	Price Each 1+	5+
ASI PROGRAMMER V2.0	149-5050●	102.68	99.87

Evaluation Boards

For the quick and easy evaluation of the AS-interface ICs ASI4U and SAP5 ZMD offers now special Evaluation Boards.These PCBs connectable to the ASI-Programmer enable the short-term set-up of an AS-interface network for test purposes.

488693

Mftrs. List No.	Order Code	Price Each 1+	5+
ASI4U EVALUATION BOARD V2.0	149-5051●	36.85	35.43
SAP5 EVALUATION BOARD V2.0	149-5052●	36.85	35.43

Line Drivers and Receivers - continued

Triple Digital Isolators

New

The ISO7230 and ISO7231 are triple-channel digital isolators each with multiple channel configurations and output enable functions. These devices have logic input and output buffers separated by TI's silicon dioxide (SiO2) isolation barrier. Used in conjunction with isolated power supplies, these devices block high voltage, isolate grounds, and prevent noise currents on a data bus or other circuits from entering the local ground and interfering with or damaging sensitive circuitry. The ISO7230 triple-channel device has all three channels in the same direction while the ISO7231 has two channels in one direction and one channel in opposition. These devices have an active-high output enable that when driven to a low level, places the output in a high-impedance state and turns off internal bias circuitry to conserve power.These devices require two supply voltages of 3.3V, 5.0V, or any combination. All inputs are 5V tolerant when supplied from a 3.3V supply and all outputs are 4-mA CMOS.

499820

Decription	Mftrs. List No.	Pins/Pkg	Order Code	Price Each 1+	10+	100+
1Mbps Triple Channel Digital Isolator	ISO7230ADWG4	16 / SOIC	SMD 154-3750	2.45	2.17	1.82
25Mbps Triple Channel Digital Isolator	ISO7230CDWG4	16 / SOIC	SMD 154-3753	4.01	3.56	2.92
150Mbps Triple Channel Digital Isolator	ISO7230MDWG4	16 / SOIC	SMD 154-3755	5.71	5.08	4.13
1Mbps Triple Channel Digital Isolator	ISO7231ADW	16 / SOIC	SMD 154-3756	2.45	2.17	1.82
25Mbps Triple Channel Digital Isolator	ISO7231CDW	16 / SOIC	SMD 154-3757	4.01	3.56	2.92
150Mbps Triple Channel Digital Isolator	ISO7231MDW	16 / SOIC	SMD 154-3758	5.71	5.08	4.13

Digital Magnetic Isolators





NVE's family of high-speed digital isolators are CMOS devices created by Integrating active circuitry and the GMR-based and patented IsoLoop® technology.
The symmetric magnetic coupling barrier provides a typical propagation delay of only 10 ns and a pulse width distortion of 2 ns achieving an excellent specification for an isolator device. Typical transient immunity is 30 kV/μs. These are ideally suited for isolating applications such as PROFIBUS, RS-485, RS422 and other multiple Data Point Transmission applications.

339722

	Pins/package	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
422	16 / SOIC	Isolated RS422/RS485 Interface	IL422E	SMD 957-0683	10.35	8.85	7.09
485	16 / SOIC	Isolated RS485 Interface	IL485E	SMD 957-0667	8.78	7.97	6.82
485	16 / SOIC	Isolated RS485 Interface With Handshake	IL485WE	SMD 957-0675	7.56	7.02	6.82
610	8 / MSOP	3V/5V Single Channel Passive Input Isolator	IL610-1E	SMD 113-9028	2.85	2.25	1.89
610	8 / PDIP	3V/5V Single Channel Passive Input Isolator	IL610-2E	113-9029	2.85	2.25	1.89
610	8 / SOIC	3V/5V Single Channel Passive Input Isolator	IL610-3E	SMD 113-9030	2.85	2.25	1.89
610	8 / MSOP	3V/5V Single Channel Passive Input Isolator	IL610A-1E	SMD 113-9031	1.93	1.78	1.42
610	8 / PDIP	3V/5V Single Channel Passive Input Isolator	IL610A-2E	113-9032	2.57	2.37	1.89
610	8 / SOIC	3V/5V Single Channel Passive Input Isolator	IL610A-3E	SMD 113-9033	2.67	2.11	1.78
611	8 / MSOP	3V/5V Dual Channel Passive Input Isolator	IL611-1E	SMD 113-9035	4.28	3.37	2.83
611	8 / PDIP	3V/5V Dual Channel Passive Input Isolator	IL611-2E	113-9036	4.28	3.37	2.83
611	8 / SOIC	3V/5V Dual Channel Passive Input Isolator	IL611-3E	SMD 113-9037	4.28	3.37	2.83
611	8 / MSOP	3V/5V Dual Channel Passive Input Isolator	IL611A-1E	SMD 113-9038	3.39	2.67	2.26
611	8 / PDIP	3V/5V Dual Channel Passive Input Isolator	IL611A-2E	113-9039	3.46	2.89	2.39
611	8 / SOIC	3V/5V Dual Channel Passive Input Isolator	IL611A-3E	SMD 113-9040	3.39	2.67	2.26
612	8 / PDIP	3V/5V 2-Channel Passive Input Isolator	IL612-2E	113-9041	4.56	3.81	3.06
612	8 / SOIC	3V/5V 2-Channel Passive Input Isolator	IL612-3E	SMD 113-9042	4.28	3.37	2.83
612	8 / SOIC	3V/5V 2-Channel Passive Input Isolator	IL612A-3E	SMD 113-9044	3.20	2.67	2.26
710	8 / DIP	5V/3.3V High Speed Digital mAgnetic Isolator	IL710-2E	957-0560	2.84	2.53	2.12
711	8 / SOIC	5V/3.3V High Speed Dual(x2 Tx) Digital Isolator	IL711-3E	SMD 957-0594	4.86	4.12	3.46
712	8 / DIP	5V/3.3V High Speed Dual(1Tx, 1Rx) Digital Isolator	IL712-2E	957-0586	4.86	4.12	3.46
712	8 / SOIC	5V/3.3V High Speed Dual(1Tx, 1Rx) Digital Isolator	IL712-3E	SMD 957-0608	4.86	4.12	3.46
715	16 / SOIC	5V/3.3V High Speed Four Channel(4 x Tx) Digital mAgnetic Isolator SOIC 0.15"	IL715-3E	SMD 957-0632	6.35	5.41	4.57
715	16 / SOIC	5V/3.3V High Speed Four Channel(4 x Tx) Digital mAgnetic Isolator SOIC 0.3"	IL715E	SMD 957-0616	5.08	4.75	4.27
716	16 / SOIC	5V/3.3V High Speed Four Channel(2Tx, 2Rx) Digital mAgnetic Isolator SOIC 0.15"	IL716-3E	SMD 957-0640	6.35	5.41	4.57
716	16 / SOIC	5V/3.3V High Speed Four Channel(2Tx, 2Rx) Digital mAgnetic Isolator SOIC 0.3"	IL716E	SMD 957-0624	6.35	5.41	4.57
717	16 / SOIC	5V/3.3V High Speed Four Channel(3Tx , 1Rx) Digital mAgnetic Isolator SOIC 0.15"	IL717-3E	SMD 957-0659	6.35	5.41	4.57
3122	16 / SOIC	Isolated RS422 Transceiver	IL3122E	SMD 113-9048	4.52	3.79	3.18
3185	16 / SOIC	Isolated RS485 Transceiver	IL3185E	SMD 113-9047	4.52	3.79	3.18
3222	16 / SOIC	Isolated 1/8 Fractional Load RS422 Transceiver	IL3222E	SMD 113-9050	5.33	4.49	3.78
3285	16 / SOIC	Isolated 1/8 Fractional Load RS485 Transceiver	IL3285E	SMD 113-9049	5.70	4.49	3.78
3585	16 / SOIC	3V/5V Isolated PROFIBus RS485 Transceiver	IL3585E	SMD 113-9045	6.89	5.83	4.89

Digital Isolators

iCoupler® isolators from Analog Devices eliminate optocoupler limitations. Combining high-speed CMOS with chip-scale micro transformers, this family of isolation products provides substantial improvements in terms of size, performance, power, reliability and ease-of-use. iCoupler products are offered in a wide range of performance, channel configuration, and price levels to fit almost any application.

Device	No. Channels	Max Data Rate (Mbps)	Max Propogation Delay (ns)	Max Pulse-Width Distortion (ns)	Isolation Rating (KV rms)
ADUM1100ARZ	1	25	18	2	2.5
ADUM1100BRZ	1	100	18	2	2.5
ADUM1200ARZ	2	1	150	3	2.5
ADUM1200BRZ	2	10	50	3	2.5
ADUM1200CRZ	2	25	45	3	2.5
ADUM1201ARZ	2	1	150	3	2.5
ADUM1201BRZ	2	10	50	3	2.5
ADUM1201CRZ	2	25	45	3	2.5
ADUM1210BRZ	2	10	50	3	2.5
ADUM1251ARZ	1	1	162	67	2.5
ADUM1300ARWZ	3	1	100	3	2.5
ADUM1300BRWZ	3	10	50	3	2.5
ADUM1300CRWZ	3	90	32	3	2.5
ADUM1301ARWZ	3	1	100	3	2.5
ADUM1301BRWZ	3	10	50	3	2.5
ADUM1301CRWZ	3	90	32	3	2.5
ADUM1310BRWZ	3	10	50	5	2.5
ADUM1400ARWZ	4	1	100	3	2.5
ADUM1400BRWZ	4	10	50	3	2.5
ADUM1400CRWZ	4	90	32	3	2.5
ADUM1401ARWZ	4	1	100	3	2.5
ADUM1401BRWZ	4	10	50	3	2.5
ADUM1401CRWZ	4	90	32	3	2.5
ADUM1402ARWZ	4	1	100	3	2.5
ADUM1402BRWZ	4	10	50	3	2.5
ADUM1402CRWZ	4	90	32	3	2.5
ADUM1410BRWZ	4	10	50	5	2.5
ADUM2400ARWZ	4	1	100	3	5
ADUM2400BRWZ	4	10	50	3	5
ADUM2400CRWZ	4	90	32	3	5
ADUM2401ARWZ	4	1	100	3	5
ADUM2401BRWZ.	4	10	50	3	5
ADUM2401CRWZ	4	90	32	3	5
ADUM2402ARWZ	4	1	100	3	5

RL Re-reeling available

Device	No. Channels	Max Data Rate (Mbps)	Max Propogation Delay (ns)	Max Pulse-Width Distortion (ns)	Isolation Rating (KV rms)
ADUM2402BRWZ	4	10	50	3	5
ADUM2402CRWZ	4	90	32	3	5
ADUM3100BRZ	1	100	18	2	2.5
ADUM3300BRWZ	3	10	50	3	2.5
ADUM3301ARWZ	3	1	100	40	2.5
ADUM3301BRWZ	3	10	50	3	2.5
ADUM3301CRWZ	3	90	32	2	2.5
ADUM3400ARWZ	4	1	100	40	2.5
ADUM3400BRWZ	4	10	50	3	2.5
ADUM3400CRWZ	4	90	32	2	2.5
ADUM3401ARWZ	3	1	100	40	2.5
ADUM3401BRWZ	3	10	50	3	2.5
ADUM3401CRWZ	3	90	32	2	2.5
ADUM3402ARWZ	2	1	100	40	2.5
ADUM3402BRWZ	2	10	50	3	2.5
ADUM3402CRWZ	2	90	32	2	2.5
ADUM5240ARZ	2	1	70	3	2.5
ADUM5241ARZ	2	1	70	3	2.5
ADUM5242ARZ	2	1	70	3	2.5

422971

Mftrs. List No.	Pins	Pkg	Order Code	Price Each 1+	10+	100+
ADUM1100ARZ	8	SOIC	SMD 122-6206●	2.80	2.33	1.93
ADUM1100BRZ	8	SOIC	SMD 122-6207●	3.18	2.65	2.18
ADUM1200ARZ	8	SOIC	SMD 107-8204●	1.89	1.58	1.30
ADUM1200BRZ	8	SOIC	SMD 107-8205●	4.05	2.76	2.05
ADUM1200CRZ	8	SOIC	SMD 107-8206●	4.23	3.50	2.90
ADUM1201ARZ	8	SOIC	SMD 107-8200●	1.97	1.64	1.30
ADUM1201BRZ	8	SOIC	SMD 107-8201●	2.90	2.40	1.92
ADUM1201CRZ	8	SOIC	SMD 107-8202●	4.03	3.32	2.66
ADUM1210BRZ	8	SOIC	SMD 111-7115●	3.48	2.88	2.31
ADUM1251ARZ	8	SOIC	SMD 143-9002●	6.20	4.23	3.41
ADUM1300ARWZ	16	SOIC	SMD 122-6209●	2.80	2.33	1.93
ADUM1300BRWZ	16	SOIC	SMD 122-6210●	4.94	3.36	2.72
ADUM1300CRWZ	16	SOIC	SMD 122-6211●	7.37	5.06	4.09
ADUM1301ARWZ	16	SOIC	SMD 122-6212●	2.80	2.33	1.93
ADUM1301BRWZ	16	SOIC	SMD 122-6213●	4.94	3.36	2.72
ADUM1301CRWZ	16	SOIC	SMD 122-6214●	7.37	5.06	4.09
ADUM1310BRWZ	16	SOIC	SMD 122-6215●	4.94	3.36	2.72
ADUM1400ARWZ	16	SOIC	SMD 122-6217●	3.37	2.79	2.30
ADUM1400BRWZ	16	SOIC	SMD 122-6218●	4.48	3.72	3.08
ADUM1400CRWZ	16	SOIC	SMD 122-6219●	6.01	4.99	4.13
ADUM1401ARWZ	16	SOIC	SMD 122-6220●	3.37	2.79	2.30

Mftrs. List No.	Pins	Pkg	Order Code	Price Each 1+	10+	100+
ADUM1401BRWZ	16	SOIC	SMD 122-6221●	4.48	3.72	3.08
ADUM1401CRWZ	16	SOIC	SMD 122-6222●	7.36	5.21	4.23
ADUM1402ARWZ	16	SOIC	SMD 122-6223●	3.37	2.79	2.30
ADUM1402BRWZ	16	SOIC	SMD 122-6224●	4.48	3.72	3.08
ADUM1402CRWZ	16	SOIC	SMD 122-6225●	5.64	4.68	3.87
ADUM1410BRWZ	16	SOIC	SMD 122-6226●	6.52	4.47	3.61
ADUM2400ARWZ	16	SOIC	SMD 111-7114●	6.43	4.38	3.54
ADUM2400BRWZ	16	SOIC	SMD 111-7113●	7.82	6.00	5.09
ADUM2400CRWZ	16	SOIC	SMD 111-7112●	9.56	7.74	6.33
ADUM2401ARWZ	16	SOIC	SMD 111-7111●	6.43	4.38	3.54
ADUM2401BRWZ.	16	SOIC	SMD 111-7110●	7.82	6.00	5.09
ADUM2401CRWZ	16	SOIC	SMD 111-7109●	10.03	7.74	6.57
ADUM2402ARWZ	16	SOIC	SMD 111-7108●	6.43	4.38	3.54
ADUM2402BRWZ	16	SOIC	SMD 111-7107●	7.82	6.00	5.09
ADUM2402CRWZ	16	SOIC	SMD 111-7106●	10.03	7.74	6.57
ADUM3100BRZ	8	SOIC	SMD 143-9003●	4.40	3.02	2.25
ADUM3300BRWZ	16	SOIC	SMD 127-4140●	5.17	3.52	2.84
ADUM3301ARWZ	16	SOIC	SMD 127-4138●	3.86	2.64	1.96
ADUM3301BRWZ	16	SOIC	SMD 127-4137●	4.32	3.07	2.28
ADUM3301CRWZ	16	SOIC	SMD 127-4136●	6.53	4.62	3.73
ADUM3400ARWZ	16	SOIC	SMD 127-4135●	4.60	3.13	2.53
ADUM3400BRWZ	16	SOIC	SMD 127-4134●	6.87	4.70	3.79
ADUM3400CRWZ	16	SOIC	SMD 127-4133●	7.70	5.90	5.00
ADUM3401ARWZ	16	SOIC	SMD 127-4131●	4.60	3.13	2.53
ADUM3401BRWZ	16	SOIC	SMD 127-4130●	6.87	4.70	3.79
ADUM3401CRWZ	16	SOIC	SMD 127-4129●	6.66	5.08	4.93
ADUM3402ARWZ	16	SOIC	SMD 127-4128●	4.60	3.13	2.53
ADUM3402BRWZ	16	SOIC	SMD 127-4127●	6.87	4.70	3.79
ADUM3402CRWZ	16	SOIC	SMD 127-4126●	6.66	5.40	5.00
ADUM5240ARZ	8	SOIC	SMD 143-9004●	5.21	4.09	3.30
ADUM5241ARZ	8	SOIC	SMD 143-9006●	5.21	4.09	3.30
ADUM5242ARZ	8	SOIC	SMD 143-9007●	5.21	4.09	3.30

Digital Isolators

Silicon Laboratories

Silicon Lab's family of digital isolators are CMOS devices that employ an RF coupler to transmit digital information across an isolation barrier. Very high speed operation at low power levels is achieved. These parts are available in a 16-pin wide body SOIC package. Three speed grade options (1, 10, 150 Mbps) are available and achieve typical propagation delay of less than 10 ns.

451947

Mftrs. List No.	Order Code	Price Each 1+	10+	100+
SI8430-C-IS	SMD 129-1545●	4.63	3.79	3.08
SI8431-C-IS	SMD 129-1546●	5.25	3.91	3.12
SI8440-C-IS	SMD 129-1547●	5.79	4.29	3.42
SI8441-C-IS	SMD 129-1548●	5.79	4.29	3.42
SI8442-C-IS	SMD 129-1549●	5.79	4.29	3.42

Motion Control ICs

Motion Control ICs

AVAGO TECHNOLOGIES

The HCTL1100 is a high performance, general purpose motion control IC which frees the host processor for other tasks by performing all the time-intensive functions of digital motion control. The programmability of all control parameters provides maximum flexibility and quick design of control systems with a minimum number of components.

The HCTL2000 quadrature decoder/counter IC family provides a one-chip, easy to implement solution to interfacing the quadrature output of an encoder or digital potentiometer to a microprocessor system.

210440

	Pins	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
1100	40/DIP	General Purpose Motion Control IC	HCTL-1100..	407-460	35.68	27.49	20.93
2016	20/PLCC	Quadrature Decoder/Counter Interface IC. 16-Bit counter	HCTL-2017#PLC	SMD 121-8033●	19.31	16.98	14.81
2020	20/DIP	Quadrature Decoder/Counter Interface IC. 16-Bit counter. Quadrature decoder and cascade output signals	HCTL-2021	121-9755●	19.94	19.14	15.80
2020	20/PLCC	Quadrature Decoder/Counter Interface IC. 16-Bit counter. Quadrature decoder and cascade output signals	HCTL-2021#PLC	SMD 121-9756●	22.47	19.78	17.25

Motor Drivers and Triac Control Circuits

210441

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
101	BB	7	TO-220	PWM Solenoid/Valve driver	DRV101T	109-7420●	6.86	4.68	3.77	– –	– –
0107	TI	20	HSOP	PWM Control Intelligent H-Bridge	TPIC0107BDWPR	123-6567	3.75	2.50	1.88	1.64	1.50
211	ATM	18	DIP	Phase-Control With Overload Limitation for Tach Applications	U211B-MY	109-5805●	1.98	1.29	1.16	– –	– –
292	ST	15	Multiwatt	2A, 36V Switched Mode Driver for DC Motors	L292	109-4206●	6.39	5.67	4.70	4.32	3.77
293	UNI	16	DIP	Push-Pull Four Channel Driver - 2A output, 36V supply	L293N	110-1460●	7.70	5.95	5.02	4.06	– –
293	TI	16	DIP	Push-Pull Four Channel Driver - 2A output, 36V supply	L293NEE4	121-0964●	2.46	1.67	1.24	– –	– –
297	ST	20	DIP	Stepper Motor Controller - drives bi-phase and Quad-phase motors..	L297/1	109-4209●	9.37	7.60	7.25	6.12	5.47
401	TI	20	SOIC	Sensor Signal Conditioning IC	DRV401AIDWPG4	SMD 132-9585●	2.20	1.87	1.70	1.66	1.62
401	TI	20	QFN	Sensor Signal Conditioning IC	DRV401AIRGWTG4	SMD 132-9586●	3.14	2.68	2.36	2.09	1.87
616	ALL	4	SIP	Sensor, Geartooth Speed	ATS616LSGTN-T	132-9626●	3.85	2.62	2.08	2.03	1.97
628	NSC	28	DIP	Precision Motion Controller - 6MHz. 8 or 12-Bit DAC output data	LM628N6	119-7394●	56.97	44.13	36.83	28.41	25.76
629	NSC	24	SOIC	Motion control processor With 8-Bit PWM output data, 6MHz	LM629M-6	SMD 949-0000●	43.17	29.24	23.90	– –	– –
629	NSC	24	SOIC	Motion control processor With 8-Bit PWM output data, 8MHz	LM629M-8	SMD 948-9991●	74.83	50.69	41.44	– –	– –
629	NSC	28	DIP	Precision Motion Controller - 6MHz. 8-Bit sign-mAgnitude PWM output data	LM629N6	119-7395●	43.17	29.24	23.90	22.54	20.90
1815	NSC	14	DIP	Adaptive sense Amp. for motor control applications	LM1815N	949-3913●	3.19	2.61	2.40	2.33	2.18
1840	LTC	16	SSOP	Dual 8 Bit DAC Fan Controller with 2-Wire Interface	LTC1840CGN#PBF	NEW SMD 160-9781●	4.44	3.77	3.22	2.96	2.53
1840	LTC	16	SSOP	Dual 8 Bit DAC Fan Controller with 2-Wire Interface	LTC1840IGN#PBF	NEW SMD 160-9782●	5.05	4.28	3.67	3.36	2.87
2008	ATM	8	DIP	Full-Wave Current Sensing, Phase-Control With Soft Start	U2008B-MY	109-5804●	1.51	1.02	0.86	– –	– –

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Farnell

Motor Drivers and Triac Control Circuits - continued

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
2016	ON	8	DIP	Zero Voltage Controller to drive triacs With proportional regulation over ±1°C band	UAA2016PG	119-2087	0.94	0.77	0.63	0.49	– –
2637	TI	18	PDIP	DC Motor Controller	UC2637NG4	120-7367	5.27	3.97	3.29	– –	– –
2875	TI	28	SOIC	Phase Shift Resonant Controller	UC2875DWPG4	SMD 123-4976	9.71	7.36	5.68	5.34	4.99
2879	TI	20	PDIP	Phase Shift Resonant Controller	UC2879NG4	123-4988	7.35	5.58	4.30	4.04	3.78
2916	ALEG	24	DIP	Dual Full-Bridge Stepper Motor Controller/Driver	UDN2916B-T	119-3494	3.78	2.37	1.70	– –	– –
3625	TI	28	PLCC	DC Motor Controller	UC3625Q	SMD 121-2377	5.51	4.77	4.21	– –	– –
3637	TI	20	SOIC	DC Motor Controller	UC3637DW	SMD 121-2378	5.70	3.89	3.14	– –	– –
3637	TI	20	SOIC	DC Motor Controller	UC3637DW.	SMD 846-2305	3.49	2.68	2.42	– –	– –
3637	UNI	18	DIP	Switched Mode Controller for DC Motor Drive	UC3637N	110-1443	5.70	3.89	3.14	3.02	– –
3638	TI	20	SOIC	DC Motor Controller	UC3638DWG4	SMD 120-7379	4.93	3.71	3.06	– –	– –
3638	TI	20	PDIP	DC Motor Controller	UC3638NG4	120-7380	4.48	3.38	2.79	– –	– –
3717	ST	16	DIP	Stepper Motor Drive Circuit	E-PBL3717A	115-9695	2.13	1.52	1.22	1.19	1.16
3717	ST	16	DIP	Stepper Motor Drive Circuit	TEA3717DP	407-689▲	1.10	0.93	0.84	0.73	0.72
3717	TI	16	PDIP	Stepper Motor Driver	UC3717ANG4	120-7383	4.94	4.12	3.43	– –	– –
3718	ST	16	DIP	Stepper Motor Drive Circuit - Thermal Protection	E-TEA3718DP	115-9696	2.47	2.05	1.60	1.43	1.38
3770	TI	16	PDIP	Stepper Motor Driver	UC3770ANG4	120-7384	3.19	2.67	2.21	– –	– –
3875	TI	28	SOIC	Phase Shift Resonant Controller	UC3875DWPG4	SMD 123-4990	6.10	4.63	3.57	3.44	3.35
3879	TI	20	SOIC	Phase Shift Resonant Controller	UC3879DWG4	SMD 123-4928	6.71	4.80	3.74	3.58	3.29
3936	ALEG	44	PLCC	Three-Phase Motor Controller/Driver With Integrated 3A DMOS Drivers	A3936SED-T	SMD 119-8088	5.51	3.75	3.03	2.92	2.72
3953	ALEG	16	DIP	Full-Bridge Driver - 1.3A output, 50V supply	A3953SB-T	119-3497	2.69	1.90	1.55	1.50	– –
3955	ALEG	16	DIP	Full-Bridge PWM Micro-stepping Motor Driver, ±1.5A, 50V	A3955SB-T	119-3488	2.57	1.75	1.40	– –	– –
3966	ALEG	16	SOIC	Dual Full-Bridge Stepper Motor Driver, ±650mA, 30V	A3966SLB-T	SMD 114-1952	2.42	1.57	1.29	– –	– –
3977	ALEG	44	PLCC	Microstepping DMOS Driver With Translator	A3977SED-T	SMD 119-8089	4.94	3.36	3.26	3.17	3.09
3977	ALEG	28	TSSOP	Microstepping DMOS Driver With Translator	A3977SLP-T	SMD 119-8090	4.94	3.36	3.26	3.17	3.09
3980	ALEG	28	TSSOP	Automotive DMOS Microstepping Driver With Translator	A3980KLP-T	SMD 119-8091	4.31	2.94	2.51	2.45	2.39
4020	INTS	20	SOIC	Full-Bridge Driver - 0.5A output, 3V to 12V supply	HIP4020IBZ	SMD 121-6128	3.31	2.57	2.11	1.79	– –
4086	INTS	24	DIP	0.5A, 80V Three Phase Driver	HIP4086APZ	966-4203	4.12	3.61	3.08	2.62	– –
4104	TOSH	23	HZIP23-P-1.27H	Driver,MOTOR,500V 2A	TPD4104AK(LB2,Q)	129-7172	10.29	7.48	6.85	5.88	5.49
4105	TOSH	23	HZIP23-P-1.27H	Driver,MOTOR,500V 3A	TPD4105AK(LB2,Q)	129-7173	11.61	9.29	7.74	6.64	6.20
4111	TOSH	23	HZIP23-P-1.27H	Driver,MOTOR,250V 1A	TPD4111K(LB2,Q)	129-7174	7.44	5.79	4.97	4.26	3.98
4112	TOSH	23	HZIP23-P-1.27H	Driver,MOTOR,500V 1A	TPD4112K(LB2,Q)	129-7175	8.72	6.98	5.82	4.99	4.65
6201	ST	20	SOIC	DMOS Full-Bridge Driver 48V 1Amp, Inputs TTL, CMOS, μC compatible, SO20	L6201	SMD 127-1290	5.81	4.69	4.45	4.34	4.23
6202	ST	18	DIP	0.3 DMOS Full-Bridge Driver, 1.5A RMS at motor supply Voltages up to 48V	E-L6202	115-9693	7.58	6.13	4.62	3.91	3.46
6202	ST	18	DIP	0.3 DMOS Full-Bridge Driver, 1.5A RMS at motor supply Voltages up to 48V	L6202	127-1291	6.96	5.92	4.71	4.35	4.10
6203	ST	11	Multiwatt	0.3 DMOS Full-Bridge Driver. Can deliver 4A RMS at motor supply Voltages up to 48V	E-L6203	115-9694	7.26	5.53	4.70	3.87	3.57
6206	ST	24	SO	DMOS Dual Full Bridge Driver	L6206D	SMD 127-1019	9.37	7.91	6.84	6.06	5.70
6206	ST	24	DIP	DMOS Dual Full Bridge Driver	L6206N	127-1018	9.37	7.96	6.94	6.14	5.79
6208	ST	24	SO	DMOS Driver for Bipolar Stepper Motor	L6208D	SMD 127-1005	11.66	8.65	6.86	6.33	5.97
6208	ST	24	PowerDIP	DMOS Driver for Bipolar Stepper Motor	L6208N	127-1004	16.70	13.54	9.96	9.49	8.52
6212	ROHM	25	HSOP	DC Brush Motor H-Bridge Driver 7V 2A	BD6212FP-E2	NEW SMD 160-3628	1.55	1.20	0.99	0.91	0.84
6219	ST	24	DIP	Stepper Motor Drive Circuit	E-L6219	115-9699	3.20	2.99	2.59	2.39	2.25
6226	ROHM	25	HSOP	DC Brush Motor H-Bridge Driver 18V 1A	BD6226FP-E2	NEW SMD 160-3627	2.75	2.13	1.75	1.61	1.48
6228	ST	24	SO	DMOS Driver for BIPOLAR Stepper Motor	L6228D	SMD 127-1000	8.30	6.46	4.88	3.88	3.78
6228	ST	24	PowerDIP	DMOS Driver for BIPOLAR Stepper Motor	L6228N	127-0999	10.96	9.48	7.44	6.85	5.97
6229	ST	24	SO	DMOS Driver for Three-Phase Brushless DC Motor	L6229D	SMD 127-1002	9.22	7.17	5.42	4.57	4.05
6229	ST	24	DIP	DMOS Driver for Three-Phase Brushless DC Motor	L6229N	127-1001	8.78	7.25	5.74	5.31	5.01
6234	ST	20	DIP	Triple Half-Bridge for Three Phase Brushless Motor Control. 3V to 52V, 5Amp peak. TTL, CMOS, μP	L6234	109-4225	8.68	6.51	5.17	– –	– –
6235	ST	24	SO	DMOS Driver for Three-Phase Brushless DC Motor	L6235D	SMD 127-1007	12.66	9.86	7.82	7.20	6.81
6235	ST	24	DIP	DMOS Driver for Three-Phase Brushless DC Motor	L6235N	127-1006	16.04	13.18	9.49	9.14	8.97
6387	ROHM	40	HTSSOP	Stepping Motor Driver 36V 2A	BD6387EFV-E2	NEW SMD 160-3629	3.74	2.91	2.39	2.19	2.02
6393	ROHM	25	HSOP	Stepping Motor Driver 36V 1.2A	BD6393FP-E2	NEW SMD 160-3630	2.17	1.68	1.37	1.26	1.17
6506	ST	18	DIP	Current Controller for Stepper Motors	L6506	109-4230	3.97	3.24	2.59	– –	– –
6537	TOSH	24	SSOP	3-Phase Full-Wave Sensorless Controller For Brushless DC Motors	TB6537FG	SMD 129-7177	12.61	10.09	8.41	7.21	6.72
6651	MAX	16	QSOP	5V/12V DC Brushless Fan-Speed Regulator and Monitor	MAX6651EEE+	NEW SMD 161-0118	4.83	3.98	3.25	2.76	2.57
6801	ALEG	28	PLCC	DABiC-5 Latched Sink Drivers	A6801SEP-T	SMD 119-8095	2.71	2.14	1.77	1.50	1.35
7026	ALL	18	SIP	3A Unipolar Stepper Motor Controller/Driver	SLA7026M	132-9627	6.42	5.58	4.94	4.42	4.01
7062	ALL	21	SIP	3A Unipolar Stepper Motor Controller/Driver	SLA7062M	132-9628	7.33	6.38	5.63	5.05	4.59
7232	LSI	8	DIP	Touch Control Dimmer Switch and A.C. Motor Speed Controller	LS7232	121-9012	4.07	3.28	2.73	– –	– –
7400	ADI	16	SOIC	Isolated SigmA-Delta Modulator (10 MHz Data Rate)	AD7400YRWZ	SMD 127-4243	8.51	5.79	4.68	4.50	4.20
7401	ADI	16	SOIC	Isolated SigmA-Delta Modulator (Up to 16 MHz Data Rate)	AD7401YRWZ	SMD 127-4242	7.26	5.14	4.13	3.98	3.72
8904	ALEG	24	SOIC	Three-Phase Brushless DC Motor Controller/Driver With Back-EMF Sensing	A8904SLB-T	SMD 119-8103	13.00	10.27	8.50	7.24	6.50
17511	FSL	16	VMFP	1.0A, 6.8V H-Bridge Motor Driver IC	MPC17511AEV	SMD 129-6224	1.08	0.89	0.80	0.73	0.69
18201	NSC	11	SIL	3A, 55V H-Bridge, alLows for Current sensing via a resistor	LMD18201T	949-4278	16.85	10.01	7.98	6.90	6.72
33033	ON	20	DIP	Brushless DC Motor Controller	MC33033PG	119-2086	3.40	2.92	2.40	2.00	– –
33035	ON	24	DIP	Brushless DC Motor Controller, for Open Loop Control.	MC33035PG	119-2056	3.78	2.80	2.00	– –	– –
33039	ON	8	SOIC	Closed Loop Brushless Motor Adapter. (IND TEMP).	MC33039DG	SMD 121-1112	1.57	1.16	0.85	– –	– –
33886	FSL	20	HSOP	5.0 A H-Bridge	MC33886VW	SMD 114-8371	4.79	2.87	2.50	2.25	– –
34920	FSL	44	PLCC	2.8 μ (Typ) Quad H-Bridge Motor Driver	MC34920EI	SMD 129-6202	7.61	4.70	4.25	4.04	3.83

Motor Drivers

Allegro

496469

	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
6	20	SOIC	8bit Serial-Input DMOS Power Driver	A6B595KLW-T	SMD 152-1694	1.29	1.17	1.05	0.97	0.89
2559	16	DIP	Protected Quad Power Driver	UDN2559B-T	152-1727	3.38	3.01	2.71	2.46	2.25
2982	18	DIP	8 Channel Source Driver	UDN2982A-T	152-1728	1.58	1.08	0.77	0.69	0.67
2987	20	DIP	8 Channel Source Driver with Overcurrent Protection	UDN2987A-6-T	152-1729	2.39	1.63	1.21	1.16	1.13
3930	48	LQFP	Automotive Three Phase BLDC Controller and MOSFET Driver.	A3930KJP-T	NEW SMD 165-0229	4.30	3.70	3.36	2.85	2.77
3931	48	LQFP	Automotive Three Phase BLDC Controller and MOSFET Driver.	A3931KJP-T	NEW SMD 165-0231	4.30	3.70	3.36	2.85	2.77
3950	16	TSSOP	DMOS Full-Bridge Motor Driver.	A3950SLP-T	SMD 152-1711	2.50	2.25	2.06	1.87	1.74
3953	16	SOIC	Full-Bridge PWM Motor Driver	A3953SLB-T	SMD 152-1712	2.62	2.35	2.14	1.95	1.81
3955	16	SOIC	Full Bridge PWM Microstepping Motor Driver	A3955SLB-T	SMD 152-1713	2.49	2.24	2.05	1.87	1.73
3959	24	DIP	DMOS Full-Bridge PWM Motor Driver	A3959SB-T	152-1714	4.24	2.88	2.15	2.05	2.00
3967	24	SOIC	Microstepping Driver with Translator	A3967SLB-T	SMD 152-1715	2.46	1.67	1.28	1.25	1.21
3979	28	TSSOP	Microstepping DMOS Driver with Translator	A3979SLP-T	SMD 152-1716	5.37	4.84	4.40	4.03	3.45
3982	24	SOIC	DMOS Stepper Motor Driver with Translator	A3982SLB-T	SMD 152-1717	3.34	2.27	1.80	1.75	1.71
3983	24	TSSOP	DMOS Microstepping Driver with Translator	A3983SLP-T	SMD 152-1719	3.59	2.45	2.16	2.10	2.05
3984	24	TSSOP	DMOS Microstepping Driver with Translator	A3984SLP-T	SMD 152-1721	3.59	2.45	1.82	1.74	1.69

RL Re-reeling available

Farnell

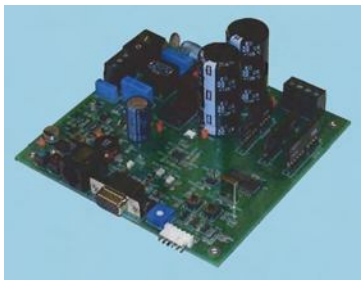
	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
3995	36	QFN	Motor Driver	A3995SEV-T	SMD 152-1687●	3.30	2.97	2.70	2.47	2.27
4935	48	LQFP	Automotive 3-Phase MOSFET Driver	A4935KJP-T	NEW SMD 165-0234●	4.04	3.60	2.95	2.49	2.42
6801	24	SOIC	8 Channel Latched Sink Drivers	A6801SLW-T	SMD 152-1722●	1.88	1.28	0.97	0.94	0.92
6805	23	SIP	High Voltage 3-Phase Motor Driver	SLA6805MP	NEW 165-0238●	8.26	8.03	7.81	7.61	7.41
6832	44	PLCC	32bit Serial Input Latched Sink Drivers	A6832EEP-T	SMD 152-1693●	6.65	5.98	5.44	4.98	4.60

210442

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
06	IR	23	DIP Module	Plug N Drive Integrated Power Module for Appliance Motor Drive	IRAMS06UP60A-2	108-0649●	14.87	9.31	7.84	– –	– –
06	IR	23	DIP Module	Plug N Drive Integrated Power Module for Appliance Motor Drive	IRAMS06UP60B-2	108-0650●	20.11	12.64	10.64	– –	– –
10	IR	23	DIP Module	Integrated Power Hybrid IC for Appliance Motor Drive Applications	IRAMS10UP60B-2	108-0651●	20.00	12.66	10.66	– –	– –
16	IR	23	DIP Module	Integrated Power Hybrid IC for Appliance Motor Drive Applications	IRAMX16UP60B-2	108-0652●	31.95	20.27	17.04	– –	– –
20	IR	23	DIP Module	Plug N Drive Integrated Power Module for Appliance Motor Drive	IRAMX20UP60A-2	108-0653●	32.27	19.35	15.91	– –	– –
200	ST	18	DIL	2.5A Chopped Bipolar Stepper Motor Driver with fully protected outputs	GSD200S.	407-513	56.52	41.32	34.28	31.43	30.17
3101	IR	9	SIL	Half-Bridge FredFET and Integrated Driver	IR3101	108-0646●	5.58	3.13	2.72	– –	– –

IRADK31 Reference Design Kit

International IOR Rectifier



The IRADK31 reference design kit is an electronic controller for driving a 1/3HP 3-phase motor from either a single phase 120VAC OR 230VAC.The circuit provides all the necessary functions, including software driven High performance Micro Controller, for starting and operating the motor. It also includes an AC on/off switch, EMI filter and the rectification stage with a buck-converter system that provides the auxiliary +15V and +5V supply. This controller is software driven through a Graphical User Interface (GUI) that enables the user to control the entire electrical system and motor parameters. In addition, it allows the user to monitor the DC bus current, motor speed, and detects fault conditions.

Features:
- Fused 120/230VAC input
- AC input on/off switch and EMI filter
- NTC inrush current limiter
- 3-Phase, variable voltage output
- Opto-isolated RS-232 serial link interface to the Graphic User Interface software
- Integrated auxiliary power supply of +15V and +5V
- Fault protection for over current condition
- Stand-alone Mode and fully software driven (PC Mode) using Graphical User Interface
- PIC18F2431 motor control MCU from Microchip Technology Inc. with Power PWM module and Hi-speed 10-bit A/D converter
- RJ11 connector to MPLAB ICD2 that provides programming or I-Circuit debugger interface

494435

Mftrs. List No.	Order Code	Price Each
IRADK31	143-6882●	196.90

TMC246/249 Stepper Motor Driver

TRINAMIC





The TMC246/249 are smart power microstepping drivers for bipolar stepper motors. The integrated unique sensorless stall detection StallGuar™ makes them a good choice for applications where a reference point is needed, but where a switch cannot be used. They provide an SPI™ interface as well as the classical analog/digital control.

TMC246

The TMC246 integrates low-RDS-ON TrenchFET® power MOSFETs to give an extremely high efficiency and allow driving of a motor current of up to 1.5A per phase without cooling measures. The small package and high efficiency make the device a suitable for embedded motion control and even for battery powered designs.

TMC249

The TMC246-EVAL and TMC249-EVAL provide a platform to evaluate all the features and capabilities of the TMC246/249 stepper motor drivers. External control elements provide a wide range of selectable driver parameters, e.g. slope control or coil current. Also, the StallGuard features can be explored, as the load value is indicated by LEDs and their are buttons which can be used to set up a stall threshold. There is also a PC software that supports all these features.

335194

	Mftrs. List No	Order Code	Price Each 1+	10+	50+
Motor Controller IC (PQFP 44)	TMC246A-PA	SMD 121-4192●	6.33	5.31	4.58
Motor Controller IC (SO 28)	TMC249A-SA	SMD 121-4193●	5.95	5.21	4.48

Trinamic Motion Control Modules (TMCM)

TRINAMIC





Trinamic Motion Control Modules (TMCM) are embedded stepper motor control subsystems, targeted towards OEM applications such as lab automation, office automation, embedded industrial control and automated optics with production volumes up to a few 1000 units per year. The modules combine Trinamic's dedicated position control and driver chip sets with Atmel's ATmega32 (32kByte Flash + 2kByte SRAM) microcontroller.A powerful, yet easy-to-use programming environment makes stepper control as simple as a few mouse clicks, significantly reducing project design time.

- Easy-to-use high level TMCL programming language
- Controls up to three bipolar stepper motors
- Microstepping
- Serial UART interface
- Smart programmable current control, ramps, velocity
- Limit and reference switch connection points
- Stand alone or host controlled operation
- In system programmable microcontroller
- 16kByte instruction memory for control programming
- On-board diagnostics

In order to facilitate the design-in process Trinamic also produces a comprehensive evaluation kit. The kit comes with a TMCM-baseboard, programming and evaluation software for Windows OS (9X, XP, NT4.0, 2000), documentation, a RS232 cable and stepper motors. Simply plug the TMCM onto the baseboard and connect external cables such as power supply and motor wiring using the onboard screw terminals then Link up to a PC via the RS232 port and use the terminal software to instantly communicate with the TMCM.

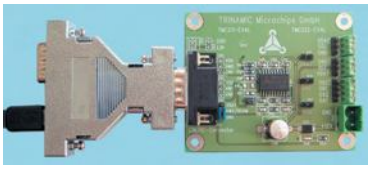
Mftrs. List No	
TMCM-301	3-axis controller module with SPI out, 2mm connector, 80x50mm
TMCM-302	3-axis controller module with step/dir. out, SPI, 2mm connector, 80x50mm
TMCM-303	3-axis controller/driver 1.1A/34V, SPI, 2mm connector, 80x50mm
TMCM-310	As TMCM-303 except with screw terminals (no base board necessary), 160x100mm
TMCM-303-EVALKIT	Starter kit with TMCM-303, TMCM Baseboard, 3 stepper motors, RS-232 cable and software CD

311137

Mftrs. List No	Order Code	Price Each 1+	+	+
TMCM-301	121-4188●	96.90	– –	– –
TMCM-302	121-4189●	157.89	– –	– –
TMCM-303	121-4190●	170.90	– –	– –
TMCM-310	121-4191●	170.90	– –	– –
TMCM-303-EVALKIT	442-6472	341.54	– –	– –

Motor Drivers and Triac Control Circuits - continued

TMC211/TMC222 Stepper Motor Controller/Driver



The TMC211 and TMC222 are combined micro-stepping stepper motor motion controller and driver ICs with RAM and OTP memory. The RAM or OTP memory is used to store motor parameters and configuration settings. The devices allow up to four bit of microstepping and a coil current of up to 800 mA.
Communications with the TMC211 controller take place via a LIN interface and communications with the TMC222 controller take place via an I²C interface.

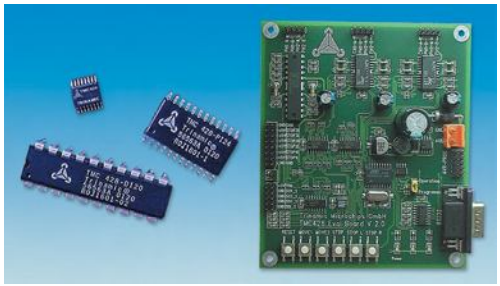
Evaluation Boards
The TMC222-EVAL KIT provides a platform to evaluate all the features and capabilities of the TMC222 stepper motor controller and driver IC. The kit allows the TMC222 chip to the easily be connected a power supply, a motor and an I²C master. Using USB-2-X interface converter (included in the kit), the demonstration board connects to a PC running Windows 98/2000/XP via the USB port. The TechLibCD Evaluation software is also included.

336162

	Mftrs. List No	Order Code	1+	Price Each +	+
Motor Controller IC (SO-20) - LIN	TMC211-SA	SMD 121-4194●	5.67	– –	– –
Motor Controller IC (SO-20) - I2C	TMC222-SI	SMD 121-4195●	5.83	– –	– –
Evaluation Board	TMC222-EVAL KIT	489-5083	217.36	– –	– –
USB Interface	USB-2-X V2	121-4547●	135.42	– –	– –

TMC428 Stepper Motor Controller

IC for controlling up to three stepper motors



The TMC428 is a miniaturized high performance stepper motor controller for up to three motors. It integrates all real time critical tasks in reliable, dedicated hardware: An integrated motion ramp profile generator as well as an adaptable microstep sequencer with microstep RAM table. Advanced stop- and reference switch handling allows for precise and fast referencing as well as on-the-fly position checking. Automatic motor current control gives high motor dynamics while saving energy.The TMC428 connects to the TRINAMICs SPI™ drivers (TMC236,TMC239,TMC246 and TMC249) or to Step-/direction drivers. A second SPI™ interface allows communication with a host microcontroller. The host microcontroller just needs to do high-level control tasks, e.g. giving the command: Drive motor 2 to position 1000. The TMC428 then automatically calculates the motion ramp based on velocity and acceleration parameters.

Evaluation Board
The TMC428-EVAL allows the exploration of the TMC428s functions and aids the development of applications. It is equipped with the TMC246 and TMC249 motor drivers for high performance motor control. The is supplied with PC software.

243333

	Mftrs. List No	Order Code	1+	Price Each 10+	100+
Motor Controller-IC (SSO-16)	TMC428-I	SMD 121-4183●	12.82	10.15	9.01
Motor Controller-IC (SO-24)	TMC428-PI 24	SMD 121-4185●	11.55	9.50	8.07
Evaluation Board	TMC428-EVA	417-7289	123.06	– –	– –

TMC236 Stepper Motor Controller



The TMC236 is a smart power microstepping driver for bipolar stepper motors. It provides an SPI™ interface as well analog/digital control. The integrated low-RDS-ON TrenchFET® power MOSFETs give an extremely high efficiency and allow driving of a high motor current of up to 1.5A per phase without cooling measures even at high environment temperatures. The small footprint and high efficiency make the device a perfect solution for embedded motion control, even for battery powered designs.

Evaluation Board
The TMC236-EVAL provides a platform to evaluate all the features and capabilities of the TMC236 stepper motor driver. External control elements provide a wide range of selectable driver parameters, e.g. slope control or coil current. The board offers measurement points to observe the most important signals.

311688

	Mftrs. List No	Order Code	1+	Price Each +	+
Motor Driver IC (PQFP 44)	TMC239A-SA	SMD 121-4187●	7.34	– –	– –
Motor Driver IC (PQFP 44)	TMC236A-PA	SMD 121-4186●	7.34	– –	– –
Evaluation Board	TMC236-EVAL	433-5582	95.28	– –	– –

TMC 239 Stepper Motor Controller



The TMC239 is a smart high current microstepping driver for bipolar stepper motors. It provides an SPI™ interface as well as analog / digital control. It directly drives external MOSFETs for currents up to 4A. This way it reaches an extremely high efficiency and allows driving of a high motor current without cooling measures even at high environment temperatures.The high motor current makes this device ideal for miniaturized highly dynamic and high torque drive systems.

311689

	Mftrs. List No	Order Code	1+	Price Each +	+
Motor Controller IC (SO28)	TMC239A-SA	SMD 121-4187●	7.34	– –	– –

Power Drivers

210444

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	1+	10+	Price Each 100+	250+	500+
7	TI	8	SSOP	Dual MOSFET Drivers	SN75372PE4	128-7630●	1.070	0.900	0.710	0.630	0.620
44	MICR	8	MSOP	Driver, MOSFET, 6A	MIC44F18YMME	SMD 129-2992●	1.990	1.320	0.980	– –	– –
44	MICR	8	MSOP	Driver, MOSFET, 6A	MIC44F19YMME	SMD 129-2993●	1.990	1.320	0.980	– –	– –
293	TI	16	DIP	Quadruple Half-H Driver	L293DNEE4	958-9619●	2.100	1.760	1.520	– –	– –
293	TI	16	PDIP	2A Peak O/P Quad Half-H Driver	L293NE.	NEW 156-4967●	2.240	1.840	1.660	1.360	1.140
298	ST	15	Multiwatt H	Dual Full-bridge Driver	L298HN	136-6570●	5.910	4.130	3.330	2.960	2.590
310	ST	16	SOIC	Triple MOSFET/IGBT Driver. (IND TEMP)	TD310ID	SMD 121-8309●	1.390	1.210	1.040	0.950	0.860
330	ST	10	PowerSOIC	Quad High Side SmArt Power Solid State Relay	VN330SP-E	SMD 107-7244●	7.740	6.950	5.250	4.410	4.190
340	ST	10	PowerSOIC	Quad High Side SmArt Power Solid State Relay	VN340SP-E	SMD 107-7245●	7.800	7.140	5.520	4.640	4.510
350	ST	14	SO	Advanced IGBT/MOSFET Driver	TD350ID	SMD 127-1012●	3.270	2.670	1.960	1.730	1.550
351	ST	8	SO	Advanced IGBT/MOSFET Driver	TD351ID	SMD 127-1013●	1.350	1.190	1.150	1.120	1.100
351	ST	8	DIP	Advanced IGBT/MOSFET Driver	TD351IN	127-1014●	2.210	1.500	1.220	1.090	0.970
352	ST	8	SO	Advanced IGBT/MOSFET Driver	TD352ID	SMD 127-1017●	2.370	1.800	1.540	1.380	1.330
352	ST	8	DIP	Advanced IGBT/MOSFET Driver	TD352IN	127-1016●	1.970	1.520	1.290	1.180	1.130
395	NSC	3	TO-92	Ultra Reliable Power Transistor 0.1A O/P	LP395Z/NOPB	NEW SMD 168-5345●	1.110	0.870	0.710	0.650	0.580
426	MCHIP	8	SOIC	1.5A Peak Dual High-Speed Inverting Power MOSFET Driver	TC426COA	NEW SMD 155-7430●	0.830	0.620	0.490	– –	– –
426	MCHIP	8	DIP	MOSFET Driver, 1.5A Dual High Speed inverting	TC426CPA	119-6815●	0.730	0.560	0.500	– –	– –
628	MAX	8	SOIC	Dual MOSFET Driver	MAX628CSA+	SMD 118-8050●	3.430	2.290	2.010	1.750	– –
706	ALEG	8	SOIC	Bidirectional 1.5 m<OMEGA/> Hall Effect Based Linear Current Sensor With 15A Optimized Measurement Range	ACS706ELC-05C	SMD 117-4677●	5.500	3.440	2.750	– –	– –
754	ALEG	5	CB-PFF	50A Current Sensor	ACS754LCB-050-PFF	117-4681●	4.940	3.360	2.800	– –	– –
754	ALEG	5	CB-PFF	100A Current Sensor	ACS754LCB-100-PFF	117-4682●	4.940	3.360	2.800	– –	– –
808	ST	36	PowerSOIC	Octal Channel High Side Driver	VN808-E	SMD 107-7246●	7.260	6.570	5.300	4.660	4.410
860	ST	10	PowerSOIC	Quad Channel High Side Driver	VNQ860SP-E	SMD 107-7249●	5.070	4.080	3.050	2.420	2.400
890	MAX	8	SOIC	1A Current Limited, High-Side P-Channel Switch With ThermAl Shutdown. (IND TEMP)	MAX890LESA+	SMD 972-4591●	1.610	1.080	0.900	– –	– –
891	MAX	8	SOIC	0.5mA Current Limited, High-Side P-Channel Switch, With ThermAl-Shutdown	MAX891LEUA+	SMD 972-3749●	2.390	1.590	1.330	1.200	– –
892	MAX			High-Side P-Channel Switches 250mA Current Limit	MAX892LEUA+	NEW 161-0133●	2.120	1.740	1.430	1.200	1.120
1153	LT	8	SOIC	Electronic Circuit Breaker	LTC1153CS8#PBF	SMD 127-3503●	3.210	1.880	1.720	– –	– –
1154	LT	8	SOIC	Single Hi Side MOSFET Switch Dx	LTC1154CS8#PBF	SMD 127-3505●	2.630	1.720	1.540	– –	– –
1158	LT	16	SOIC	HalfBridge N-Ch Pwr MOSFET Driver	LT1158CSW#PBF	SMD 127-3473●	6.620	3.740	2.890	– –	– –
1160	LT	14	SOIC	HalfBridge N-Ch Pwr MOSFET Driver	LT1160CS#PBF	SMD 127-3475●	5.320	3.020	2.460	– –	– –
1161	LT	20	SOIC	Quad Hi Volt Hi Side N-Ch MOSFET Driver	LT1161CSW#PBF	SMD 127-3476●	6.620	3.740	2.770	– –	– –
1162	LT	24	SOIC	FullBridge N-Ch Pwr MOSFET Driver	LT1162CSW#PBF	SMD 127-3477●	8.590	5.710	4.790	– –	– –

RL Re-reeling available

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
1401	MCHIP	5	SOT-23	Tiny 500 mA, High-Speed Power MOSFET Driver	MCP1401T-E/OT	SMD 143-9710	0.460	0.370	0.310	0.240	0.210
1402	MCHIP	5	SOT-23	Tiny 500 mA, High-Speed Power MOSFET Driver	MCP1402T-E/OT	SMD 143-9711	0.460	0.370	0.310	0.240	0.210
1403	MCHIP	8	PDIP	4.5A Dual High-Speed Power MOSFET Drivers	MCP1403-E/P	131-7119	1.640	0.890	0.770	0.670	0.600
1403	MCHIP	8	SOIC	MOSFET Driver, Dual 4.5A	MCP1403-E/SN	SMD 133-2075	1.240	1.030	0.660	– –	– –
1404	MCHIP	8	SOIC	MOSFET Driver, Dual 4.5A	MCP1404-E/SN	SMD 133-2076	1.280	1.070	0.700	– –	– –
1404	MCHIP	8	PDIP	4.5A Dual High-Speed Power MOSFET Drivers	MCP1404-E/P	131-7121	1.700	0.930	0.800	0.690	0.630
1405	MCHIP	8	PDIP	4.5A Dual High-Speed Power MOSFET Drivers	MCP1405-E/P	131-7122	1.360	0.740	0.640	0.550	0.500
1405	MCHIP	8	SOIC	MOSFET Driver, Dual 4.5A	MCP1405-E/SN	SMD 133-2078	1.280	1.070	0.700	– –	– –
1406	MCHIP	8	SOIC	MOSFET Driver, Single 6A	MCP1406-E/SN	SMD 133-2079	0.580	0.480	0.330	– –	– –
1406	MCHIP	8	PDIP	Low-Side MOSFET Drivers 2A-9A Peak Output Current	MCP1406-E/P	131-7123	0.640	0.400	0.340	0.280	0.240
1407	MCHIP	8	SOIC	MOSFET Driver, Singl 6A	MCP1407-E/SN	SMD 133-2080	0.580	0.480	0.330	– –	– –
1407	MCHIP	8	PDIP	Low-Side MOSFET Drivers 2A-9A Peak Output Current	MCP1407-E/P	131-7124	0.800	0.500	0.420	0.350	0.340
1426	MCHIP	8	SOIC	1.2A Dual High-Speed MOSFET Driver	TC1426COA	SMD 143-9742	0.660	0.510	0.340	– –	– –
1426	MCHIP	8	PDIP	Driver, MOSFET,1.2A, Dual	TC1426CPA	129-2281	0.660	0.490	0.450	– –	– –
1427	MCHIP	8	PDIP	Driver, MOSFET,1.2A, Dual	TC1427CPA	129-2282	0.570	0.410	0.390	– –	– –
1477	LT	8	SOIC	Single Protected High Side Switch	LTC1477CS8#PBF	NEW SMD 166-3632	5.730	4.440	3.550	2.960	2.660
1640	LT	8	SOIC	Negative Voltage Hot Swap Controller	LT1640LIS8#PBF	NEW SMD 166-3464	4.260	3.190	2.550	2.130	1.910
1641	LT	8	SOIC	Positive High Voltage Hot Swap Controller	LT1641-2CS8#PBF	NEW SMD 166-3465	4.730	3.540	2.840	2.360	2.120
1619	LT	8	MSOP	Low Voltage Current Mode PWM Controller	LT1619EMS8#PBF	NEW SMD 166-3451	4.260	3.190	2.550	2.130	1.910
1619	LT	8	SOIC	Low Voltage Current Mode PWM Controller	LT1619ES8#PBF	NEW SMD 166-3452	4.030	3.020	2.420	2.020	1.810
1614	MAX	8	SOIC	High-side, N-channel MOSFET Switch driver	MAX1614EUA+	SMD 972-5083	3.810	2.440	1.660	– –	– –
1693	LT	8	SOIC	Dual High Speed MOSFET Driver	LTC1693-1CS8#PBF	SMD 127-3525	3.310	1.850	1.350	– –	– –
1693	LT	8	SOIC	Dual High Speed MOSFET Driver	LTC1693-2CS8#PBF	SMD 127-3526	3.170	2.110	1.770	– –	– –
1910	LT	8	SOIC	Protected High Side MOSFET Driver	LT1910ES8#PBF	SMD 127-3493	3.900	2.370	1.870	– –	– –
1919	NSC	8	minDIP	Injector Drive Controller	LM1949N/NOPB	NEW 156-4728	3.580	2.950	2.420	2.010	1.850
2003	NSC	16	MDIP	7 High Current/Voltage NPN Darlington Drivers	DS2003CN/NOPB	NEW 156-4698	0.720	0.610	0.500	0.400	0.380
2004	IR	8	SOIC	Half Bridge Driver High Speed Power MOSFET & IGBT Drivers	IRS2004SPBF	NEW SMD 155-6860	1.340	1.150	0.900	– –	– –
2005	MICR	6	SOT-23	Fixed Current 0.5A Limit Power Distribution Switch	MIC2005-0.5YM6 TR	NEW SMD 166-3121	1.020	0.830	0.670	0.610	0.510
2005	MICR	6	SOT-23	Fixed Current 1.2A Limit Power Distribution Switch	MIC2005-1.2YM6 TR	NEW SMD 166-3122	1.020	0.830	0.670	0.610	0.510
2011	IR	8	SOIC	Input Logic HIN/LIN active High	IR2011SPBF	SMD 821-0799	3.080	1.750	1.340	– –	– –
2011	IR	8	DIP	High and Low Side Driver in a 8-Lead PDIP package	IRS2011PBF	127-1771	1.860	1.210	1.030	– –	– –
2024	TI	8	SOIC	2.2A 2.7-5.5V Single Power Distribution Switch,Hi-Side MOSFET, Fault Report, Act-Low Enable	TPS2024DG4	SMD 123-5040	1.440	1.140	0.860	0.830	0.770
2025	MICR	8	SOIC	Single-Channel Power Distribution Switch	MIC2025-1YM	NEW SMD 166-3120	0.830	0.690	0.550	0.500	0.420
2100	INTS	8	SOIC	Half-Bridge 2A, 100V DC MOSFET Driver	HIP2100IBZ	SMD 966-4190	3.440	1.820	1.290	1.120	– –
2101	INTS	8	SOIC	100V/2A Peak High Frequency N-Channel MOSFET Half Bridge Driver	HIP2101IBZ	NEW SMD 156-1951	2.480	1.930	1.580	1.340	1.230
2101	IR	8	DIP	Non Inverting Inputs	IR2101PBF	863-8713	2.340	1.140	0.950	– –	– –
2101	IR	8	SOIC	Non Inverting Inputs	IR2101SPBF	SMD 863-8721	3.390	2.000	1.620	– –	– –
2101	IR	8	DIP	High and Low Side Driver	IRS2101PBF	127-1773	2.000	1.250	1.020	0.930	0.870
2101	IR	8	SOIC	High and Low Side Driver	IRS2101SPBF	SMD 127-1774	2.670	1.400	1.160	1.020	0.900
2102	IR	8	DIP	High & Low Side Driver, Inverting Inputs	IR2102PBF	102-3201	2.350	1.630	1.350	– –	– –
2103	IR	8	DIP	520ns Deadtime/Inverting Low Side Input	IR2103PBF	863-9590	2.930	1.430	1.190	– –	– –
2103	IR	8	SOIC	520ns Deadtime/Inverting Low Side Input	IR2103SPBF	SMD 863-8730	3.460	2.030	1.690	– –	– –
2103	IR	8	DIP	Half Bridge Driver With Separate High and Low Side Inputs, Inverting Low Side Input	IRS2103PBF	127-1776	2.930	1.430	1.190	0.990	0.880
2103	IR	8	SOIC	Half Bridge Driver With Separate High and Low Side Inputs, Inverting Low Side Input	IRS2103SPBF	SMD 127-1777	1.740	0.950	0.780	0.740	0.720
2104	IR	8	DIP	520ns Deadtime/Inverting Shutdown pin	IR2104PBF	863-8748	2.930	1.430	1.190	– –	– –
2104	IR	8	SOIC	520ns Deadtime/Inverting Shutdown pin	IR2104SPBF	SMD 863-8756	3.090	1.820	1.510	– –	– –
2104	IR	8	DIP	Half Bridge Driver With Single Input Plus Inverting Shutdown Pin	IRS2104PBF	127-1778	2.930	1.430	1.190	0.990	0.880
2104	IR	8	SOIC	Half Bridge Driver With Single Input Plus Inverting Shutdown Pin	IRS2104SPBF	SMD 127-1779	2.670	1.400	1.160	1.020	0.900
2106	IR	8	DIP	Non Inverting Inputs/Soft Turn On	IR2106PBF	863-8780	2.860	1.500	1.240	– –	– –
2106	IR	8	SOIC	Non Inverting Inputs/Soft Turn On	IR2106SPBF	SMD 863-8799	3.080	1.820	1.490	– –	– –
2106	IR	8	SOIC	High and Low Side Driver, SoftTurn-On	IRS2106SPBF	SMD 127-1784	1.720	1.460	1.200	0.940	0.680
2108	IR	8	DIP	Half Bridge Driver, Soft Turn-On, Fixed 500ns Deadtime	IR2108PBF	102-3205	2.920	1.530	1.270	– –	– –
2108	IR	8	SOIC	500nS Deadtime/Sot Turn On Hi And Lo Inputs	IR2108SPBF	SMD 863-8802	2.750	1.620	1.330	– –	– –
2108	IR	8	DIP	Half Bridge Driver With Soft Turn-On	IRS2108PBF	127-1789	1.900	1.040	0.860	0.840	0.820
2109	IR	8	DIP	Half Bridge Driver, Soft Turn-On, Single Input Plus Shut-Down, Fixed 500ns Deadtime	IR2109PBF	102-3207	2.810	1.470	1.220	– –	– –
2109	IR	8	SOIC	500ns Deadtime/Soft Turn On Single Input + Shutdown	IR2109SPBF	SMD 863-8829	3.520	2.070	1.700	– –	– –
2109	IR	8	DIP	Half Bridge Driver, Soft Turn-On	IRS2109PBF	127-1791	2.210	1.340	1.120	0.960	0.870
2110	IR	14	DIP	One Side Hi Volt/SeparateLogic & Power Ground	IR2110PBF	863-8837	3.850	2.020	1.670	– –	– –
2110	IR	16	SOIC	One Side Hi Volt/SeparateLogic & Power Ground	IR2110SPBF	SMD 863-8845	6.060	3.910	2.740	– –	– –
2110	IR	14	DIP	High and Low Side Driver With All High Voltage Pins On One Side	IRS2110PBF	127-1795	3.110	2.100	1.730	1.490	1.340
2110	IR	14	SOIC	High and Low Side Driver With All High Voltage Pins On One Side	IRS2110SPBF	SMD 127-1796	4.010	2.110	1.740	1.530	1.350
2111	IR	8	SOIC	Half Bridge Driver, Fixed 650ns Deadtime	IR2111SPBF	SMD 863-8861	3.690	2.160	1.780	– –	– –
2111	IR	8	DIP	Half Bridge Driver, Fixed 650ns Deadtime	IRS2111PBF	127-1797	1.960	1.070	0.890	0.780	0.730
2111	IR	8	SOIC	Half Bridge Driver, Fixed 650ns Deadtime	IRS2111SPBF	SMD 127-1798	2.970	1.560	1.290	1.130	1.000
2112	IR	16	SOIC	Shutdown Input	IR2112SPBF	SMD 863-8870	3.940	2.310	1.900	– –	– –
2112	IR	14	DIP	High and Low Side Driver, Shutdown Input	IRS2112PBF	149-8192	1.790	1.360	1.180	1.020	0.960
2112	IR	16	SOIC	High and Low Side Driver, Shutdown Input	IRS2112SPBF	SMD 149-8193	1.790	1.360	1.180	1.020	0.960
2113	IR	16	SOIC	One Side Hi Volt/SeparateLogic & Power Ground	IR2113SPBF	SMD 863-8888	5.820	3.960	2.890	– –	– –
2113	IR	14	DIP	High and Low Side Driver With All High Voltage Pins On One Side	IRS2113PBF	127-1802	3.040	1.980	1.610	1.330	1.280
2113	IR	16	SOIC	High and Low Side Driver With All High Voltage Pins On One Side	IRS2113SPBF	SMD 127-1803	2.900	1.580	1.310	1.290	1.260
2114	IR	24	SSOP	600V Half Bridge Driver IC for Power Switching Applications	IR2114SSPBF	SMD 149-8177	5.640	4.510	3.760	3.230	3.020
2117	IR	8	SOIC	Non Inverting Input	IR2117SPBF	SMD 863-8896	3.020	1.770	1.460	– –	– –
2117	IR	8	DIP	Single High Side Driver, Noninverting Input	IRS2117PBF	149-8194	1.270	1.020	0.860	0.720	0.670
2117	IR	8	SOIC	Single High Side Driver, Noninverting Input	IRS2117SPBF	SMD 149-8195	1.270	1.020	0.860	0.720	0.670
2118	IR	8	SOIC	Single High Side Driver, Inverting Input	IR2118SPBF	SMD 102-3208	2.130	1.480	1.210	– –	– –
2118	IR	8	DIP	Single High Side Driver, Inverting Input	IRS2118PBF	149-8196	1.270	1.020	0.860	0.720	0.670
2118	IR	8	SOIC	Single High Side Driver, Inverting Input	IRS2118SPBF	SMD 149-8197	1.270	1.020	0.860	0.720	0.670
2125	IR	16	SOIC	Single High Side Driver, Current Limiting, Programmable Shutdown Error Pin	IR2125SPBF	SMD 102-3209	5.240	3.670	3.020	– –	– –
2127	IR	8	SOIC	Non Inverting Input/Current Sensing & Shutdown	IR2127SPBF	SMD 863-8918	5.480	3.200	2.640	– –	– –
2127	IR	8	PDIP	600V Current Sensing Single Channel Driver with Gate Drive 12V to 20V I/P-O/P In Phase	IRS2127PBF	NEW 160-3658	2.660	2.330	1.860	1.550	1.330
2127	IR	8	SOIC	600V Current Sensing Single Channel Driver with Gate Drive 12V to 20V I/P-O/P In Phase	IRS2127SPBF	NEW SMD 160-3659	2.630	2.050	1.670	1.530	1.310
2128	IR	8	PDIP	600V Current Sensing Single Channel Driver with Gate Drive 12V to 20V I/P-O/P Out of Phase	IRS2128PBF	NEW 160-3660	2.660	2.070	1.700	1.550	1.330
2128	IR	8	SOIC	600V Current Sensing Single Channel Driver with Gate Drive 12V to 20V Out of Phase	IRS2128SPBF	NEW SMD 160-3661	2.630	2.050	1.670	1.530	1.310
2131	IR	28	SOIC	3 Phase Driver, Inverting Input, Independent High and Low Side, 700ns Deadtime	IR2131SPBF	SMD 102-3211	10.830	7.560	6.190	– –	– –
2132	IR	28	SOIC	0.8uS Deadtime	IR2132SPBF	SMD 863-8926	9.350	6.070	4.480	– –	– –
2133	IR	44	PLCC	3 Phase Driver, Separate High and Low Side Inputs, 200ns Deadtime	IR2133JPBF	SMD 102-3213	11.230	7.860	6.430	– –	– –
2133	IR	28	SOIC	3 Phase Driver, Separate High and Low Side Inputs, 200ns Deadtime	IR2133SPBF	SMD 102-3215	10.850	7.610	6.230	– –	– –
2135	IR	28	SOIC	200ns Deadtime/Separate Hi & Lo Inputs	IR2135SPBF	SMD 863-8934	9.350	5.470	4.490	– –	– –
2136	IR	28	DIP	3 Phase Driver, Soft Turn-on, Inverting Input Separate High and Low Side Inputs, 200ns Deadtime	IR2136PBF	102-3233	4.160	2.920	2.560	– –	– –
2136	IR	28	SOIC	200ns Deadtime/Soft Turn On, Separate Hi & Lo Inputs	IR2136SPBF	SMD 863-8950	6.900	4.040	3.310	– –	– –
2153	IR	8	SOIC	12us Deadtime/Programmable-Oscillating	IR2153SPBF	SMD 863-8977	2.940	1.870	1.460	– –	– –
2153	IR	8	DIP	Self-Oscillating Half Bridge Driver, 1.1us Deadtime	IRS2153DPBF	127-1804	1.620	1.190	0.970	0.850	0.740
2153	IR	8	SOIC	Self-Oscillating Half Bridge Driver, 1.1us Deadtime	IRS2153DSPBF	SMD 127-1806	1.620	1.190	0.970	0.850	0.740

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Power Drivers - continued

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
2155	IR	8	DIP	12us Deadtime/Programmable-Oscillating	IR2155PBF	863-8985●	3.610	2.980	1.950	– –	– –
2156	IR	14	DIP	Ballast Control, Programmable Preheat Time and Run Frequency, Programmable Deadtime	IR2156PBF	102-3234●	2.970	1.440	1.210	– –	– –
2156	IR	16	SOIC	Programmable Deadtime/Programmable Preheat Time & Frequency	IR2156SPBF	SMD 863-8993●	2.970	1.860	1.460	– –	– –
2166	IR	16	DIP	PFC Ballast Control	IR2166PBF	102-3239●	2.390	1.370	1.140	– –	– –
2166	IR	16	SOIC	600V LAmp PFC & Ballast Control + Half Bridge	IR2166SPBF	SMD 863-9000●	3.610	2.270	1.770	– –	– –
2175	IR	8	DIP	Linear Current Sensing IC	IR2175PBF	102-3241●	5.580	3.320	2.720	– –	– –
2175	IR	8	SOIC	Linear Current Sensor for Motor Drives	IR2175SPBF	SMD 863-9019●	5.210	3.210	2.650	– –	– –
2181	IR	8	DIP	High and Low Side Driver, SoftTurn-On, Noninverting Inputs, Separate High and Low Side Inputs	IR2181PBF	102-3243●	3.210	1.690	1.390	– –	– –
2181	IR	8	SOIC	High and Low Side Driver, SoftTurn-On, Noninverting Inputs, Separate High and Low Side Inputs	IR2181SPBF	SMD 102-3244●	2.650	1.860	1.600	– –	– –
2181	IR	8	DIP	High and Low Side Driver With SoftTurn-On	IRS2181PBF	127-1809●	2.260	1.470	1.210	0.980	0.930
2181	IR	8	SOIC	High and Low Side Driver With SoftTurn-On	IRS2181SPBF	SMD 127-1810●	2.350	1.540	1.260	1.030	0.960
2183	IR	8	DIP	Half Bridge Driver, SoftTurn-On, Low Side Inverting Input, Separate High and Low Side Input, 500ns Deadtime	IR2183PBF	102-3246●	3.210	1.690	1.390	– –	– –
2183	IR	8	SOIC	Half Bridge Driver, SoftTurn-On, Low Side Inverting Input, Separate High and Low Side Input, 500ns Deadtime	IR2183SPBF	SMD 102-3247●	2.970	1.950	1.600	– –	– –
2183	IR	8	DIP	Half Bridge Driver With SoftTurn-On	IRS2183PBF	127-1813●	1.980	1.080	0.950	0.920	0.900
2183	IR	8	SOIC	Half Bridge Driver With SoftTurn-On	IRS2183SPBF	SMD 127-1814●	2.360	1.430	1.170	1.030	0.910
2184	IR	8	DIP	Half Bridge Driver, SoftTurn-On, Single Input Plus Inverting Shut-Down, 500ns Deadtime	IR2184PBF	102-3249●	3.210	1.690	1.390	– –	– –
2184	IR	8	SOIC	500ns Deadtime/Soft Turn On, Single Input Inverting + Shut-Down.	IR2184SPBF	SMD 863-9051●	3.510	2.070	1.690	– –	– –
2184	IR	8	DIP	Half Bridge Driver With SoftTurn-On	IRS2184PBF	127-1818●	2.510	1.530	1.270	1.110	0.980
2184	IR	8	SOIC	Half Bridge Driver With SoftTurn-On	IRS2184SPBF	SMD 127-1819●	2.360	1.430	1.170	1.030	0.910
2186	IR	8	SOIC	4A Source/Sink High and Low Side 600V Driver	IRS2186SPBF	NEW SMD 155-6862●	2.760	2.380	1.850	– –	– –
2196	MICR	8	SOIC	Low Voltage Boost PWM Controller	MIC2196YM	NEW SMD 166-3102●	3.360	2.780	2.220	2.020	1.710
2213	IR	14	DIP	High and Low Side Driver, Noninverting Inputs	IR2213PBF	102-3250●	5.780	3.480	2.830	– –	– –
2213	IR	16	SOIC	High and Low Side Driver, Noninverting Inputs	IR2213SPBF	SMD 102-3252●	6.110	4.280	3.510	– –	– –
2233	IR	28	SOIC	3 Phase Driver, Separate High and Low Side Inputs, 200ns Deadtime	IR2233SPBF	SMD 102-3253●	22.760	15.970	13.080	– –	– –
2277	IR	16	SOIC	1200V Offset Phase Current Sensor for AC Motor Control	IR2277SPBF	NEW SMD 160-3657●	6.680	5.840	4.670	3.900	3.340
2287	MICR	5	SOT-23	1.2MHz PWM White LED Driver with OVP	MIC2287CYD5 TR	NEW SMD 166-3103●	0.830	0.700	0.550	0.500	0.420
2289	MICR	8	MLF	White LED Driver with Internal Schottky Diode & OVP	MIC2289-34YML TR	NEW SMD 166-3104●	1.520	1.260	1.010	0.910	0.780
2292	MICR	8	MLF	1.6MHz White LED Drivers with Internal Schottky Diode and OVP	MIC2292-34YML TR	NEW SMD 166-3105●	1.520	1.260	1.010	0.910	0.780
2293	MICR	8	MLF	2.0MHz White LED Drivers with Internal Schottky Diode and OVP	MIC2293C-34YML TR	NEW SMD 166-3106●	1.410	1.150	0.930	0.850	0.710
2297	MICR	10	MLF	40V PWM Boost Regulator White LED Driver.	MIC2297-42YML TR	NEW SMD 166-3107●	1.540	1.270	1.020	0.930	0.780
2301	IR	8	DIP	High and Low Side Driver, SoftTurn-On, Noninverting Inputs	IR2301PBF	102-3254●	2.670	1.400	1.160	– –	– –
2301	IR	8	SOIC	Non Inverting Inputs/Soft Turn On	IR2301SPBF	SMD 863-9060●	2.070	1.200	1.000	– –	– –
2302	IR	8	SOIC	500nS Deadtime/Single Input + Shut-Down, Soft Turn On	IR2302SPBF	SMD 863-9078●	2.070	1.200	1.000	– –	– –
2304	IR	8	DIP	Half Bridge Driver, SoftTurn-On, Noninverting Inputs	IR2304PBF	102-3255●	1.810	1.270	1.030	– –	– –
2304	IR	8	SOIC	Half Bridge Driver, SoftTurn-On, Noninverting Inputs	IR2304SPBF	SMD 102-3256●	1.870	1.300	1.070	– –	– –
2304	IR	8	DIP	Half Bridge Driver, high voltage, high speed power MOSFET and IGBT driver with independent high and low side referenced output channels.	IRS2304PBF	149-8207●	1.530	1.220	1.010	0.860	0.810
2304	IR	8	SOIC	Half Bridge Driver, high voltage, high speed power MOSFET and IGBT driver with independent high and low side referenced output channels.	IRS2304SPBF	SMD 149-8208●	1.530	1.220	1.010	0.860	0.810
2308	IR	8	DIP	High Voltage and High Speed Power MOSFET and IGBT Half Bridge Driver	IR2308PBF	102-3257●	2.510	1.760	1.440	– –	– –
2308	IR	8	SOIC	High Voltage And High Speed	IR2308SPBF	SMD 863-9086●	2.220	1.290	1.060	– –	– –
2308	IR	8	SOIC	High Voltage and High Speed Power MOSFET and IGBT Half Bridge Driver	IRS2308SPBF	SMD 127-1821●	1.420	1.150	0.950	0.790	0.770
2336	IR	44	PLCC	6 Channel each 20V, 3 Phase Gate Driver	IRS2336DJPBF	NEW SMD 160-3662●	3.990	3.480	2.790	2.330	2.000
2336	IR	28	WSOIC	6 Channel each 20V, 3 Phase Gate Driver	IRS2336DSPBF	NEW SMD 160-3663●	3.610	3.150	2.520	2.110	1.810
2453	IR	14	DIP	Self-Oscillating Full-Bridge 600V Driver	IRS2453DPBF	127-1822●	2.580	1.420	1.170	1.030	0.960
2453	IR	14	SOIC	Self-Oscillating Full-Bridge 600V Driver	IRS2453DSPBF	SMD 127-1823●	3.170	1.740	1.430	1.340	1.260
2520	IR	8	DIP	600V Ballast Controller IC With Adaptive Zero-Voltage Switching, Internal Crest Factor and an Integrated Bootstrap Diode	IR2520DPBF	108-0633●	2.240	1.290	1.080	– –	– –
2520	IR	8	SOIC	600V Ballast Controller IC With Adaptive Zero-Voltage Switching, Internal Crest Factor and an Integrated Bootstrap Diode	IR2520DSPBF	SMD 108-0634●	1.890	1.260	1.050	– –	– –
2540	IR	8	DIP	200V Half Bridge Driver LED Buck Regulator	IRS2540PBF	149-8209●	1.180	0.940	0.790	0.660	0.630
2540	IR	8	SOIC	200V Half Bridge Driver LED Buck Regulator	IRS2540SPBF	SMD 149-8210●	1.180	0.940	0.790	0.660	0.630
2541	IR	8	DIP	600V Half Bridge Driver LED Buck Regulator	IRS2541PBF	149-8211●	1.690	1.350	1.110	0.940	0.890
2541	IR	8	SOIC	600V Half Bridge Driver LED Buck Regulator	IRS2541SPBF	SMD 149-8212●	1.290	1.030	0.860	0.730	0.690
2714	TI	8	SOIC	Complementary Switch FET Drivers	UC2714D	SMD 146-0421●	1.940	1.440	1.070	0.940	0.930
2724	NSC	8	SOIC	High Speed 3A Synchronous MOSFET Driver	LM2724AM	SMD 818-1357●	1.430	1.210	0.960	– –	– –
2811	TI	8	PDIP	Dual Channel High Speed MOSFET Driver	TPS2811P	845-6933●	1.740	1.310	0.940	– –	– –
2812	TI	8	SOIC	Dual Channel High Speed MOSFET Driver	TPS2812D	SMD 845-6941●	1.230	0.840	0.600	– –	– –
2812	TI	8	DIP	Dual High Speed MOSFET Driver, Non-Inverting	TPS2812P	110-3115●	1.230	0.840	0.600	– –	– –
2813	TI	8	DIP	Dual Channel High Speed MOSFET Driver	TPS2813P	845-6950●	1.740	1.210	0.870	– –	– –
2817	TI	5	SOT-23	Single High Speed MOSFET Driver	TPS2817DBVT	SMD 845-6968●	0.850	0.700	0.590	– –	– –
2819	TI	5	SOT-23	Single High Speed MOSFET Driver	TPS2819DBVT	SMD 845-6976●	0.930	0.770	0.650	– –	– –
2830	TI	14	SOIC	Dual Channel High Speed MOSFET Driver	TPS2830D	SMD 845-7000●	1.300	0.950	0.730	– –	– –
2982	ALL	20	SOIC	8-Channel Source Drivers	A2982SLW-T	SMD 132-9620●	1.500	1.290	1.150	1.030	0.940
3289	MICR	6	TSOT-23	1.2MHz PWM White LED Driver with Internal Schottky Diode	MIC3289-24YD6 TR	NEW SMD 166-3099●	1.490	1.220	0.980	0.890	0.750
3525	NSC	8	SOIC	Single Port USB Power Switch, Active HI. Enable	LM3525M-H	SMD 948-6330●	1.450	1.180	1.090	– –	– –
3525	NSC	8	SOIC	Single Port USB Power Switch, Active LO. Enable	LM3525M-L	SMD 948-6348●	1.670	1.140	0.920	– –	– –
3705	TI	8	MPDIP	Complementary High Speed Power Driver	UC3705N	NEW 156-4873●	4.650	3.840	3.410	2.780	2.370
3705	TI	8	PDIP	COMPLEMENTARY High SPEED Power DRIVER	UC3705NG4	123-4763●	4.130	2.920	2.170	1.960	1.790
3706	TI	16	PDIP	Dual High Speed MOSFET Driver.	UC3706NG4	123-4835●	4.260	3.190	2.320	2.180	2.050
3707	TI	16	PDIP	COMPLEMENTARY High SPEED Power DRIVERS	UC3707NG4	123-4872●	3.240	2.720	2.350	1.910	1.870
3708	TI	8	PDIP	NON-INV PWR Driver, Dual.	UC3708NG4	120-7381●	4.630	4.080	3.640	– –	– –
3709	TI	8	PDIP	Inverting High-Speed MOSFET Drivers	UC3709NG4	123-4701●	4.890	3.650	2.650	2.500	2.360
3710	TI	8	PDIP	MOSFET Driver	UC3710NG4	120-7382●	4.400	3.660	2.940	– –	– –
3710	TI	5	TO	COMPLEMENTARY High Current MOSFET DRIVER	UC3710TG3	123-4801●	5.470	4.080	2.970	2.800	2.630
3714	TI	8	SOIC	Complementary Switch FET Drivers	UC3714D	SMD 146-0426●	2.120	1.440	1.040	0.970	0.890
4063	IR	3	TO-247AC	600V UltraFast Copack Trench IGBT	IRGP4063DPBF	149-8188●	7.360	4.630	3.590	3.230	3.010
4080	INTS	20	SOIC	80V/2.5A Peak 1MHz Full Bridge FET Driver	HIP4080AIBZ	NEW SMD 156-1952●	4.100	3.190	2.620	2.210	2.060
4080	INTS	20	DIP	High Frequency MOSFET Driver With UnderVoltage Protection.	HIP4080AIPZ	966-4122●	5.640	3.370	2.150	– –	– –
4081	INTS	20	SOIC	80V/2.5A Peak, 1MHz Frequency Full Bridge FET Driver	HIP4081AIBZ	NEW SMD 156-1934●	4.100	3.190	2.620	2.210	2.060
4081	INTS	20	DIP	High Frequency MOSFET Driver With UnderVoltage Protection (Independent control of all 4 MOSFETs)	HIP4081AIPZ	966-4130●	6.120	3.640	2.320	– –	– –
4082	INTS	16	SOIC	80V, 1.25A Peak Current H-Bridge N-Channel MOSFET Driver	HIP4082IBZ	NEW SMD 156-1948●	3.070	2.400	1.950	1.660	1.540
4082	INTS	16	DIP	Low Frequency MOSFET Driver With UnderVoltage Protection(Independent control of all 4 MOSFETs)	HIP4082IPZ	966-4149●	4.240	2.260	1.650	– –	– –
4083	INTS	16	SOIC	80V 300mA Three Phase High Side N-Channel MOSFET Driver	HIP4083ABZ	NEW SMD 156-1981●	3.370	2.520	2.020	1.690	1.450
4086	INTS	24	SOIC	80V, 0.5A Three Phase 6 N-Channel MOSFET Driver	HIP4086ABZ	NEW SMD 156-1974●	5.590	4.890	3.920	3.270	2.800
4100	MICR	8	SOIC	100V Half Bridge MOSFET Driver	MIC4100YM	NEW SMD 166-3115●	2.970	2.460	1.960	1.780	1.510
4101	MICR	8	SOIC	100V Half Bridge MOSFET Driver	MIC4101YM	NEW SMD 166-3116●	2.970	2.460	1.960	1.780	1.510
4102	MICR	8	SOIC	100V Half Bridge MOSFET Driver with Anti-Shoot Through Protection	MIC4102YM	NEW SMD 166-3117●	2.970	2.460	1.960	1.780	1.510
4103	MICR	8	SOIC	100V Half Bridge MOSFET Driver 3-2A Sinking/Sourcing Current.	MIC4103YM	NEW SMD 166-3118●	3.310	2.730	2.190	1.990	1.680
4104	MICR	8	SOIC	100V Half Bridge MOSFET Driver 3-2A Sinking/Sourcing Current.	MIC4104YM	NEW SMD 166-3119●	3.310	2.730	2.190	1.990	1.680

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	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
4120	MICR	8	SOIC	6A-Peak Low-Side MOSFET Driver	MIC4120YME	SMD 110-0665	1.670	1.260	0.910	– –	– –
4126	MICR	8	SOIC	Dual 1.5A-Peak Low-Side MOSFET Drivers	MIC4126YME	SMD 110-0666	1.320	1.050	0.810	– –	– –
4127	MICR	8	SOIC	Dual 1.5A-Peak Low-Side MOSFET Drivers	MIC4127YME	SMD 110-0667	1.810	1.370	0.980	– –	– –
4210	LT	6	TSOT-23	Hot Swap Controller	LTC4210-1CS6#TRMPBF	NEW! SMD 166-3911	3.170	2.450	1.960	1.630	1.460
4210	LT	6	TSOT-23	Hot Swap Controller	LTC4210-1IS6#TRMPBF	NEW! SMD 166-3912	3.620	2.820	2.250	1.870	1.680
4210	LT	6	TSOT-23	Hot Swap Controller	LTC4210-2CS6#TRMPBF	NEW! SMD 166-3913	3.170	2.450	1.960	1.630	1.460
4300	LT	8	MSOP	Level Shifting Hot Swappable 2-Wire Bus Buffer with Enable	LTC4300A-1CMS8#PBF	NEW! SMD 166-3733	3.200	2.490	1.990	1.660	1.490
4307	LT	8	DFN	Low Offset Hot Swappable 2-Wire Bus Buffer with Stuck Bus Recovery	LTC4307IMS8-1#PBF	NEW! SMD 166-3734	4.720	3.660	2.930	2.440	2.190
4355	LT	16	SOIC	Positive High Voltage Dual Ideal Diode-OR with Input Supply and Fuse Monitor	LTC4355IS#PBF	NEW! SMD 166-3735	5.490	4.260	3.410	2.840	2.540
4357	LT	6	DFN	Positive High Voltage Ideal Diode Controller	LTC4357IDCB#TRMPBF	NEW! SMD 166-3915	3.830	2.960	2.370	1.980	1.770
4411	LT	5	TSOT-23	2.6A Low Loss Ideal Diode	LTC4411ES5#TRMPBF	NEW! SMD 166-3916	3.170	2.450	1.960	1.630	1.460
4412	LT	6	TSOT-23	PowerPath Controller	LTC4412ES6#TRMPBF	NEW! SMD 166-3917	2.580	2.000	1.600	1.340	1.190
4412	LT	6	TSOT-23	PowerPath Controller	LTC4412IS6#TRMPBF	NEW! SMD 166-3918	2.800	2.170	1.740	1.450	1.290
4413	LT	10	DFN	Dual 2.6A, 2.5V to 5.5V, Ideal Diode	LTC4413EDD#PBF	NEW! SMD 166-3736	3.900	3.020	2.420	2.020	1.810
4420	MAX	8	SOIC	6A Peak O/P High Speed Single MOSFET Driver	MAX4420CSA+	NEW! SMD 161-0108	2.470	2.040	1.660	1.400	1.300
4420	MCHIP	8	SOIC	Driver, MOSFET, 6A	TC4420COA	SMD 129-2283	0.900	0.660	0.610	– –	– –
4420	MCHIP	8	DIP	IC MOSFET Driver, 6A Single High Speed non inverting	TC4420CPA	976-2566	0.910	0.710	0.620	– –	– –
4420	MCHIP	8	SOIC	6A High-Speed MOSFET Driver (IND TEMP)	TC4420EOA	SMD 976-2574	0.960	0.680	0.570	– –	– –
4420	MCHIP	8	PDIP	Driver, MOSFET, 6A	TC4420EPA	129-2284	0.940	0.690	0.630	– –	– –
4420	MICR	8	SOIC	6A-Peak Low-Side MOSFET Driver Non-Inverting	MIC4420YM	NEW! SMD 155-6716	1.180	0.870	0.710	– –	– –
4420	MICR	8	PDIP	Non-Inverting 6A-Peak Low-Side MOSFET Driver	MIC4420YN	NEW! 155-6744	1.440	1.280	1.050	– –	– –
4421	MCHIP	8	DIP	9A, Inverting, High Speed MOSFET/IGBT Driver	TC4421CPA	119-6786	2.590	2.040	1.490	– –	– –
4421	MCHIP	5	TO-220	MOSFET Driver, Singl 9A	TC4421AVAT	133-2303	1.650	1.380	0.890	– –	– –
4421	MCHIP	8	SOIC	MOSFET Driver, Singl 9A	TC4421AVOA	SMD 133-2304	1.280	1.070	0.700	– –	– –
4422	MICR	8	PDIP	Non-inverting 9A-Peak Low-Side MOSFET Driver	MIC4422YN	NEW! 155-6746	1.530	1.360	1.120	– –	– –
4422	MCHIP	5	TO-220	MOSFET Driver, Singl 9A	TC4422AVAT	133-2305	1.650	1.380	0.890	– –	– –
4422	MCHIP	8	SOIC	MOSFET Driver, Singl 9A	TC4422AVOA	SMD 133-2306	1.310	1.090	0.710	– –	– –
4422	MCHIP	8	DIP	9A, Non-Inverting, High Speed MOSFET/IGBT Driver	TC4422CPA	119-6785	2.960	2.240	1.830	– –	– –
4422	MCHIP	8	DIP	9A High-Speed MOSFET Driver (IND TEMP)	TC4422EPA	976-2582	1.720	1.450	1.270	– –	– –
4423	MCHIP	8	DIP	3A Dual High-Speed Power MOSFET Driver	TC4423CPA	143-9740	1.350	1.060	0.690	– –	– –
4424	MICR	8	PDIP	Dual Non-Inverting 3A-Peak Low-Side MOSFET Driver	MIC4424YN	NEW! 155-6738	2.020	1.790	1.470	– –	– –
4424	MCHIP	8	SOIC	MOSFET Driver, Dual 3A	TC4424AVOA	SMD 133-2307	1.150	0.960	0.630	– –	– –
4424	MICR	8	SOIC	3A-Peak Low-Side Dual MOSFET Driver Non-Inverting	MIC4424YM	NEW! SMD 155-6717	1.590	1.170	0.960	– –	– –
4424	MCHIP	8	DIP	MOSFET Driver, Dual 3A	TC4424AVPA	133-2308	1.180	0.980	0.650	– –	– –
4424	MCHIP	8	DIP	3A Dual High-Speed Power MOSFET Driver (IND TEMP)	TC4424EPA	976-2590	1.490	1.060	0.880	– –	– –
4424	MCHIP	8	PDIP	3A Peak Dual Non-Inverting MOSFET Driver	TC4424CPA	NEW! 155-7423	1.570	1.190	0.940	– –	– –
4425	MICR	8	PDIP	Inverting & Non-Inverting Dual 3A-Peak Low-Side MOSFET Driver	MIC4425YN	NEW! 155-6747	2.000	1.780	1.460	– –	– –
4426	MCHIP	8	SOIC	MOSFET Driver, Dual 1.5A	TC4426ACOA	SMD 133-2309	0.550	0.460	0.420	– –	– –
4426	MCHIP	8	DIP	MOSFET Driver, Dual 1.5A	TC4426ACPA	133-2310	0.550	0.460	0.430	– –	– –
4426	IR	8	DIP	Dual Low Side Driver, Inverting Input	IR4426PBF	102-3265	1.430	1.010	0.830	– –	– –
4426	IR	8	SOIC	Dual Low Side Driver, Inverting Input	IR4426SPBF	SMD 102-3266	1.610	1.130	0.930	– –	– –
4426	MCHIP	8	SOIC	IC MOSFET Driver, 1.5A Dual High Speed inverting	TC4426COA.	SMD 976-2604	0.770	0.560	0.440	– –	– –
4426	TS	8	DIP	1.5A, Inverting, Dual High Speed MOSFET Driver	TC4426CPA	976-2612	1.920	1.540	0.860	– –	– –
4426	MCHIP	8	SOIC	1.5A Dual High-Speed Power MOSFET Driver (IND TEMP)	TC4426EOA	SMD 108-4317	0.720	0.550	0.480	– –	– –
4426	MICR	8	PDIP	Dual Inverting 1.5A Peak Low Side MOSFET Driver	MIC4426YN	NEW! 155-6748	1.440	1.280	1.050	– –	– –
4426	MICR	8	PDIP	Inverting & Non-Inverting 1.5A Peak Low Side MOSFET Driver	MIC4428YN	NEW! 155-6750	1.440	1.280	1.050	– –	– –
4426	MCHIP	8	NSOIC	1.5A Peak O/P Dual Inverting MOSFET Driver	TC4426AEOA	NEW! SMD 160-5582	0.750	0.570	0.450	– –	– –
4427	MICR	8	PDIP	Dual Non-Inverting 1.5A Peak Low Side MOSFET Driver	MIC4427YN	NEW! 155-6749	1.440	1.280	1.050	– –	– –
4427	MICR	8	SOIC	Dual Non-Inverting 1.5A Peak Low Side MOSFET Driver	MIC4427ZM	NEW! SMD 155-6765	1.390	1.140	0.910	– –	– –
4427	MICR	8	SOIC	Dual Non-Inverting 1.5A Peak Low Side MOSFET Driver	MIC4427YM	NEW! SMD 155-6734	1.070	0.790	0.640	– –	– –
4427	MCHIP	8	SOIC	IC MOSFET Driver, 1.5A Dual High Speed non inverting	TC4427COA	SMD 976-2620	0.690	0.540	0.460	– –	– –
4427	IR	8	DIP	Dual Low Side Driver	IR4427PBF	102-3267	2.270	1.210	1.020	– –	– –
4427	IR	8	SOIC	Low Voltage And High Speed	IR4427SPBF	SMD 863-9094	2.270	1.340	1.110	– –	– –
4427	MCHIP	8	SOIC	Driver, MOSFET,1.5A, Dual	TC4427AEOA	SMD 129-2285	0.610	0.440	0.410	– –	– –
4427	MCHIP	8	CDIP	1.5A Peak Dual MOSFET Non-Inverting Driver	TC4427MJA	NEW! 155-7410	7.450	5.630	4.440	– –	– –
4426	MICR	8	SOIC	1.5A-Peak Low-Side Dual MOSFET Driver Inverting	MIC4426YM	NEW! SMD 155-6718	1.450	1.060	0.870	– –	– –
4427	TS	8	DIP	1.5A, Non-Inverting, Dual, High Speed MOSFET Driver	TC4427CPA	976-2639	1.790	1.430	1.010	– –	– –
4427	MCHIP	8	SOIC	IC MOSFET Driver, 1.5A Dual High Speed non inverting	TC4427EOA	SMD 976-2647	0.720	0.550	0.480	– –	– –
4427	MCHIP	8	DIP	MOSFET Driver, Dual 1.5A	TC4427AEPA	133-2311	0.550	0.460	0.430	– –	– –
4428	MCHIP	8	SOIC	MOSFET Driver, Dual 1.5A	TC4428ACOA	SMD 133-2312	0.550	0.460	0.420	– –	– –
4428	MCHIP	8	DIP	MOSFET Driver, Dual 1.5A	TC4428ACPA	133-2313	0.550	0.460	0.430	– –	– –
4428	IR	8	DIP	Dual Low Side Driver, Half Inverting Input	IR4428PBF	102-3268	1.520	1.070	0.880	– –	– –
4428	IR	8	SOIC	Dual Low Side Driver, Half Inverting Input	IR4428SPBF	SMD 102-3269	1.650	1.150	0.960	– –	– –
4428	TS	8	DIP	1.5A, Differential, Dual, High Speed MOSFET Driver	TC4428CPA	976-2655	1.920	1.300	0.660	– –	– –
4428	MCHIP	8	SOIC	1.5A Dual High-Speed Power MOSFET Driver (IND TEMP)	TC4428EOA	SMD 119-6805	0.720	0.550	0.480	– –	– –
4429	MCHIP	8	SOIC	Driver, MOSFET, 6A	TC4429COA	SMD 129-2287	0.900	0.660	0.610	– –	– –
4429	MICR	8	PDIP	Inverting 6A-Peak Low-Side MOSFET Driver	MIC4429YN	NEW! 155-6751	1.440	1.280	1.050	– –	– –
4429	MCHIP	8	DIP	6A, Inverting, High Speed MOSFET Driver	TC4429CPA	119-6787	1.430	1.080	0.870	– –	– –
4431	MCHIP	8	SOIC	1.5A High-Speed 30V MOSFET Driver	TC4431COA	NEW! SMD 162-7205	1.640	1.240	0.980	– –	– –
4431	MCHIP	8	SOIC	1.5A High-Speed 30V MOSFET Driver	TC4431VOA	NEW! SMD 162-7207	2.640	2.000	1.570	– –	– –
4431	MCHIP	8	SOIC	1.5A High-Speed 30V MOSFET Driver	TC4431VOA713	NEW! SMD 162-7208	2.640	2.000	1.570	– –	– –
4431	MCHIP	8	PDIP	1.5A High-Speed 30V MOSFET Driver	TC4431VPA	NEW! 162-7209	2.790	2.110	1.660	– –	– –
4432	MCHIP	8	SOIC	1.5A High-Speed 30V MOSFET Driver	TC4432VOA713	NEW! SMD 162-7210	2.640	2.000	1.570	– –	– –
4432	MCHIP	8	PDIP	1.5A High-Speed 30V MOSFET Driver	TC4432VPA	NEW! SMD 162-7212	2.790	2.110	1.660	– –	– –
4432	MCHIP	8	SOIC	1.5A High-Speed 30V MOSFET Drivers	TC4432EOA	SMD 143-9737	1.420	1.090	0.700	– –	– –
4440	LT	6	SOT-23	High Speed High Voltage High Side Gate Driver	LTC4440ES6#TRMPBF	NEW! SMD 166-3919	3.380	2.620	2.100	1.750	1.570
4441	LT	10	MSOP	6A N-Channel MOSFET Driver	LTC4441EMSE#PBF	SMD 127-3554	2.300	1.530	1.330	– –	– –
4443	LT	12	DFN	High Speed Synchronous N-Channel MOSFET Driver	LTC4443IDD#PBF	NEW! SMD 167-3565	2.660	2.030	1.700	1.420	1.210
4444	LT	8	MSOP	High Voltage Synchronous N-Channel MOSFET Driver	LTC4444EMS8E#PBF	NEW! SMD 162-8762	2.670	2.380	1.940	1.780	1.530
4447	LT	12	DFN	High Speed Synchronous N-Channel MOSFET Driver	LTC4447IDD#PBF	NEW! SMD 167-3566	2.660	2.030	1.700	1.420	1.260
4451	MICR	8	PDIP	Inverting 12A-Peak Low-Side MOSFET Driver	MIC4451YN	NEW! 155-6742	2.020	1.790	1.470	– –	– –
4451	MCHIP	8	SOIC	12A Peak High-Speed Inverting MOSFET Driver	TC4451VOA	NEW! SMD 155-7419	2.240	1.700	1.330	– –	– –
4451	MCHIP	8	PDIP	12A Peak Inverting High-Speed MOSFET Driver	TC4451VPA	NEW! 155-7420	2.280	1.720	1.360	– –	– –
4452	MICR	8	SOIC	Non-Inverting 12A-Peak Low-Side MOSFET Driver	MIC4452YM	NEW! SMD 155-6766	1.420	1.230	0.990	– –	– –
4452	MCHIP	5	TO-220	MOSFET Driver, Singl 12A	TC4452VAT	133-2315	1.850	1.550	1.010	– –	– –
4452	MCHIP	8	SOIC	MOSFET Driver, Singl 12A	TC4452VOA	SMD 133-2316	1.590	1.320	0.850	– –	– –
4468	MCHIP	16	WSOIC	Logic-Input CMOS Quad Driver, AND	TC4468COE	SMD 143-9738	1.680	1.300	1.130	– –	– –
4468	MICR	14	PDIP	Quad 1.2A-Peak Low-Side MOSFET Driver	MIC4468ZN	NEW! 155-6752	3.290	2.920	2.390	– –	– –
4468	MCHIP	14	PDIP	1.2A Peak O/P Quad AND MOSFET Driver	TC4468CPD	NEW! 155-7406	1.910	1.440	1.140	– –	– –
4469	MICR	14	PDIP	Quad 1.2A-Peak Low-Side MOSFET Driver	MIC4469YN	NEW! 155-6753	3.290	2.940	2.510	– –	– –
4469	MICR	16	SOIC	Quad 1.2A-Peak Low-Side MOSFET Driver	MIC4469YWM	NEW! SMD 155-6754	3.290	2.940	2.510	– –	– –
4469	MCHIP	14	DIP	Logic-Input CMOS Quad Driver, INV/AND	TC4469CPD	143-9739	1.640	1.280	0.840	– –	– –
4469	MCHIP	16	WSOIC	Driver, MOSFET,1.2A, Quad	TC4469COE	SMD 129-2288	1.680	1.230	1.130	– –	– –
5014	MICR	8	SOIC	Non-Inverting High or Low Side MOSFET Driver	MIC5014YM	NEW! SMD 155-6756	1.770	1.420	1.290	– –	– –
5020	MICR	8	SOIC	Current-Sensing Low-Side MOSFET Driver	MIC5020YM	NEW! SMD 155-6771	1.850	1.440	1.180	– –	– –
5021	MICR	8	PDIP	100KHz High-Side MOSFET Driver	MIC5021YN	NEW! 155-6758	2.060	1.650	1.500	– –	– –
5100	NSC	8	SOIC	3.0 Amp High Voltage High Side and Low Side Driver	LM5100AM	SMD 100-8264	1.860	1.480	1.150	– –	– –
5100	NSC	10	LLP	3.0 Amp High Voltage High Side and Low Side Driver	LM5100ASD	SMD 100-8265	2.250	1.800	1.400	– –	– –
5100	NSC	8	SOIC	Half Bridge Driver,100V, 2A	LM5100BMA	SMD 129-0943	1.830	1.560	1.190	– –	– –
5100	NSC	8	SOIC	Half Bridge Driver,100V, 1A	LM5100CMA	SMD 129-0944	1.720	1.630	1.240	– –	– –
5100	NSC	8	SOIC	High Voltage High Side and Low Side Gate Driver	LM5100M	SMD 818-1365	2.210	2.020	1.650	– –	– –
5100	NSC	10	LLP	2A High Voltage High-Side and Low-Side Gate Drivers	LM5100BSD	SMD 131-3859	1.290	1.060	0.920	0.890	0.870
5100	NSC	10	LLP	1A High Voltage High-Side and Low-Side Gate Drivers	LM5100CSD	SMD 131-3860	1.190	0.990	0.820	0.760	0.640

RL Re-reeling available

Power Drivers - continued

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
5101	NSC	10	LLP	2A High Voltage High-Side and Low-Side Gate Drivers	LM5101BSD	SMD 131-3862	1.290	1.060	0.890	0.840	0.820
5101	NSC	10	LLP	1A High Voltage High-Side and Low-Side Gate Drivers	LM5101CSD	SMD 131-3863	1.210	1.010	0.940	0.910	0.890
5101	NSC	8	SOIC	3.0 Amp High Voltage High Side and Low Side Driver	LM5101AM	SMD 100-8266	3.340	2.270	1.860	– –	– –
5101	NSC	10	LLP	3.0 Amp High Voltage High Side and Low Side Driver	LM5101ASD	SMD 100-8267	2.900	2.370	2.170	– –	– –
5101	NSC	8	SOIC	Half Bridge Driver,100V, 2A	LM5101BMA	SMD 129-0945	2.010	1.410	0.990	– –	– –
5101	NSC	8	SOIC	Half Bridge Driver,100V, 1A	LM5101CMA	SMD 129-0946	1.720	1.630	1.240	– –	– –
5101	NSC	8	SOIC	High Voltage High Side and Low Side Gate Driver	LM5101M	SMD 818-1373	2.430	2.020	1.650	– –	– –
5104	NSC	8	SOIC	High Voltage Half-Bridge Gate Driver With Adaptive Delay	LM5104M	SMD 818-1390	2.630	2.250	1.810	– –	– –
5104	NSC	10	LLP	High Voltage Half-Bridge Gate Driver with Adaptive Delay	LM5104SD/NOPB	NEW SMD 168-5381	2.850	2.220	1.820	1.660	1.490
5105	NSC	10	LLP	100V Half Bridge Gate Driver With Programmable Dead-time.	LM5105SD	SMD 100-8268	2.150	1.760	1.620	– –	– –
5106	NSC	8	Mini SOIC	100V 1312793 with Programmable Dead-Time.	LM5106MM	SMD 131-2793	1.660	1.180	0.970	0.910	0.850
5107	NSC	8	SOIC	100V / 1.4A Peak Half Bridge Gate Driver	LM5107MA	SMD 100-8269	2.360	1.600	1.310	– –	– –
5109	NSC	8	SOIC	Driver, Half Bridge, 1A Pk	LM5109BMA	SMD 133-3960	1.150	0.940	0.810	0.650	0.590
5109	NSC	8	SOIC	Half Bridge Driver,100V, 1A	LM5109AMA/NOPB	SMD 128-6922	1.170	0.750	0.580	0.480	0.450
5109	NSC	8	LLP	100V / 1A Peak Half Bridge Gate Driver.	LM5109SD	SMD 100-8033	1.140	0.830	0.620	– –	– –
5110	NSC	8	SOIC	Dual 5A Compund Gate Driver With Negative Output Voltage Capability	LM5110-1M	SMD 818-1403	1.310	1.090	0.890	– –	– –
5110	NSC	8	SOIC	Dual 5A Compund Gate Driver With Negative Output Voltage Capability	LM5110-2M	SMD 818-1411	1.310	1.090	0.880	– –	– –
5110	NSC	10	LLP	Dual 5A Compound Gate Driver With Negative Output Voltage Capability	LM5110-2SD	SMD 100-8271	1.090	0.880	0.660	– –	– –
5111	NSC	8	SOIC	Dual 5A Compound Gate Driver	LM5111-1M	SMD 823-8693	1.110	0.840	0.660	– –	– –
5111	NSC	8	MSOP	Dual 5A Compound Gate Driver	LM5111-1MY	SMD 131-2593	0.970	0.790	0.620	0.580	0.570
5111	NSC	8	MSOP	Dual 5A Compound Gate Driver	LM5111-2MY	SMD 131-2594	1.050	0.850	0.660	0.610	0.600
5111	NSC	8	MSOP	Dual 5A Compound Gate Driver	LM5111-3MY	SMD 131-2596	1.740	1.270	1.030	0.980	0.900
5111	NSC	8	MSOP	Dual 5A Compound Gate Driver	LM5111-4MY/NOPB	NEW SMD 168-5350	1.370	1.070	0.880	0.800	0.720
5111	NSC	8	SOIC	Dual 5A Compound Gate Driver	LM5111-2M/NOPB	NEW SMD 168-5382	1.370	1.070	0.880	0.800	0.720
5112	NSC	6	LLP	Tiny 7A Sink MOSFET Gate Driver.	LM5112SD/NOPB	NEW SMD 168-5383	1.060	0.820	0.670	0.620	0.550
5112	NSC	8	MSOP	Tiny 7A MOSFET Gate Driver	LM5112MY	SMD 131-2597	1.170	0.840	0.690	0.650	0.600
5460	CIR	24	SSOP	Single Phase Bi-directional Power/Energy	CS5460A-BSZ	NEW SMD 155-7459	4.160	3.700	3.030	2.780	2.380
6201	ST	20	PowerSOIC	DMOS Full-Bridge Driver.	E-L6201PS	SMD 107-7146	9.740	7.910	5.990	5.050	4.680
6205	ST	20	PDIP	DMOS Dual Full Bridge Driver 5.6A Peak O/P	L6205N	NEW 156-4367	12.460	9.960	8.860	7.250	6.140
6207	INTS	8	SOIC	Dual High Voltage Synchronous Rectified Buck N-Channel MOSFET Driver.	ISL6207CBZ	NEW SMD 156-1953	1.270	0.980	0.810	0.690	0.630
6384	ST	8	DIP	600V Half Bridge Driver, CMOS/TTL Input.	L6384	109-4226	1.830	1.430	1.110	– –	– –
6384	ST	8	SOIC	600V Half Bridge Driver, CMOS/TTL Input.	L6384D	SMD 109-4227	1.930	1.290	1.060	– –	– –
6385	ST	8	SOIC	600V High and Low Side Bridge Driver, CMOS/TTL Input	E-L6385D	SMD 988-2537	2.160	1.600	1.230	– –	– –
6385	ST	8	DIP	600V High and Low Side Bridge Driver, CMOS/TTL Input	L6385	109-4228	1.830	1.430	1.110	– –	– –
6386	ST	14	SOIC	600V High and Low Side Bridge Driver, CMOS/TTL Input, Comparator	E-L6386D	SMD 988-2545	2.250	1.720	1.260	– –	– –
6386	ST	14	DIP	600V High and Low Side Bridge Driver, CMOS/TTL Input, Comparator	L6386	109-4229	1.910	1.470	1.160	– –	– –
6387	ST	8	DIP	High-Voltage High and Low Side Driver.	L6387	127-1008	3.610	2.680	1.910	1.630	1.460
6388	ST	8	DIP	High-Voltage High and Low Side Driver.	L6388	127-1010	2.960	2.460	2.080	1.780	1.610
6388	ST	8	SO	High-Voltage High and Low Side Driver.	L6388D	SMD 127-1011	2.170	1.840	1.610	1.430	1.320
6520	FCH	8	SOIC	Single Synchronous Buck PWM Controller	FAN6520AM	SMD 124-1879	1.010	0.820	0.660	0.540	0.490
6549	TOSH	20	HSOP	Driver,FULL BRIDGE.	TB6549FG	SMD 129-7178	4.810	4.220	3.750	3.390	3.080
6552	TOSH	16	SSOP	Driver,Dual BRIDGE,3PHASE	TB6552FNG	SMD 129-7176	3.500	2.800	2.340	2.000	1.870
6555	NSC	16	LLP	Low Distortion 1.2 GHz Differential Driver from the PowerWise® Family	LMH6555SQ	SMD 143-3154	9.090	6.700	5.730	5.310	5.040
6560	TOSH	64	HQFP	Driver,FULL BRIDGE.	TB6560FG(O)	SMD 129-7179	12.180	8.850	8.130	6.970	6.500
6562	TOSH	24	DIP	Driver,Dual H-BRIDGE	TB6562ANG	129-7180	6.740	4.920	4.500	3.860	3.600
6569	ST	8	DIP	600V Half Bridge With Oscillator and Bootstrap.	E-6569	988-2561	1.260	0.960	0.750	– –	– –
6569	ST	8	DIP	High-Voltage Half-Bridge Driver With Oscillator	E-L6569	107-7150	2.540	1.800	1.450	1.210	0.990
6569	ST	8	SOIC	600V Half Bridge With Oscillator and Bootstrap.	E-L6569D	SMD 115-9686	1.760	1.350	1.090	– –	– –
6569	ST	8	DIP	600V Half Bridge With Oscillator and Bootstrap.	L6569A	113-1994	2.270	1.760	1.330	– –	– –
6569	ST	8	SOIC	600V Half Bridge With Oscillator and Bootstrap.	L6569AD	SMD 109-4231	1.750	1.330	1.090	– –	– –
6571	ST	8	SOIC	600V Half Bridge With Oscillator and Bootstrap, adjustable Dead-time.	E-L6571BD	SMD 988-2570	1.820	1.350	1.140	– –	– –
6571	ST	8	DIP	600V Half Bridge With Oscillator and Bootstrap, adjustable Dead-time.	L6571A	109-4232	2.170	1.590	1.300	– –	– –
6574	ST	16	SOIC	600V DimmAble LAmp Ballast With Preheat	E-L6574D	SMD 988-2553	2.320	1.650	1.380	– –	– –
6574	ST	16	DIP	600V DimmAble LAmp Ballast With Preheat	L6574	109-4234	2.420	1.830	1.460	– –	– –
6598	ST	16	DIP	High-Voltage Resonant Controller	L6598	127-1020	2.560	2.090	1.580	1.320	1.210
6598	ST	16	SO	High-Voltage Resonant Controller	L6598D	SMD 127-1021	2.560	2.090	1.580	1.320	1.230
6599	ST	16	SO	High-Voltage resonant controller.	L6599D	SMD 127-1022	2.870	2.400	2.050	1.860	1.740
6599	ST	16	DIP	High-Voltage resonant controller.	L6599N	127-1023	3.920	3.290	2.660	2.310	2.080
6601	INTS	8	SOIC	Dual Synchronous Rectified Buck N-Channel MOSFET Driver	HIP6601BCBZ	NEW SMD 156-1961	2.190	1.710	1.410	1.190	1.110
6605	INTS	8	SOIC	Dual Synchronous Rectified N-Channel MOSFET Driver.	ISL6605CBZ	NEW SMD 156-1971	2.240	1.960	1.660	1.380	1.190
6605	INTS	8	QFN	Dual Synchronous Rectified N-Channel MOSFET Driver.	ISL6605CRZ	NEW SMD 156-1973	2.290	1.780	1.430	1.190	1.020
6700	INTS	8	SOIC	80V, 1.25A peak Half-Bridge Driver.	ISL6700IBZ	SMD 966-4033	2.480	1.300	0.870	– –	– –
6841	ALEG	20	SOIC	DABiC-5 8-Bit Serial Input Latched Sink Drivers	A6841SLW-20-T	SMD 119-8100	2.790	2.210	1.820	1.550	1.390
6841	ALEG	18	SOIC	DABiC-5 8-Bit Serial Input Latched Sink Drivers	A6841SLW-T	SMD 119-8101	2.270	1.510	1.300	1.220	1.150
7104	INTS	8	DIP	High Speed, Single Channel Power MOSFET Driver	EL7104CNZ	121-6117	2.460	2.180	1.960	– –	– –
7104	INTS	8	SOIC	High Speed, Single Channel, 1A Peak Power MOSFET Driver.	EL7104CSZ	NEW SMD 156-1928	2.940	2.270	1.860	1.580	1.460
7154	INTS	8	SOIC	4A Peak 10MHz Pin P-Channel MOSFET Driver.	EL7154CSZ	NEW SMD 156-2041	4.040	3.040	2.430	2.020	1.740
7155	INTS	8	SOIC	3.5A Peak 40MHz Pin Driver.	EL7155CSZ	NEW SMD 156-1994	4.200	3.140	2.510	2.100	1.810
7156	INTS	8	SOIC	40MHz Tri-State 3.5A Peak Pin Driver.	EL7156CSZ	NEW SMD 156-1943	3.600	2.800	2.290	1.930	1.810
7156	INTS	8	PDIP	40MHz 3.5A Peak Pin Driver.	EL7156CNZ	NEW 156-2049	4.200	3.140	2.510	2.100	1.810
7158	INTS	8	SOIC	40MHz Tri-State 12A Peak Pin Driver	EL7158ISZ	NEW SMD 156-1944	4.940	3.850	3.140	2.660	2.470
7202	INTS	8	SOIC	High Speed, Dual Channel Non-Inverting , 2A Peak Power MOSFET Driver.	EL7202CSZ	NEW SMD 156-1929	2.940	2.270	1.860	1.580	1.460
7212	INTS	8	SOIC	2A Peak High Speed Dual Channel Power MOSFET Inverting Driver	EL7212CSZ	NEW SMD 156-1976	3.420	2.560	2.060	1.710	1.460
7222	INTS	8	SOIC	2.0A Peak Dual Channel Power MOSFET Complementary Drivers	EL7222CSZ	NEW SMD 156-2005	3.420	2.560	2.060	1.710	1.460
7232	INTS	8	SOIC	10 MHz Dual Channel 2A Peak Inverting Line Driver with 3-State O/P	EL7232CSZ	NEW SMD 156-2013	3.920	2.950	2.350	1.950	1.670
7242	INTS	8	SOIC	Dual Input, High Speed, Dual Channel Power MOSFET Driver.	EL7242CSZ	NEW SMD 156-1975	3.920	2.950	2.350	1.950	1.670
7252	INTS	8	SOIC	Dual Input 10MHz Dual Channel NAND Power MOSFET 2A Peak Driver.	EL7252CSZ	NEW SMD 156-2014	3.920	2.950	2.350	1.950	1.670
7362	FCH	8	SOP	High Side Gate Driver for MOSFETs and IGBTs operateing to +600V.	FAN7362M	SMD 122-8248	1.330	0.800	0.530	– –	– –
7380	FCH	8	SOIC	Monolithic Half-Bridge Gate Driver for MOSFETs and IGBTs.	FAN7380M	SMD 124-1880	0.720	0.570	0.480	0.370	0.340
7382	FCH	8	SOP	Half-Bridge Gate Driver for Bootstrap Operation to +600V	FAN7382M	SMD 122-8252	0.890	0.720	0.530	– –	– –
7382	FCH	8	DIP	Half-Bridge Gate Driver for Bootstrap Operation to +600V	FAN7382N	122-8251	1.220	0.920	0.740	– –	– –
7383	FCH	14	SOP	Half Bridge Gate Driver	FAN7383M	SMD 149-5477	0.840	0.620	0.580	0.520	0.470
7384	FCH	14	SOP	Half Bridge Gate Driver	FAN7384M	SMD 149-5478	0.700	0.500	0.460	0.410	0.370
7385	FCH	14	SOP	2-Channel High Side Only Gate Driver	FAN7385M	SMD 149-5479	0.740	0.580	0.570	0.520	0.470
7412	INTS	20	SOIC	2A Peak High Speed Four Channel Power MOSFET Inverting Driver	EL7412CMZ	NEW SMD 156-1977	5.060	3.790	3.040	2.540	2.170
7457	INTS	16	QFN	2A Peak 40MHz Non-Inverting Quad CMOS Driver.	EL7457CLZ	NEW SMD 156-1978	3.390	2.540	2.050	1.700	1.460
7457	INTS	16	QSOP	2A Peak 40MHz Non-Inverting Quad CMOS Driver.	EL7457CUZ	NEW SMD 156-1979	3.390	2.540	2.050	1.700	1.460
7457	INTS	16	SOIC	40MHz Non-Inverting Quad CMOS 2A Peak Driver.	EL7457CSZ	NEW SMD 156-1945	3.060	2.380	1.940	1.650	1.530
7528	FCH	8	SOP	Dual Output Critical Conduction Mode PFC Controller	FAN7528M	SMD 122-8253	0.990	0.700	0.540	– –	– –
7528	FCH	8	DIP	Dual Output Critical Conduction Mode PFC Controller	FAN7528N	122-8254	0.740	0.550	0.430	– –	– –
7532	FCH	16	SOP	Ballast control IC for two Power MOSFETs in the half-bridge formAt	FAN7532M	SMD 122-8244	1.210	0.800	0.670	– –	– –

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	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
7667	INTS	8	DIP	Dual MOSFET Driver	ICL7667CPAZ	966-3690●	2.170	1.110	0.730	0.580	0.570
7710	FCH	8	DIP	Ballast Control IC for Compact Fluorescent Lamps	FAN7710N	147-1975●	1.480	1.090	1.010	0.860	0.790
7711	FCH	8	SOIC	Ballast Control IC for Linear Fluorescent Lamps	FAN7711M	SMD 147-1976●	0.960	0.710	0.640	0.550	0.520
8502	INTS	24	QFN	2.5A Synchronous Buck Regulator with Integrated MOSFETs	ISL8502IRZ	136-1017●	2.530	2.260	2.000	1.670	1.510
8521	MAX	20	TQFN	±1.5A O/P Thermo-electric Cooler Driver	MAX8521ETP+	NEW SMD 159-3384●	6.160	4.780	4.320	3.590	3.080
8700	FCH	56	Power 88	Driver plus FET Multi-chip Module	FDMF8700	SMD 149-5480●	3.530	2.570	2.350	2.020	1.880
8705	FCH	56	Power 88	Driver plus FET Multi-chip Module	FDMF8705	SMD 149-5481●	1.760	1.280	1.160	1.010	0.930
9201	TI	20	HTSSOP	8 Channel Relay Driver with 5V LDO & Zero Volt Detection	TPL9201PWP	NEW SMD 164-5408●	0.790	0.610	0.460	0.420	0.390
9202	TI	20	HTSSOP	8 Channel Relay Driver with 5V LDO & Brown-Out Detection	TPL9202PWP	NEW SMD 164-5409●	0.790	0.610	0.460	0.420	0.390
11203	SLX	16	MLP44	SEC SYNC RECT CONTROL WITH OVP	SIP11203DLP-T1-E3	SMD 149-7651●	2.220	1.780	1.470	1.270	1.180
14628	MCHIP	8	SOIC	2A Synchronous Buck Power MOSFET Driver	MCP14628-E/SN	NEW SMD 162-9343●	1.590	1.200	0.950	– –	– –
15018	MAX	8	SOIC	125V/3A, High-Speed, Half-Bridge MOSFET Drivers	MAX15018AASA+	NEW SMD 167-3097●	4.700	3.350	2.610	2.350	2.140
15018	MAX	8	SOIC	125V/3A, High-Speed, Half-Bridge MOSFET Drivers	MAX15018BASA+	NEW SMD 167-3132●	4.700	3.350	2.610	2.350	2.140
15019	MAX	8	SOIC	125V/3A, High-Speed, Half-Bridge MOSFET Drivers	MAX15019AASA+	NEW SMD 167-3098●	4.700	3.350	2.610	2.350	2.140
15019	MAX	8	SOIC	125V/3A, High-Speed, Half-Bridge MOSFET Drivers	MAX15019BASA+	NEW SMD 167-3133●	4.700	3.350	2.610	2.350	2.140
18400	NSC	20	DIL	3A Peak Quad High Side Driver	LMD18400N/NOPB	NEW 156-4678●	11.420	9.440	7.750	6.430	5.910
20153	IR	8	SOIC	Recharge	IR20153SPBF	SMD 863-8705●	2.100	1.310	1.100	– –	– –
20954	IR	16	SOIC	Protected Digital Audio Driver With Floating PWM Input	IRS20954SPBF	SMD 127-1772●	2.720	1.770	1.460	1.420	1.390
20955	IR	16	SOIC	Protected Digital Audio Driver with Floating PWM input in a 16-Lead SOIC Narrow Package	IRS20955SPBF	SMD 149-8189●	3.420	2.660	2.180	1.940	1.820
21064	IR	14	DIP	High & Low Side Driver, SoftTurn-On, Non-inverting Inputs	IR21064PBF	102-3203●	2.940	1.550	1.280	– –	– –
21064	IR	14	SOIC	Non Inverting Inputs/Soft Turn On	IR21064SPBF	SMD 863-8772●	3.110	1.830	1.500	– –	– –
21064	IR	14	DIP	High and Low Side Driver With SoftTurn-On	IRS21064PBF	127-1780●	1.930	1.050	0.870	0.860	0.830
21064	IR	14	SOIC	High and Low Side Driver With SoftTurn-On	IRS21064SPBF	SMD 127-1781●	1.690	0.920	0.760	0.670	0.610
21084	IR	14	DIP	Half Bridge Driver, Soft Turn-On, Programmable 0.5-5us Deadtime	IR21084PBF	102-3204●	3.080	1.620	1.340	– –	– –
21084	IR	14	SOIC	Programmable 0.5-5us Deadtime, Soft Turn on	IR21084SPBF	SMD 910-1810●	2.870	1.820	1.390	– –	– –
21084	IR	14	DIP	Half Bridge Driver, Soft Turn-On	IRS21084PBF	127-1786●	3.080	1.620	1.340	1.170	1.040
21084	IR	14	SOIC	Half Bridge Driver, Soft Turn-On	IRS21084SPBF	SMD 127-1788●	1.900	1.100	0.910	0.820	0.800
21094	IR	14	DIP	Half Bridge Driver, Soft Turn-On, Programmable 0.5-5us Deadtime	IR21094PBF	102-3206●	1.690	1.180	1.040	– –	– –
21094	IR	14	SOIC	0.5-5uS Deadtime/Single Input + Shutdown	IR21094SPBF	SMD 863-8810●	3.310	1.940	1.590	– –	– –
21094	IR	14	DIP	Half Bridge Driver, Soft Turn-On, Single Input Plus Shut-Down, All high Voltage Pins on One Side, Programmable 540-5000ns Dead-time	IRS21094PBF	149-8190●	1.600	1.280	1.070	0.910	0.860
21094	IR	14	SOIC	Half Bridge Driver, Soft Turn-On, Single Input Plus Shut-Down, All high Voltage Pins on One Side, Programmable 540-5000ns Dead-time	IRS21094SPBF	SMD 149-8191●	1.600	1.280	1.070	0.910	0.860
21141	IR	24	SSOP	600V Half Bridge Driver IC for Power Switching Applications	IR21141SSPBF	SMD 149-8176●	5.640	4.510	3.760	3.230	3.020
21271	IR	8	PDIP-8	Single High Side Driver, Non-inverting Inputs, Current Sensing	IR21271PBF	SMD 102-3210●	2.490	1.670	1.410	– –	– –
21271	IR	8	SOIC	Non Inverting Input/Current Sensing & Shutdown	IR21271SPBF	SMD 863-8900●	4.320	2.520	2.080	– –	– –
21362	IR	28	DIP	3 Phase Driver, Soft Turn-on, Non-inverting Input Separate High and Low Side Inputs, 200ns Deadtime	IR21362PBF	102-3217●	6.460	4.520	3.700	– –	– –
21362	IR	28	SOIC	3 Phase Driver, Soft Turn-on, Non-inverting Input Separate High and Low Side Inputs, 200ns Deadtime	IR21362SPBF	SMD 102-3218●	4.660	3.270	2.670	– –	– –
21363	IR	44	PLCC	3 Phase Driver, Soft Turn-on, Inverting Input Separate High and Low Side Inputs, 200ns Deadtime	IR21363JPBF	SMD 102-3219●	6.650	4.660	3.820	– –	– –
21363	IR	28	SOIC	Inverting Input/Soft Turn On, Hi & Lo Input	IR21363SPBF	SMD 863-8942●	7.720	4.520	3.700	– –	– –
21366	IR	28	SOIC	3 Phase Driver, Soft Turn-on, Inverting Input Separate High and Low Side Inputs, 200ns Deadtime	IR21366SPBF	SMD 102-3224●	5.760	4.030	3.300	– –	– –
21368	IR	28	SOIC	3 Phase Driver, Soft Turn-on, Inverting Input Separate High and Low Side Inputs, 200ns Deadtime	IR21368SPBF	SMD 102-3231●	4.660	3.270	2.670	– –	– –
21531	IR	8	SOIC	Self-oscillating	IR21531SPBF	SMD 910-1802●	3.080	1.950	1.490	– –	– –
21531	IR	8	DIP	Self-Oscillating Half Bridge Driver, 1.1us Deadtime	IRS21531DPBF	149-8199●	1.720	1.250	1.040	0.860	0.820
21531	IR	8	SOIC	Self-Oscillating Half Bridge Driver, 1.1us Deadtime	IRS21531DSPBF	SMD 149-8200●	1.310	1.050	0.880	0.740	0.700
21571	IR	16	DIP	Ballast Control, Programmable Preheat Time and Run Frequency, Programmable Deadtime	IR21571PBF	102-3235●	2.950	1.700	1.420	– –	– –
21571	IR	16	SOIC	Ballast Control, Programmable Preheat Time and Run Frequency, Programmable Deadtime	IR21571SPBF	SMD 108-0624●	2.620	1.480	1.400	– –	– –
21592	IR	16	DIP	Dimming Ballast Control, Brown-out Protection, Programmable Pre-heat Time, 1.8us Deadtime	IR21592PBF	102-3236●	4.170	2.790	2.360	– –	– –
21592	IR	16	SOIC	Dimming Ballast Control, Brown-out Protection, Programmable Pre-heat Time, 1.8µs Deadtime	IR21592SPBF	SMD 108-0625●	5.470	2.960	2.590	– –	– –
21593	IR	16	DIP	Dimming Ballast Control, Brown-out Protection, Programmable Pre-heat Time, 1.8us Deadtime	IR21593PBF	102-3237●	4.170	2.760	2.350	– –	– –
21593	IR	16	SOIC	Dimming Ballast Control, Brown-out Protection, Programmable Pre-heat Time, 1.0µs Deadtime	IR21593SPBF	SMD 108-0626●	3.520	2.830	2.160	– –	– –
21814	IR	14	DIP	High & Low Side Driver, SoftTurn-On, Noninverting Inputs, Separate-Logic and Power Ground	IR21814PBF	102-3242●	2.720	1.570	1.300	– –	– –
21814	IR	14	SOIC	Non Inverting Inputs/SeparateLogic & Power Ground	IR21814SPBF	SMD 863-9027●	3.630	2.130	1.750	– –	– –
21814	IR	14	SOIC	High and Low Side Driver With SoftTurn-On	IRS21814SPBF	SMD 127-1808●	3.610	1.900	1.570	1.370	1.220
21834	IR	14	DIP	Half Bridge Driver, SoftTurn-On, Low Side Inverting Inputs,Separate-Logic and Power Ground, Programmable Deadtime	IR21834PBF	102-3245●	3.470	1.830	1.510	– –	– –
21834	IR	14	SOIC	Low Side Inverting/Soft Turn On, Separate Hi & Lo Inputs	IR21834SPBF	SMD 863-9035●	3.630	2.130	1.750	– –	– –
21834	IR	14	DIP	Half Bridge Driver With SoftTurn-On	IRS21834PBF	127-1811●	1.950	1.590	1.300	1.120	1.090
21834	IR	14	SOIC	Half Bridge Driver With SoftTurn-On	IRS21834SPBF	SMD 127-1812●	2.490	1.370	1.120	0.980	0.920
21844	IR	14	DIP	Half Bridge Driver, SoftTurn-On, Single Input Plus Inverting Shut-Down, SeparateLogic and Power Ground, Programmable Deadtime	IR21844PBF	102-3248●	2.990	2.100	1.730	– –	– –
21844	IR	14	SOIC	Programmable Deadtime/Single Inverting Inputs, SeparateLogic & Power Ground	IR21844SPBF	SMD 863-9043●	3.590	2.100	1.730	– –	– –
21844	IR	14	DIP	Half Bridge Driver With SoftTurn-On	IRS21844PBF	127-1815●	2.450	1.910	1.580	1.290	1.150
21844	IR	14	SOIC	Half Bridge Driver With SoftTurn-On	IRS21844SPBF	SMD 127-1816●	3.610	1.900	1.570	1.370	1.220
21851	IR	8	SOIC	600V Single High Side Driver IC with propagation delay matched output channels	IRS21851SPBF	SMD 149-8206●	1.840	1.470	1.220	1.050	0.980
22141	IR	24	SSOP	1200V Half Bridge Driver	IR22141SSPBF	NEW SMD 155-6859●	8.900	7.630	5.930	– –	– –
22771	IR	16	SOIC	1200V Offset Phase Current Sensor for AC Motor Control	IR22771SPBF	NEW SMD 160-3655●	6.680	5.840	4.670	3.900	3.340
25037	NSC	16	TSSOP	Dual-Mode PWM Controller	LM25037MT	NEW SMD 166-3007●	2.610	2.330	1.900	1.740	1.490
27222	NSC	8	SO	High-Speed 4.5A Synchronous MOSFET Driver	LM27222M	SMD 100-8002●	1.190	0.880	0.700	– –	– –
27321	TI	8	SOIC	MOSFET Driver, Single 9A High Speed Low Side	UCC27321D	SMD 846-2607●	2.210	1.500	1.120	– –	– –
27321	TI	8	PDIP	MOSFET Driver, Single 9A High Speed Low Side	UCC27321P	846-2615●	2.210	1.500	1.120	– –	– –
27322	TI	8	SOIC	MOSFET Driver, Single 9A High Speed Low Side	UCC27322D	SMD 846-2623●	2.210	1.500	1.120	– –	– –
27322	TI	8	PDIP	MOSFET Driver, Single 9A High Speed Low Side	UCC27322P	846-2631●	2.210	1.500	1.120	– –	– –
27323	TI	8	SOIC	MOSFET Driver, Dual, 3A	UCC27323D	SMD 846-2640●	1.690	1.150	0.830	– –	– –
27324	TI	8	SOIC	MOSFET Driver, Dual, 3A	UCC27324D	SMD 846-2666●	1.780	1.210	0.870	– –	– –
27324	TI	8	MSOP	MOSFET Driver Dual, High Speed non Inverting Low side	UCC27324DGN	SMD 110-3057●	1.780	1.210	0.870	– –	– –
27324	TI	8	DIP	Dual 4A pak Low-side Power MOSFET driver	UCC27324P	110-3121●	1.690	1.150	0.830	– –	– –
27325	TI	8	SOIC	MOSFET Driver, Dual, 3A	UCC27325D	SMD 846-2674●	1.780	1.210	0.870	– –	– –
27423	TI	8	PDIP	MOSFET Driver, Dual, 4A High Speed Low Side w/Enable	UCC27423P	846-2704●	1.120	0.930	0.800	– –	– –
27424	TI	8	SOIC	MOSFET Driver, Dual, 4A High Speed Low Side w/Enable	UCC27424D	SMD 846-2712●	1.780	1.210	0.870	– –	– –
27424	TI	8	HTSSOP	MOSFET Driver, Dual, 4A High Speed Low Side w/Enable	UCC27424DGN	SMD 846-2720●	1.780	1.210	0.870	– –	– –
27424	TI	8	PDIP	MOSFET Driver, Dual, 4A High Speed Low Side w/Enable	UCC27424P	846-2739●	1.510	1.080	0.760	– –	– –
27425	TI	8	SOIC	MOSFET Driver, Dual, 4A High Speed Low Side w/Enable	UCC27425D	SMD 846-2747●	1.210	0.860	0.650	– –	– –
27425	TI	8	PDIP	MOSFET Driver, Dual, 4A High Speed Low Side w/Enable	UCC27425P	846-2755●	1.780	1.210	0.870	– –	– –
28225	TI	8	SOIC	Dual 4Amp Sink Synchronous MOSFET Driver	TPS28225D	NEW SMD 156-4929●	1.160	0.940	0.850	0.680	0.580
33151	ON	8	SOIC	MOSFET/IGBT Driver. (IND TEMP)	MC33151DG	SMD 121-1117●	1.520	1.150	0.880	– –	– –
33151	ON	8	DIP	Dual High Speed MOSFET Driver, Inverting. (IND TEMP)	MC33151PG	966-6770●	1.670	1.150	0.880	0.670	– –
33152	ON	8	SOIC	Dual High Speed MOSFET Driver, Non-Inverting. (IND TEMP)	MC33152DG	SMD 119-1817●	1.520	1.150	0.880	– –	– –

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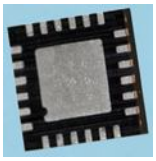
Power Drivers - continued

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
33152	ON	8	DIP	Dual High Speed MOSFET Driver, Non-Inverting, (IND TEMP)	MC33152PG	966-6788	1.050	0.790	0.600	0.410	– –
33153	ON	8	SOIC	Single IGBT Gate Driver	MC33153DG	SMD 110-4702	1.680	1.260	0.960	– –	– –
33153	ON	8	DIP	Single IGBT Gate Driver	MC33153PG	110-4713	2.280	1.720	1.300	1.090	– –
33879	FSL	32	SOIC-W	Configurable Octal Serial Switch with Open Load Detect Current Disable	MC33879EK	SMD 129-6197	5.240	3.520	3.040	2.740	2.440
33972	FSL	32	SOIC-W	Multiple Switch Detection Interface with Suppressed Wake-Up	MC33972EW	SMD 129-6198	4.280	2.340	2.020	1.810	1.620
33975	FSL	32	SOIC-W	Multiple Switch Detection Interface with Suppressed Wake-Up and 32mA Wetting Current	MC33975EK	SMD 129-6199	4.130	2.760	2.370	2.150	1.930
34151	ON	8	DIP	Dual High Speed MOSFET Driver, Inverting	MC34151PG	966-4459	1.450	1.070	0.790	– –	– –
34152	ON	8	DIP	Dual High Speed MOSFET Driver, Non-Inverting	MC34152PG	966-4424	1.370	0.960	0.720	– –	– –
37321	TI	8	SOIC	MOSFET Driver, Single 9A High Speed Low Side	UCC37321D	SMD 846-3000	2.210	1.500	1.080	– –	– –
37321	TI	8	PDIP	MOSFET Driver, Single 9A High Speed Low Side	UCC37321P	846-3018	2.210	1.500	1.080	– –	– –
37322	TI	8	SOIC	MOSFET Driver, Single 9A High Speed Low Side	UCC37322D	SMD 846-3026	2.210	1.500	1.080	– –	– –
37322	TI	8	PDIP	MOSFET Driver, Single 9A High Speed Low Side	UCC37322P	846-3034	2.210	1.500	1.080	– –	– –
37323	TI	8	PDIP	MOSFET Driver, Dual, 3A	UCC37323P	846-3042	1.670	1.140	0.820	– –	– –
37324	TI	8	SOIC	MOSFET Driver, Dual, 3A	UCC37324D	SMD 846-3050	1.670	1.140	0.820	– –	– –
37324	TI	8	PDIP	MOSFET Driver, Dual, 3A	UCC37324P	846-3069	1.670	1.140	0.820	– –	– –
37325	TI	8	PDIP	MOSFET Driver, Dual, 3A	UCC37325P	846-3077	1.670	1.140	0.820	– –	– –
41111	SLX	8	POWER PAK	75V/2A HIGH FREQUENCY 1/2 BRIDGE Driver	SIP41111DYP-T1-E3	SMD 149-7654	1.170	0.950	0.790	0.670	0.630
41111	SLX	8	SOIC	75V/2A HIGH FREQUENCY 1/2 BRIDGE Driver	SIP41111DY-T1-E3	SMD 149-7655	1.070	0.870	0.710	0.610	0.570
54550	TI	16	HTSSOP	PWM SWITCHER W/ FET 6A O/P	TPS54550PWP	SMD 126-2369	4.730	3.220	2.600	2.500	2.330
55110	INTS	8	TSSOP	Dual, High Speed MOSFET Driver	ISL55110IVZ	SMD 136-1002	1.010	0.850	0.750	0.610	0.580
73832	FCH	8	SOIC	Half Bridge Gate Driver	FAN73832M	SMD 149-5475	0.700	0.500	0.460	0.390	0.350
73832	FCH	8	DIP	Half Bridge Gate Driver	FAN73832N	149-5476	0.850	0.650	0.570	0.400	0.390
75372	TI	8	SOIC	Dual NAND MOSFET Gate Driver	SN75372D	NEW SMD 162-4401	1.660	1.230	0.990	0.840	0.790
75451	TI	8	SOIC	Dual Positive AND Power Driver - Latch Up Free to 20V	SN75451BD	SMD 110-3193	0.490	0.330	0.240	– –	– –
75451	TI	8	DIP	Dual Positive AND Power Driver - Latch Up Free to 20V	SN75451BP	110-6032	0.490	0.330	0.240	– –	– –
75452	TI	8	SOIC	Dual Positive NAND Power Driver - Latch Up Free to 20V	SN75452BD	SMD 110-3194	0.580	0.430	0.290	– –	– –
75452	TI	8	SOIC	Dual Positive NAND Power Driver - Latch Up Free to 20V	SN75452BD..	SMD 699-664	0.440	0.310	0.220	– –	– –
75452	TI	8	DIP	Dual Positive NAND Power Driver - Latch Up Free to 20V	SN75452BP	110-6034	0.490	0.330	0.240	– –	– –
75453	TI	8	DIP	Dual Positive OR Power Driver - Latch Up Free to 20V	SN75453BP	110-6035	0.490	0.330	0.240	– –	– –
75453	TI	8	SOIC	Dual VERY-High SPEED, High-Current PERIPHERAL DRIVERS	SN75453BPSR	SMD 123-6491 RL	0.360	0.240	0.185	0.147	0.134
83204	INTS	20	PDIP	60V/2.5A Peak, High Frequency Full Bridge FET Driver	ISL83204AIPZ	136-1046	3.390	3.030	2.700	2.300	2.110
94070	MICR	6	SC70	High Side Power Switches	MIC94070YC6 TR	NEW SMD 166-3123	0.410	0.340	0.270	0.250	0.210
94071	MICR	6	SC70	High Side Power Switches	MIC94071YC6 TR	NEW SMD 166-3125	0.410	0.340	0.270	0.250	0.210
94072	MICR	6	SC70	High Side Power Switches	MIC94072YC6 TR	NEW SMD 166-3126	0.440	0.350	0.290	0.260	0.220
94073	MICR	6	SC70	High Side Power Switches	MIC94073YC6 TR	NEW SMD 166-3127	0.570	0.470	0.380	0.340	0.290
754410	TI	16	DIP	Quadruple Half-H Driver	SN754410NEG4	959-2997	2.110	1.530	1.280	– –	– –

Motor Drivers

freescale semiconductor

New



24 pin QFN



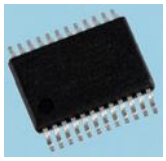
20 pin VMFP



20 pin HSOP



24 pin TSSOP



24 pin SOIC-W

517356

Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
24	QFN	1.0A DC/Bipolar H-Bridge Motor Driver IC	MPC17511AEP.	SMD 156-6195	0.84	0.75	0.61	0.53	0.48
20	VMFP	0.7A DC/Bipolar Dual H-Bridge Motor Driver IC CMOS/TTL I/O	MPC17529EV	SMD 156-6196	1.04	0.94	0.76	0.64	0.60
20	VMFP	0.7A DC/Bipolar Dual H-Bridge Motor Driver CMOS I/O	MPC17531AEV	SMD 156-6197	1.16	1.02	0.84	0.71	0.66
20	HSOP	5A H-Bridge DC Motor Control with Load Current Feedback	MC33887VW.	SMD 156-6198	4.30	3.36	2.75	2.30	2.15
24	TSSOP	1.2A DC H-Bridge DC Motor Driver	MPC17510EJ.	SMD 156-6199	2.57	1.99	1.63	1.38	1.27
20	VMFP	0.7A DC/Bipolar Dual H-Bridge Motor Driver CMOS/TTL I/O	MPC17529EP	SMD 156-6200	1.34	1.19	0.97	0.83	0.76
24	SOIC-W	16 Bit Serial I/P Dual H-Bridge Driver	MCZ33977EG.	SMD 156-6201	2.20	1.70	1.39	1.19	1.10
24	SOIC-W	16 Bit Serial I/P Dual H-Bridge Driver with Improved Damping Algorithms	MCZ33970EG.	SMD 156-6202	2.46	1.92	1.57	1.32	1.23
24	SOIC-W	16 Bit Serial I/P Four Dual H-Bridge Driver with Configurable Response Time	MCZ33976EG.	SMD 156-6203	2.62	2.05	1.66	1.41	1.31
24	SOIC-W	2A 45V DC Full-Bridge PWM Motor Driver	MC34923EG	SMD 156-6204	5.25	4.08	3.34	2.82	2.62
24	SOIC-W	Four Dual O/P H-Bridge PWM Motor Driver	MCZ33991EG	SMD 156-6205	4.15	3.23	2.64	2.23	2.08

4A Dual High-Speed Power MOSFET Drivers

MICROCHIP

New

Independent enable function for each driver outputLow shoot-through/cross conduction current in output stageSupply operating range 4.5V to 18VHigh Capacitive Load Drive Capability typically , 2200 pF in 15 ns, 5600 pF in 26 nsShort delay times typical 50 nsLatch-up protected: Will Withstand 1.5A Reverse CurrentLogic Input Will Withstand Negative Swing Up To 5V

The MCP14E3/MCP14E4/MCP14E5 devices are afamily of 4.0A buffers/MOSFET drivers. Dual-inverting,dual-noninvertering, and complementary outputs arestandard logic options offered.The MCP14E3/MCP14E4/MCP14E5 drivers arecapable of operating from a 4.5V to 18V single powersupply and can easily charge and discharge 2200 pFgate capacitance in under 15 ns (typical). They providelow impedance in both the ON and OFF states toensure the MOSFET's intended state will not beaffected, even by large transients. The MCP14E3/MCP14E4/MCP14E5 inputs may be driven directlyfrom either TTL or CMOS (2.4V to 18V).Additional control of the MCP14E3/MCP14E4/MCP14E5 outputs is allowed by the use of separateenable functions. The ENB_A and ENB_B pins areactive high and are internally pulled up to VDD. The pinsmaybe left floating for standard operation.The MCP14E3/MCP14E4/MCP14E5 dual-output 4.0Adriver family is offered in both surface-mount and pinthrough-hole packages with a -40°C to +125°Ctemperature rating. The low thermal resistance of thethermally enhanced DFN package allows for greaterpower dissipation capability for driving heaviercapacitive or resistive loads.These devices are highly latch-up resistant under anyconditions within their power and voltage ratings. Theyare not subject to damage when up to 5V of noisespiking (of either polarity) occurs on the ground pin.They can accept, without damage or logic upset, up to1.5A of reverse current being forced back into theiroutputs. All terminals are fully protect againstElectrostatic Discharge (ESD) up to 4 kV.

518345

Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	+	+
8	PDIP	4.0A Peak High-Speed Power Dual Inverting MOSFET Driver With Enable	MCP14E3-E/P	157-8353	1.73	1.31	1.03	– –	– –
8	SOIC	4.0A Peak High-Speed Power Dual Inverting MOSFET Driver With Enable	MCP14E3-E/SN	SMD 157-8354	1.70	1.28	1.01	– –	– –
8	PDIP	4.0A Peak High-Speed Power Dual Noninverting MOSFET Driver With Enable	MCP14E4-E/P	157-8355	1.80	1.37	1.07	– –	– –
8	SOIC	4.0A Peak High-Speed Power Dual Noninverting MOSFET Driver With Enable	MCP14E4-E/SN	SMD 157-8356	1.77	1.34	1.05	– –	– –
8	SOIC	4.0A Peak High-Speed Power 1 Inverting & 1 Noninverting MOSFET Driver With Enable	MCP14E5-E/P	157-8357	1.80	1.37	1.07	– –	– –
8	SOIC	4.0A Peak High-Speed Power 1 Inverting & 1 Noninverting MOSFET Driver With Enable	MCP14E5-E/SN	SMD 157-8358	1.77	1.34	1.05	– –	– –

RL Re-reeling available

Farnell

MOSFET Drivers

MICREL®

496447

	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
4417	4	SOT-143	IttyBitty Low Side MOSFET Drivers	MIC4417YM4 TR	SMD 151-7244	1.04	0.82	0.62
4422	8	SOIC	9A Peak Low Side MOSFET Driver	MIC4422YM	SMD 151-7245	1.28	1.14	1.03
4423	8	SOIC	Dual 3A Peak Low Side MOSFET Driver	MIC4423YM	SMD 151-7246	1.30	1.15	1.05
4427	8	SOIC	Dual 1.5A Peak Low Side MOSFET Driver	MIC4427ZN	SMD 151-7248	1.39	0.99	0.71
4428	8	SOIC	Dual 1.5A Peak Low Side MOSFET Driver	MIC4428YM	SMD 151-7249	1.03	0.92	0.83
4451	5	TO-220	12A Peak Low Side MOSFET Driver	MIC4451ZT	151-7250	3.52	2.40	1.79
4452	8	DIP	12A Peak Low Side MOSFET Driver	MIC4452YN	151-7251	2.16	1.47	1.06
4468	14	DIP	Quad 1.2A Peak Low Side MOSFET Driver	MIC4468YN	151-7252	3.85	3.37	3.11
5021	8	SOIC	High Speed High Side MOSFET Driver	MIC5021YM	SMD 151-7253	1.90	1.69	1.53

Photovoltaic Isolators

International IOR Rectifier

A photovoltaic isolator generates an electrically isolated DC voltage upon receipt of a DC input signal.
It can serve as an isolator, a coupler and as an isolated voltage source. It is ideal for driving Power MOSFETs and IGBTs or sensitive gate SCRs to form solid-state relays.
As a coupler, it can sense a low-leve IDC signal and transmit a voltage signal to an electrically remote circuit.
As a voltage source, it can function as a DC transformer.

228816

	Pins/ Package	Nom. Control Curr. (DC) 9mA)	Dielectric Strength I/O V(RMS)		Order Code	Price Each 1+	10+	100+
5080	8/DIL	10	2500	PVI5080NPBF	910-3880	3.32	2.45	1.84

MOSFET/IGBT Drivers

ON Semiconductor

New

304/5111 are dual/single inputs and dual outputs direct drive 2 N-channel power MOSFET or IGBT drivers, when arranged in a half-bridge configuration. The outputs are in phase ooth channels are have matched propagation delays. The NCP5106/5111/5304 outputs can source and sink current 250mA and 500 mA respectively. The NCP5181 output can rrent 1.1A and 2.4A respectively.

500024

Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
8	SOIC	Dual Inputs High Voltage High & Low Side MOSFET or IGBT Driver	NCP5106ADR2G	SMD 154-7133	1.49	1.23	1.11
8	PDIP	Dual Inputs High Voltage High & Low Side MOSFET or IGBT Driver	NCP5106APG	154-7134	1.79	1.48	1.31
8	SOIC	Dual Inputs High Voltage High & Low Side MOSFET or IGBT Driver	NCP5106BDR2G	SMD 154-7135	1.49	1.23	1.11
8	PDIP	Dual Inputs High Voltage High & Low Side MOSFET or IGBT Driver	NCP5106BPG	154-7137	1.79	1.48	1.31
8	SOIC	Single Input Half-Bridge Power MOSFET or IGBT Driver	NCP5111DR2G	SMD 154-7138	1.49	1.23	1.11
8	PDIP	Single Input Half-Bridge Power MOSFET or IGBT Driver	NCP5111PG	SMD 154-7139	1.79	1.48	1.31
8	NSOIC	Dual I/P & O/P High Voltage, High & Low Side MOSFET or IGBT Drivers	NCP5181DR2G	SMD 154-7140	1.87	1.53	1.38
8	PDIP	Dual I/P & O/P High Voltage, High & Low Side MOSFET or IGBT Drivers	NCP5181PG	154-7141	2.23	1.85	1.63
8	NSOIC	Dual Inputs High Voltage High and Low-Side MOSFET or IGBT Drivers	NCP5304DR2G	SMD 154-7142	1.49	1.23	1.11
8	PDIP	Dual Inputs High Voltage High and Low-Side MOSFET or IGBT Drivers	NCP5304PG	SMD 154-7143	1.79	1.48	1.31

MOSFET Drivers

ZETEX SEMICONDUCTORS

New



Applications
Power MOSFET and IGBT Gate Driving in
- Synchronous switch-mode power supplies
- Secondary side synchronous rectification
- Plasma Display Panel power modules
- 1, 2 and 3-phase motor control circuits
- Audio switching amplifier power output stages

The ZXGD3001/2/3/4 are high-speed non-inverting single MOSFET gate drivers capable of driving into a MOSFET or IGBT gate capacitive load from supply voltages 12V to 40V. With typical propagation delay times down to 1ns to 3ns and rise/fall times down to 9ns to 14ns these devices ensures rapid switching of thepower MOSFET or IGBT to minimize power losses and distortion in high current fast switching applications.

500355

Pins	Pkg	Peak Sink Current (A)	Peak Source Current (A)	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
6	SOT-23	2.2	4.2	Non-inverting MOSFET Gate Driver 9A Peak	ZXGD3001E6TA	SMD 154-9138	0.149	0.145	0.141
6	SOT-23	2.0	2.2	Non-inverting MOSFET Gate Driver 9A Peak	ZXGD3002E6TA	SMD 154-9139	0.156	0.152	0.148
6	SOT-23	1.4	1.6	Non-inverting MOSFET Gate Driver 5A Peak	ZXGD3003E6TA	SMD 154-9140	0.136	0.132	0.129
6	SOT-23	1.9	1.9	Non-inverting MOSFET Gate Driver 8A Peak	ZXGD3004E6TA	SMD 154-9141	0.176	0.171	0.167

For **Heatsinks** see page 766 and for **Heatsinks for SMD packages** see page 778

MOSFET/IGBT Power Drivers

International IOR Rectifier

The motor drive control ICs are high voltage, high speed power MOSFET and IGBT drivers with independent high and low side reference output channels.
- Logic input compatible with standard CMOS or LSTTL output
- Floating channel designed for bootstrap operation
- Tolerant to negative transient voltage
- Gate drive supply range from 10V to 20V
- 5V Schmitt-triggered input logic

228811

	Pins/ Package	Function	Features	Voltage Offset max.(V)	O/P Source Current min.(mA)	O/P Sink Current min.(mA)	Output Voltage (V) min/max	Turn-On/ Off Time max.(ns)	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
2001	8/PDIP	Hi & Lo MOS Driver	High and low side output channels	200	130	270	10/20	160/150	IRS2001PBF	NEW 160-3665	1.15	0.90	0.73
2001	8/SOIC	Hi & Lo MOS Driver	High and low side output channels	200	130	270	10/20	160/150	IRS2001SPBF	NEW SMD 160-3666	1.15	0.90	0.73
2003	8/PDIP	Half Bridge Driver	520ns Deadtime	200	130	270	10/20	680/150	IRS2003PBF	NEW 160-3667	1.15	0.90	0.73
2003	8/SOIC	Half Bridge Driver	520ns Deadtime	200	130	270	10/20	680/150	IRS2003SPBF	NEW SMD 160-3669	1.15	0.90	0.73
2004	8/PDIP	Half Bridge Driver	520ns Deadtime	200	130	270	10/20	680/150	IRS2004PBF	NEW 160-3671	1.15	0.90	0.73
2010	14/DIP	Hi & Lo MOS Driver	High and low side output channels	200	3000	3000	10/20	95/65	IR2010PBF	108-0609	4.01	2.28	1.91
2010	16/SOIC	Hi & Lo MOS Driver	High and low side output channels	200	3000	3000	10/20	95/65	IR2010SPBF	SMD 108-0610	2.65	1.75	1.49
2011	8/DIP	Hi & Lo MOS Driver	High and low side output channels	200	1000	1000	10/20	80/60	IR2011PBF	108-0612	2.40	1.60	1.35

RL Re-reeling available

Farnell

Power Drivers - continued

MOSFET/IGBT Power Drivers - continued

2214	24/SSOP	Half Bridge Driver	330ns Deadtime	1200	1000	1500	10.4/20	660/660	IR2214SSPBF	NEW SMD 160-3664●	7.63	5.93	4.86
2102	8/SOIC	Independent High & Low Side	Basic/inverted inputs	600	100	210	10/20	130/90	IR2102SPBF	SMD 910-1829●	3.46	2.09	1.74
2111	8/DIP	Half Bridge Driver	Basic/Deadtime/undervoltage lockout	600	200	420	10/20	850/150	IR2111PBF	910-1730●	3.29	1.95	1.62
2112	14/DIP	Independent High & Low Side	Shutdown and separate logic supply	600	200	420	10/20	125/105	IR2112PBF	910-1799●	3.35	2.49	1.96
2113	14/DIP	Independent High & Low Side	Shutdown and separate logic supply	600	2000	2000	10/20	120/94	IR2113PBF	910-1748●	5.61	4.22	3.03
2117	8/DIP	High Side	Basic/Deadtime	600	200	420	10/20	125/105	IR2117PBF	910-1756●	2.92	1.81	1.51
2118	8/DIP	High Side	Basic/Current sensing	600	200	420	10/20	125/105	IR2118PBF	910-1764●	1.95	1.18	0.98
2121	8/DIP	High Side	Basic/Current sensing	600	200	420	10/20	125/105	IR2121PBF	910-1705●	6.28	3.12	2.73
2125	8/DIP	High Side	Current Sensing	500	1000	2000	12/18	150/150	IR2125PBF	910-1721●	6.97	4.96	3.48
2127	8/DIP	High Side	Overcurrent shutdown	600	200	420	10/20	150/100	IR2127PBF	910-1772●	4.04	2.39	1.96
2128	8/DIP	High Side Driver	Inverting Inputs/Overcurent shutdown	600	200	420	12/20	200/150	IR2128PBF	108-0616●	2.86	1.50	1.24
2128	8/SOIC	High Side Driver	Inverting Inputs/Overcurent shutdown	600	200	420	12/20	200/150	IR2128SPBF	SMD 108-0617●	3.62	2.41	2.05
2130	28/DIP	3 Phase Bridge	2.5ms Deadtime/Current Sensing	600	200	420	10/20	675/475	IR2130PBF	910-1713●	13.94	10.35	7.28
2130	44/PLCC	3 Phase Bridge	2.5ms Deadtime/Current Sensing	600	200	420	10/20	675/475	IR2130JPBF	SMD 910-1837●	9.11	5.95	5.39
2131	44/PLCC	3Hi & 3Lo MO Driver	Basic/Current Sensing	600	200	420	10/20	1300/600	IR2131JPBF	SMD 108-0618●	7.83	5.23	4.43
2133	28/DIP	3 Phase Bridge Driver	200ns Deadtime/High and Low Side Inputs	600	200	420	10/20	750/700	IR2133PBF	108-0619●	9.45	6.47	5.48
2135	44/PLCC	3 Phase Bridge Driver	200ns Deadtime/High and Low Side Inputs	600	200	420	10/20	750/700	IR2135JPBF	SMD 108-0620●	7.73	5.15	4.37
2153	8/DIL	Half Bridge Driver	Self-Oscillating	600	200	400	10/20	–	IR2153DPBF	910-1861●	3.37	1.98	1.62
2233	44/PLCC	3 Phase Bridge	200ns Deadtime	1200	200	420	10/20	700/700	IR2233JPBF	SMD 910-1870●	27.25	16.61	13.99
2235	44/PLCC	3 Phase Bridge Driver	200ns Deadtime/Overcurrent Comparator	1200	200	420	10/20	750/700	IR2235JPBF	SMD 108-0630●	19.59	15.72	13.12
2235	28/SOIC	3 Phase Bridge Driver	200ns Deadtime/Overcurrent Comparator	1200	200	420	10/20	750/700	IR2235SPBF	SMD 108-0631●	28.45	19.03	16.13
2302	8/DIP	Half-Bridge Driver	Fixed 500ns Deadtime/Soft Turn-On	600	120	250	10/25	–	IR2302PBF	108-0632●	2.24	1.40	1.16
21091	8/DIP	Half-Bridge Driver	0.5-5µs Deadtime/Soft Turn-On	600	120	250	10/20	680/170	IR21091PBF	108-0614●	2.50	1.67	1.43
21091	8/SOIC	Half-Bridge Driver	0.5-5µs Deadtime/Soft Turn-On	600	120	250	10/20	680/170	IR21091SPBF	SMD 108-0615●	2.56	1.71	1.45
21531	8/DIP	Half-Bridge Driver	0.6µs Deadtime/Programmable Oscillator	600	250	400	10/20	–	IR21531PBF	108-0622●	2.69	1.78	1.50

Dual High Side Switch

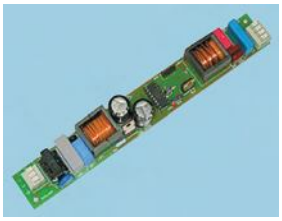
ROHM SEMICONDUCTOR

496421

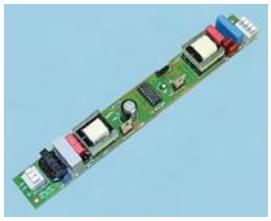
	Pins/ Package	Output Voltage (V) min/max	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
6510	8/SOP	-0.3/6.3	BD6510F-E2	SMD 151-2682●	1.13	0.97	0.76
6512	8/SOP	-0.3/6.3	BD6512F-E2	SMD 151-2683●	0.91	0.80	0.63
6513	8/SOP	-0.3/6.3	BD6513F-E2	SMD 151-2684●	1.13	0.97	0.76
6516	8/SOP	-0.3/6.3	BD6516F-E2	SMD 151-2685●	0.92	0.79	0.62
6517	8/SOP	-0.3/6.3	BD6517F-E2	SMD 151-2686●	1.13	1.00	0.78

Universal Input Linear Flourescent Ballasts

International IOR Rectifier



IRPLLNR5



IRPLLNR7

Features:
- suitable for 54W TL5 lamp (IRPLLNR5) or 35W TL5 (IRPLLNR7)
- high power factor/low THD
- high frequency operation
- lamp filament preheating
- lamp fault protection with auto-restart
- low AC line protection
- end of lamp life shutdown
- uses IRS2168D (IRPLLNR5) or IRS2166D (IRPLLNR7) HVIC ballast controller

Contents:
- assembled and tested demo board
- user guide
- schematic
- bill of materials
- circuit board layout
- datasheet
- lighting solutions CD

494611

Mftrs. List No.	Order Code	Price Each
IRPLLNR5	143-6895●	169.45
IRPLLNR7	143-6889●	169.45

IRPLLED1

International IOR Rectifier



Features:
- time delayed hysteric regulation
- continuous load current control
- high frequency operation
- synchronus rectification
- PWM dimmable
- auto restart, non-latched shutdown
- uses IRS2540PBF HVIC LED buck controller

Contents:
- assembled and tested demo board
- user guide
- schematic
- bill of materials
- circuit board layout
- datasheet

494586

Mftrs. List No.	Order Code	Price Each
IRPLLED1	143-6888●	63.54

Power IC Relays

Power IC Relays

International IOR Rectifier

The Photovoltaic AC Relay (PVA) is a single-pole solid state replacement for electromechanical relay for switching DC and/or AC loads.
This range of relays consists of inverse series connected MOSFETs to provide distortion-free control for bi-directional and DC signals.
With power MOSFET output, the relays can control analogue signals from millivolts to hundreds of volts, from nanoamps to hundreds of milliamps, from DC to hundreds of KHz.
All advantages of a solid-state technology are met with switching life greater than 10^{10} operations, actuation times of less than 100µs, minimal false thermal voltage generation, low control power requirements.
The range eliminates the need for a coil suppression diode, eliminates bounce, is EMI free and shock/vibration resistant.

228812

RL Re-reeling available

Farnell

	Pins/ Package	Operating Voltage Range V(pk) °C	Max. On-State Resistance @25°C Ω (AC/DC)	Max. Load Current @ 40°C AC/DC (mA)	Nominal Control Current (DC) (mA)	Minimum Off-State Resistance (Ω)	Dielectric Strength Input/Output $V_{(RMS)}$	Max. Response Time On/Off (µs)	Max. Thermal Offset Voltage @5mA Control (µV)	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
172	4/DIL-8	to +60	0.5/—	1000/1000	10	0.1G	4000	2000/500		PVAZ172NPBF	910-3856●	7.62	6.13	4.63
172	4/DIL-8	+60	—/0.25	1500/1500	10	0.1G	4000	2000/500	0.2	PVDZ172NPBF	910-3864●	6.48	5.20	3.92
312	6/DIL	to +250	10/3	190/320	2	0.25G	4000	3000/500		PVT312PBF	910-3899●	1.71	1.35	1.02
	6/DIL	to +	/	/		G	4000	/		PVT312LPBF	910-3902●	1.74	1.38	1.03
312	6/SOIC	to +250	15/4.25	170/300	2	0.25G	4000	3000/500		PVT312LSPBF	SMD 910-3910●	1.36	1.20	0.98
322	8/DIL	to +250	10/10	170/170	2	0.25G	4000	3000/500		PVT322PBF	910-3929●	4.04	3.16	2.39
	6/DIL	to +	/	/		G		/		PVT412PBF	910-4038●	3.26	2.06	1.59
412	6/DIL	to +400	35/9	120/200	3	0.4G	4000	2000/500		PVT412LPBF	910-3937●	2.22	1.66	1.26
412	6/SOIC	to +400	27/7	140/210	3	0.4G	4000	2000/500		PVT412SPBF	SMD 910-3945●	1.33	1.17	0.98
414	6/DIL	to +400	27/7	140/0.21	10	1000G	4000	500/200	0.2	PVU414	735-309▲	2.22	1.42	1.28
414	6/DIL	to +400	27/7	140/0.21	10	1000G	4000	500/200	0.2	PVU414PBF	910-4046●	4.57	3.21	2.43
422	8/DIL	to +401	35/35	120/120	2	0.32G	4000	2000/2000		PVT422PBF	910-3953●	3.52	2.74	2.07
1354	4/DIL-8	+100	—/	315/315	5	10G	2500	300/50	0.2	PVA1354NPBF	910-3988●	4.92	3.98	2.99
1354	4/DIL-8	+100	—/1.5	500/500	5	10G	2500	300/50	0.2	PVD1354NPBF	910-3996●	5.23	4.23	3.16
3054	4/DIL-8	to +300	160/—	40/40	5	10G	2500	25/15	0.2	PVA3054NPBF	910-3848●	2.72	2.44	2.21
3354	4/DIL-8	to +300	24/—	130/130	5	10G	2500	100/50	0.2	PVA3354N	360-7318▲	3.23	2.37	2.08
3354	4/DIL-8	to +300	24/—	130/130	5	10G	2500	100/50	0.2	PVA3354NPBF	910-4070●	4.92	3.99	3.01
6012	4/DIL-14	to +400	—/—	1/1	5	0.04G	3750	7000/1000		PVX6012PBF	910-3961●	5.66	5.00	4.22

E-blocks Relay board EB038

matrix multimedia

475504

This relay board contains 4 relays (choose high nibble or low nibble) which are each rated at 250V and 6A. This is ideal for a wide variety of applications including for use as the output stage of a Programable Logic Controller based on E-blocks technology. Note that whilst the relays are rated at mains power we can not recommend this board is used at mains rated voltages as it is supplied without a protective casing. This board is compatible with upstream boards operating off 3.3V.

- Provides 4 relay outputs
- E-blocks compatible

	Mftrs. List No.	Order Code	Price Each
E-BLOCKS RELAY BOARD	EB038	138-2375●	30.00

Power Supply ICs

224011/410990

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
1	ST	8	DIP	AutomAtic Voltage Switch Controller	E-AVS1ACP08	113-2005●	3.110	2.650	2.580	2.510	2.440
4	ON	24	QFN-24	Clock Synthesizer, PLL, 3.3V	NB4N441MNG	NEW SMD 136-9725●	8.330	6.220	5.350	4.760	4.580
5	FCH	5	TO-3P-5L	Power Switch (SPS). High Voltage Power senseFET With integrated Current-mode PWM controller, features extensive overload protection facilities, 650V - 9A continuous drain Current	KA5M0965QTU	360-6752▲	1.880	1.290	1.050	– –	– –
8	TI	10	DIP Module	3A Non-Isolated Wide-Output Adjustable Power Module	PTH08T261WAD	NEW 165-9629●	9.270	8.280	7.480	6.830	5.550
8	TI	10	DIP Module	6A Non-Isolated Wide Output Adjustable Power Module	1659629	NEW 165-9630●	10.380	9.350	7.790	7.190	6.490
10	ST	3	TO-220	Autorange Triac Switch	AVS10CBI	975-6477●	2.250	1.760	1.420	1.210	1.180
12	ST	8	DIP	SMPS PrimAry IC, a PWM circuit With High Voltage Power MOSFET	VIPER12ADIP-E	988-2901●	1.740	1.280	1.010	– –	– –
12	ST	8	SOIC	SMPS PrimAry IC, a PWM circuit With High Voltage Power MOSFET	VIPER12AS-E	SMD 988-2910●	1.120	0.840	0.660	– –	– –
20	TI	20	TSSOP	SBS 1.1 Compliant Gas Gauge Enabled BQ29330	BQ20Z70PW-V110	NEW SMD 164-7884●	5.200	3.850	3.210	2.750	2.680
20	TI	20	TSSOP	SBS 1.1 Compliant Gas Gauge Enabled BQ29330	BQ20Z70PW-V150	NEW SMD 164-7885●	5.200	3.850	3.210	2.900	2.820
20	TI	30	TSSOP	SBS 1.1 Compliant Gas Gauge Enabled w/Impedance Track Tech	BQ20Z90DBT-V110	NEW SMD 164-7886●	5.440	4.030	3.360	2.890	2.810
20	TI	30	TSSOP	SBS v1.1 Compliant Gas Gauge for BQ29330	BQ20Z90DBT-V150	NEW SMD 164-7887●	5.440	4.030	3.360	3.040	2.960
20	ST	8	DIP	SMPS PrimAry IC	VIPER20ADIP-E	107-7239●	2.450	1.600	1.350	1.260	1.200
20	ST	5	Pentawatt	SMPS PrimAry IC, a PWM circuit With Vertical Power MOSFET (600V, 0.5A)	VIPER20-E	109-4430●	2.630	2.150	1.670	1.490	1.330
22	ST	8	DIP	Low Power Offline SMPS PrimAry Switch	VIPER22ADIP-E	107-7240●	1.840	1.450	1.170	1.030	0.950
22	ST	8	SOIC	Low Power Offline SMPS PrimAry Switch	VIPER22AS-E	SMD 107-7241●	1.970	1.650	1.350	1.240	1.140
28	TI	8	SOIC	BiCMOS Current Mode PWM Controller	UCC28C43D	SMD 110-6067●	1.670	1.140	0.820	– –	– –
28	TI	8	SOIC	BICMOS Low-Power Current MODE PWM CONTROLLER	UCC28C45DG4	SMD 123-5024●	1.460	1.100	0.830	0.750	0.660
38	TI	8	SOIC	PWM Controller, BiCMOS Low Power Current Mode	UCC38C42DG4	SMD 121-4414●	1.570	1.060	0.760	– –	– –
38	TI	8	SOIC	Current Mode PWM	UCC38C43DG4	SMD 120-7251●	1.310	1.090	0.940	– –	– –
38	TI	8	SOIC	Current Mode PWM	UCC38C44DG4	SMD 120-7252●	1.100	0.910	0.800	– –	– –
44	ZET	8	MSOP	Boost converter for photoFlash applications	ZXSC440X8	SMD 122-6474●	1.280	0.960	0.760	0.700	0.650
50	ST	5	Pentawatt HV	SMPS PrimAry IC	VIPER50A-E	107-7242●	2.700	2.660	1.980	– –	– –
53	ST	8	DIP	Offline SMPS PrimAry Switch	VIPER53DIP-E	107-7243●	3.280	2.670	2.160	– –	– –
54	MCHIP	3	SOT-23	Voltage Detector with Open Drain Output	TC54VN2702ECB713	SMD 129-2289●	0.320	0.250	0.200	– –	– –
54	MCHIP	3	TO-92	Ultra Low Power, Open-drain Output, 2.7V Voltage Detector	TC54VN2702EZB	121-3078●	0.600	0.490	0.420	0.350	0.320
54	MCHIP	3	TO-92	Ultra Low Power, Open-drain Output, 4.3V Voltage Detector	TC54VN4302EZB	119-6831●	1.200	0.980	0.830	0.690	0.640
61	TOR	3	SOT-23	2.0V CMOS Standard Voltage Detector	XC61CC2002MRN	SMD 105-7787●	0.460	0.400	0.330	– –	– –
61	TOR	4	SSOT-24	2.0V CMOS Standard Voltage Detector	XC61CC2002NRN	SMD 105-7788●	0.420	0.360	0.290	– –	– –
61	TOR	3	SOT-23	4.5V CMOS Standard Voltage Detector	XC61CC4502MRN	SMD 105-7791●	0.460	0.400	0.330	– –	– –
61	TOR	4	SSOT-24	4.5V CMOS Standard Voltage Detector	XC61CC4502NRN	SMD 105-7792●	0.400	0.330	0.280	– –	– –
61	TOR	3	SOT-23	3.0V N-channel, Open-Drain Output, Standard Voltage Detector	XC61CN3002MRN	SMD 105-7793●	0.460	0.400	0.330	– –	– –
61	TOR	4	SSOT-24	3.0V N-channel, Open-Drain Output, Standard Voltage Detector	XC61CN3002NRN	SMD 105-7794●	0.420	0.360	0.300	– –	– –
78	TI	48	QFN	PowerLAN Gateway Battery Management Controller	BQ78PL114RGZT	NEW SMD 168-4746●	10.700	8.330	6.810	5.770	5.360
78	NSC	16	DIP	Switching Regulator Sub-System. +2.5V to 40V, 1.5A	LM78S40CN	948-8049●	1.550	1.090	0.880	0.500	0.440
94	TI	16	SOIC	Pulse-Width-Modulation (PWM) Control Circuit	TL494CNSR	SMD 123-6538●	0.290	0.194	0.179	0.175	0.170
94	TI	16	TSSOP	Pulse-Width-Modulation (PWM) Control Circuit	TL494CPWG4	SMD 123-6539●	0.350	0.260	0.197	0.172	0.168
100	ST	5	Pentawatt HV	SMPS PrimAry IC	VIPER100A-E	107-7238●	5.100	4.010	2.970	2.550	2.380
100	ST	5	Pentawatt HV	SMPS PrimAry IC	VIPER100-E	107-7237●	3.610	3.100	2.480	2.250	2.040
100	ZET	8	SOIC	Single-Cell DC/DC Converter	ZXSC100N8TA	SMD 113-2759●	1.240	1.000	0.680	– –	– –
100	ZET	8	SOIC	Single-Cell DC/DC Converter	ZXSC100N8TA.	SMD 384-7962▲	0.230	– –	– –	– –	– –
102	TI	7	TO-220	PWM Solenoid/Valve Driver	DRV102T	NEW 164-8730●	5.340	4.510	3.920	3.540	3.440
102	TI	7	PFM	PWM Solenoid/Valve Driver	DRV102FKTWT	SMD 146-1211●	6.550	4.540	3.800	3.540	3.440
103	TI	8	HSOP	PWM Low Side Solenoid Driver, 1.5A/3A	DRV103H	SMD 121-2388●	3.670	2.500	1.860	1.770	1.650
103	TI	8	SOIC	PWM Low Side Solenoid Driver, 1.5A/3A	DRV103UG4	SMD 120-6892●	2.320	2.050	1.830	– –	– –
110	BB	16	DIP	Precision Voltage-to-Current Converter/Transmitter. Can convert standard 0V to +10V or 0V to +5V Inputs into 4mA to 20mA or 5mA to 25mA outputs	XTR110KPG4	125-7841●	11.240	9.380	7.530	7.080	6.620
111	TI	10	SON	Precision Voltage-to-Current Converter/Transmitter	XTR111AIDRCT	NEW SMD 156-4947●	2.520	2.090	1.850	1.520	1.280
137	ST	3	TO-220	Positive Voltage Regulator for Battery Charger	PB137ACV	109-5402●	0.960	0.760	0.650	0.580	0.500
138	TI	5	SOT-23	High-Side Measurement Current Shunt Monitor	INA138NA/250	NEW SMD 156-4888●	2.220	1.830	1.630	1.340	1.130
165	FCH	8	DIP	Green Fairchild Power Switch for DVDP/STB, 4A	FSDL0165RN	124-1908●	0.900	0.760	0.590	0.390	0.350
165	FCH	8	LSOP	SMPS Power Switch(QRC), 1A, 650V (Green)	FSQ0165RL	NEW SMD 142-1261●	0.750	0.580	0.470	0.400	0.370
165	FCH	8	DIP	SMPS Power Switch(QRC), 1A, 650V (Green)	FSQ0165RN	NEW 142-1262●	0.730	0.550	0.450	0.380	0.350
198	TI	5	SOT	Current Monitor	INA198AIDBVTG4	SMD 118-0146●	1.360	1.160	1.020	0.900	0.820
206	TI	14	SOIC	High-Side Measurement Current-Shunt Monitor With Dual Comparators	INA206AIDG4	SMD 127-6099●	2.080	1.710	1.480	1.300	1.140
207	TI	14	SOIC	High-Side Measurement Current-Shunt Monitor With Dual Comparators	INA207AID	SMD 127-6100●	1.600	1.400	1.250	1.120	1.020
234	ST	3	TO-92	Three Terminal Adjustable Current Source 1µA to 10mA	LM234Z	NEW 156-4364●	1.180	0.950	0.850	0.680	0.590
235	ST	3	TO-92	Precision Temperature Sensor	LM235Z	NEW 156-4366●	1.000	0.810	0.710	0.590	0.500

RL Re-reeling available

Power Supply ICs - continued

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
253	MAX	8	SOIC	Oscillator/Power Driver for Isolated RS485/RS422	MAX253CSA+	SMD 972-4680	2.500	1.610	1.180	– –	– –
0265	FCH	8	DIP	SMPS Power Switch 100kHz 20W for DVDP/STB Power, (Green)	FSDH0265RN	124-1906	0.720	0.570	0.490	0.400	0.360
0265	FCH	8	DIP	SMPS Power Switch, Built-in Soft Start improved (Green), 8A	FSDM0265RNB	124-1910	0.800	0.680	0.530	0.370	0.310
265	FCH	8	LSOP	SMPS Power Switch(QRC), 2A, 650V (Green)	FSQ0265RL	NEW SMD 142-1263	0.870	0.670	0.540	0.460	0.430
265	FCH	8	DIP	SMPS Power Switch(QRC), 2A, 650V (Green)	FSQ0265RN	NEW 142-1264	0.770	0.610	0.470	0.410	0.380
296	ST	15	Multiwatt	4A Switching Regulator. Voltage range 5.1V to 40V	L296	109-4207	8.440	6.830	5.170	4.400	3.980
311	FCH	8	DIP	SMPS Power Switch for PC, TV and Monitor Aux Power, (Green)	FSDM311	124-1913	0.780	0.640	0.510	0.360	0.300
311	FCH	8	DIP	SMPS Power Switch(QRC), 0.5A, 650V (Green)	FSQ311	NEW 142-1267	0.510	0.390	0.340	0.280	0.270
311	FCH	8	LSOP	SMPS Power Switch(QRC), 0.5A, 650V (Green)	FSQ311L	NEW SMD 142-1269	0.600	0.490	0.370	0.320	0.300
321	FCH	8	DIP	SMPS Power Switch(QRC), 0.5A, 650V (Green)	FSQ321	NEW 142-1271	0.460	0.360	0.290	0.250	0.230
321	FCH	8	LSOP	SMPS Power Switch(QRC), 0.5A, 650V (Green)	FSQ321L	NEW SMD 142-1272	0.600	0.490	0.370	0.320	0.300
321	FCH	8	DIP	Green Mode Fairchild Power Switch for DVDP/STB	FSDH321	124-1907	0.640	0.550	0.380	0.310	0.280
334	NSC	3	TO-92	1µA to 10mA Adjustable Current Source	LM334Z/NOPB	NEW 156-4650	0.660	0.550	0.490	0.420	0.370
334	NSC	3	TO-46	3 Terminal Adjustable Current Source - Programmable from 1µA to 10mA. 1V to 40V operation	LM334H	121-6165	5.590	3.560	2.940	2.790	2.650
334	NSC	8	SOIC	3 Terminal Adjustable Current Source - Programmable from 1µA to 10mA. 1V to 40V operation	LM334M	SMD 948-8057	0.730	0.460	0.340	0.280	0.250
334	LT	8	SOIC	Constant Current Source	LM334S8#PBF	SMD 127-3422	2.200	1.510	1.260	– –	– –
334	ST	3	TO-92	3 Terminal Adjustable Current Source	LM334Z	109-4249	1.270	0.850	0.700	0.620	0.550
334	NSC	3	TO-92	3 Terminal Adjustable Current Source - Programmable from 1µA to 10mA. 1V to 40V operation	LM334Z	948-8065	0.720	0.590	0.540	0.530	0.490
0365	FCH	8	LSOP	SMPS Power Switch(QRC), 3A, 650V (Green)	FSQ0365RL	NEW SMD 142-1265	0.900	0.690	0.570	0.480	0.440
0365	FCH	8	DIP	SMPS Power Switch(QRC), 3A, 650V (Green)	FSQ0365RN	NEW 142-1266	0.950	0.740	0.590	0.490	0.460
0365	FCH	8	DIP	SMPS Power Switch, Built-in Soft Start improved (Green), 12 A	FSDL0365RNB	124-1909	1.320	1.100	0.870	0.570	0.510
0365	FCH	8	DIP	SMPS Power Switch, Built-in Soft Start improved (Green), 12A	FSDM0365RNB	124-1911	1.320	1.100	0.870	0.610	0.510
368	NSC	9	Micro SMD	Step-Down DC-DC Converter with Regulator	LM3687TL-1812/NOPB	NEW SMD 168-5778	1.600	1.310	1.070	0.980	0.880
431	TI	8	SOIC	Low Voltage Adjustable Precision shunt Regulator - Vref tol 1%	TLV431AID	SMD 110-3114	0.570	0.360	0.260	– –	– –
431	TI	8	SOIC	Low Voltage Adjustable Precision shunt Regulator - Vref tol 1.5%	TLV431CDBV	SMD 110-6062	0.250	0.210	0.174	– –	– –
431	FCH	3	TO-92	Programmable Shunt Regulator, 1% Output Voltage Tolerance	FAN431AZXA	110-2131	0.053	0.035	0.034	– –	– –
431	FCH	3	TO-92	Programmable Shunt Regulator, 0.5% Output Voltage Tolerance	FAN431LZXA	110-2132	0.073	0.049	0.048	– –	– –
431	FCH	3	TO-92	Programmable Shunt Regulator, 2% Output Voltage Tolerance	FAN431ZXA	110-2133	0.053	0.035	0.034	– –	– –
476	NSC	16	LLP	Eight Input IEEE 1149.1 Analogue Voltage Monitor	SCANSTA476TSD	NEW SMD 155-4784	4.610	3.870	3.210	2.710	2.300
494	TI	16	SOIC	Pulse-Width-Modulation (PWM) Control Circuit	TL494CDG4	SMD 959-3624	0.370	0.310	0.240	– –	– –
494	TI	16	DIP	Switched Mode Controller (Pulse Width Modulator) Push-Pull. On-chip oscillator, error Amplifier and 5V Reference	TL494CN	110-6036	0.460	0.300	0.210	– –	– –
494	TI	16	SOIC	Pulse-Width-Modulation (PWM) Control Circuit	TL494IDG4	SMD 959-3632	0.550	0.460	0.330	– –	– –
494	TI	16	DIP	Pulse-Width-Modulation (PWM) Control Circuit	TL494ING4	959-3640	0.450	0.370	0.270	– –	– –
497	TI	14	DIP	500mA Switching Regulator	TL497ACN	110-6037	1.280	0.910	0.700	– –	– –
513	LTC	7	D2PAK	Constant or Programmable Current/Constant Voltage Battery Charger	LT1513-2CR#PBF	NEW SMD 164-8008	6.890	5.430	4.470	4.110	3.640
591	TI	32	HLQFP	High Efficiency PWM Power Driver	DRV591VFP	SMD 121-2390	14.700	11.690	10.380	9.410	8.340
591	TI	32	HLQFP	High Efficiency PWM Power Driver	DRV591VFP..	SMD 846-6599	5.610	5.460	5.320	– –	– –
593	TI	32	HLQFP	High Efficiency PWM Power Driver	DRV593VFPR	SMD 121-2391	7.760	6.930	5.920	5.170	4.590
593	TI	32	HLQFP	High Efficiency PWM Power Driver	DRV593VFPR.	SMD 846-6610	3.830	3.180	2.550	– –	– –
594	TI	16	PDIP	PWM Control Circuit	TL594IN..	NEW 164-8728	0.850	0.670	0.570	0.530	0.500
594	TI	16	SOIC	Pulse-Width-Modulation (PWM) Control Circuit	TL594CD	SMD 128-7639	0.830	0.710	0.590	0.470	0.350
594	TI	16	SOIC	Pulse-Width-Modulation (PWM) Control Circuit	TL594CDE4	SMD 123-6540	0.630	0.480	0.360	0.330	0.290
594	TI	16	PDIP	Pulse-Width-Modulation (PWM) Control Circuit	TL594CN	128-7652	0.740	0.480	0.340	0.250	0.200
594	TI	16	TSSOP	Pulse-Width-Modulation (PWM) Control Circuit	TL594CPW	SMD 123-6541	0.630	0.480	0.360	0.330	0.290
598	TI	16	SOIC	PWM Control Circuit	TL598CD.	NEW SMD 164-8729	1.070	0.850	0.710	0.640	0.620
598	TI	16	TSSOP	Pulse-Width-Modulation (PWM) Control Circuit	TL598CN	128-7657	1.200	0.850	0.650	0.500	0.490
608	MAX	8	DIP	5V (adjustable), Step-Up DC-DC Controller. Input 1.8V to 16.5V	MAX608EPA	787-528▲	2.920	1.950	1.630	1.550	1.520
619	MAX	8	DIP	5V, Step-Up Charge-Pump DC-DC Converter. Input 2V to 3.6V	MAX619CPA+	129-0864	3.170	2.840	2.550	2.280	1.520
619	MAX	8	SOIC	5V Charge Pump DC-DC Converter	MAX619ESA+	NEW SMD 161-0114	3.750	3.060	2.500	2.130	1.970
629	MAX	8	SOIC	28V, Low Power, High Voltage Boost or Inverting DC/DC Converter	MAX629ESA+	SMD 972-5679	6.560	4.220	2.850	– –	– –
631	MAX	8	DIP	+5V (adjustable) CMOS Step-Up Switching Regulator	MAX631ACPA	246-475▲	5.640	3.930	2.660	2.210	2.110
631	MAX	8	DIP	+5V (adjustable) CMOS Step-Up Switching Regulator	MAX631ACPA+	129-0845	4.970	4.440	3.990	3.580	2.390
635	MAX	8	NSO	CMOS Preset/Adjustable -5.0V 5% Output Inverting Switching Regulator	MAX635ACSA+	NEW SMD 142-2345	5.150	4.620	4.140	3.730	2.480
637	ADI	16	SOIC	High Precision Wideband RMS-to-DC Converter	AD637BRZ	NEW SMD 165-1311	38.020	29.570	24.200	22.190	19.020
638	MAX	8	DIP	+5V (adjustable) CMOS Step-Down Switching Regulator	MAX638ACPA+	118-7930	6.120	3.930	2.660	2.210	2.120
639	MAX	8	DIP	5.5V to 11.5VIN/5V or adjustable out, Step-Down Switching Regulator	MAX639CPA	459-604▲	4.040	2.950	2.420	2.360	2.300
639	MAX	8	DIP	5.5V to 11.5VIN/5V or adjustable out, Step-Down Switching Regulator	MAX639CPA+	129-0854	5.590	4.090	3.150	2.840	2.720
639	MAX	8	SOIC	5.5V to 11.5Vin/5V or adjustable output, Step-down Switching Regulator	MAX639CSA+	SMD 972-5008	4.850	3.400	2.880	– –	– –
641	MAX	8	SOIC	+5V (adjustable) CMOS, 10W, Step up Switching Regulator, 5% O/P accuracy	MAX641ACSA+	SMD 118-7955	6.330	4.070	3.090	– –	– –
648	MCHIP	8	PDIP	PWM Fan Speed Controller with Auto-Shutdown & Over-Temperature Alert	TC648VPA	NEW 155-7414	1.360	1.030	0.810	– –	– –
660	ADI	8	SOIC	CMOS Switched-Capacitor Voltage Converter	ADM660ARZ	NEW SMD 166-1070	1.740	1.350	1.120	1.010	0.850
660	LT	8	SOIC	100mA Sw Capacitor Conv	LTC660CS8#PBF	SMD 127-4009	5.200	2.950	2.420	– –	– –
660	MAX	8	DIP	CMOS Voltage Converter, operates 1.5 to 5.5V (High Current ICL7660 upgrade)	MAX660CPA+	118-7928	6.180	3.980	3.430	2.540	2.480
660	MAX	8	SOIC	CMOS Voltage Converter, operates 1.5 to 5.5V (High Current ICL7660 upgrade)	MAX660CSA+	SMD 972-4672	6.490	4.170	3.600	– –	– –
660	NSC	8	SOIC-8	Voltage inverter/doubler	MAX660M	SMD 948-6291	1.120	0.920	0.850	– –	– –
662	MAX	8	DIP	30mA, 12V Output, charge-pump DC/DC Converter, provides output to program byte wide Flash memories	MAX662ACPA+	118-7942	4.280	2.750	2.020	– –	– –
662	MAX	8	SOIC	30mA, 12V Output, charge-pump DC/DC Converter, provides output to program byte wide Flash memories	MAX662ACSA+	SMD 972-4605	4.360	2.810	2.060	– –	– –
662	MAX	8	SOIC	30mA, 12V Output, charge-pump DC/DC Converter, provides output to program byte wide Flash memories. (IND TEMP)	MAX662AESA+	SMD 972-4613	4.960	3.450	3.010	– –	– –
664	MAX	8	SO	5V Programmable Micropower Voltage Regulator	MAX664ESA+	NEW SMD 142-2346	5.640	3.980	3.230	2.930	2.880
665	MAX	8	SOIC	8V CMOS Switched-Capacitor Voltage Converter	MAX665CPA+	NEW SMD 167-3209	8.460	6.050	4.710	4.230	3.850
667	MAX	8	DIP	+5V / Programmable Low Dropout Voltage Regulator With 250mA output Current	MAX667CPA+	118-7967	4.890	3.140	2.710	– –	– –
667	MAX	8	SOIC	5V, Programmable LDO Voltage Regulator (IND TEMP)	MAX667ESA+	SMD 972-5695	6.590	4.240	3.650	– –	– –
668	MAX	10	SOIC	PWM Step-up Controller (IND TEMP)	MAX668EUB+	SMD 972-5709	4.830	3.110	2.100	– –	– –
669	MAX	10	MicroMAX	1.8V to 28V Input, PWM Step-Up Controller	MAX669EUB+	NEW SMD 142-2347	4.220	2.950	2.160	1.960	1.880
680	MAX	8	DIP	CMOS, Dual Output Voltage Converter, +5V to ±10V	MAX680CPA+	118-7929	4.000	2.570	2.130	1.580	1.530
680	MAX	8	SOIC	CMOS, Dual Output Voltage Converter, +5V to ±10V	MAX680CSA+	SMD 972-5717	4.360	2.810	2.320	– –	– –
682	MAX	8	NSOIC	3.3V Input to Regulated 5V Output Charge Pumps	MAX682ESA+	NEW SMD 138-0017	5.300	3.600	2.790	2.390	– –
683	MAX	8	µMax	.3V Input to Regulated 5V 0.1A Output Charge Pumps	MAX683EUA+	NEW SMD 167-3212	4.610	3.300	2.560	2.300	2.090
685	MAX	16	QSOP	Positive and Negative Dual O/P DC-DC Converter for CCD and LCD	MAX685EEE+	NEW SMD 161-0121	5.530	4.540	3.730	3.150	2.920
690	MAX	8	SO	3.075V Microprocessor Supervisory Circuit	MAX690TESA+	NEW SMD 142-2348	7.030	4.960	4.180	3.970	3.770
691	LT	16	SOIC	µP Reset Circuit & WDT w/RAM Protect	LTC691CSW#PBF	SMD 127-3653	7.660	4.330	3.190	– –	– –
692	LT	8	SOIC	µP Reset Circuit & WDT	LTC692CS8#PBF	SMD 127-3654	6.490	3.690	2.890	– –	– –
693	LT	16	SOIC	µP Reset Circuit & WDT w/RAM Protect	LTC693CSW#PBF	SMD 127-3655	4.880	3.250	2.710	– –	– –
694	LT	8	SOIC	µP Reset Circuit & WDT	LTC694CS8#PBF	SMD 127-3657	6.900	3.900	2.890	– –	– –
695	LT	16	SOIC	µP Reset Circuit & WDT w/RAM Protect	LTC695CSW#PBF	SMD 127-3658	4.570	3.230	3.140	– –	– –
699	LT	8	SOIC	µP Reset Circuit & WDT	LTC699CS8#PBF	SMD 127-3659	5.010	2.830	2.060	– –	– –
706	MAX	8	SO	+2.93V Voltage Monitoring Microprocessor Supervisory Circuits	MAX706SESA+	NEW SMD 142-2349	5.590	3.990	3.600	3.170	3.000
710	TI	6	SOT-23	DC-DC Converter, 30mA 3.3V	REG710NA-3.3/250G4	SMD 120-7264	0.800	0.660	0.540	– –	– –
710	TI	6	SOT-23	DC-DC Converter, 50mA 5.0V	REG710NA-5/250G4	SMD 120-7265	1.040	0.860	0.710	– –	– –
711	TI	8	MSOP	50mA Switched-Cap DC/DC Converter	REG711EA-2.5/250	SMD 147-1216	1.600	1.280	1.080	0.920	0.860
711	TI	8	MSOP	50mA Switched-Cap DC/DC Converter	REG711EA-3.3/250	SMD 147-1217	1.560	1.280	1.080	0.920	0.860

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	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
711	TI	8	MSOP	50mA Switched-Cap DC/DC Converter	REG711EA-5/250	SMD 147-1218●	1.600	1.280	1.080	0.880	0.860
712	MAX	16	DIP	Fast Charge Controller optimised for NiMH batteries that can also be used With NiCd (slight undercharge). Uses zero Voltage-slope detection	MAX712CPE+	118-7977●	6.870	4.420	3.510	2.810	2.750
713	MAX	16	DIP	NiCd/NiMH Battery fast-charge controller	MAX713CPE+	118-7938●	6.870	4.420	3.510	– –	– –
713	MAX	16	SOIC	Fast Charge Controller for NiCd/NiMH battery	MAX713CSE+	SMD 972-6403●	7.200	4.630	3.840	2.840	2.770
738	MAX	8	DIP	5V, Step-Down, Current-Mode PWM DC-DC Converter. Input 6V to 16V.	MAX738ACPA+	118-8006●	4.360	3.910	3.520	3.150	2.110
743	MAX	16	WSOIC	Switch Mode Regulator Triple O/P 5V, ±15V& ±12V	MAX743EWE+	NEW SMD 161-0127●	9.190	7.560	6.190	5.250	4.860
743	MAX	16	DIP	Dual-Output, Switch-Mode Regulator (+5V to ±15V or ±12V)	MAX743CPE+	118-7931●	6.440	4.700	3.850	3.750	3.650
743	MAX	16	SOIC	Dual-Output, Switch-Mode Regulator (+5V to ±15V or ±12V)	MAX743CWE+	SMD 972-5733●	9.930	7.960	6.370	– –	– –
745	MAX	20	SSOP	Switch-Mode 1 to 4 Lithium-Ion & Polymer Battery-Charger	MAX745EAP+	NEW SMD 142-2351●	7.760	5.540	4.630	4.380	4.160
749	MAX	8	SOIC	LCD Bias Supply, digitally adjustable	MAX749CSA+	SMD 972-6365●	5.400	3.870	2.850	2.370	– –
756	MAX	8	DIP	Switching Regulator	MAX756CPA	459-586▲	3.220	2.350	1.960	1.720	– –
756	MAX	8	DIP	2VIN/3.3V or 5V out, Step-Up, Switching Regulator	MAX756CPA+	129-0853●	4.060	2.750	2.170	1.550	– –
757	MAX	8	DIP	2VIN/Adjustable Output, Step-Up, Switching Regulator	MAX757CPA	459-549▲	3.220	2.350	1.850	1.640	1.570
757	MAX	8	DIP	2VIN/Adjustable Output, Step-Up, Switching Regulator	MAX757CPA+	129-0852●	3.220	2.350	1.820	1.640	1.570
761	MAX	8	DIP	12V (adjustable), Step-Up DC-DC Converter. Input2V to 16.5V	MAX761CPA+	118-8051●	4.830	3.110	2.450	1.750	1.680
761	MAX	8	SOIC	12V (adjustable). Step up DC-DC converter. Input 2V to 16.5V (IND TEMP)	MAX761ESA+	SMD 972-5024●	7.250	4.660	3.410	– –	– –
764	MAX	8	SOIC	-5V High effeciency, Inverting Switching Regulator	MAX764CSA+	SMD 972-5032●	5.440	3.490	2.350	– –	– –
764	MAX	8	PDIP	-5V or Adjustable, High-Efficiency DC-DC Inverter	MAX764CPA+	NEW 142-2353●	4.310	3.860	3.460	3.090	2.070
764	MAX	8	SO	-5V or Adjustable, High-Efficiency DC-DC Inverter	MAX764ESA+	NEW SMD 142-2354●	6.350	5.700	5.100	4.570	3.050
765	MAX	8	PDIP	SWITCHING Regulator INV	MAX765CPA+	125-6394●	5.330	3.430	2.310	1.990	1.940
765	MAX	8	SOIC	-12V High efficiency, inverting switching Regulator	MAX765CSA+	SMD 972-5059●	5.090	3.880	2.770	– –	– –
766	MAX	8	SO	-15V or Adjustable, High-Efficiency DC-DC Inverter	MAX766ESA+	NEW SMD 142-2355●	6.350	5.700	5.100	4.570	3.050
767	MAX	20	SSOP	5V-to-3.3V, Synchronous, Step-Down Power-Supply Controller	MAX767EAP+	NEW SMD 142-2356●	8.190	5.720	4.490	3.710	3.630
771	MAX	8	SOIC	1A, Step up Regulator With 12V or adjustable output	MAX771ESA+	SMD 118-7956●	5.570	3.910	2.780	– –	– –
773	MAX	14	DIP	1A, Step-Up Regulator With 5/12/15V output or adjustable With two resistors	MAX773CPD+	118-8065●	3.030	2.130	1.650	1.510	– –
774	MAX	8	SOIC	1A - 5V Low IQ Inverting DC-DC Switching Regulator	MAX774CSA+	SMD 972-5741●	3.360	2.770	2.210	– –	– –
774	MAX	8	SO	Inverting DC/DC Controller	MAX774ESA+	NEW SMD 142-2357●	5.980	5.360	4.790	4.310	2.880
797	MAX	16	SOIC	Step-Down Controller with Synchronous Rectifier for CPU Power	MAX797ESE+	NEW SMD 142-2358●	10.410	6.970	5.820	4.530	4.420
797	MAX	16	NSOIC	Step-Down Controller with Synchronous Rectifier for CPU Power	MAX797HESE+	NEW SMD 161-0129●	7.910	6.490	5.310	4.500	4.180
828	MCHIP			Switched Capacitor Voltage Converter	TCM828ECT713	NEW 162-7172●	0.320	0.240	0.191	– –	– –
828	ON	5	TSOP	CMOS Charge Pump Voltage Inverter	MAX828EUKG	SMD 146-0666●	0.350	0.280	0.260	0.240	0.210
828	MAX	5	SOT-23	Switched Capacitor Voltage Inverter	MAX828EUK+T	SMD 118-8062●	2.990	2.440	2.050	1.810	1.710
829	ON	5	TSOP	CMOS Charge Pump Voltage Inverter	MAX829EUKG	SMD 146-0667●	0.450	0.340	0.300	0.280	0.240
829	MAX	5	SOT-23	CMOS charge-pump switched capacitor Voltage inverter. (IND TEMP)	MAX829EUK+T	SMD 118-7966●	2.680	1.920	1.870	– –	– –
840	MAX	8	SOIC	Low Noise, Regulated GaAs FET Bias With Fixed -2V or adjustable - 0.5V to -9.4V Output at 4mA, for Cellular Telephone transmitter Amplifiers. (IND TEMP)	MAX840ISA+	SMD 118-8054●	3.170	2.280	1.760	1.610	1.570
845	MAX	8	SOIC	100mA, 5V Transformer Driver	MAX845ESA+	SMD 972-5792●	3.550	2.280	1.930	– –	– –
856	MAX	8	SOIC	3.3V/5V pin-selectable output, step-up DC-DC converter	MAX856CSA+	SMD 972-5040●	3.690	2.370	1.600	– –	– –
860	MAX	8	SOIC	50mA, Frequency-Selectable, Switched-Capacitor Voltage Converter	MAX860ESA+	NEW SMD 167-3229●	4.450	3.190	2.470	2.230	2.030
860	MAX	8	MicroMax	Frequency Selectable Switched Capacitor Voltage Converter	MAX860IUA+	NEW SMD 161-0131●	2.580	2.110	1.730	1.470	1.360
860	MAX	8	SOIC	CMOS Voltage Inverter or Positive Voltage Doubler, High Switching Frequencies, 3 Switching Modes 6, 50 or 130KHz (IND TEMP)	MAX860ISA+	SMD 972-6020●	3.340	2.140	1.450	1.210	0.930
861	MAX	8	SOIC	50mA, Frequency-Selectable, Switched-Capacitor Voltage Converter	MAX861ESA+	NEW SMD 167-3230●	4.450	3.190	2.470	2.230	2.030
861	MAX	8	SOIC	CMOS Voltage Inverter or Positive Voltage Doubler, High Switching Frequencies, 3 Switching Modes 13, 100 or 250KHz (IND TEMP)	MAX861ISA+	SMD 118-7945●	2.920	2.600	2.310	2.050	1.290
864	MAX	16	QSOP	Dual Output Charge Pump with Shutdown DC-DC Voltage Converter	MAX864EEE+	NEW SMD 142-2361●	3.260	2.230	1.520	1.490	1.460
865	MAX	8	MicroMAX	Positive I/P to Positive or Negative O/P Voltage Charge Pump DC-DC Converter	MAX865EUA+	NEW SMD 142-2362●	2.830	1.910	1.310	1.280	1.260
868	MAX	10	µMAX	Regulated, Adjustable -2x Inverting Charge Pump	MAX868EUB+	SMD 972-3730●	4.020	2.580	1.740	1.450	– –
881	MAX	10	MicroMAX	Inverting Power Supply for biasing GaAsFET Power Amplifiers	MAX881REUB+	NEW SMD 142-2363●	3.670	2.920	2.460	2.110	1.910
1014	ON	7	PDIP-7 Gull Wing	Offline Switcher	NCP1014APL065R2G	136-9728●	0.720	0.540	0.470	0.410	0.400
1020	LT	16	SOIC	MicroPower Regulator and Comparator	LT1020CSW#PBF	SMD 955-9434●	7.090	4.020	3.270	– –	– –
1026	LT	8	DIP	Voltage Converter O/P ±7V TO ±18V	LT1026CN8#PBF	NEW 166-3336●	3.880	2.910	2.330	1.940	1.740
1026	LT	8	SOIC	+5V to ±9V Sw Cap Converter	LT1026CS8#PBF	SMD 127-3660●	4.250	2.400	1.770	– –	– –
1043	LT	18	SOIC	Dual Precision Instrumentation Switched Capacitor	LTC1043CSW#PBF	NEW SMD 166-3591●	5.490	4.260	3.410	2.840	2.540
1044	MAX	8	SOIC	20mA Switched-Capacitor Voltage Converter	MAX1044ESA+	NEW SMD 167-3184●	3.460	2.470	1.920	1.730	1.580
1044	LT	8	SOIC	Switched Capacitor Voltage Converter	LTC1044CS8#PBF	NEW SMD 166-3593●	4.120	3.190	2.550	2.130	1.910
1044	LT	8	SOIC	Switched Cap Volt Conv 13V	LTC1044ACS8#PBF	SMD 127-3829●	3.950	2.630	2.210	– –	– –
1044	LT	8	DIP	CMOS Voltage Converter operates 1.5 to 9V. Provides Voltage inversion. Voltage doubling	LTC1044CN8#PBF	956-0734●	3.120	1.760	1.350	– –	– –
1044	MCHIP	8	DIP	CMOS Voltage Converter operates 1.5 to12V. Provides Voltage inversion.	TC1044SCPA	119-6840●	1.510	1.190	0.980	0.740	– –
1046	LT	8	DIP	CMOS Voltage Converter, operates 1.5 to 6V.	LTC1046CN8#PBF	956-0742●	4.060	2.300	1.730	– –	– –
1046	LT	8	SOIC	Switched Cap Volt Conv 50mA	LTC1046CS8#PBF	SMD 127-3830●	5.480	3.100	2.310	– –	– –
1054	LT	8	DIP	Switched-Capacitor Voltage Converter with Regulator	LT1054IN8#PBF	NEW 166-3340●	7.290	5.460	4.370	3.640	3.260
1054	LT	8	SOIC	Switched-Capacitor Voltage Converter with Regulator	LT1054IS8#PBF	NEW SMD 166-3341●	8.510	6.380	5.110	4.260	3.810
1054	LT	8	SOIC	Switched-Capacitor Voltage Converter with Regulator	LT1054LCS8#PBF	NEW SMD 166-3342●	4.030	3.020	2.420	2.020	1.810
1054	LT	8	DIP	Switched Capacitor Voltage Converter, 100mA	LT1054CN8#PBF	955-9515●	5.010	2.830	2.160	– –	– –
1054	LT	8	SOIC-8	Voltage Converter	LT1054CS8	SMD 476-7056▲	2.380	2.030	1.660	– –	– –
1054	LT	8	SOIC	Switched Capacitor Voltage Converter With Regulator	LT1054CS8#PBF	SMD 955-9523●	5.670	3.210	2.330	– –	– –
1060	ADI	28	TSSOP	Multi Power Supply Sequencer & Supervisor	ADM1060ARUZ	SMD 143-9081●	9.360	7.170	6.080	– –	– –
1061	ST	3	SOT-23	Low Power Voltage Detector (2.3V)	STM1061N23WX6F	SMD 122-4450●	0.650	0.410	0.310	0.270	0.220
1061	ST	3	SOT-23	Low Power Voltage Detector (2.9V)	STM1061N29WX6F	SMD 122-4452●	0.490	0.360	0.290	0.230	0.198
1061	ST	3	SOT-23	Low Power Voltage Detector (3.1V)	STM1061N31WX6F	SMD 122-4453●	0.410	0.310	0.260	0.220	0.182
1063	ADI	40	LFCSP	Multisupply Supervisor/Sequencer With ADC and Temperature Monitoring	ADM1063ACPZ	SMD 107-8213●	10.470	7.850	7.630	– –	– –
1064	ADI	48	TQFP	Super Sequencer® with Voltage Readback 12-bit ADC	ADM1064ASUZ	SMD 143-9082●	11.230	8.620	7.310	– –	– –
1065	ADI	48	TQFP	Super Sequencer™ and Monitor	ADM1065ASUZ	SMD 143-9083●	8.630	6.440	5.610	– –	– –
1067	ADI	40	LFCSP	Super Sequencer® with Open-Loop Margining DACs	ADM1067ACPZ	SMD 143-9084●	9.430	5.990	5.280	– –	– –
1068	ADI	32	LQFP	Compact Multisupply Supervisor/Sequencer	ADM1068ASTZ	SMD 107-8210●	4.630	3.750	3.150	– –	– –
1070	LT	5	TO-220	5A Switching Regulator optimised for use in Step-Up, "boost" and other configurations	LT1070CT#PBF	955-9558●	10.270	5.810	4.350	– –	– –
1071	LT	5	TO-220	2.5A Switching Regulator as LT1070CT	LT1071CT#PBF	955-9566●	8.380	4.740	3.660	– –	– –
1072	LT	8	DIP	1.25A High Efficiency Switching Regulator	LT1072CN8	476-7081▲	2.050	1.750	1.430	– –	– –
1072	LT	8	DIP	1.25A High Efficiency Switching Regulator	LT1072CN8#PBF	955-9574●	4.440	2.510	1.890	– –	– –
1072	LT	8	SOIC	1.25A Power Switching Reg	LT1072CS8#PBF	SMD 127-3661●	5.480	3.100	2.310	– –	– –
1072	LT	5	TO-220	1.25A Switching Regulator as LT1070CT	LT1072CT#PBF	955-9582●	5.550	3.140	2.270	– –	– –
1073	ADI	14	TSSOP	-48V Full Feature Hot Swap Controller	ADM1073ARUZ	SMD 107-8208●	2.740	1.930	1.440	– –	– –
1073	LT	8	DIP	MicroPower Switching Regulator With a minimum supply Voltage of 1V. Step-Up/Step-Down modes, adjustable output	LT1073CN8#PBF	955-9590●	5.200	2.950	2.420	– –	– –
1073	LT	8	DIP	µP Switching Reg +5V Out	LT1073CN8-5#PBF	127-3662●	4.960	3.310	2.770	– –	– –
1073	LT	8	SOIC	µP Switching Reg	LT1073CS8#PBF	SMD 127-3663●	4.030	2.740	2.670	– –	– –
1073	LT	8	SOIC	µP Switching Reg +5V Out	LT1073CS8-5#PBF	SMD 127-3664●	6.020	3.420	2.770	– –	– –
1074	LT	5	TO-220	5A Switching Regulator optimised for use in Step-Down, "flyback" and other configurations. Input 5 to 45V	LT1074CT#PBF	955-9604●	9.550	5.400	4.040	– –	– –
1074	LT	7	TO-220	5A Step-Down Switching Reg	LT1074CT7#PBF	127-3665●	11.150	6.300	4.690	– –	– –
1074	LT	5	TO-220	Step down Switching Regulator	LT1074HVCT#PBF	955-9612●	14.350	8.120	6.080	– –	– –
1074	LT	5	TO-220	Step down Switching Regulator	LT1074IT#PBF	955-9620●	12.930	7.320	5.460	– –	– –
1076	LT	5	TO-263 (D2-Pak)	Step down Switching Regulator	LT1076CQ#PBF	SMD 955-9639●	7.330	4.140	3.080	– –	– –
1076	LT	7	TO-263 (D2-Pak)	2A Step-Down Switching Reg	LT1076CR#PBF	SMD 127-3666●	7.910	4.470	3.350	– –	– –
1076	LT	5	TO-220	2A Adj. Switching Regulator as LT1074CT	LT1076CT#PBF	955-9647●	6.390	3.610	2.690	– –	– –
1076	LT	5	TO-220	Step down Switching Regulator	LT1076CT-5#PBF	955-9655●	6.390	3.610	2.690	– –	– –

RL Re-reeling available

Power Supply ICs - continued

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
1082	LT	5	D2PAK	1A High Voltage, Efficiency Switching Voltage Regulator	LT1082IQ#PBF	NEW SMD 166-3347	11.240	8.420	6.740	5.620	5.030
1082	LT	5	TO-220	1A High Voltage, Efficiency Switching Voltage Regulator	LT1082IT#PBF	NEW 166-3348	10.520	7.890	6.310	5.260	4.710
1082	LT	8	DIP	1A Hi Voltage Switching Reg	LT1082CN8#PBF	127-3667	7.680	4.360	3.540	– –	– –
1082	LT	5	TO-220	1A Hi Voltage Switching Reg	LT1082CT#PBF	127-3669	9.100	5.140	4.120	– –	– –
1105	LT	8	DIP	Offline Switching Regulator	LT1105CN8#PBF	127-3671	6.740	3.820	2.890	– –	– –
1107	LT	8	SOIC	Micropower DC/DC Converter Adjustable and Fixed 5V, 12V	LT1107IS8#PBF	NEW SMD 166-3353	5.090	3.810	3.050	2.540	2.280
1107	LT	8	SOIC	µP Switching Reg Adj. Out	LT1107CS8#PBF	SMD 127-3672	4.130	2.340	1.850	– –	– –
1107	LT	8	SOIC	µP Switching Reg +12V Out	LT1107CS8-12#PBF	SMD 127-3673	3.330	2.230	1.860	– –	– –
1107	LT	8	SOIC	µP Switching Reg +5V Out	LT1107CS8-5#PBF	SMD 127-3674	3.130	1.840	1.680	– –	– –
1108	LT	8	SOIC	µP Switching Reg Adj. Out	LT1108CS8#PBF	SMD 127-3675	3.880	2.270	2.230	– –	– –
1108	LT	8	SOIC	µP Switching Reg +5V Out	LT1108CS8-5#PBF	SMD 127-3676	3.340	1.960	1.680	– –	– –
1109	LT	8	DIP	MicroPower Step-Up Switching Regulator. 5V to 12V boost specifically designed for Flash Memory	LT1109ACN8-12#PBF	113-6610	4.440	2.510	1.890	– –	– –
1109	LT	8	SOIC	MicroPower DC/DC converter Flash Memory VPP Generator	LT1109ACS8	SMD 476-7196▲	1.980	1.820	1.770	– –	– –
1109	LT	8	SOIC	MicroPower DC/DC converter Flash Memory VPP Generator	LT1109ACS8#PBF	SMD 955-9949	3.950	2.380	1.830	– –	– –
1109	LT	8	SOIC	12V MicroPower DC/DC converter Flash Memory VPP Generator	LT1109ACS8-12	SMD 476-7202▲	1.980	1.690	1.540	– –	– –
1109	LT	8	SOIC	12V MicroPower DC/DC converter Flash Memory VPP Generator	LT1109ACS8-12#PBF	SMD 955-9957	4.440	2.510	1.890	– –	– –
1109	LT	8	SOIC	µP Switching Reg +5V Out	LT1109ACS8-5#PBF	SMD 127-3677	3.950	2.630	2.210	– –	– –
1109	LT	8	SOIC	µP Switching Reg Adj. Out	LT1109CS8#PBF	SMD 127-3678	2.770	1.820	1.770	– –	– –
1109	LT	8	SOIC	12V MicroPower DC/DC converter Flash Memory VPP Generator	LT1109CS8-12	SMD 476-7214▲	0.750	– –	– –	– –	– –
1109	LT	8	SOIC	12V MicroPower DC/DC converter Flash Memory VPP Generator	LT1109CS8-12#PBF	SMD 955-9965	4.440	2.510	1.890	– –	– –
1110	LT	8	SOIC	µP Switching Reg Adj. Out	LT1110CS8#PBF	SMD 127-3680	6.020	3.420	2.770	– –	– –
1110	LT	8	SOIC	µP Switching Reg +5V Out	LT1110CS8-5#PBF	SMD 127-3682	5.750	3.840	3.210	– –	– –
1111	LT	8	DIP	MicroPower DC/DC Coverter	LT1111CN8	476-7226▲	2.120	1.760	1.340	– –	– –
1111	LT	8	DIP	MicroPower DC/DC Coverter	LT1111CN8#PBF	955-9973	4.350	2.460	1.850	– –	– –
1111	LT	8	SOIC	MicroPower DC/DC Coverter Adjustable	LT1111CS8	SMD 476-7238▲	2.430	2.070	1.690	– –	– –
1111	LT	8	SOIC	MicroPower DC/DC Coverter Adjustable	LT1111CS8#PBF	SMD 955-9981	5.010	2.830	2.160	– –	– –
1111	LT	8	SOIC	µP Switching Reg +5V Out	LT1111CS8-5#PBF	SMD 127-3683	5.010	2.830	2.160	– –	– –
1120	TI	8	SOIC	Power Distribution Switch, Dual	TPS1120D	SMD 845-6674	1.510	1.060	0.760	– –	– –
1121	MCHIP	8	SOIC	100mA Charge Pump Voltage Converter with Shutdown	TC1121COA	NEW SMD 162-7180	1.200	0.910	0.710	– –	– –
1144	LT	8	SOIC	Switched-Capacitor Voltage Converter with Shutdown	LTC1144IS8#PBF	NEW SMD 166-3597	5.220	4.040	3.240	2.700	2.420
1142	LT	28	SSOP	Dual Hi Eff Sw Reg Controller	LTC1142CG#PBF	127-3831	7.850	7.140	5.980	– –	– –
1143	LT	16	SOIC	Dual Hi Eff Sw Reg Controller	LTC1143CS#PBF	127-3832	5.240	4.760	3.990	– –	– –
1144	LT	8	SOIC	Switched Cap Volt Conv 20V	LTC1144CS8#PBF	SMD 127-3833	4.630	2.620	1.960	– –	– –
1147	LT	8	SOIC	3.3V High Eff Stepdown Reg	LTC1147CS8-3.3#PBF	SMD 127-3834	3.280	1.890	1.840	– –	– –
1147	LT	8	SOIC	5V High Eff Stepdown Regulator	LTC1147CS8-5#PBF	SMD 127-3835	5.080	2.870	2.160	– –	– –
1147	LT	8	SOIC	High Efficiency Step-Down Switching Regulator Controller	LTC1147LCS8#PBF	NEW SMD 166-3599	5.490	4.260	3.410	2.840	2.540
1148	LT	14	SOIC	High Efficiency Synchronous Step-Down Switching Regulator	LTC1148HVCS#PBF	NEW SMD 166-3600	8.420	6.530	5.220	4.350	3.890
1148	LT	14	SOIC	Hi Eff Syn Stepdn Sw Reg	LTC1148CS#PBF	SMD 127-3836	8.320	4.700	3.540	– –	– –
1149	LT	16	DIP	High Efficiency, Synchronous Step-Down Switching Regulator	LTC1149CN#PBF	113-6640	9.100	5.150	4.230	– –	– –
1149	LT	16	SOIC	Hi Eff Syn Stepdn Sw Reg	LTC1149CS#PBF	SMD 127-3837	9.450	4.730	3.850	– –	– –
1150	IR	8	SOIC	One Cycle Control, Power Factor Correction	IR1150ISTRPBF	SMD 108-1506	2.690	1.690	1.420	– –	– –
1150	IR	8	SOIC	One Cycle Control, Power Factor Correction	IR1150STRPBF	SMD 108-1507	2.670	1.400	1.160	– –	– –
1155	LT	8	SOIC	Dual Hi Side Switch Driver	LTC1155CS8#PBF	SMD 127-3506	5.860	3.310	2.460	– –	– –
1156	LT	16	SOIC	Quad High Side Switch Driver	LTC1156CSW#PBF	SMD 127-3507	8.470	5.630	4.720	– –	– –
1157	LT	8	SOIC	Dual 3.3V Hi Side Switch Driver	LTC1157CS8#PBF	SMD 127-3508	2.910	1.690	1.600	– –	– –
1159	LT	20	SSOP	Hi Eff Syn Stepdn Sw Reg	LTC1159CG#PBF	127-3839	6.980	6.340	5.320	– –	– –
1159	LT	20	SSOP	3.3V Hi Eff Syn Stepdn Sw Reg	LTC1159CG-3.3#PBF	SMD 127-3841	9.010	6.020	5.050	– –	– –
1159	LT	20	SSOP	5V High Eff Syn Stepdn Sw Reg	LTC1159CG-5#PBF	127-3842	6.980	6.340	5.320	– –	– –
1159	LT	16	SOIC	Hi Eff Syn Stepdn Sw Reg	LTC1159CS#PBF	SMD 127-3843	6.790	4.000	3.770	– –	– –
1159	LT	16	SOIC	5V High Eff Syn Stepdn Sw Reg	LTC1159CS-5#PBF	SMD 127-3845	8.130	5.410	4.540	– –	– –
1163	LT	8	SOIC	Triple High Side Switch Driver	LTC1163CS8#PBF	SMD 127-3509	4.970	2.820	2.230	– –	– –
1166	LT	8	SOIC	Pwr Output Stage AutomAtic Bias Sys	LT1166CS8#PBF	SMD 127-3478	4.400	2.950	2.450	– –	– –
1167	IR	8	SOIC	Secondary Side Driver	IR1167ASPBF	SMD 136-8723	2.050	1.440	1.180	1.070	0.990
1170	LT	5	TO-220	5A, High Efficiency, Switching Regulator optimised for use in Step-Up, "boost" and other configurations (enhanced LT1070CT)	LT1170CT#PBF	956-0157	10.270	5.810	4.350	– –	– –
1170	LT	5	TO-220	High Efficiency Switching Regulators	LT1170HVCT#PBF	956-0165	13.220	7.480	5.660	– –	– –
1171	LT	5	TO-220	2.5A High Efficiency Switching Regulators	LT1171CT	476-7275▲	4.300	3.640	2.980	– –	– –
1171	LT	5	TO-220	2.5A High Efficiency Switching Regulators	LT1171CT#PBF	956-0173	8.380	4.740	3.660	– –	– –
1171	LT	5	D2PAK	100kHz 2.5A High Efficiency Switching Regulator	LT1171IQ#PBF	NEW SMD 166-3388	9.930	7.450	5.960	4.970	4.450
1172	LT	8	DIP	1.25A, High Efficiency, Switching Regulator as LT1170CT (enhanced LT1072CT)	LT1172CN8	525-881▲	3.520	2.970	2.370	– –	– –
1172	LT	8	DIP	1.25A, High Efficiency, Switching Regulator as LT1170CT (enhanced LT1072CT)	LT1172CN8#PBF	956-0181	4.440	2.510	1.890	– –	– –
1172	LT	8	SOIC	1.25A High Efficiency Switching Regulators	LT1172CS8#PBF	SMD 956-0190	5.480	3.100	2.310	– –	– –
1172	LT	5	TO-220	1.25A Pwr Sw Reg 100kHz	LT1172CT#PBF	127-3684	5.550	3.140	2.270	– –	– –
1172	LT	8	SOIC	µP Switching Reg +5V Out	LT1173CS8-5#PBF	SMD 127-3685	3.930	2.310	2.160	– –	– –
1173	LT	8	DIP	MicroPower DC/DC Converter	LT1173CN8	476-7299▲	2.780	2.350	2.030	– –	– –
1173	LT	8	DIP	MicroPower DC/DC Converter	LT1173CN8#PBF	956-0203	4.350	2.460	1.850	– –	– –
1173	LT	8	SOIC	MicroPower DC/DC Converter	LT1173CS8#PBF	SMD 956-0211	5.010	2.830	2.160	– –	– –
1174	LT	8	DIP	High Efficiency, CMOS Step-Down and Inverting Voltage Converter	LTC1174CN8	569-094▲	4.420	3.360	2.600	– –	– –
1174	LT	8	SOIC	High Efficiency Step-Down and Inverting DC/DC Converter	LTC1174HVCS8#PBF	NEW SMD 166-3605	7.590	5.890	4.710	3.930	3.520
1174	LT	8	DIP	High Efficiency, CMOS Step-Down and Inverting Voltage Converter	LTC1174CN8#PBF	956-0904	6.620	3.740	2.770	– –	– –
1174	LT	8	SOIC	Current Mode DC/DC Converter	LTC1174CS8#PBF	SMD 956-0912	6.980	3.950	2.920	– –	– –
1174	LT	8	SOIC	3.3V µP Stepdn DC/DC Converter	LTC1174CS8-3.3#PBF	SMD 127-3846	6.980	3.950	2.920	– –	– –
1174	LT	8	SOIC	5V Current Mode DC/DC Converter	LTC1174CS8-5	SMD 476-7548▲	2.740	2.330	1.900	– –	– –
1174	LT	8	SOIC	5V Current Mode DC/DC Converter	LTC1174CS8-5#PBF	SMD 956-0920	6.980	3.950	2.920	– –	– –
1176	LT	20	SOIC	Adj 1A Stepdn Switching Reg	LT1176CSW#PBF	SMD 127-3686	7.680	4.360	3.350	– –	– –
1182	LT	16	SOIC	CCFL/LCD Contrast Regulator	LT1182CS#PBF	SMD 127-3687	8.860	5.030	4.120	– –	– –
1184	LT	16	SOIC	Grounded Bulb CCFL Regulator	LT1184CS#PBF	SMD 127-3689	4.040	2.370	2.270	– –	– –
1186	LT	16	SOIC	Dig Controlled CCFL Sw Reg	LT1186FCS#PBF	SMD 127-3690	8.820	5.860	4.920	– –	– –
1202	IR	198	BGA	Dual Output Full Function 2 Phase Synchronous Buck Power Block	IP1202PBF	SMD 147-1245	14.900	11.930	9.940	8.520	7.950
1203	IR	24	LGA	Single Output Full Function Sychronous Buck Power Block. Integrated Power Semiconductors PWM Control and Passives Designed for Medium Current applications requiring up to 15A	IP1203PBF	SMD 149-8173	7.700	6.160	5.140	4.400	4.100
1216	ON	7	DIP	Current Mode Controller, Fixed Frequency Operation, 100kHz	NCP1216P100G	146-0669	0.990	0.770	0.690	0.640	0.500
1216	ON	7	DIP	Current Mode Controller, Fixed Frequency Operation, 133kHz	NCP1216P133G	146-0670	0.990	0.770	0.690	0.640	0.500
1235	LT	16	SOIC	µP Reset Circuit & WDT w/RAM protect	LTC1235CSW#PBF	SMD 127-3647	4.570	2.690	2.450	– –	– –
1240	MCHIP	6	SOT-23A	2.5V to 5.5V I/P Double Voltage Converter 20mA O/P	TC1240AECHTR	NEW SMD 160-5579	0.800	0.610	0.480	– –	– –
1241	LT	8	SOIC	Current Mode PWM Controller	LT1241CS8#PBF	SMD 127-3691	3.480	2.340	1.950	– –	– –
1242	LT	8	DIP	Current Mode PWM Controller	LT1242CN8#PBF	127-3692	3.140	2.110	1.770	– –	– –
1242	LT	8	SOIC	Current Mode PWM Controller	LT1242CS8#PBF	SMD 127-3694	2.520	1.480	1.330	– –	– –
1243	LT	8	DIP	Current Mode PWM Controller	LT1243CN8#PBF	127-3695	3.690	2.080	1.620	– –	– –
1243	LT	8	SOIC	Current Mode PWM Controller	LT1243CS8#PBF	SMD 127-3696	4.160	2.350	1.770	– –	– –
1244	LT	8	SOIC	Current Mode PWM Controller	LT1244CS8#PBF	SMD 127-3697	3.660	2.080	1.770	– –	– –
1245	LT	8	SOIC	Current Mode PWM Controller	LT1245CS8#PBF	SMD 127-3698	2.520	1.480	1.330	– –	– –
1246	LT	8	SOIC	1MHz Current Mode PWM Controller	LT1246CS8#PBF	SMD 127-3699	3.950	2.630	2.210	– –	– –
1248	LT	16	SOIC	Pwr Factor Correction Controller	LT1248CS#PBF	SMD 127-3702	6.970	3.960	3.000	– –	– –
1249	LT	8	SOIC	8 Pin Pwr Factor Correction Cont	LT1249CS8#PBF	SMD 127-3703	6.390	3.620	2.730	– –	– –
1252	MCHIP	8	MSOP	Charge Pump, 120mA	MCP1252-33X50I/MS	SMD 133-2064	0.950	0.690	0.540	– –	– –
1252	MCHIP	8	MSOP	Charge Pump, 120mA	MCP1252-ADJI/MS	SMD 133-2066	1.020	0.740	0.580	– –	– –
1253	MCHIP	8	MSOP	Charge Pump, 120mA	MCP1253-33X50I/MS	SMD 133-2067	1.020	0.740	0.580	– –	– –

RL Re-reeling available

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
1253	MCHIP	8	MSOP	Charge Pump, 120mA	MCP1253-ADJI/MS	SMD 133-2068●	0.950	0.690	0.540	– –	– –
1255	LT	8	SOIC	Dual 24V Hi Side Switch Driver	LTC1255CS8#PBF	SMD 127-3511●	5.760	3.260	2.460	– –	– –
1261	LT	8	SOIC	Adj Sw Cap Reg Volt Inverter	LTC1261CS8#PBF	SMD 127-3847●	3.390	2.260	1.880	– –	– –
1262	LT	8	SOIC	12V, 30mA VPP Generator	LTC1262CS8#PBF	SMD 127-3848●	4.370	2.470	1.940	– –	– –
1263	LT	8	SOIC	12V, 60mA VPP Generator	LTC1263CS8#PBF	SMD 127-3849●	6.620	3.740	2.790	– –	– –
1265	FCH	5	TO-220F	12A/650V Quasi-Resonant Converter Power Switch	FSCQ1265RTYDTU	124-1901●	2.130	1.460	1.050	0.980	0.900
1265	LT	14	SOIC	1.2A, High Efficiency, CMOS Step-Down Current Mode Converter	LTC1265CS#PBF	SMD 113-6642●	4.200	2.810	2.740	– –	– –
1265	LT	14	SOIC	Adj Hi Eff 1A Stepdn Converter	LTC1265CS-3.3#PBF	SMD 127-3850●	4.180	2.780	2.340	– –	– –
1265	LT	14	SOIC	Adj Hi Eff 1A Stepdn Converter	LTC1265CS-5#PBF	SMD 127-3852●	6.200	4.130	3.470	– –	– –
1266	LT	16	SOIC	Syn Switching Reg Controller	LTC1266CS#PBF	SMD 127-3853●	4.570	2.520	2.450	– –	– –
1266	LT	16	SOIC	Syn Switching Reg Controller	LTC1266CS-3.3#PBF	127-3854●	1.910	– –	– –	– –	– –
1266	LT	16	SOIC	Syn Switching Reg Controller	LTC1266CS-5#PBF	SMD 127-3855●	6.790	4.520	3.770	– –	– –

See our range of **Modules** on page 506

228502

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
1268	LT	5	TO-220	7.5A 150KHz Switching Reg	LT1268CT#PBF	127-3704●	10.99	6.21	5.00	– –	– –
1269	LT	5	TO-220	4A Power Switching Regulator	LT1269CT#PBF	127-3705●	5.94	3.41	2.90	– –	– –
1270	LT	5	TO-220	10A High Efficiency Switching Regulator	LT1270ACT#PBF	NEW 166-3405●	15.13	11.35	9.08	7.57	6.78
1270	LT	5	TO-220	8A Power Switching Regulator	LT1270CT#PBF	127-3706●	10.27	5.81	4.35	– –	– –
1300	LT	8	DIP	3.3V/5V µP DC/DC Boost Conv	LT1300CN8#PBF	127-3708●	4.73	2.68	2.00	– –	– –
1300	LT	8	SOIC	3.3V/5V µP DC/DC Boost Conv	LT1300CS8#PBF	SMD 127-3709●	4.73	2.68	2.07	– –	– –
1301	LT	8	DIP	5V/12V µP DC/DC Boost Conv	LT1301CN8#PBF	127-3710●	4.28	2.85	2.41	– –	– –
1301	LT	8	SOIC	5V/12V µP DC/DC Boost Conv	LT1301CS8#PBF	SMD 127-3712●	4.50	2.55	1.92	– –	– –
1301	LT	8	SOIC	5V/12V µP DC/DC Boost Conv	LT1301IS8#PBF	SMD 127-3713●	3.87	2.58	2.19	– –	– –
1302	LT	8	DIP	Adj µP Hi Output Curr DC/DC Con	LT1302CN8#PBF	127-3714●	5.53	3.69	3.10	– –	– –
1302	LT	8	DIP	5V µP Hi Output Curr DC/DC Conv	LT1302CN8-5#PBF	127-3715●	5.53	3.69	3.10	– –	– –
1302	LT	8	SOIC	Adj µP Hi Output Curr DC/DC Con	LT1302CS8#PBF	SMD 127-3716●	6.02	3.42	2.69	– –	– –
1302	LT	8	SOIC	5V µP Hi Output Curr DC/DC Conv	LT1302CS8-5#PBF	SMD 127-3717●	6.02	3.42	2.69	– –	– –
1303	MCHIP				TC1303BDM-DDBK1	NEW 167-3293●	19.61	16.67	15.38	– –	– –
1303	LT	8	DIP	MicroPower, Step-up Voltage Converter With Low Battery Detector, adjustable output	LT1303CN8#PBF	956-0378●	4.50	2.54	1.99	– –	– –
1303	LT	8	DIP	5V MicroPower DC/DC Converter	LT1303CN8-5	476-7366▲	0.92	– –	– –	– –	– –
1303	LT	8	DIP	5V MicroPower DC/DC Converter	LT1303CN8-5#PBF	956-0386●	4.50	2.54	1.92	– –	– –
1303	LT	8	SOIC	Adj µP DC/DC Boost Conv w/LBD	LT1303CS8#PBF	SMD 127-3718●	4.50	2.54	1.92	– –	– –
1303	LT	8	SOIC	5V µP DC/DC Boost Conv w/LBD	LT1303CS8-5#PBF	SMD 127-3719●	3.87	2.26	1.81	– –	– –
1304	LT	8	SOIC	Adj µP DC to DC Converter	LT1304CS8#PBF	SMD 127-3720●	2.33	1.95	1.90	– –	– –
1304	LT	8	SOIC	3.3V µP DC/DC Converter	LT1304CS8-3.3#PBF	SMD 127-3721●	4.28	2.85	2.41	– –	– –
1304	LT	8	SOIC	5V µP DC/DC Converter	LT1304CS8-5#PBF	SMD 127-3722●	3.87	2.26	1.81	– –	– –
1305	LT	8	SOIC	µP Hi Output Current DC/DC Conv	LT1305CS8#PBF	SMD 127-3724●	6.02	3.42	2.81	– –	– –
1307	LT	8	SOIC	Single Cell Step-Up Conv,No Burst Mode	LT1307BCS8#PBF	SMD 127-3725●	3.90	2.21	1.69	– –	– –
1307	LT	8	DIP	600kHz, PWM DC-DC Converter	LT1307CN8	796-311▲	3.35	2.41	1.69	– –	– –
1307	LT	8	DIP	600kHz, PWM DC-DC Converter	LT1307CN8#PBF	956-0394●	5.94	4.27	3.00	– –	– –
1307	LT	8	SOIC	Single Cell MicroPower PWM DC/DC	LT1307CS8	SMD 476-7378▲	2.06	1.74	1.43	– –	– –
1307	LT	8	SOIC	Single Cell MicroPower PWM DC/DC	LT1307CS8#PBF	SMD 956-0408●	3.90	2.21	1.69	– –	– –
1308	LT	8	SOIC	Single Cell High Current Micropower 600kHz Boost DC/DC Converter	LT1308ACS8#PBF	NEW SMD 166-3406●	6.15	4.61	3.69	3.08	2.76
1308	LT	8	SOIC	Single Cell High Current Micropower 600kHz Boost DC/DC Converter	LT1308BCS8#PBF	NEW SMD 166-3407●	6.15	4.61	3.69	3.08	2.76
1308	LT	8	SOIC	Single Cell Hi Cur Boost Conv	LT1308CS8#PBF	SMD 127-3726●	6.49	3.67	2.81	– –	– –
1310	LT	10	MSOP	1.5A Boost DC/DC w/ Phase-Locked Loop	LT1310EMSE#PBF	SMD 127-3727●	5.39	3.05	2.24	– –	– –
1316	LT	8	SOIC	µP DC/DC Converter	LT1316CS8#PBF	SMD 127-3728●	4.50	2.54	1.92	– –	– –
1317	LT	8	SOIC	µP 600kHz PWM DC/DC Conv	LT1317BCS8#PBF	SMD 127-3729●	4.13	2.34	1.77	– –	– –
1317	LT	8	SOIC	µP 600kHz PWM DC/DC Conv	LT1317CS8#PBF	SMD 127-3730●	4.13	2.34	1.83	– –	– –
1325	LT	18	SOIC	µP Controlled Bat mAnagement I.C.	LTC1325CSW#PBF	SMD 127-3512●	8.17	4.94	4.50	– –	– –
1326	LT	8	MSOP	Micropower Precision Triple Supply Monitor	LTC1326CMS8-2.5#PBF	NEW SMD 166-3609●	4.23	3.28	2.62	2.18	1.95
1326	LT	8	SOIC	µP Prec Triple Supply Monitor	LTC1326CS8#PBF	SMD 127-3648●	4.13	2.34	1.81	– –	– –
1326	LT	8	SOIC	µP Prec Triple Supply Monitor	LTC1326CS8-2.5#PBF	SMD 127-3649●	4.13	2.34	1.81	– –	– –
1336	LT	16	SOIC	Halfbridge Dx w/Internal Boost Reg	LT1336CS#PBF	SMD 127-3480●	5.67	3.22	2.62	– –	– –
1337	ON	8	PDIL	PWM Current-Mode Controller	NCP1337PG	136-9730●	1.32	1.01	0.86	0.77	0.73
1339	LT	20	SOIC	High Pwr Synch DC/DC Controller	LT1339CSW#PBF	SMD 127-3731●	8.86	5.03	4.12	– –	– –
1370	LT	7	D2PAK	500kHz High Efficiency 6A Switching Regulator	LT1370CR#PBF	NEW SMD 166-3416●	11.46	8.60	6.88	5.73	5.13
1370	LT	7	TO-220	500kHz 6A Hi Eff Sw Reg	LT1370CT7#PBF	127-3732●	11.22	6.34	4.81	– –	– –
1371	LT	20	SOIC	500kHz 3A Step-Up Sw Reg	LT1371CSW#PBF	SMD 127-3733●	9.58	6.39	5.36	– –	– –
1371	LT	7	TO-220	500kHz 3A Step-Up Sw Reg	LT1371CT7#PBF	127-3734●	6.24	4.15	3.83	– –	– –
1372	LT	8	DIP	500kHz High Efficiency 1.5A Switching Regulator	LT1372CN8#PBF	113-6619●	6.62	3.74	2.85	– –	– –
1372	LT	8	SOIC	500kHz 1.5A Step-up Sw Reg	LT1372CS8#PBF	SMD 127-3736●	6.90	3.90	2.96	– –	– –
1372	LT	8	SOIC	Hi Sw Volt 500kHz,1.5A,Step-Up Sw Reg	LT1372HVCS8#PBF	SMD 127-3737●	7.45	4.22	3.23	– –	– –
1373	LT	8	DIP	250kHz Switching Regulator	LT1373CN8#PBF	127-3738●	6.62	3.74	2.85	– –	– –
1373	LT	8	SOIC	250kHz Switching Regulator	LT1373CS8#PBF	SMD 127-3739●	6.90	3.90	2.96	– –	– –
1373	LT	8	SOIC	Hi Sw Volt 250kHz Step-Up Sw Reg	LT1373HVCS8#PBF	SMD 127-3740●	7.45	4.22	3.23	– –	– –
1373	LT	8	SOIC	250kHz Current High Efficiency 1.5A Switching Regulator	LT1373IS8#PBF	NEW SMD 166-3417●	8.23	6.17	4.94	4.11	3.69
1374	LT	8	SOIC	4.5A, 500kHz Step-Down Switching Regulator	LT1374HVCS8#PBF	NEW SMD 166-3418●	9.82	7.37	5.89	4.90	4.39
1374	LT	7	D2PAK	4.5A, 500kHz Step-Down Switching Regulator	LT1374IR-5#PBF	NEW SMD 166-3419●	11.12	8.34	6.67	5.56	4.98
1374	LT	8	SOIC	4.5A 500kHz Stepdown Sw Reg	LT1374CS8#PBF	SMD 127-3741●	8.86	4.87	3.93	– –	– –
1374	LT	8	SOIC	5V 500kHz Stepdown Sw Reg	LT1374CS8-5#PBF	SMD 127-3742●	7.05	4.25	3.62	– –	– –
1375	LT	8	DIP	Step-down, Adj. Switching Regulator, 1.5A, 500kHz	LT1375CN8	386-2239▲	4.03	3.26	3.18	– –	– –
1375	LT	8	DIP	Step-down, Adj. Switching Regulator, 1.5A, 500kHz	LT1375CN8#PBF	956-0491●	5.86	4.61	3.79	– –	– –
1375	LT	8	DIP	Step-down, 5.0V, Switching Regulator, 1.5A, 500kHz	LT1375CN8-5#PBF	113-6620●	6.91	4.61	3.79	– –	– –
1375	LT	8	SOIC	500kHz 1.5A S/D Sw Reg w/sync	LT1375CS8#PBF	SMD 127-3743●	6.14	3.47	2.62	– –	– –
1375	LT	8	SOIC	5V 500kHz 1.5A S/D Sw Reg w/sync	LT1375CS8-5#PBF	SMD 127-3744●	5.43	3.20	2.96	– –	– –
1375	LT	8	SOIC	500kHz 1.5A S/D Sw Reg w/sync	LT1375HVCS8#PBF	SMD 127-3745●	6.42	4.29	3.59	– –	– –
1376	LT	8	DIP	Step-down Adj. Switching Regulator 1.5A, 500kHz	LT1376CN8#PBF	113-6621●	4.11	2.67	2.60	– –	– –
1376	LT	8	DIP	Step-down 5.0V Switching Regulator 1.5A, 500kHz	LT1376CN8-5#PBF	956-0505●	6.14	3.50	2.85	– –	– –
1376	LT	8	SOIC	500kHz 1.5A S/D Sw Reg	LT1376CS8#PBF	SMD 127-3746●	6.14	3.47	2.72	– –	– –
1376	LT	8	SOIC	5V 500kHz 1.5A S/D Sw Reg	LT1376CS8-5#PBF	SMD 127-3748●	6.39	3.61	2.96	– –	– –
1376	LT	16	SOIC	500kHz 1.5A S/D Sw Reg	LT1376HVCS#PBF	SMD 127-3749●	7.33	4.89	4.09	– –	– –
1376	LT	8	DIP	Step-down Adj. Switching Regulator 1.5A, 500kHz (IND TEMP)	LT1376IN8	386-2290▲	1.31	– –	– –	– –	– –
1376	LT	8	DIP	Step-down Adj. Switching Regulator 1.5A, 500kHz (IND TEMP)	LT1376IN8#PBF	956-0513●	4.79	3.12	2.73	– –	– –
1377	LT	8	SOIC	1MHz Hi Eff Switch. Regulator	LT1377CS8#PBF	SMD 127-3750●	7.44	4.22	3.46	– –	– –
1421	LT	24	SSOP	Hot Swap Controller	LTC1421CG#PBF	SMD 127-3856●	8.91	6.23	5.23	– –	– –
1422	LT	8	DIP	Hot Swap Controller	LTC1422CN8#PBF	113-6629●	2.96	2.03	1.73	– –	– –
1422	LT	8	SOIC	8-Pin Hot Swap Controller	LTC1422CS8#PBF	SMD 127-3858●	4.97	2.82	2.27	– –	– –
1424	LT	8	SOIC	Isolated Flyback Sw Reg w/5V Output	LT1424CS8-5#PBF	SMD 127-3751●	5.54	3.69	3.10	– –	– –
1424	LT	8	SOIC	Isolated Flyback Sw Reg w/9V Output	LT1424CS8-9#PBF	SMD 127-3752●	5.54	3.69	3.10	– –	– –
1425	LT	16	SOIC	Isolated Flyback Switching Regulator	LT1425IS#PBF	NEW SMD 166-3421●	6.98	5.23	4.19	3.50	3.12
1425	LT	16	SOIC	Isolated Flyback DC/DC Converter	LT1425CS#PBF	SMD 127-3753●	5.55	3.14	2.39	– –	– –
1430	LT	16	SOIC	Hi Pwr Stepdn Sw Reg Controller	LTC1430CS#PBF	SMD 127-3645●	4.44	2.89	2.42	– –	– –

RL Re-reeling available

Power Supply ICs - continued

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
1430	LT	8	SOIC	Hi Pwr Stepdn Sw Reg Controller	LTC1430CS8#PBF	SMD 127-3646	4.15	3.31	2.76	– –	– –
1433	LT	16	SSOP	450mA,L/N Cur Mode S/D DC/DC Conv	LTC1433CGN#PBF	127-3859	5.15	4.68	3.92	– –	– –
1434	LT	20	SSOP	450mA,L/N Cur Mode S/D DC/DC Conv	LTC1434CGN#PBF	127-3860	5.49	5.00	4.19	– –	– –
1435	LT	16	SOIC	See 'A' Version for new design	LTC1435CS#PBF	SMD 127-3861	7.54	5.03	4.22	– –	– –
1436	LT	24	SSOP	Hi Eff L/N Syn Stepdn Sw Reg	LTC1436ACGN#PBF	SMD 127-3862	8.99	6.02	5.05	– –	– –
1437	LT	28	SSOP	Hi Eff L/N Syn Stepdn Sw Reg	LTC1437ACG#PBF	127-3864	7.33	6.67	5.58	– –	– –
1438	LT	28	SSOP	Dual Const Freq Syn Sw Reg Cntrl	LTC1438CG#PBF	SMD 127-3865	10.37	7.12	6.41	– –	– –
1451	TI	16	SOIC	Dual PWM Power control circuit	TL1451ACD	SMD 110-3110	1.07	0.76	0.58	– –	– –
1451	TI	16	TSSOP	Dual Channel Controller With Wide Input Voltage Range	TL1451ACPWG4	SMD 128-7651	1.17	0.95	0.75	0.63	0.61
1451	TI	16	TSSOP	Automotive CataLog Dual Pulse-Width-Modulation Control Circuits	TL1451AQPWRQ1	SMD 123-6514	1.34	1.00	0.76	0.71	0.69
1454	TI	16	SOIC	Dual-Channel Pulse-Width-Modulation (PWM) Control Circuit	TL1454ACD	SMD 147-1219	1.69	1.35	1.04	0.99	0.91
1470	LT	8	SOIC	Single PCMCIA Protected Vcc Sw	LTC1470CS8#PBF	SMD 127-3513	4.63	2.62	2.00	– –	– –
1472	LT	16	SOIC	Single PCMCIA Protected Vpp/Vcc Switch	LTC1472CS#PBF	SMD 127-3515	4.06	2.38	2.11	– –	– –
1473	LT	16	SSOP	Dual Power Path Switch Driver	LTC1473CGN#PBF	SMD 127-3517	5.37	3.23	2.92	– –	– –
1474	LT	8	SOIC	Low IQ Stepdn DC/DC Converter	LTC1474CS8#PBF	SMD 127-3867	6.49	3.67	2.81	– –	– –
1474	LT	8	SOIC	3.3V,Low IQ Stepdn DC/DC Conv	LTC1474CS8-3.3#PBF	SMD 127-3868	6.49	3.67	2.81	– –	– –
1474	LT	8	SOIC	5V,Low IQ Stepdn DC/DC Converter	LTC1474CS8-5#PBF	SMD 127-3869	6.49	3.67	2.81	– –	– –
1475	LT	8	SOIC	Low IQ Push-Button Stepdn DC/DC Conv	LTC1475CS8#PBF	SMD 127-3870	4.35	2.89	2.42	– –	– –
1475	LT	8	SOIC	Low IQ Push-Button Stepdn DC/DC Conv	LTC1475CS8-3.3#PBF	SMD 127-3871	4.35	2.89	2.42	– –	– –
1475	LT	8	SOIC	Low IQ Push-Button Stepdn DC/DC Conv	LTC1475CS8-5#PBF	SMD 127-3873	6.74	3.81	2.92	– –	– –
1478	LT	16	SOIC	Dual Protected High-Side Switch	LTC1478CS#PBF	SMD 127-3518	9.45	5.35	4.27	– –	– –
1479	LT	36	SSOP	Dual Battery Pwr Path Controller	LTC1479CG#PBF	SMD 127-3519	11.90	5.74	5.43	– –	– –
1502	LT	8	SOIC	Single Cell to 3.3V Regulated Charge Pump DC/DC Converter	LTC1502CS8-3.3#PBF	NEW SMD 166-3640	3.44	2.67	2.13	1.78	1.59
1503	LT	8	MSOP	1.8V High Efficiency Inductorless Step-Down DC/DC Converter	LTC1503CMS8-1.8#PBF	NEW SMD 166-3642	3.67	2.84	2.27	1.90	1.69
1504	LT	8	SOIC	Low Volt Stepdn Syn Switcher	LTC1504CS8#PBF	SMD 127-3874	4.85	2.74	1.97	– –	– –
1505	LTC	28	SSOP	Constant Current/Voltage Battery Charger	LT1505CG#PBF	NEW SMD 164-8005	7.25	5.71	4.70	4.32	3.84
1506	LT	8	SOIC	4.5A, 500kHz Step-Down Switching Regulator	LT1506IS8#PBF	NEW SMD 166-3442	10.18	7.63	6.11	5.09	4.55
1506	LT	7	TO-263 (D2-Pak)	4.5A 500kHz Stepdown Sw Reg	LT1506CR#PBF	SMD 127-3754	9.01	6.02	5.05	– –	– –
1506	LT	8	SOIC	4.5A 500kHz Stepdown Sw Reg	LT1506CS8#PBF	SMD 127-3755	8.86	4.87	3.62	– –	– –
1506	LT	8	SOIC	4.5A 500kHz Stepdown Sw Reg	LT1506CS8-3.3#PBF	SMD 127-3756	8.86	4.87	3.62	– –	– –
1507	LT	8	SOIC	Monolithic Buck Switching Regulator	LT1507CS8	SMD 476-7380 ▲	1.16	– –	– –	– –	– –
1507	LT	8	SOIC	Monolithic Buck Switching Regulator	LT1507CS8#PBF	SMD 956-0564	6.90	3.90	2.96	– –	– –
1507	LT	SOIC	SOIC	500kHz Step-Down Sw Reg	LT1507CS8-3.3#PBF	SMD 127-3757	6.98	3.95	2.96	– –	– –
1509	LT	SOIC	SOIC	PWM/PFC/Cur Mode combine Cntrl	LT1509CSW#PBF	SMD 127-3758	7.08	4.74	3.97	– –	– –
1510	LT	16	SOIC	Constant-Voltage/Constant-Current Battery Charger	LT1510CS#PBF	NEW SMD 166-3443	7.46	5.58	4.47	3.72	3.34
1510	LT	16	SOIC	Constant-Voltage/Constant-Current Battery Charger	LT1510IS#PBF	NEW SMD 166-3444	8.51	6.38	5.11	4.26	3.81
1510	LT	8	SOIC	200kHz 1.2A Stepdn Bat Charger	LT1510CS8#PBF	SMD 127-3761	5.67	3.21	2.46	– –	– –
1511	LT	24	SOIC	3A Step-Down Battery Charger	LT1511CSW#PBF	SMD 127-3762	12.27	6.95	5.35	– –	– –
1512	LT	8	SOIC	SEPIC Battery Charger	LT1512CS8	SMD 476-7391 ▲	2.79	2.36	1.94	– –	– –
1512	LT	8	SOIC	SEPIC Constant Current/Voltage Battaery Charger	LT1512CS8#PBF	SMD 956-0572	6.62	3.74	3.08	– –	– –
1513	LT	7	TO-263	SEPIC Battery Charger	LT1513CR	SMD 476-7408 ▲	3.63	3.09	2.52	– –	– –
1513	LT	7	TO-263 (D2-Pak)	SEPIC Constant/Programmable Current Battery Charger	LT1513CR#PBF	SMD 956-0580	8.86	5.01	3.62	– –	– –
1514	LT	8	SOIC	Step-up/Stepdn Sw Cap DC/DC	LTC1514CS8-5#PBF	SMD 127-3876	6.14	3.50	2.85	– –	– –
1515	LT	8	SOIC	Step-up/Stepdn Sw Cap DC/DC w/POR	LTC1515CS8#PBF	SMD 127-3877	5.88	3.92	3.29	– –	– –
1516	LT	8	SOIC	2V to 5V/50mA Inductorless Conv	LTC1516CS8#PBF	SMD 127-3878	5.91	3.34	2.73	– –	– –
1517	LT	5	SOT-23	Micropower, Regulated 5V Charge Pump	LTC1517CS5-5#TRMPBF	NEW SMD 166-3853	3.62	2.82	2.25	1.87	1.68
1521	NXP	8	DIP	Switched Mode Power Supply (SMPS) Converter	TEA1521P/N2.112	880-0499	0.96	0.71	0.55	– –	– –
1522	LT	8	SOIC	µP Reg 5V Charge Pump DC/DC Converter	LTC1522CS8#PBF	SMD 127-3879	2.95	1.95	1.63	– –	– –
1522	NXP	8	DIP-8	SMPS Converter	TEA1522P/N2.112	880-0502	0.97	0.69	0.52	– –	– –
1523	ON	8	FLIP CHIP CSP	DC/DC Converter, Buck,0.6A Adj O/P	NCP1523FCT2G	SMD 136-9731	0.98	0.74	0.63	0.56	0.54
1523	NXP	8	DIP	SMPS Converter	TEA1523P/N2.112	880-0510	0.97	0.75	0.59	– –	– –
1526	ON	8	UDFN	DC/DC Converter, Buck, 0.4A	NCP1526MUTXG	SMD 136-9732	1.44	1.07	0.93	0.82	0.79
1530	LT	8	SOIC	Syn Cntrler w/Current Limit	LTC1530CS8#PBF	SMD 127-3880	5.07	2.41	2.17	– –	– –
1533	LT	16	SOIC	Ultra Low Noise 1A Sw Reg	LTC1533CS#PBF	SMD 127-3763	8.73	4.94	3.73	– –	– –
1534	LT	16	SOIC	Ultra Low Noise 2A Sw Reg	LTC1534CS#PBF	SMD 127-3764	5.02	3.35	2.80	– –	– –
1534	LT	16	SOIC	Ultra Low Noise 2A Sw Reg	LT1534CS-1#PBF	SMD 127-3482	7.45	4.96	4.17	– –	– –
1538	MAX	28	TQFN	Power Source Selector for Dual Battery Systems	MAX1538ETI+	SMD 145-5603	5.24	3.56	2.87	– –	– –
1550	LT	16	SSOP	Low Noise Sw Cap Volt Invert	LTC1550LCGN#PBF	SMD 127-3882	3.27	2.17	1.82	– –	– –
1553	LT	20	SOIC	5-Bit DAC prog Syn DC/DC Controller	LTC1553CSW#PBF	127-3884	5.49	5.00	4.19	– –	– –
1565	FCH	5	TO-220F	12A/650V Quasi-Resonant Converter Power Switch	FSCQ1565RTYDTU	124-1902	1.46	1.16	0.86	0.79	0.77
1571	LT	28	SSOP	Adj Output CC/CV Batt Charger	LT1571EGN-1#PBF	SMD 127-3483	5.33	3.55	2.97	– –	– –
1571	LT	28	SSOP	2-Cell CC/CV Batt Charger	LT1571EGN-2#PBF	SMD 127-3484	7.91	5.27	4.40	– –	– –
1571	LT	16	SSOP	500kHz CC/CV Batt Charger	LT1571EGN-5#PBF	SMD 127-3485	7.56	4.27	3.23	– –	– –
1572	NSC	8	TSSOP	1.5A, 500kHz Step-down Voltage Regulator	LM1572MTC-ADJ	SMD 128-6836	3.10	2.39	1.96	1.51	1.41
1572	LT	16	SOIC	100kHz 1.25A Switching	LT1572CS#PBF	SMD 127-3765	4.56	3.04	2.54	– –	– –
1574	LT	16	SOIC	High Efficiency, CMOS Step-Down Current Mode Converter	LTC1574CS#PBF	SMD 956-1285	8.03	4.55	3.73	– –	– –
1574	LT	16	SOIC	3.3V CMOS Stepdn 425mA,DC/DC Converter	LTC1574CS-3.3#PBF	SMD 127-3885	5.52	3.68	3.08	– –	– –
1576	LT	8	SOIC	1.5A, 200KHz Stepdn Sw Reg	LT1576CS8#PBF	SMD 127-3766	5.44	3.07	2.41	– –	– –
1576	LT	8	SOIC	1.5A, 200KHz Stepdn Reg,5V Out	LT1576CS8-5#PBF	SMD 127-3767	4.68	3.11	2.62	– –	– –
1578	LT	8	SOIC	1.5A 200kHz Step-dn Sw Reg	LT1578CS8#PBF	SMD 127-3768	5.19	3.45	2.92	– –	– –
1585	LT	3	TO-263 (D2-Pak)	LDO Positive Regulator	LT1585CM#PBF	SMD 956-0637	7.56	4.27	3.31	– –	– –
1586	MAX	48	TQFN	Power Management IC with 7 O/P PSU	MAX1586CETM+	NEW SMD 159-3314	9.22	7.17	6.46	5.38	4.62
1587	LT	3	TO-220	LDO Positive Regulator	LT1587CT#PBF	956-0645	5.79	3.27	2.58	– –	– –
1587	LT	3	TO-220	3.3V LDO +ve Regulator	LT1587CT-3.3	476-7457 ▲	2.92	2.48	2.03	– –	– –
1587	LT	3	TO-220	3.3V LDO Positive Regulator	LT1587CT-3.3#PBF	956-0653	5.79	3.27	2.58	– –	– –
1601	MCHIP	8	MSOP	500 mA Synchronous Buck Regulator	MCP1601-I/MS	SMD 143-9370	0.91	0.65	0.52	– –	– –
1601	ZET	6	SC-70	Adjustable DC-DC boost converter With internal switch	ZXLD1601H6	SMD 122-6471	1.39	1.06	0.83	0.76	0.70
1603	MCHIP				MCP1603EV	NEW 167-3295	19.61	16.67	15.38	– –	– –
1610	LT	8	SOIC	1.7MHz 1-Cell µP Boost Converter	LT1610CS8#PBF	SMD 127-3769	3.31	1.87	1.35	– –	– –
1611	ADI	8	MSOP	20 V,1.2 MHz Step-Up DC-to-DC Switching Converter	ADP1611ARMZ-R7	NEW SMD 165-1326	2.00	1.56	1.27	1.17	1.13
1611	LT	5	SOT-23	Inverting 1.4MHz Switching Regulator	LT1611CS5#TRMPBF	NEW SMD 166-3760	3.85	2.97	2.38	1.99	1.78
1612	LT	8	SOIC	800kHz Syn, Step-dn PWM DC/DC con	LT1612ES8#PBF	SMD 127-3488	2.51	1.68	1.41	– –	– –
1612	MCHIP	8	MSOP	Single 1A 1.4 MHz Synchronous Buck Regulator	MCP1612-ADJI/MS	SMD 875-2915	1.19	0.95	0.79	– –	– –
1613	LT	5	SOT-23	1.4MHz, Single Cell DC/DC Converter	LT1613CS5#TRMPBF	NEW SMD 166-3761	3.38	2.62	2.10	1.75	1.57
1614	LT	8	SOIC	600kHz Inverting Sw Reg	LT1614CS8#PBF	SMD 127-3770	4.73	2.67	1.96	– –	– –
1615	LT	5	SOT-23	Micropower Step-Up DC/DC Converter	LT1615ES5#TRMPBF	NEW SMD 166-3762	3.38	2.62	2.10	1.75	1.57
1615	LT	5	SOT-23	Micropower Step-Up DC/DC Converter	LT1615ES5-1#TRMPBF	NEW SMD 166-3763	3.38	2.62	2.10	1.75	1.57
1615	LT	5	SOT-23	Micropower Step-Up DC/DC Converter	LT1615IS5#TRMPBF	NEW SMD 166-3764	3.85	2.97	2.38	1.99	1.78
1615	MAX	5	SOT-23	High-Voltage, Low-Power, Linear Regulator for RAM and Microcontroller Power (IND TEMP)	MAX1615EUK+	SMD 972-4060	1.25	0.90	0.74	– –	– –
1615	ZET	5	TSOT-23	Adjustable DC-DC boost converter With internal switch	ZXLD1615ET5	SMD 122-6473	0.90	0.67	0.55	0.50	0.45
1616	LT	6	SOT-23	600mA, 1.4MHz Step-Down Switching Regulator	LT1616ES6#TRMPBF	NEW SMD 166-3765	3.85	2.97	2.38	1.99	1.78
1617	LT	5	SOT-23	Micropower Inverting DC/DC Converter	LT1617ES5#TRMPBF	NEW SMD 166-3766	3.38	2.62	2.10	1.75	1.57
1618	LT	10	MSOP	1.4MHz Step-Up DC/DC Converter	LT1618EMS#PBF	SMD 127-3771	3.31	1.87	1.43	– –	– –
1621	ADI	10	MSOP	Constant-Frequency, Current-Mode Step-Up DC/DC Controller	ADP1621ARMZ	SMD 146-1500	2.19	1.83	1.51	1.47	1.37
1622	LT	8	SOIC	Low Volt Stepdn 3A Controller	LTC1622CS8#PBF	SMD 127-3888	3.66	2.05	1.49	– –	– –
1624	LT	8	SOIC	High Efficiency N-Channel Switching Regulator Controller	LTC1624IS8#PBF	NEW SMD 166-3651	8.13	6.30	5.04	4.20	3.76
1624	LT	8	SOIC	Hi Eff SO-8, N-Channel Reg	LTC1624CS8#PBF	SMD 127-3889	6.74	3.81	2.89	– –	– –
1625	LT	16	SOIC	NoRsense Current Mode DC/DC	LTC1625CS#PBF	SMD 127-3890	8.63	4.88	3.73	– –	– –
1626	MAX	8	SOIC	3.3V/5V output step-down DC/DC controller With 100% duty cycle. (IND TEMP)	MAX1626ESA+	SMD 972-5342	4.10	2.64	1.79	– –	– –

RL Re-reeling available

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
1627	LT	8	SOIC	Low Volt Stepdn Syn Switcher	LTC1627CS8#PBF	SMD 127-3891●	4.13	2.28	1.69	– –	– –
1628	LT	28	SSOP	Hi Eff Two-Phase Dual Synch Sw Reg	LTC1628CG#PBF	SMD 127-3892●	8.63	4.88	3.82	– –	– –
1629	LT	28	SSOP	Hi Pwr PolyPhase DC/DC Controllers	LTC1629CG#PBF	SMD 127-3893●	10.92	7.30	6.12	– –	– –
1630	MCHIP				MCP1630RD-NMC1	NEW 167-3296●	27.45	23.33	21.54	– –	– –
1630	MCHIP	8	MSOP	High-Speed, Microcontroller-Adaptable, Pulse Width Modulator	MCP1630-E/MS	SMD 921-8432●	0.67	0.49	0.44	– –	– –
1640	LT	8	SOIC	Hot Swap Controller for -48V	LT1640ALCS8#PBF	SMD 127-3774●	2.44	1.41	1.37	– –	– –
1640	LT	8	SOIC	Hot Swap Controller for -48V apps	LT1640LCS8#PBF	SMD 127-3775●	3.78	2.14	1.62	– –	– –
1640	MAX	16	QSOP	Adjustable output, switch-mode Current sources With synchronous rectifier (QSOP)	MAX1640EEE+	SMD 972-5822●	4.68	3.41	2.64	– –	– –
1641	LT	8	SOIC	Hot Swap Contr. +48V Latch-Off Mode	LT1641-1CS8#PBF	SMD 127-3776●	4.73	2.67	1.92	– –	– –
1643	LT	16	SSOP	PCI Hot Swap Controller	LTC1643AHCGN#PBF	SMD 127-3895●	5.39	4.37	3.68	– –	– –
1644	LT	20	SSOP	CompactPCI Hot Swap Controller	LTC1644CGN#PBF	SMD 127-3896●	6.97	3.94	3.04	– –	– –
1644	MAX	16	SSOP	2A Low Voltage step-down Regulator With synchronoue rectification and internal switches	MAX1644EAE+	SMD 972-5350●	7.52	5.61	4.49	– –	– –
1645	LT	8	SOIC	Dual Hot Swap Controller	LTC1645CS8#PBF	SMD 127-3897●	5.26	3.69	3.10	– –	– –
1646	LT	16	SSOP	Dual CompactPCI Hot Swap Controller	LTC1646CGN#PBF	SMD 127-3898●	6.62	3.74	2.89	– –	– –
1647	LT	8	SOIC	Dual Hot Swap Controller	LTC1647-1CS8#PBF	SMD 127-3900●	5.26	3.69	3.10	– –	– –
1649	LT	16	SOIC	3.3V Input Hi Pwr Stepdn Reg Cont	LTC1649CS#PBF	SMD 127-3901●	5.10	2.81	2.74	– –	– –
1650	MCHIP	8	MSOP	750 kHz gated oscillator boost controller	MCP1650R-E/MS	SMD 143-9375●	0.93	0.68	0.54	– –	– –
1651	MCHIP	8	MSOP	750 kHz gated oscillator boost controller	MCP1651R-E/MS	SMD 143-9377●	0.98	0.73	0.57	– –	– –
1652	MCHIP	8	MSOP	750 kHz gated oscillator boost controller	MCP1652R-E/MS	SMD 143-9378●	0.98	0.73	0.57	– –	– –
1653	MCHIP	10	MSOP	750 kHz gated oscillator boost controller	MCP1653R-E/UN	SMD 143-9379●	1.03	0.79	0.62	– –	– –
1673	MAX	8	SO	Charge-Pump DC-DC Inverter 125mA O/P	MAX1673ESA+	SMD 142-2290●	3.46	2.80	2.38	2.05	1.85
1676	LT	8	DIP	Wide Input Range, High Efficiency stepdown Switching Regulator	LT1676CN8#PBF	956-0661●	4.76	3.10	2.36	– –	– –
1676	LT	8	SOIC	Wide Input Range Hi Eff Sw Reg	LT1676CS8#PBF	SMD 127-3777●	5.08	2.87	2.19	– –	– –
1676	LT	8	DIP	Wide Input Range, High Efficiency stepdown Switching Regulator (IND TEMP)	LT1676IN8#PBF	113-6624●	5.81	3.53	2.83	– –	– –
1676	MAX	10	SOIC	High Efficiency, Low-Supply Current, step-up DC/DC converter	MAX1676EUB+	SMD 972-4079●	4.83	3.11	2.10	– –	– –
1680	LT	16	SOIC	High Pwr Step-up DC/DC Controller	LT1680CSW#PBF	SMD 127-3778●	7.91	4.47	3.43	– –	– –
1680	MAX	8	SOIC	125mA frequency-selectable switched capacitor Voltage converter	MAX1680ESA+	SMD 972-5369●	4.83	3.55	2.57	– –	– –
1682	LT	8	SOIC	Doubler Charge Pump w/Low Noise	LTC1682CS8#PBF	SMD 127-3902●	3.17	2.11	1.77	– –	– –
1682	LT	8	SOIC	Doubler Charge Pump w/Low Noise	LTC1682CS8-5#PBF	SMD 127-3903●	3.31	1.87	1.39	– –	– –
1683	LT	20	SSOP	Ultra-Low Noise DC/DC Controller	LT1683EG#PBF	SMD 127-3779●	9.10	5.14	4.03	– –	– –
1692	MAX	10	SOIC	5.5V Input, PWM, DC/DC step-down Regulator	MAX1692EUB+	SMD 972-4087●	5.62	3.61	2.44	– –	– –
1693	MAX	10	microMax	1A Current-Limited Switche for USB Applications	MAX1693EUB+	NEW SMD 159-3323●	1.46	1.12	1.00	0.84	0.72
1696	LT	6	SOT-23	Overvoltage Protection Controller	LTC1696ES6#TRMPBF	NEW SMD 166-3855●	3.28	2.54	2.03	1.69	1.52
1697	LT	10	MSOP	Low Power CCFL Controller	LTC1697EMS#PBF	SMD 127-3527●	3.53	2.35	1.95	– –	– –
1698	LT	16	SOIC	Isolated Secondary Synchronous Rectifier Controller	LTC1698IS#PBF	NEW SMD 166-3668●	11.44	8.86	7.09	5.91	5.29
1700	LT	10	MSOP	No RSENSE Synchronous Step-Up DC/DC Controller	LTC1700EMS#PBF	NEW SMD 166-3669●	5.04	3.90	3.12	2.60	2.33
1702	LT	24	SSOP	Dual, 550kHz Synchronous 2-Phase Switching Regulator Controller	LTC1702CGN	SMD 386-2598▲	4.76	4.02	3.58	– –	– –
1702	LT	24	SSOP	Dual, 550kHz Synchronous 2-Phase Switching Regulator Controller	LTC1702CGN#PBF	SMD 113-6632●	9.33	5.28	3.81	– –	– –
1703	MAX	16	SOIC	5V/adjustable, High efficiency, Low Noise Step-up DC-DC convertor	MAX1703ESE+	SMD 972-5075●	8.95	6.28	4.47	– –	– –
1705	MAX	16	QSOP	High Efficiency, High-Current, step-up DC/DC converter With Linear Regulator output. (QSOP, IND TEMP)	MAX1705EEE+	SMD 972-4095●	5.70	4.04	3.01	– –	– –
1706	MAX	16	QSOP	High efficiency, High Current, step up DC/DC converter With linear Regulator output and internal 0.5A N-channel MOSFET switch	MAX1706EEE+	SMD 118-7951●	5.70	4.68	3.36	– –	– –
1707	ST	8	SOIC	Intelligent Power Switch, 0.5Amp, 6 to 48V, High or Low side configuration	E-TDE1707BFP	SMD 113-1993●	3.96	3.09	2.47	– –	– –
1707	LT	8	SOIC	Mono Synch Step-dn Sw Reg.	LTC1707CS8#PBF	SMD 127-3531●	3.95	2.63	2.21	– –	– –
1710	LT	8	SOIC	SMBus Dual Hi Side Switch	LTC1710CS8#PBF	SMD 127-3532●	3.81	2.54	2.12	– –	– –
1720	ON	6	TSOP	Switched Capacitor Voltage Inverter with Shutdown	MAX1720EUTG	SMD 146-0665●	0.35	0.28	0.26	0.24	0.21
1725	LT	16	SOIC	HV Isolated Flyback Controller	LT1725CS#PBF	SMD 127-3780●	5.31	3.54	2.96	– –	– –
1725	LT	16	SOIC	General Purpose Isolated Flyback Controller	LT1725IS#PBF	NEW SMD 166-3477●	6.62	4.97	3.97	3.31	2.96
1726	LT	8	SOIC	Triple Reset w/Adj. Watchdog	LTC1726ES8-5#PBF	SMD 127-3651●	3.29	2.18	1.83	– –	– –
1727	LT	8	SOIC	µP Prec Triple Supply Monitors	LTC1727ES8-5#PBF	SMD 127-3652●	3.29	2.18	1.83	– –	– –
1728	LT	5	SOT-23	1.8V Micropower Precision Triple Supply Monitor	LTC1728ES5-3.3#TRMPBF	NEW SMD 166-3856●	2.82	2.18	1.75	1.45	1.31
1730	LTC	16	SSOP	Lithium Ion Battery Pulse Charger with Overcurrent Protection	LTC1730EGN-4#PBF	NEW SMD 164-8009●	3.22	2.53	2.09	1.92	1.70
1731	LT	8	SOIC	Lithium-Ion Linear Battery Charger Controller	LTC1731ES8-8.4#PBF	NEW SMD 166-3670●	2.99	2.32	1.85	1.54	1.39
1731	LTC	8	MSOP	Lithium Ion Linear Battery Charger Controller	LTC1731EMS8-4.1#PBF	NEW SMD 164-8010●	2.67	2.10	1.74	1.59	1.41
1731	LTC	8	MSOP	Lithium Ion Linear Battery Charger Controller	LTC1731EMS8-4.2#PBF	NEW SMD 164-8011●	2.67	2.10	1.74	1.59	1.41
1731	LTC	8	MSOP	Lithium Ion Linear Battery Charger Controller	LTC1731EMS8-8.2#PBF	NEW SMD 164-8012●	2.67	2.10	1.74	1.59	1.41
1731	LTC	8	MSOP	Lithium Ion Linear Battery Charger Controller	LTC1731EMS8-8.4#PBF	NEW SMD 164-8013●	2.67	2.10	1.74	1.59	1.41
1732	LTC	10	MSOP	Lithium-Ion Linear Battery Charger Controller	LTC1732EMS-4#PBF	NEW SMD 164-8014●	3.39	2.68	2.20	2.03	1.79
1732	LTC	10	MSOP	Lithium-Ion Linear Battery Charger Controller	LTC1732EMS-4.2#PBF	NEW SMD 164-8015●	3.39	2.68	2.20	2.03	1.79
1732	LTC	10	MSOP	Lithium-Ion Linear Battery Charger Controller	LTC1732EMS-8.4#PBF	NEW SMD 164-8016●	3.39	2.68	2.20	2.03	1.79
1733	LTC	10	MSOP	Linear Lithium Ion Battery Charger with Thermal Regulation	LTC1733EMSE#PBF	NEW SMD 164-8017●	2.67	2.10	1.74	1.59	1.41
1734	LT	6	SOT-23	Lithium-Ion Linear Battery Charger	LTC1734LES6-4.2#TRMPBF	NEW SMD 166-3857●	2.71	2.10	1.68	1.40	1.25
1735	LT	16	SSOP	High Efficiency Synchronous Step-down Switching Regulator	LTC1735CGN#PBF	SMD 113-6633●	5.49	3.58	2.77	– –	– –
1735	LT	16	SOIC	Hi Eff Syn Stepdn Sw Reg	LTC1735CS#PBF	SMD 127-3908●	6.26	3.54	2.55	– –	– –
1736	LT	24	SSOP	Hi Eff Syn Stepdn Sw Reg	LTC1736CG#PBF	SMD 127-3909●	4.55	3.04	2.54	– –	– –
1737	LT	16	SSOP	High Power Isolated Flyback Controller	LT1737CGN#PBF	NEW SMD 166-3478●	5.79	4.34	3.47	2.89	2.59
1737	LT	16	SOIC	High Power Isolated Flyback Controller	LT1737CS#PBF	SMD 127-3781●	5.31	3.54	2.96	– –	– –
1738	LT	20	SSOP	Ultra Low Noise DC/DC Controller	LT1738EG#PBF	SMD 127-3489●	7.01	3.48	3.12	– –	– –
1745	MAX	10	SOIC	High Voltage (36V) step-down DC/DC controller	MAX1745EUB+	SMD 972-5377●	6.68	4.30	3.62	– –	– –
1751	LT	8	MSOP	Reg Adj Charge Pump at 100mA	LTC1751EMS8#PBF	SMD 127-3910●	4.37	2.47	1.78	– –	– –
1754	LT	6	SOT-23	Micropower, Regulated 3.3V/5V Charge Pump with Shutdown	LTC1754ES6-5#TRMPBF	NEW SMD 166-3858●	2.82	2.18	1.75	1.45	1.31
1759	LTC	36	NSSOP	Smart Battery Charger	LTC1759CG#PBF	NEW SMD 164-8018●	8.46	6.65	5.48	5.05	4.47
1760	LTC	48	TSSOP	Dual Smart Battery System Manager	LTC1760CFW#PBF	NEW SMD 164-8021●	11.68	9.19	7.58	6.97	6.17
1765	LT	16	TSSOP	3A, 1.25MHz Step-Down Switching Regulator	LT1765EFE-3.3#PBF	NEW SMD 166-3485●	9.14	6.86	5.48	4.56	4.09
1765	LT	16	TSSOP	3A, 1.25MHz Step-Down Switching Regulator	LT1765EFE-5#PBF	NEW SMD 166-3486●	9.14	6.86	5.48	4.56	4.09
1765	LT	16	TSSOP	3A 1.25 MHz Step-dn Converter	LT1765EFE#PBF	SMD 127-3782●	9.11	5.54	4.37	– –	– –
1765	LT	8	SOIC	3A, 1.25 MHz Step-dn Converter	LT1765ES8#PBF	SMD 127-3783●	9.05	5.12	3.68	– –	– –
1766	LT	16	TSSOP	1.5A 200kHz High Voltage Step-down Regulator	LT1766EFE#PBF	SMD 127-3785●	7.09	4.31	3.39	– –	– –
1766	LT	16	TSSOP	1.5A 200kHz High Voltage Step-down Regulator	LT1766EFE-5#PBF	SMD 127-3786●	6.77	4.52	3.77	– –	– –
1766	LT	16	SSOP	High Voltage, Stepdown Switching Regulator, 200kHz, 1.5A	LT1766EGN	SMD 386-2410▲	1.21	– –	– –	– –	– –
1766	LT	16	SSOP	High Voltage, Stepdown Switching Regulator, 200kHz, 1.5A	LT1766EGN#PBF	SMD 956-0670●	6.97	3.94	2.86	– –	– –
1766	LT	16	SSOP	1.5A 200kHz High Voltage Step-down Regulator	LT1766EGN-5#PBF	SMD 127-3787●	4.50	2.48	2.41	– –	– –
1766	LT	16	SSOP	High Voltage, Stepdown Switching Regulator, 200kHz, 1.5A (IND TEMP)	LT1766IGN#PBF	SMD 956-0688●	8.51	4.81	3.46	– –	– –
1767	LT	8	MSOP	1.5A, 1.25MHz Step-Down Switching Regulator	LT1767EMS8-3.3#PBF	NEW SMD 166-3487●	5.49	4.26	3.41	2.84	2.54
1767	LT	8	MSOP	1.5A, 1.25MHz Step-Down Switching Regulator	LT1767EMS8-5#PBF	NEW SMD 166-3488●	5.49	4.26	3.41	2.84	2.54
1767	LT	8	MSOP	1.5A, 1.25MHz Step-Down Switching Regulator	LT1767EMS8E#PBF	NEW SMD 166-3489●	5.58	4.32	3.46	2.88	2.59
1767	LT	8	MSOP	1.5A, 1.25MHz Step-Down Switching Regulator	LT1767EMS8E-3.3#PBF	NEW SMD 166-3490●	5.58	4.32	3.46	2.88	2.59
1767	LT	8	MSOP	1.5A, 1.25MHz Step-Down Switching Regulator	LT1767EMS8E-5#PBF	NEW SMD 166-3491●	5.58	4.32	3.46	2.88	2.59
1767	LT	8	MSOP	1.25 MHz Step-dn Sw Reg	LT1767EMS8#PBF	SMD 127-3788●	5.67	3.21	2.39	– –	– –
1768	LT	16	SSOP	CCFL Controller	LT1768CGN#PBF	SMD 127-3490●	7.57	5.03	4.22	– –	– –
1769	LT	28	SSOP	2A CC/CV Batt. Charger	LT1769CGN#PBF	SMD 127-3491●	6.58	3.28	3.20	– –	– –
1770	NSC	5	SOT-23	Low-Voltage SOT23 Synchronous Buck Controller With No External Compensation	LM1770SMF	SMD 131-2542●	1.22	0.91	0.75	0.61	0.60

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Power Supply ICs - continued

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
1770	NSC	5	SOT-23	Low-Voltage SOT23 Synchronous Buck Controller With No External Compensation	LM1770TMF	SMD 131-2543	1.22	0.91	0.75	0.61	0.60
1770	NSC	5	SOT-23	Low-Voltage SOT23 Synchronous Buck Controller With No External Compensation	LM1770UMF	SMD 131-2544	1.22	0.91	0.75	0.62	0.60
1771	NSC	6	LLP	Low-Voltage Synchronous Buck Controller with Precision Enable and No External Compensation	LM1771SSD	SMD 131-2545	1.43	1.07	0.87	0.70	0.66
1771	NSC	6	LLP	Low-Voltage Synchronous Buck Controller with Precision Enable and No External Compensation	LM1771TSD	SMD 131-2547	1.35	1.01	0.82	0.66	0.61
1771	NSC	6	LLP	Low-Voltage Synchronous Buck Controller with Precision Enable and No External Compensation	LM1771USD	SMD 131-2548	1.43	1.07	0.87	0.70	0.66
1771	LT	8	SOIC	Low Iq Step-dn DC/DC Controller	LTC1771ES8#PBF	SMD 127-3533	5.08	2.87	2.08	– –	– –
1772	LT	6	SOT-23	Constant Frequency Current Mode Step-Down DC/DC Controller	LTC1772BES6#TRMPBF	NEW SMD 166-3861	3.73	2.89	2.32	1.93	1.73
1772	MAX	28	QSOP	Switchmode Battery Charger 8V to 28V I/P Volatge 4A Charge Current	MAX1772EEI+	SMD 160-6625	7.13	5.70	5.17	4.75	3.96
1773	LT	10	MSOP	Synchronous Step-Down Controller	LTC1773EMS#PBF	SMD 127-3911	5.08	2.87	2.07	– –	– –
1775	LT	16	SOIC	NoRsense Current Mode DC/DC	LTC1775CS#PBF	SMD 127-3912	8.44	5.63	4.72	– –	– –
1776	LT	8	SOIC	Wide Input Range Hi Eff Sw Reg	LT1776CS8#PBF	SMD 127-3789	4.97	2.81	2.12	– –	– –
1776	LT	8	DIP	High Efficiency, Step-Down Switching Regulator	LT1776CN8#PBF	NEW 166-3492	4.57	3.54	2.84	2.36	2.12
1777	LT	16	SOIC	Low Noise Step-Down Switching Regulator	LT1777IS#PBF	NEW SMD 166-3493	5.73	4.44	3.55	2.96	2.66
1777	LT	16	SOIC	Low Noise Stepdn Sw Reg	LT1777CS#PBF	SMD 127-3790	4.86	3.24	2.71	– –	– –
1778	LT	16	SSOP	Synchronous Step down Controller	LTC1778EGN#PBF	SMD 127-3913	5.44	2.92	2.22	– –	– –
1779	LT	6	SOT-23	250mA Current Mode Step-Down DC/DC Converter	LTC1779ES6#TRMPBF	NEW SMD 166-3862	3.64	2.83	2.26	1.88	1.69
1786	LT	16	SOIC	SMBus Controlled CCFL Sw Reg	LT1786FCS#PBF	SMD 127-3492	8.13	5.41	4.54	– –	– –
1800	ON	8	MicroSOIC	Single-Cell Lithium Ion Battery Charge Controller	NCP1800DM41R2G	NEW SMD 154-7123	1.59	1.30	1.16	0.95	0.79
1811	MAX	8	SOIC	USB Powered Single Cell Lithium-ion Battery Charger	MAX1811ESA+	NEW SMD 159-3327	3.03	2.35	2.12	1.76	1.51
1821	ADI	16	QSOP	Step-Down DC-to-DC Controller	ADP1821ARQZ-R7	NEW SMD 165-1327	2.00	1.56	1.27	1.17	1.13
1822	ADI	24	QSOP	PWM, Step-Down DC-to-DC Controller with Margining and Tracking	ADP1822ARQZ-R7	NEW SMD 165-1329	2.07	1.60	1.31	1.21	1.16
1823	ADI	32	LFCSP	Dual, Interleaved, Step-Down DC-to-DC Controller with Tracking	ADP1823ACPZ	SMD 146-1514	3.12	2.61	2.15	2.06	1.92
1828	ADI	20	QSOP	5V at 100mA O/P Synchronous PWM Step-Down DC/DC Controller	ADP1828YRQZ-R7	NEW SMD 158-9555	2.87	2.10	1.83	1.54	1.41
1829	ADI	16	LFCSP	Dual, Interleaved, Step-Down DC-to-DC Controller with Tracking	ADP1829ACPZ	SMD 146-1516	2.62	2.19	1.81	1.77	1.65
1835	ON	10	DFN	300mA Single-Cell Lithium Ion/Polymer Battery Charge	NCP1835BMNR2G	NEW SMD 154-7125	1.30	1.07	0.95	0.78	0.65
1846	MAX	10	microMax	-200V to -2V O/P Inverting 500kHz PWM Controller	MAX1846EUB+	NEW SMD 159-3329	3.12	2.42	2.18	1.82	1.55
1864	ADI	6	TSOT	Constant Frequency Current-Mode Step-Down DC-to-DC Controller	ADP1864AUJZ	SMD 146-1517	1.55	1.30	1.07	1.02	0.96
1871	LT	10	MSOP	No RSENSE DC/DC Controller Boost, Flyback & SEPIC	LTC1871EMS#PBF	SMD 127-3534	5.08	2.87	2.08	– –	– –
1872	LT	6	SOT-23	Constant Frequency Current Mode Step-Up DC/DC Controller	LTC1872ES6#TRMPBF	NEW SMD 166-3869	3.62	2.82	2.25	1.87	1.68
1873	LT	28	SSOP	2-Output 2-Phase Cont w/VID	LTC1873EG#PBF	SMD 127-3914	9.84	6.54	5.48	– –	– –
1875	LT	16	SSOP	15uA Quiescent Current, 1.5A Synch Step-dwn Reg	LTC1875EGN#PBF	SMD 127-3915	6.62	3.74	2.79	– –	– –
1876	LT	36	SSOP	2-phase,Dual Step-dn + Boost Reg	LTC1876EG#PBF	SMD 127-3916	7.65	5.43	5.29	– –	– –
1877	LT	8	MSOP	Low Iq Mono Synch Step-dn Reg	LTC1877EMS8#PBF	SMD 127-3536	5.79	3.27	2.36	– –	– –
1878	LT	8	MSOP	Low Iq Mono Synch Step-dn Reg	LTC1878EMS8#PBF	SMD 127-3918	5.20	2.94	2.16	– –	– –
1879	LT	16	SSOP	15uA Quiescent Current, 1.2A Synch Step-dwn Reg	LTC1879EGN#PBF	SMD 127-3919	6.80	3.85	2.82	– –	– –
1912	LT	10	DFN	2A O/P 500kHz Step-Down Switching Regulator	LT1912EDD#PBF	NEW SMD 162-8755	4.65	4.15	3.38	3.11	2.67
1913	LT	10	DFN	3.5A O/P 2.4MHz Step-Down Switching Regulator	LT1913EDD#PBF	NEW SMD 162-8757	6.14	5.46	4.47	4.09	3.52
1922	LT	20	SSOP	Sync. Full-Bridge Controller	LTC1922EG-1#PBF	SMD 127-3920	6.87	4.56	3.83	– –	– –
1929	LT	28	SSOP	Hi Pwr PolyPhase DC/DC Controllers	LTC1929CG#PBF	SMD 127-3537	7.91	5.27	4.40	– –	– –
1930	LT	5	SOT-23	1A 2.2MHz, Step-Up DC/DC Converters	LT1930AES5#TRMPBF	NEW SMD 166-3804	3.85	2.97	2.38	1.99	1.78
1930	LT	5	SOT-23	1A 1.2MHz Step-Up DC/DC Converters	LT1930ES5#TRMPBF	NEW SMD 166-3805	3.85	2.97	2.38	1.99	1.78
1931	LT	5	SOT-23	2.2MHz Inverting DC/DC Converter	LT1931AES5#TRMPBF	NEW SMD 166-3806	4.09	3.17	2.53	2.11	1.88
1931	LT	5	SOT-23	1.2MHz Inverting DC/DC Converters	LT1931ES5#TRMPBF	NEW SMD 166-3807	4.09	3.17	2.53	2.11	1.88
1933	LT	6	SOT-23	600mA, 500kHz Step-Down Switching Regulator	LT1933ES6#TRMPBF	NEW SMD 166-3809	3.67	2.84	2.27	1.90	1.69
1934	LT	6	SOT-23	Micropower Step-Down Switching Regulator	LT1934ES6#TRMPBF	NEW SMD 166-3810	4.19	3.25	2.60	2.17	1.94
1935	LT	5	SOT-23	1.2MHz Boost DC/DC Converter	LT1935ES5#TRMPBF	NEW SMD 166-3812	4.65	3.61	2.88	2.41	2.16
1936	LT	8	MSOP	36V, 1.4A, 500kHz. Step-Down in MS8E	LT1936EMS8E#PBF	SMD 127-3791	5.39	3.16	2.49	– –	– –
1939	LT			2A Step-Down Regulator/Controller	LT1939EDD#PBF	NEW 162-8758	5.12	4.55	3.72	3.41	2.93
1940	LT	16	TSSOP	Dual 1.4A Step-dn DC/DC Converter	LT1940EFE#PBF	SMD 127-3792	6.69	4.45	3.73	– –	– –
1941	LT	28	TSSOP	Triple, High Current Monolithic Switching Regulator	LT1941EFE#PBF	SMD 127-3793	9.48	6.32	5.29	– –	– –
1944	LT	10	MSOP	Dual MicroPower DC/DC Converter	LT1944EMS#PBF	SMD 127-3494	4.02	2.27	1.64	– –	– –
1945	LT	10	MSOP	Dual MicroPower DC/DC Converter	LT1945EMS#PBF	SMD 127-3495	4.02	2.27	1.64	– –	– –
1946	LT	8	MSOP	2.7MHz Boost DC/DC w/ 1.5A	LT1946AEMS8E#PBF	SMD 127-3795	3.31	1.87	1.43	– –	– –
1946	LT	8	MSOP	1.2MHz Boost DC/DC w/ 1.5A	LT1946EMS8#PBF	SMD 127-3797	3.31	1.87	1.43	– –	– –
1947	MAX	8	TDFN	0.25A 3.3V Step Up DC-DC Converter	MAX1947ETA33+T	NEW SMD 160-9608	1.82	1.63	1.39	1.20	1.09
1947	MAX	8	TDFN	0.25A 3.0V Step Up DC-DC Converter	MAX1947ETA30+T	NEW SMD 160-9611	1.82	1.63	1.39	1.20	1.09
1947	MAX	8	TDFN	0.25A 2.5V Step Up DC-DC Converter	MAX1947ETA25+T	NEW SMD 160-9612	1.82	1.63	1.39	1.20	1.09
1947	MAX	8	TDFN	0.25A 1.8V Step Up DC-DC Converter	MAX1947ETA18+T	NEW SMD 160-9613	1.82	1.63	1.39	1.20	1.09
1947	LT	10	MSOP	DC/DC Converter for TFT-LCD Panels	LT1947EMS#PBF	SMD 127-3798	4.85	2.74	2.04	– –	– –
1949	LT	8	MSOP	600KHz 1A Sw PWM Boost Conv	LT1949EMS8#PBF	SMD 127-3799	4.25	2.40	1.77	– –	– –
1950	LT	16	SSOP	HV forward Controller	LT1950EGN#PBF	SMD 127-3800	5.28	3.54	2.96	– –	– –
1956	LT	16	SSOP	1.5A 500kHz High Voltagen Step-down Regulator	LT1956EGN#PBF	SMD 127-3801	6.97	3.94	3.08	– –	– –
1956	LT	16	SSOP	1.5A 500kHz High Voltage Step-down Regulator	LT1956EGN-5#PBF	SMD 127-3803	6.97	3.94	2.86	– –	– –
1959	LT	8	SOIC	4.5A 500kHz Stepdown Sw Reg	LT1959CS8#PBF	SMD 127-3496	8.47	5.63	4.72	– –	– –
1960	LT	36	SSOP	Dual Battery/Selector Charger	LTC1960CG#PBF	SMD 127-3921	13.93	7.88	5.87	– –	– –
1961	LT	8	MSOP	1.5A, 1.25MHz Step-Up Regulator	LT1961EMS8E#PBF	SMD 127-3804	3.19	1.80	1.39	– –	– –
1976	LT	16	TSSOP	1.5A, 200kHz Step-Down Switching Regulator	LT1976IFE#PBF	NEW SMD 166-3536	8.71	6.53	5.22	4.35	3.89
1976	LT	16	TSSOP	1.5A, 200kHz uP HV Step-down converter	LT1976EFE#PBF	SMD 127-3805	7.22	4.80	4.03	– –	– –
1977	LT	16	TSSOP	1.5A, 500kHz HV Step-down w/ Burst Mode Operation	LT1977EFE#PBF	SMD 127-3806	7.40	4.94	4.13	– –	– –
1980	LTC	24	SSOP	Combination Battery Charger & DC/DC Converter	LTC1980EGN#PBF	NEW SMD 164-8022	5.51	4.34	3.58	3.29	2.92
1981	LT	5	SOT-23	Single Micropower High Side Switch Controller	LTC1981ES5#TRMPBF	NEW SMD 166-3870	2.47	1.92	1.53	1.27	1.15
1983	LT	6	SOT-23	100mA Regulated Charge-Pump Inverter	LTC1983ES6-5#TRMPBF	NEW SMD 166-3871	3.47	2.70	2.16	1.79	1.61
1998	LT	6	SOT-23	Comparator & Voltage Reference for Battery Monitoring	LTC1998CS6#TRMPBF	NEW SMD 166-3873	2.03	1.58	1.26	1.04	0.94
2000	B'MARQ	8	SOIC	Programmable multi-chemistry fast charge mAnagement IC With temperature rate of change detection	BQ2000SN-B5	SMD 110-1394	2.24	1.88	1.58	– –	– –
2000	TI	8	SOIC	Multichemistry Charge mAnagement IC	BQ2000TSN-B5	SMD 121-2295	3.01	2.05	1.53	– –	– –
2002	TI	8	SOIC	2A Multiple Cell NiCD/NiMH Fast-Charge Management	BQ2002ESN	NEW SMD 156-4909	1.73	1.43	1.26	1.03	0.88
2002	TI	8	NSOIC	2A Multiple Cell NiCD/NiMH Fast-Charge Management	BQ2002TSN	NEW SMD 156-4910	1.73	1.43	1.26	1.03	0.88
2002	TI	8	PDIP	NICD/NIMH Fast Charge IC	BQ2002CPN	840-9633	1.90	1.29	0.93	– –	– –
2002	TI	8	SOIC	NICD/NIMH Fast Charge IC	BQ2002CSN	SMD 840-9641	1.90	1.29	0.93	– –	– –
2002	TI	8	SOIC	NICD/NIMH Fast Charge IC	BQ2002FSN	SMD 840-9650	1.90	1.29	0.93	– –	– –
2002	TI	8	DIP	NiCd/NiMH Fast charge mAnagement IC With Peak Voltage Detection (PVD)	BQ2002PNE4	120-2019	1.52	1.09	0.83	– –	– –
2002	TI	8	SOIC	NiCd/NiMH Fast charge mAnagement IC With Peak Voltage Detection (PVD)	BQ2002SNG4	SMD 120-2020	1.52	1.09	0.83	– –	– –
2002	IR	133	BGA	Synchronous Buck Multiphase Optimized BGA Power Block	IP2002PBF	SMD 147-1246	14.20	10.28	8.15	7.31	6.71
2003	TI	16	SOIC	Switch-mode NiCd/NiMH Battery Charger with Negative dV and dT/dt Termination	BQ2003SG4	123-4731	3.93	2.78	2.09	1.90	1.82
2003	B'MARQ	16	SOIC	NiCd/NiMH fast charge mAnagement IC With temperature rate of change detection	BQ2003S-N	SMD 110-1396	4.96	3.73	2.99	– –	– –
2003	IR	10	LGA	Synchronous Buck Multiphase Optimized LGA Power Block	IP2003APBF	SMD 147-1248	14.17	11.34	9.46	8.09	7.56
2004	TI	16	SOIC	NICD/NIMH Fast Charge IC	BQ2004ESNG4	SMD 120-6881	3.07	2.18	1.63	– –	– –

RL Re-reeling available

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
2004	B'MARQ	16	SOIC	NiCd/NiMH fast charge mAnagement IC With Peak Voltage (PVD) and volume detection)	BQ2004SN	SMD 110-1398	4.01	2.73	2.03	– –	– –
2012	TI	16	SOIC	Gas Gauge IC With Slow-Charge Control	BQ2012SN-D107	NEW SMD 165-9624	6.84	5.99	4.79	3.98	3.42
2013	FCH	6	MLP	2A Low-Voltage Current-Mode Synchronous PWM Buck Regulator	FAN2013MPX	SMD 149-5506	1.01	0.73	0.54	0.51	0.47
2013	TI	16	SOIC	NICD/NIMH/LEAD-ACID Gas Gauge IC	BQ2013HSN-A514G4	SMD 120-6882	5.54	4.62	3.51	– –	– –
2014	TI	16	SOIC	NICD/NIMH Gas Gauge IC w/External Charge Control	BQ2014SN-D120	SMD 846-6246	6.86	4.68	3.77	– –	– –
2014	TI	8	SOIC	Power Distribution Switch	TPS2014D	SMD 845-6682	3.32	2.36	2.00	– –	– –
2019	TI	8	TSSOP	FLASH-Based Precision Multi-Chemistry Charge/Discharge Counter	BQ2019PWG4	SMD 123-4993	3.49	2.46	1.84	1.69	1.59
2020	TI	8	SOIC	Power Distribution Switch	TPS2020D	SMD 845-6690	1.92	1.31	0.94	– –	– –
2022	TI	3	TO-92	1K Bit Serial EPROM with SDQ Interface	BQ2022ALPR	NEW SMD 164-7890	2.06	1.53	1.27	1.15	1.12
2022	TI	8	SOIC	Power Distribution Switch	TPS2022D	SMD 845-6704	1.92	1.31	0.94	– –	– –
2025	MICR	8	SOIC	140mΩ Single-Channel Power Distribution Switch Active High	MIC2025-1YM	NEW SMD 155-6727	0.96	0.71	0.58	– –	– –
2025	MICR	8	SOIC	140mΩ Single-Channel Power Distribution Switch Active Low	MIC2025-2YM	NEW SMD 155-6728	0.96	0.71	0.58	– –	– –
2026	MICR	8	SOIC	140mΩ Dual-Channel Power Distribution Switch Active Low	MIC2026-2YM	NEW SMD 155-6729	0.86	0.63	0.51	– –	– –
2031	B'MARQ	8	SOIC	Lead acid battery fast charge mAnagement controller	BQ2031SN-A5	SMD 110-1401	4.40	3.40	2.74	– –	– –
2034	TI	8	SOIC	Power Distribution Switch	TPS2034D	SMD 845-6712	1.92	1.31	0.94	– –	– –
2040	B'MARQ	16	SOIC	Gas gauge battery charge recorder With SMBus interface	BQ2040SN-C408	SMD 110-1402	3.90	3.45	3.44	– –	– –
2041	TI	8	SOIC	Power Distribution Switch	TPS2041AD	SMD 845-6720	1.32	1.03	0.74	– –	– –
2041	TI	8	SOIC	Power Distribution Switch	TPS2041D	SMD 845-6739	2.00	1.45	1.08	– –	– –
2042	TI	8	SOIC	Power Distribution Switch, Dual	TPS2042AD	SMD 845-6747	1.54	1.29	0.93	– –	– –
2042	TI	8	SOIC	Power Distribution Switch, Dual	TPS2042DR	SMD 845-6763	2.43	1.75	1.30	– –	– –
2044	TI	16	SOIC	Power Distribution Switch, Quad	TPS2044BD	SMD 845-6780	1.66	1.28	0.92	– –	– –
2050	TI	16	SOIC	LI-ION Gas Gauge W/High-SP.	BQ2050HSN-A508G4	SMD 120-6832	5.50	4.57	3.51	– –	– –
2057	TI	8	SOIC	Low Dropout Linear 1-cell Li-Ion Charge Controller with Auto-CompTM, 4.2V.	BQ2057CSN	SMD 141-7419	1.50	1.02	0.77	– –	– –
2057	TI	8	TSSOP	Low Dropout Linear 1-cell Li-Ion Charge Controller	BQ2057CTSG4	SMD 128-7423	1.63	1.17	0.91	0.77	0.64
2057	B'MARQ	8	SOIC	Li-Ion & Li-Pol linear charge mAnagement controller 4.1V charge regulation.	BQ2057SN	SMD 110-1403	1.27	0.89	0.69	– –	– –
2057	TI	8	SOIC	LI-ION LDO Charge mAnager	BQ2057WSN	SMD 121-2263	1.69	1.15	0.83	– –	– –
2057	TI	8	TSSOP	Li-Ion & Li-Pol linear charge mAnagement controller 8.4V charge regulation.	BQ2057WTSG4	SMD 121-4427	2.15	1.53	1.14	– –	– –
2060	TI	28	SSOP	Gas Gauge IC.	BQ2060A-E619DBQG4	SMD 120-6833	5.36	3.82	2.85	– –	– –
2060	TI	28	SSOP	SBSv1.1-compliant Gas-gauge IC.	BQ2060SS-E411G4	SMD 121-4428	6.90	4.70	3.79	– –	– –
2062	TI	8	SOIC	Dual 1A Current-Limited Power-Distribution MOSFET Switch	TPS2062D.	NEW SMD 156-0652	1.17	1.01	0.75	0.67	0.58
2065	TI	8	SOIC	Single 1A Current-Limited Power-Distribution MOSFET Switch	TPS2065D.	NEW SMD 156-0653	0.92	0.81	0.58	0.54	0.47
2066	TI	8	SOIC	Dual 1A Current-Limited Power-Distribution MOSFET Switch	TPS2066D	NEW SMD 156-0654	1.17	1.01	0.75	0.67	0.58
2076	MICR	8	SOIC	Active Low Dual Channel Power MOSFET Distribution Switch	MIC2076-2YM	NEW SMD 155-6763	0.94	0.83	0.69	– –	– –
2084	TI	38	TSSOP	SBS v1.1 Compliant Gas Gauge for BQ29312A.	BQ2084DBT-V143	NEW SMD 164-7882	6.97	5.42	4.43	4.06	3.49
2084	TI	38	TSSOP	SBS v1.1 Compliant Gas Gauge with LED Delay	BQ2084DBT-V150	NEW SMD 164-7883	6.59	4.87	4.06	3.49	3.40
2084	TI	38	TSSOP	SBS v1.1 Compliant Gas Gauge IC	BQ2084DBTG4	SMD 132-9581	4.87	3.66	3.03	– –	– –
2100	NSC	6	Micro Bump	50M-4GHz 40 dB Logarithmic Power Detector for CDMA & WCDMA.	LMH2100TM	NEW SMD 154-2535	1.99	1.67	1.50	1.37	1.16
2102	ADI	8	LFCSP	1.8V Low Duty Cycle, 600 mA, 3 MHz Synchronous Step-Down DC-to-DC Converter	ADP2102YCPZ-1.8	SMD 146-1519	1.83	1.53	1.25	1.22	1.15
2102	ADI	8	LFCSP	3V Low Duty Cycle, 600 mA, 3 MHz Synchronous Step-Down DC-to-DC Converter	ADP2102YCPZ-3	SMD 146-1520	1.83	1.53	1.25	1.22	1.15
2105	ADI	16	LFCSP	1.5V 1A Synchronous, Step-Down DC-to-DC Converter	ADP2105ACPZ-1.5	SMD 146-1521	2.17	1.81	1.48	1.45	1.36
2105	ADI	16	LFCSP	1.8V 1A Synchronous, Step-Down DC-to-DC Converter	ADP2105ACPZ-1.8	SMD 146-1522	2.17	1.81	1.48	1.45	1.36
2105	ADI	16	LFCSP	3.3V 1A Synchronous, Step-Down DC-to-DC Converter	ADP2105ACPZ-3.3	SMD 146-1523	2.82	2.36	1.93	1.88	1.78
2105	ADI	16	LFCSP	Adjutable 1A Synchronous, Step-Down DC-to-DC Converter	ADP2105ACPZ	SMD 146-1524	2.27	1.54	1.32	1.28	1.25
2106	ADI	16	LFCSP	1.5V 1.5A Synchronous, Step-Down DC-to-DC Converter	ADP2106ACPZ-1.5	SMD 146-1525	2.17	1.81	1.48	1.45	1.36
2106	ADI	16	LFCSP	1.8V 1.5A Synchronous, Step-Down DC-to-DC Converter	ADP2106ACPZ-1.8	SMD 146-1526	2.17	1.81	1.48	1.45	1.36
2106	ADI	16	LFCSP	3.3V 1.5A Synchronous, Step-Down DC-to-DC Converter	ADP2106ACPZ-3.3	SMD 146-1528	2.17	1.81	1.48	1.45	1.36
2106	ADI	16	LFCSP	Adjutable 1.5A Synchronous, Step-Down DC-to-DC Converter	ADP2106ACPZ	SMD 146-1529	2.50	1.71	1.33	1.30	1.26
2107	ADI	16	LFCSP	1.5V 2A Synchronous, Step-Down DC-to-DC Converter	ADP2107ACPZ-1.5	SMD 146-1530	2.17	1.81	1.48	1.45	1.36
2107	ADI	16	LFCSP	1.8V 2A Synchronous, Step-Down DC-to-DC Converter	ADP2107ACPZ-1.8	SMD 146-1531	2.65	1.80	1.45	1.41	1.37
2107	ADI	16	LFCSP	3.3V 2A Synchronous, Step-Down DC-to-DC Converter	ADP2107ACPZ-3.3	SMD 146-1532	2.65	1.80	1.34	1.28	1.25
2107	ADI	16	LFCSP	Adjutable 2A Synchronous, Step-Down DC-to-DC Converter	ADP2107ACPZ	SMD 146-1533	2.65	1.80	1.34	1.28	1.19
2111	TI	8	TSSOP	Power MUX, Dual	TPS2111PWG4	SMD 120-7317	1.01	0.85	0.72	– –	– –
2117	ATM	8	DIP	Zero Voltage Switch with Adjustable Ramp	T2117-3ASY	145-5171	0.90	0.59	0.50	– –	– –
2130	MICR	16	TSSOP	High Voltage Synchronous Buck Controller	MIC2130-1YTSE	NEW SMD 166-3079	3.56	2.67	2.14	1.94	1.78
2145	MICR	8	MSOP	High Efficiency 2.5W Boost Converter	MIC2145YMM	NEW SMD 166-3101	2.36	1.94	1.55	1.42	1.20
2161	IR	8	DIP	Halogen Converter Control IC	IR2161PBF	SMD 147-1240	1.42	1.13	0.94	0.81	0.74
2161	IR	8	SOIC	Halogen Converter Control IC	IR2161SPBF	SMD 147-1241	1.29	1.03	0.87	0.73	0.69
2166	IR	16	DIP	PFC and Ballast Control IC	IRS2166DPBF	149-8201	2.24	1.67	1.38	1.21	1.12
2166	IR	16	SOIC	PFC and Ballast Control IC	IRS2166DSPBF	SMD 149-8202	2.24	1.67	1.38	1.21	1.12
2168	IR	16	DIP	Advanced PFC and Ballast Control IC	IRS2168DPBF	149-8203	2.05	1.63	1.36	1.17	1.10
2168	IR	16	SOIC	Advanced PFC and Ballast Control IC	IRS2168DSPBF	SMD 149-8205	2.05	1.63	1.36	1.17	1.10
2177	MICR	20	SOIC	2.5A Synchronous Buck Regulator	MIC2177YWM	NEW SMD 166-3075	6.22	5.12	4.18	3.71	3.38
2206	TI	30	SSOP	1a Dual-Slot Pc Card Power Switch W/ Serial Interface	TPS2206IDBG4	SMD 123-4940	3.40	2.72	2.04	1.95	1.90
2211	TI	16	SSOP	Power Distribution Switch	TPS2211AIDB	SMD 845-6828	0.66	0.61	0.56	– –	– –
2211	TI	16	SSOP	Power Distribution Switch	TPS2211IDB	SMD 845-6836	1.49	1.25	1.16	– –	– –
2238	MICR	12	MLF	Dual Synchronous 800mA/800mA Step-Down DC/DC Regulator.	MIC2238-AAYML TR	NEW SMD 166-3074	2.99	2.30	1.91	1.65	1.52
2291	ADI	8	MSOP	Compact, 1.5 A Linear Charger for Single-Cell Li+ Battery	ADP2291ARMZ	SMD 146-1534	1.73	1.45	1.11	1.05	0.98
2375	TI	8	SOIC	Power Interface, IEEE802.3AF	TPS2375D	SMD 845-6860	2.01	1.37	1.02	– –	– –
2375	TI	8	TSSOP	PoE Powered Device Controller	TPS2375PWG4	SMD 118-0190	2.01	1.60	1.47	1.29	1.26
2376	TI	8	SOIC	PoE High Power PD Controller	TPS2376DDA-HG4	SMD 132-9593	2.05	1.54	1.28	– –	– –
2377	TI	8	SOIC	Power Interface, IEEE802.3AF	TPS2377D	SMD 845-6887	2.01	1.37	1.02	– –	– –
2392	TI	14	TSSOP	48V Hot Swap Power mAnager, Full-Featured	TPS2392PW	SMD 441-9960	0.87	– –	– –	– –	– –
2410	TI	14	TSSOP	N+1 and OR-ing Power Rail Controller.	TPS2410PW	NEW SMD 156-4949	3.43	2.84	2.52	2.06	1.75
2438	MAX	8	SOIC	Single Wire Interface with 40B EEPROM Battery Monitor	DS2438AZ+	NEW SMD 159-3288	4.41	3.63	3.26	2.71	2.33
2482	MAX	8	SOIC	Single-Channel 1-Wire Master	DS2482S-100+	NEW SMD 159-3289	1.43	1.11	0.99	0.83	0.72
2490	TI	10	VSSOP	High-VOLT Controller, 48V	TPS2490DGSG4	SMD 120-7318	2.47	2.08	1.66	– –	– –
2491	TI	10	VSSOP	High-VOLT Controller, 48V	TPS2491DGSG4	SMD 120-7319	2.47	2.08	1.66	– –	– –
2505	MICR	8	SOIC	2A High Side Power Switch Active Low	MIC2505-2YM	NEW SMD 155-6705	1.93	1.42	1.15	– –	– –
2506	MICR	8	SOIC	75mΩ Dual-Channel Power Distribution Switch Active High	MIC2506YM	NEW SMD 155-6730	2.56	2.05	1.70	– –	– –
2514	MICR	5	SOT-23	3V to 13.5V I/P Non-inverting High Side Power Switch	MIC2514YM5 TR	NEW SMD 155-6703	1.89	1.46	1.20	– –	– –
2524	NSC	16	MDIP	Adju. 0.2A Regulating PWM	LM2524DN/NOPB	NEW 168-5605	1.14	0.94	0.77	0.70	0.63
2524	TI	16	PDIP	Regulating Pulse Width Modulator	SG2524N.	NEW 164-8727	0.40	0.36	0.32	0.28	0.24
2524	TI	16	PDIP	450kHz Regulating PWM	SG2524N	NEW 156-4865	0.57	0.47	0.40	0.34	0.29
2524	TI	16	SOIC	Regulating Pulse-Width Modulator	SG2524D	SMD 958-9961	0.38	0.28	0.22	– –	– –
2524	TI	16	SOIC	Advanced Regulating Pulse Width Modulators	UC2524ADWG4	SMD 123-4914	3.49	2.61	1.98	1.78	1.60
2524	TI	16	PDIP	Advanced Regulating Pulse Width Modulators	UC2524ANG4	123-4702	3.49	2.61	1.98	1.78	1.60
2525	TI	16	PDIP	Regulating Pulse-Width Modulator	UC2525ANG4	123-4761	3.85	2.88	2.17	1.98	1.78
2526	TI	18	SOIC	Regulating Pulse-Width Modulator	UC2526ADWG4	SMD 123-5018	2.14	1.60	1.21	1.14	1.12
2526	TI	18	PDIP	Regulating Pulse-Width Modulator	UC2526ANG4	123-4774	2.78	2.09	1.57	1.44	1.29
2544	MICR	8	SOP	Programmable Current High-Side Switch Active High	MIC2544-1YM	NEW SMD 155-6731	1.67	1.34	1.11	– –	– –
2544	MICR	8	SOP	Programmable Current High-Side Switch Active Low	MIC2544-2YM	NEW SMD 155-6732	1.67	1.34	1.11	– –	– –
2574	ON	16	SO	Step-down switched regulator 0.5A Adj	NCV2574DW-ADJR2G	SMD 136-9753	1.61	1.22	1.03	0.93	0.91
2574	ON	8	DIP	500mA Switching Regulator, 3.3V Output, 5 to 40V Supply.	LM2574N-3.3G	121-1138	1.32	0.96	0.74	0.57	0.47
2575	TI	16	PDIP	1A Simple Step-Down Switching Voltage Regulator	TL2575-05IN	126-2362	0.85	0.60	0.44	0.40	0.39
2578	NSC	8	SOIC	0.75A Buck, Boost & Inverting Switching Regulator	LM2578AM/NOPB	NEW SMD 168-5617	2.55	2.09	1.71	1.58	1.41
2586	NSC	7	TO-263	5V 3A Flyback Regulator with Shutdown.	LM2586S-5.0/NOPB	NEW SMD 168-5568	6.73	5.38	4.41	4.04	3.62

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Power Supply ICs - continued

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
2590	NSC	7	TO-263 (D2-Pak)	BUCK, Voltage Regulator, 1A, 150KHZ	LM2590HVS-ADJ.	SMD 128-6837	5.06	3.35	2.62	2.01	1.88
2590	NSC	7	TO-220	1A Step-down Voltage Regulator	LM2590HVT-3.3	948-9495	3.26	2.42	1.95	– –	– –
2590	NSC	7	TO-220	1A Step-down Voltage Regulator	LM2590HVT-5.0	948-9509	3.26	2.42	1.95	– –	– –
2590	NSC	7	TO-220	1A Voltage Regulator	LM2590HVT-5.0.	412-4856	0.76	– –	– –	– –	– –
2590	NSC	7	TO-220	1A Step-down Voltage Regulator, adjustable output	LM2590HVT-ADJ	948-9517	5.63	3.81	3.11	– –	– –
2590	NSC	7	TO-220	1A Step-down Voltage Regulator, adjustable output	LM2590HVT-ADJ.	412-4868	0.82	– –	– –	– –	– –
2591	NSC	5	TO-220	1A Step-down Voltage Regulator	LM2591HVT-3.3	948-9525	5.33	3.61	2.96	– –	– –
2591	NSC	5	TO-220	1A Step-down Voltage Regulator	LM2591HVT-3.3.	412-4870	2.85	1.97	1.57	– –	– –
2591	NSC	5	TO-220	1A Step-down Voltage Regulator	LM2591HVT-5.0	948-9533	5.33	3.61	2.96	– –	– –
2591	NSC	5	TO-220	1A Step-down Voltage Regulator, adjustable output	LM2591HVT-ADJ	948-9541	3.51	2.42	1.93	– –	– –
2592	NSC	5	TO-220	2A Step-down Voltage Regulator, 3.3V output	LM2592HVT-3.3	948-9550	6.39	4.32	3.53	– –	– –
2592	NSC	5	TO-220	2A Step-down Voltage Regulator, 5V output.	LM2592HVT-5.0	948-9576	5.36	4.38	4.03	– –	– –
2592	NSC	5	TO-220	2A Step-down Voltage Regulator, adjustable output	LM2592HVT-ADJ	948-9584	4.18	2.88	2.31	– –	– –
2593	NSC	7	TO-220	2A Step-down Voltage Regulator, 5V output.	LM2593HVT-5.0	948-9592	5.57	4.13	3.34	– –	– –
2593	NSC	7	TO-220	2A Step-down Voltage Regulator, adjustable output	LM2593HVT-ADJ.	412-4959	2.85	1.96	1.58	– –	– –
2597	NSC	8	SOIC	BUCK, Voltage Regulator, 0.5A, 150KHZ	LM2597HVM-ADJ.	SMD 128-6838	4.46	2.96	2.31	1.77	1.66
2611	NSC	5	SOT-23	Current mode PWM inverting switching Regulator. (IND TEMP)	LM2611AMF	SMD 977-9094	3.44	2.37	1.81	– –	– –

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	Mftr.	Pins	Package	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
2614	NSC	10	SOIC	PWM/PFM DC-DC Converter, 0.4A	LM2614ATL	SMD 128-6841	1.570	1.290	1.090	0.980	0.920
2619	NSC	10	SOIC	PWM/PFM DC-DC Converter, 0.5A	LM2619ATL	SMD 128-6846	2.410	1.810	1.470	1.180	1.050
2619	NSC	14	TSSOP	IC,SM VREG, BUCK, SYNCH, 0.5A	LM2619MTC	SMD 128-6847	2.300	1.880	1.590	1.280	1.140
2621	NSC	8	MSOP	Step-up DC/DC converter for Low Input Voltage systems.	LM2621MM	SMD 977-9248	1.470	1.010	0.800	– –	– –
2621	NSC	8	MSOP	Step-up DC/DC converter for Low Input Voltage systems.	LM2621MM...	SMD 412-5400	2.350	1.620	1.300	– –	– –
2623	NSC	8	MSOP	Genaral Purpose, Gated Oscillator Based, DC/DC Boost Converter.	LM2623AMM	SMD 820-7445	1.650	1.420	1.140	– –	– –
2623	NSC	8	MSOP	Genaral Purpose, Gated Oscillator Based, DC/DC Boost Converter.	LM2623MM	SMD 820-7453 RL	1.330	1.110	0.880	– –	– –
2625	TI	28	PDIP	Brushless DC Motor Controller	UC2625N	146-1190	7.480	6.040	5.110	4.790	4.560
2642	NSC	28	TSSOP	Two-Phase Synchronous Step-Down Switching Controller	LM2642MTC	SMD 822-1952	3.110	2.450	1.990	– –	– –
2647	NSC	28	TSSOP	Dual Synchronous Buck Regulator Controller	LM2647MTC	SMD 128-6848	3.580	2.850	2.320	2.090	2.020
2647	NSC	28	LLP	Dual Synchronous Buck Regulator Controller	LM2647LQ	SMD 131-2680	3.030	2.250	1.830	1.470	1.320
2650	NSC	24	SOIC	High Efficiency, Synchronous Step-Down DC-DC Converter	LM2650M-ADJ	SMD 949-4200	9.060	6.130	5.020	4.730	4.380
2651	NSC	16	TSSOP	1.5A High efficiency synchronous Regulator.	LM2651MTC-ADJ	SMD 977-8900	4.210	2.720	2.340	– –	– –
2657	NSC	28	TSSOP	Dual Synchronous Buck Regulator Controller	LM2657MTC	SMD 128-6740	3.270	2.610	2.120	1.810	1.630
2660	NSC	8	SOIC	Switched Capacitor Voltage Converter Inverts Voltage range 1.5V to 5.5V	LM2660M	SMD 949-3816	1.450	1.180	1.090	– –	– –
2661	NSC	8	SOIC	Switched Capacitor Voltage Converter.	LM2661M/NOPB	NEW SMD 168-5530	1.470	1.140	0.940	0.860	0.770
2662	NSC	8	SOIC-8	Voltage Converter	LM2662M	SMD 930-6803	2.230	1.510	1.230	– –	– –
2664	NSC	6	SOT-23	Switched Capacitor Voltage Converter, inverts Voltage in the range 1.8V to 5.5V. Operates at 160kHz oscillator frequency. 1µA shutdown Current	LM2664M6	SMD 977-9671 RL	0.690	0.400	0.320	– –	– –
2670	NSC	7	TO-263 (D2-Pak)	SIMPLE SWITCHER High Efficiency 3A Step-Down Voltage Regulator with Sync	LM2670S-ADJ.	SMD 128-6849	3.310	2.670	2.430	2.080	1.940
2671	NSC	16	LLP	Power Converter High Efficiency 500mA Step-Down Voltage Regulator	LM2671LD-ADJ	SMD 131-2681	2.090	1.550	1.280	1.050	1.020
2674	NSC	16	LLP	Power Converter High Efficiency 500 mA Step-Down Voltage Regulator	LM2674LD-ADJ	SMD 131-2682	1.960	1.470	1.190	0.970	0.870
2675	NSC	16	LLP	Power Converter High Efficiency 1A Step-Down Voltage Regulator	LM2675LD-ADJ	SMD 131-2683	2.720	2.200	1.850	1.590	1.400
2682	NSC	8	SOIC	10mA O/P Switched Capacitor Voltage Doubling Inverter.	LM2682M/NOPB	NEW SMD 168-5629	1.140	0.940	0.770	0.700	0.630
2682	MAX	8	SOIC	Switched capacitor Voltage doubling inverter, 10mA o/p Current	LM2682M	SMD 948-6550	1.080	0.740	0.600	– –	– –
2685	NSC	14	TSSOP	Dual O/P, Switched capacitor Voltage Converter I/P +2.85V to +6.5V, O/P +5V 50mA & -5V 15mA	LM2685MTC	SMD 977-8691	2.450	1.660	1.350	– –	– –
2686	NSC	14	TSSOP	CMOS Voltage Converter, I/P +2.85V to +6.5V, O/P +5V 50mA	LM2686MTC	SMD 977-8616	1.690	1.150	0.940	– –	– –
2686	NSC	14	TSSOP	CMOS Voltage Converter, I/P +2.85V to +6.5V, O/P +5V 50mA	LM2686MTC.	SMD 332-6718	1.040	0.710	0.630	– –	– –
2687	NSC	8	MSOP	Low Noise Switched Cap. Voltage Inverter, I/P +2.7V to +5.5V, O/P -1.5V to -5.2V 10mA	LM2687MM	SMD 977-8624	1.520	1.070	0.870	– –	– –
2694	NSC	14	TSSOP	30V, 600 mA Step Down Switching Regulator.	LM2694MT	SMD 128-6850	1.740	1.220	0.990	0.890	0.830
2694	NSC	10	LLP	30V, 600 mA Step Down Switching Regulator.	LM2694SD	SMD 131-2684	1.580	1.160	0.970	0.820	0.800
2695	NSC	10	LLP	High Voltage (30V, 1.25A) Step Down Switching Regulator.	LM2695SD	SMD 131-2552	2.130	1.590	1.300	1.040	0.980
2700	NSC	14	TSSOP	2.5A Step-Up PWM DC/DC Converter, adjustable output.	LM2700MT-ADJ	SMD 977-8993	4.470	3.140	2.580	– –	– –
2700	NSC	14	LLP	600kHz/1.25MHz, 2.5A, Step-up PWM DC/DC Converter	LM2700LD-ADJ	SMD 131-2688	2.240	1.790	1.450	1.330	1.290
2703	NSC	5	SOT-23	DC/DC Converter, Step up	LM2703MF-ADJ	SMD 977-9442	1.190	0.890	0.690	– –	– –
2705	NSC	5	SOT-23	DC/DC converter, Step up.	LM2705MF-ADJ	SMD 977-9434	1.610	1.190	0.910	– –	– –
2712	MAX	16	TSSOP	Portable 2 or 1 AA/AAA NiMH/NiCd Switchmode Charger	DS2712E+	NEW SMD 160-6614	2.980	2.380	2.150	1.970	1.650
2715	MAX	16	SOIC	10 NiMH Battery Charge Controller	DS2715Z+	NEW SMD 159-3290	3.390	2.650	2.380	1.970	1.700
2717	NSC	14	TSSOP	Dual Step-Down DC/DC Converter	LM2717MT/NOPB	NEW SMD 168-5630	4.900	4.030	3.300	3.030	2.710
2734	NSC	6	TSOT-23	1A Load Step-Down DC-DC Regulator	LM2734ZQMK	NEW SMD 166-3025	4.830	3.750	3.070	2.820	2.420
2734	NSC	6	TSOT-23	1A Load Step-Down DC-DC Regulator	LM2734ZQMKE	NEW SMD 166-3026	4.830	3.750	3.070	2.820	2.420
2734	NSC	6	TSOT-23	1A Load Step-Down DC-DC Regulator	LM2734XQMK	NEW SMD 166-3027	3.930	3.220	2.640	2.420	2.020
2734	NSC	6	TSOT-23	1A Load Step-Down DC-DC Regulator	LM2734XQMKE	NEW SMD 166-3028	3.930	3.220	2.640	2.420	2.020
2734	NSC	6	TSOT-23	1A Load Step-Down DC-DC Regulator	LM2734YQMK	NEW SMD 166-3029	3.450	2.680	2.190	2.010	1.720
2734	NSC	6	TSOT-23	1A Load Step-Down DC-DC Regulator	LM2734YQMKE	NEW SMD 166-3030	3.450	2.680	2.190	2.010	1.720
2742	NSC	14	TSSOP	Adju. O/P Voltage N-Channel FET Synchronous Buck Regulator.	LM2742MTC/NOPB	NEW SMD 168-5632	2.500	2.060	1.690	1.540	1.380
2765	NSC	6	SOT-23	Switched Capacitor Voltage Converter.	LM2765M6/NOPB	NEW SMD 168-5542	0.610	0.470	0.390	0.350	0.320
2766	NSC	6	SOT-23	20mA O/P Switched Capacitor Voltage Doubler.	LM2766M6/NOPB	NEW SMD 168-5633	0.570	0.470	0.390	0.350	0.320
2927	LT	8	TSOT-23	Single Power Supply Tracking Controller	LTC2927CTS8#TRMPBF	NEW SMD 166-3885	3.040	2.360	1.880	1.570	1.410
2954	LT	8	TSOT-23	Push Button On/Off Controller	LTC2954CTS8-1#TRMPBF	NEW SMD 166-3886	3.410	2.630	2.110	1.760	1.580
2954	LT	8	TSOT-23	Push Button On/Off Controller	LTC2954CTS8-2#TRMPBF	NEW SMD 166-3887	3.410	2.630	2.110	1.760	1.580
2954	LT	8	TSOT-23	Push Button On/Off Controller	LTC2954ITS8-1#TRMPBF	NEW SMD 166-3888	4.000	3.090	2.470	2.070	1.850
2954	LT	8	TSOT-23	Push Button On/Off Controller	LTC2954ITS8-2#TRMPBF	NEW SMD 166-3889	4.000	3.090	2.470	2.070	1.850
2716	NSC	24	TSSOP	Dual (Step-up and Step-down) PWM DC/DC Converter	LM2716MT	SMD 818-1624	2.480	2.160	1.720	– –	– –
2717	NSC	24	TSSOP	Dual Step-Down DC/DC Converter	LM2717MT-ADJ	SMD 128-6743	4.790	3.620	2.840	2.330	2.180
2727	NSC	14	TSSOP	N-Channel FET Synchronous Buck Regulator Controller for Low Output Voltages.	LM2727MTC	SMD 818-1632	2.470	2.090	1.670	– –	– –
2731	NSC	5	SOT-23-5	0.6/1.6 MHz Boost Converters With 22V Internal FET Switch in SOT-23	LM2731XMF	SMD 818-1640 RL	1.590	1.360	1.100	– –	– –
2731	NSC	5	SOT-23	0.6/1.6 MHz Boost Converters With 22V Internal FET Switch in SOT-23	LM2731YMF	SMD 818-1659	2.190	1.880	1.490	– –	– –
2733	NSC	5	SOT-23	0.6/1.6 MHz Boost Converters With 40V Internal FET Switch in SOT-23	LM2733XMF	SMD 818-1667 RL	2.150	1.820	1.470	– –	– –
2733	NSC	5	SOT-23	0.6/1.6 MHz Boost Converters With 40V Internal FET Switch in SOT-23	LM2733YMF	SMD 818-1675 RL	2.150	1.820	1.470	– –	– –
2734	NSC	6	SOT-23	Thin SOT23 1A Load Step-Down DC-DC Regulator	LM2734YMK	SMD 131-2553	2.700	2.210	1.940	1.670	1.430
2735	NSC	8	MSOP	Space-Efficient Boost and SEPIC DC-DC Regulator.	LM2735XMY	SMD 143-3149	2.110	1.670	1.400	1.180	1.100
2736	NSC	6	SOT-23	Thin SOT23 750mA Load Step-Down DC-DC Regulator	LM2736YMK	SMD 131-2554	2.850	1.930	1.580	1.490	1.380
2737	NSC	14	TSSOP	FET Synchronous Buck Regulator Controller, 2MHz.	LM2737MTC	SMD 128-6744	2.300	2.020	1.660	1.350	1.180
2743	NSC	14	TSSOP	N-Channel FET Synchronous Buck Regulator Controller for Conversion from 3.3V.	LM2743MTC	SMD 818-1705	2.010	1.710	1.380	– –	– –
2745	MAX	8	MicroMAX	16 Bit Bidirectional Current Measurement I2C Battery Monitor	DS2745U+	NEW SMD 159-3291	2.790	2.160	1.950	1.630	1.390
2745	NSC	14	TSSOP	Synchronous BUCK Voltage Regulator Controller	LM2745MTC	SMD 128-6745	2.030	1.590	1.300	1.040	1.020
2747	NSC	14	TSSOP	Buck Synchronous Controller With PRE-BIAS	LM2747MTC	SMD 128-6746	4.320	3.280	2.560	2.100	1.960
2748	NSC	14	TSSOP	Synchronous BUCK Voltage Regulator Controller	LM2748MTC	SMD 128-6747	1.930	1.480	1.220	1.050	1.020
2750	NSC	24	SOIC	Low-Noise Switched, Capacitor Boost Regulator.	LM2750LD-5.0	SMD 822-1979	2.750	1.860	1.520	– –	– –
2750	NSC	10	LLP	Low Noise Switched Capacitor Boost Regulator	LM2750LD-ADJ	SMD 131-2689	2.190	1.660	1.310	1.160	1.100
2753	NSC	10	LLP	High Power Switched Capacitor Voltage Convertor/Flash LED Driver	LM2753SD	SMD 131-2690	2.560	1.940	1.530	1.360	1.290
2760	NSC	5	SOT-23	3.3V Regulated Switched Capacitor Voltage Converter	LM2760M5	SMD 131-2691	1.490	1.100	0.910	0.760	0.740

RL Re-reeling available

Mftr.	Pins	Package	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
2767NSC	5	SOT-23	Switched Capacitor Voltage Converter, inverts Voltage in the range 1.8V to 5.5V	LM2767M5	SMD 119-7392	0.550	0.460	0.420	– –	– –
2770NSC	10	LLP	High Efficiency Switched Capacitor Step-Down DC/DC Regulator with Sleep Mode	LM2770SD-1215	SMD 131-2692	1.630	1.230	0.990	0.840	0.780
2770NSC	10	LLP	High Efficiency Switched Capacitor Step-Down DC/DC Regulator with Sleep Mode	LM2770SD-12157	SMD 131-2693	1.710	1.290	1.030	0.880	0.780
2771NSC	10	LLP	Low-Ripple 250mA Switched Capacitor Step-Down DC/DC Converter	LM2771SD	SMD 131-2694	3.000	2.270	1.790	1.580	1.500
2780MAX	8	TSSOP	Battery Monitor with Voltage, Temperature & Current Measurement	DS2780E+	NEW SMD 160-6615	4.450	3.570	3.240	2.980	2.470
2780NSC	8	Thin Micro SMD	12kHz Ultra-Low Ripple Switched Capacitor Voltage Inverter	LM2780TP	SMD 128-6851	1.190	0.880	0.710	0.540	0.500
2781NSC	8	Thin Micro SMD	210kHz Ultra-Low Ripple Switched Capacitor Voltage Inverter	LM2781TP	SMD 128-6852	1.280	0.940	0.770	0.580	0.530
2787NSC	8	Thin Micro SMD	Low Noise Regulated Switched Capacitor Voltage Inverter	LM2787TP	SMD 128-6854	1.480	1.130	0.940	0.750	0.660
2788NSC	8	MSOP	120mA High Efficiency Step-Down Switched Capacitor Voltage Converter	LM2788MM-1.5	SMD 131-2695	1.860	1.410	1.110	0.990	0.940
2788NSC	8	MSOP	120mA High Efficiency Step-Down Switched Capacitor Voltage Converter	LM2788MM-1.8	SMD 131-2696	2.030	1.510	1.230	1.000	0.880
2797NSC	10	MSOP	120mA High Efficiency Step-Down Switched Capacitor Voltage Converter with Voltage Monitoring	LM2797MM-1.8	SMD 131-2700	2.260	1.720	1.370	1.190	1.140
2798NSC	10	MSOP	120mA High Efficiency Step-Down Switched Capacitor Voltage Converter with Voltage Monitoring	LM2798MM-1.5	SMD 131-2701	1.650	1.230	1.010	0.800	0.720
2798NSC	10	MSOP	120mA High Efficiency Step-Down Switched Capacitor Voltage Converter with Voltage Monitoring	LM2798MM-1.8	SMD 131-2702	1.530	1.130	0.930	0.830	0.810
2798NSC	10	MSOP	120mA High Efficiency Step-Down Switched Capacitor Voltage Converter with Voltage Monitoring	LM2798MM-2.0	SMD 131-2705	1.580	1.170	0.970	0.780	0.740
2800TI	8	SOIC	PWM Controller, Low Power Current Mode, BICMOS	UCC2800DG4	SMD 120-7394	2.440	2.030	1.830	– –	– –
2801TI	8	SOIC	PWM Controller, Low Power Current Mode, BICMOS	UCC2801DG4	SMD 120-7395	2.440	2.030	1.830	– –	– –
2802TI	8	SOIC	PWM Controller, Low Power Current Mode, BICMOS	UCC2802DG4	SMD 120-7396	2.440	2.030	1.740	– –	– –
2803TI	8	TSSOP	Low-Power BiCMOS Current-Mode PWM	UCC2803PW	SMD 146-1290	3.590	2.520	1.920	1.690	1.660
2804TI	8	SOIC	PWM Controller, Low Power Current Mode, BICMOS	UCC2804D	SMD 121-2380	2.770	2.460	1.830	– –	– –
2804TI	8	SOIC	PWM Controller, Low Power Current Mode, BICMOS	UCC2804D.	SMD 846-2810	0.550	– –	– –	– –	– –
2804TI	8	PDIP	Low-Power BICMOS Current-MODE PWM	UCC2804NG4	123-4817	3.490	2.610	1.980	1.780	1.600
2805TI	8	SOIC	Low-Power BICMOS Current-MODE PWM	UCC2805DG4	SMD 123-4726	2.680	2.010	1.520	1.420	1.380
2806TI	16	SOIC	PWM Controller, Low Power Dual Output	UCC2806DWG4	SMD 120-7397	5.080	4.510	4.390	– –	– –
2806TI	16	PDIP	Low Power, Dual OUTPUT, Current MODE PWM CONTROLLER	UCC2806NG4	123-4794	9.490	7.130	5.370	4.850	4.410
2808TI	8	SOIC	Low Power Current MODE PUSH-PULL PWM	UCC2808D-1G4	SMD 123-4873	2.010	1.500	1.140	1.090	1.060
2808TI	8	SOIC	Low Power Current MODE PUSH-PULL PWM	UCC2808D-2G4	SMD 123-4709	2.380	1.790	1.350	1.210	1.100
2809TI	8	SOIC	Economy Primary Side Controller	UCC2809D-1G4	SMD 123-4916	1.750	1.300	0.940	0.900	0.840
2809TI	8	SOIC	Economy Primary Side Controller	UCC2809D-2G4	SMD 123-5010	1.290	0.970	0.700	0.660	0.640
2813TI	8	SOIC	Low Power ECONOMY BICMOS Current MODE PWM	UCC2813D-2G4	SMD 123-4795	2.300	1.710	1.310	1.160	1.060
2813TI	8	SOIC	Low Power ECONOMY BICMOS Current MODE PWM	UCC2813DTR-4G4	SMD 123-5022	2.520	1.890	1.440	1.280	1.170
2813TI	8	SOIC	Low Power Economy BiCMOS Current Mode PWM	UCC2813D-0G4	SMD 132-9615	1.920	1.440	1.190	– –	– –
2813TI	8	SOIC	Low Power Economy BiCMOS Current Mode PWM	UCC2813D-1G4	SMD 132-9616	1.930	1.440	1.200	– –	– –
2813TI	8	SOIC	Low Power Economy BiCMOS Current Mode PWM	UCC2813D-3G4	SMD 132-9617	1.740	1.310	1.080	– –	– –
2813TI	8	SOIC	Low Power Economy BiCMOS Current Mode PWM	UCC2813D-4G4	SMD 132-9618	1.920	1.440	1.190	– –	– –
2813TI	8	SOIC	Pwm Controller, Cur-Mode	UCC2813D-5G4	SMD 132-9619	2.120	1.580	1.320	– –	– –
2825TI	16	WSOIC	Dual 2A Peak O/P 1MHz PWM Controller	UC2825ADW	NEW SMD 156-4874	5.670	4.670	4.150	3.400	2.880
2825TI	16	SOIC	High Speed PWM Controller	UC2825ADWG4	SMD 123-4741	5.420	4.060	3.060	2.760	2.510
2825TI	16	PDIP	High Speed PWM Controller	UC2825ANG4	123-4941	5.420	4.060	3.060	2.760	2.510
2825TI	16	SOIC	PMW Controller High Speed	UC2825DWG4	SMD 123-4677	2.960	2.210	1.680	1.500	1.380
2827TI	24	PDIP	Buck Current/Voltage Fed Push-Pull PWM Controllers	UC2827N-1	146-1239	6.290	4.370	3.640	3.280	3.230
2830NSC	5	SOT-23	High Frequency 1.0A Load - Step-Down DC-DC Regulator	LM2830XMF	SMD 127-1410	2.610	1.970	1.540	– –	– –
2830NSC	5	SOT-23	1A, 1.6MHz, Buck Voltage Regulator	LM2830XMF.	SMD 128-6715	1.600	1.420	1.150	0.960	0.940
2830NSC	5	SOT-23-5	3MHz, 1.0A Load - Step-Down DC-DC Regulator	LM2830ZMF.	SMD 128-6716	2.940	2.230	1.750	1.430	1.330
2831NSC	5	SOT-23-5	1.6MHz, 1.5A Load - Step-Down DC-DC Regulator	LM2831XMF.	SMD 128-6718	1.820	1.500	1.290	1.260	1.230
2831NSC	5	SOT-23	1.5A, 550 KHz, Buck Voltage Regulator	LM2831YMF/NOPB	SMD 128-6714	1.490	1.370	1.250	1.130	1.010
2831NSC	5	SOT-23-5	3MHz, 1.5A Load - Step-Down DC-DC Regulator	LM2831ZMF	SMD 127-1413	2.640	1.880	1.550	– –	– –
2831NSC	5	SOT-23-5	3MHz, 1.5A Load - Step-Down DC-DC Regulator	LM2831ZMF.	SMD 128-6719	2.970	2.640	2.170	1.710	1.660
2832NSC	8	eMSOP	1.6MHz, 2.0A Load - Step-Down DC-DC Regulator	LM2832XMY	SMD 127-1414	3.880	2.930	2.300	– –	– –
2832NSC	8	eMSOP	0.55MHz, 2.0A Load - Step-Down DC-DC Regulator	LM2832YMY	SMD 127-1415	1.960	1.630	1.390	– –	– –
2832NSC	8	eMSOP	3MHz, 2.0A Load - Step-Down DC-DC Regulator	LM2832ZMY	SMD 127-1417	3.110	2.220	1.830	– –	– –
2832NSC	8	eMSOP	3MHz, 2.0A Load - Step-Down DC-DC Regulator	LM2832ZMY.	SMD 128-6722	2.650	2.360	1.930	1.740	1.700
2842ST	8	SOIC	High Performance Pulse Width Modulation Controller	E-UC2842BD1	SMD 988-2499	0.840	0.660	0.550	– –	– –
2842ST	8	SOIC	High Performance Pulse Width Modulation Controller	UC2842AD1	SMD 323-6330	0.440	0.380	0.370	– –	– –
2842TI	8	SOIC	Current Mode PWM Controller	UC2842AD8G4	SMD 123-5019	1.570	1.180	0.900	0.810	0.730
2842TI	14	SOIC	Current Mode PWM Controller	UC2842ADG4	SMD 123-5042	1.570	1.180	0.900	0.810	0.730
2842TI	8	PDIP	Current Mode PWM Controller	UC2842NG4	123-5009	1.680	1.250	0.940	0.850	0.790
2842TI	8	PDIP	Current Mode PWM Controller	UC2842AN	146-1241	1.920	1.310	0.940	0.870	0.810
2843TI	14	SOIC	Current Mode PWM Controller	UC2843AD	SMD 146-1244	1.920	1.310	0.940	0.870	0.810
2843ST	8	SOIC	High Performance Pulse Width Modulation Controller	E-UC2843BD1	SMD 988-2502	0.840	0.590	0.500	– –	– –
2843TI	8	SOIC	Current Mode PWM Controller	TL2843D-8	SMD 123-6516	0.550	0.470	0.390	0.310	0.230
2843TI	8	PDIP	Current Mode PWM Controller	UC2843ANG4	123-4965	1.430	1.070	0.820	0.730	0.660
2843TI	8	SOIC	Automotive CataLog Current-Mode Pwm Controller	UC2843AQD8	SMD 123-6605	1.600	1.200	0.910	0.820	0.750
2843ON	8	SOIC	High Performance Current Mode Controller	UC2843BD1G	SMD 110-4705	0.630	0.490	0.370	– –	– –
2843ON	8	PDIP	ADVANCED PWM Controller	UC2843BNG	123-0088	0.550	0.460	0.390	0.310	0.280
2843TI	8	SOIC	PWM Controller	UC2843D8G4	SMD 120-7369	1.180	0.990	0.900	– –	– –
2843TI	8	PDIP	Current Mode PWM Controller	UC2843NG4	123-4827	1.170	0.880	0.660	0.580	0.570
2844TI	14	SOIC	Current-Mode PWM Controller	UC2844AD	SMD 146-1247	1.920	1.310	0.940	0.870	0.810
2844ST	8	SOIC	High Performance Pulse Width Modulation Controller	E-UC2845BD1	SMD 988-2510	0.840	0.590	0.500	– –	– –
2844TI	8	SOIC	Current Mode PWM Controller	UC2844AD8G4	SMD 123-4747	1.570	1.180	0.900	0.810	0.730
2844TI	8	PDIP	Current Mode PWM Controller	UC2844ANG4	123-4880	1.430	1.070	0.820	0.730	0.660
2844TI	8	PDIP	Current Mode PWM Controller	UC2844NG4	123-4904	1.570	1.180	0.900	0.810	0.730
2845TI	8	SOIC	PWM Controller	UC2845AD8G4	SMD 120-7370	1.310	1.090	0.960	– –	– –
2845TI	14	SOIC	Current Mode PWM Controller	UC2845ADG4	SMD 123-5020	1.270	0.950	0.730	0.670	0.650
2845TI	8	PDIP	Current Mode PWM Controller	UC2845ANG4	123-4849	1.660	1.260	0.960	0.850	0.780
2845TI	14	SOIC	Automotive CataLog Current-Mode Pwm Controller	UC2845AQD	SMD 123-6606	1.780	1.350	1.020	0.910	0.830
2845TI	14	SOIC	Current Mode PWM Controller	UC2845DG4	SMD 123-4881	2.020	1.500	1.140	1.030	0.930
2845TI	8	PDIP	Current Mode PWM Controller	UC2845NG4	123-4893	2.020	1.500	1.140	1.030	0.930
2846TI	16	SOIC	Current Mode PWM Controller	UC2846DWG4	SMD 123-4762	2.290	1.720	1.300	1.200	1.170
2846TI	8	SOIC	PMW Controller Current Mode	UC2846NG4	123-4664	3.300	2.470	1.860	1.690	1.530
2854TI	16	SOIC	Enhanced High Power Factor Pre-Regulator	UC2854ADWG4	SMD 123-4987	2.820	2.130	1.660	1.550	1.450
2854TI	16	SOIC	Power Factor PreRegulator, Enhanced	UC2854BDWG4	SMD 120-7371	1.600	1.430	1.390	– –	– –
2854TI	16	PDIP	Enhanced High Power Factor Pre-Regulator	UC2854BNG4	123-4866	2.820	2.130	1.660	1.550	1.450
2854TI	16	SOIC	High Power Factor Pre-Regulator	UC2854DWG4	SMD 123-5021	2.550	1.930	1.490	1.400	1.300
2854TI	16	PDIP	High Power Factor Pre-Regulator	UC2854NG4	123-4724	1.890	1.430	1.330	1.290	1.260
2875TI	20	PDIP	Phase Shift Controller	UC2875NG4	120-7372	8.020	6.680	5.680	– –	– –
2891TI	16	SOIC	PWM Controller, Current Mode Active ClAmp	UCC2891D	SMD 846-2933	3.010	2.050	1.530	– –	– –
2892TI	16	SOIC	PWM Controller, Current Mode Active ClAmp	UCC2892D	SMD 846-2941	2.900	1.980	1.470	– –	– –
2895TI	20	SOIC	Phase Shift Controller BICMOS	UCC2895DWG4	SMD 120-7401	7.790	6.490	5.700	– –	– –
2903TI	18	SOIC	Quad Supply and Line Monitor	UC2903DWG4	SMD 123-4966	4.450	3.370	2.600	2.450	2.290
2906TI	16	SOIC	Battery Charger	UC2906DWG4	SMD 120-7373	4.110	3.430	2.610	– –	– –
2906TI	16	PDIP	Battery Charger	UC2906NG4	SMD 120-7375	4.110	3.430	2.610	– –	– –
2924LT	16	SSOP	Power Supply On/Off Sequencer	LTC2924CGN#PBF	SMD 127-3922	3.200	2.130	1.780	– –	– –
2950TI	5	TO	Half-Bridge Switch	UC2950TG3	SMD 120-7376	4.100	3.430	2.940	– –	– –
2953LT	12	DFN	Pushbutton On/Off Controller with Voltage Monitoring DC/DC Converter Control	LTC2953CDD-1#PBF	SMD 143-2761	4.350	2.650	2.090	– –	– –
2953LT	12	DFN	Pushbutton On/Off Controller with Voltage Monitoring Circuit Breaker Control	LTC2953CDD-2#PBF	SMD 143-2762	4.350	2.650	2.090	– –	– –

RL Re-reeling available

Power Supply ICs - continued

Mftr.	Pins	Package	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
2953LT	12	DFN	Pushbutton On/Off Controller with Voltage Monitoring DC/DC Converter Control	LTC2953IDD-1#PBF	SMD 143-2763	5.230	3.170	2.500	– –	– –
2953LT	12	DFN	Pushbutton On/Off Controller with Voltage Monitoring Circuit Breaker Control	LTC2953IDD-2#PBF	SMD 143-2764	5.230	3.170	2.500	– –	– –
2995NSC	6	SOT-23	DDR Termination Regulator	LP2995LQ	SMD 131-2852	1.110	0.880	0.710	0.630	0.570
2996NSC	6	SOT-23	DDR Termination Regulator	LP2996LQ	SMD 131-2853	0.920	0.730	0.590	0.530	0.470
3037IR	8	SOIC	PWM 400 KHz Sync Controller	IRU3037ACSPBF	SMD 102-3270	0.980	0.610	0.550	– –	– –
3037IR	8	SOIC	PWM 200 KHz Sync Controller	IRU3037CSPBF	SMD 102-3271	1.200	0.750	0.630	– –	– –
3051ADI	8	MSOP	500 mA Synchronous Buck Switching Regulator	ADP3051ARMZ-REEL7	NEW SMD 165-1331	3.870	3.020	2.470	2.260	2.170
3063ON	8	PDIP	DC/DCConverter, Switch,Buck-Boost,INV,1.5A,0°C to 70°C	NCP3063PG	136-9735	0.490	0.400	0.330	0.290	0.270
3063ON	8	PDIP	DC/DCConverter, Switch,Buck-Boost,INV,1.5A,-40°C to 125°C	NCP3063BPG	136-9734	0.760	0.560	0.490	0.410	0.300
3075NSC	20	TSSOP	High Efficiency, Synchronous Current Mode Buck Controller	LM3075MTC	SMD 128-6871	3.280	2.280	1.850	1.660	1.550
3100NSC	20	TSSOP	BUCK Voltage Regulator, 1.5A	LM3100MH	SMD 128-6748	4.310	2.790	2.040	– –	– –
3150LT	16	SSOP	Ultra -Fast Transient Response	LT3150CGN#PBF	SMD 127-3642	6.830	4.450	3.730	– –	– –
3150NSC	14	TSSOP	42V Synchronous Step-Down	LM3150	NEW SMD 165-7739	3.560	3.170	2.580	2.380	2.030
3151NSC	14	TSSOP	42V Synchronous Step-Down	LM3151-3.3	NEW SMD 165-7740	3.560	3.170	2.580	2.380	2.030
3152NSC	14	TSSOP	42V Synchronous Step-Down	LM3152-3.3	NEW SMD 165-7741	3.560	3.170	2.580	2.380	2.030
3153NSC	14	TSSOP	42V Synchronous Step-Down	LM3153-3.3	NEW SMD 165-7742	3.440	3.050	2.500	2.290	1.960
3163ON	18	DFN	DC/DC Converter Step Up/Down Inverting Switching Reg 1.4A	NCP3163MNR2G	SMD 136-9736	2.010	1.510	1.290	1.150	1.110
3172MICR	8	SOIC	100kHz 1.25A Switching Regulators	MIC3172YM	NEW SMD 155-6714	2.980	2.180	1.780	– –	– –
3200LT	6	SOT-23	Low Noise, Regulated Charge Pump DC/DC Converter	LTC3200ES6-5#TRMPBF	NEW SMD 166-3891	3.080	2.380	1.910	1.590	1.420
3200LT	8	MSOP	100mA Low Noise Charge Pump	LTC3200EMS8#PBF	SMD 127-3924	3.050	2.040	1.700	– –	– –
3202NSC	8	Bump Micro SMD	650mA Miniature, Adjustable, Step-Down DC-DC Converter for RF Power Amplifiers	LM3202TL	SMD 128-6872	2.450	2.020	1.910	1.860	1.810
3203NSC	10	Bump Micro SMD	Miniature, Adjustable, Step-Down DC-DC Converter with Bypass Mode for RF Power Amplifiers	LM3203TL	SMD 128-6873	2.400	1.970	1.680	1.500	1.390
3204LT	6	DFN	Low Noise Regulated Charge Pump	LTC3204BEDC-5#TRMPBF	NEW SMD 166-3892	3.020	2.340	1.870	1.570	1.400
3204NSC	10	Bump Micro SMD	Miniature, Adjustable, Step-Down DC-DC Converter with Bypass Mode for RF Power Amplifiers	LM3204TL	SMD 128-6874	2.380	1.960	1.660	1.570	1.530
3205NSC	8	Bump Micro SMD	650mA Miniature, Adjustable, Step-Down DC-DC Converter for RF Power Amplifiers	LM3205TL	SMD 128-6807	2.600	2.040	1.670	1.560	1.520
3207NSC	9	Bump Micro SMD	Miniature, Adjustable, Step-Down DC-DC Converter for RF Power Amplifiers with Integrated Vref LDO	LM3207TL	SMD 129-0942	3.840	3.000	2.200	– –	– –
3211NSC	20	TSSOP	Step-up PWM DC/DC Converter Integrated with 4 Buffers	LM3211MT-ADJ	SMD 128-6875	3.880	2.860	2.360	1.880	1.680
3224NSC	8	MSOP	615kHz/1.25MHz Step-up PWM DC/DC Converter	LM3224MM-ADJ	SMD 100-8010	2.750	1.860	1.520	– –	– –
3310NSC	24	LLP	Step-Up PWM DC/DC Converter with Integrated Op-Amp and Gate Pulse Modulation Switch	LM3310SQ	SMD 131-2711	2.000	1.500	1.220	1.050	0.980
3311NSC	24	LLP	Step-Up PWM DC/DC Converter with Integrated LDO, Op-Amp, and Gate Pulse Modulation Switch	LM3311SQ	SMD 131-2712	2.120	1.610	1.310	1.090	0.980
3325TI	3	SOT-23	30ppm/C Drift 2.5V Voltage Reference	REF3325AIDBZT	NEW SMD 164-7889	1.560	1.160	0.950	0.890	0.810
3351NSC	8	MSOP	Switched Capacitor Voltage Converter 3.3V to 5V or 5V to 3.3V	LM3351MM/NOPB	NEW SMD 168-5645	1.370	1.130	0.930	0.850	0.750
3354NSC	10	MSOP	Regulated 90mA Buck-Boost Switched Capacitor DC/DC	LM3354MM-1.8	SMD 131-2713	2.830	2.130	1.740	1.450	1.310
3354NSC	10	MSOP	Regulated 90mA Buck-Boost Switched Capacitor DC/DC	LM3354MM-3.7	SMD 131-2714	2.530	1.920	1.510	1.340	1.270
3355NSC	10	MSOP	Regulated 90mA Buck-Boost Switched Capacitor DC/DC	LM3355MM-4.1	SMD 131-2715	2.000	1.510	1.200	1.060	1.000
3370NSC	16	LLP	Dual Synchronous Step-Down DC-DC Converter with Dynamic Voltage Scaling Function	LM3370SD-3013	SMD 131-2562	3.270	2.470	2.020	1.690	1.510
3370NSC	16	LLP	Dual Synchronous Step-Down DC-DC Converter with Dynamic Voltage Scaling Function	LM3370SD-3021	SMD 131-2563	2.540	1.910	1.550	1.330	1.200
3370NSC	16	LLP	Dual Synchronous Step-Down DC-DC Converter with Dynamic Voltage Scaling Function	LM3370SD-3416	SMD 131-2564	2.490	1.880	1.510	1.300	1.240
3370NSC	16	LLP	Dual Synchronous Step-Down DC-DC Converter with Dynamic Voltage Scaling Function	LM3370SD-3806	SMD 131-2565	2.540	1.920	1.540	1.330	1.270
3370NSC	16	LLP	Dual Synchronous Step-Down DC-DC Converter with Dynamic Voltage Scaling Function	LM3370SD-4221	SMD 131-2566	3.420	2.570	2.090	1.770	1.580
3400SLAB	20	QFN	11W 350mA Power-over-Ethernet Powered Device Controller	SI3400-E1-GM	NEW SMD 160-3183	2.360	1.840	1.650	1.500	1.180
3401SLAB	20	QFN	17W 470mA Power-over-Ethernet Powered Device Controller	SI3401-E1-GM	NEW SMD 160-3184	2.420	1.880	1.690	1.540	1.210
3401NSC	8	Mini SOIC	Hysteretic PFET Controller for High Power LED Drive	LM3401MM	SMD 149-5068	1.660	1.270	1.150	1.060	0.980
3401LT	10	MSOP	1Cell 3MHz 1A Synch Boost	LTC3401EMS#PBF	SMD 127-3925	5.200	2.940	2.120	– –	– –
3402LT	10	MSOP	1Cell 3MHz 2A Synch Boost	LTC3402EMS#PBF	SMD 127-3926	6.740	3.810	2.750	– –	– –
3404NSC	8	PSOP	1A Buck Regulator	LM3404HVMR	SMD 137-0036	3.530	2.840	2.350	1.990	1.810
3404LT	8	MSOP	1.4MHz High Eff Synch Step-dn Reg	LTC3404EMS8#PBF	SMD 127-3927	5.440	3.070	2.410	– –	– –
3405LT	6	SOT-23	1.5MHz, 300mA Synchronous Step-Down Regulator	LTC3405AES6-1.8#TRMPBF	NEW SMD 166-3893	3.130	2.430	1.940	1.610	1.450
3406LT	5	SOT-23	1.5MHz, 600mA Synchronous Step-Down Regulator	LTC3406ABES5#TRMPBF	NEW SMD 166-3894	3.440	2.670	2.130	1.780	1.590
3406LT	5	SOT-23	1.5MHz, 600mA Synchronous Step-Down Regulator	LTC3406BES5#TRMPBF	NEW SMD 166-3895	3.760	2.910	2.330	1.940	1.740
3406LT	5	SOT-23	1.5MHz, 600mA Synchronous Step-Down Regulator	LTC3406ES5#TRMPBF	NEW SMD 166-3897	3.760	2.910	2.330	1.940	1.740
3406LT	5	SOT-23	1.5MHz, 600mA Synchronous Step-Down Regulator	LTC3406ES5-1.5#TRMPBF	NEW SMD 166-3898	3.760	2.910	2.330	1.940	1.740
3406LT	5	SOT-23	1.5MHz, 600mA Synchronous Step-Down Regulator	LTC3406ES5-1.8#TRMPBF	NEW SMD 166-3899	3.760	2.910	2.330	1.940	1.740
3411LT	10	MSOP	4MHz, 1.25A Synch Step-dwn Regulator	LTC3411EMS#PBF	SMD 127-3928	5.780	3.860	3.220	– –	– –
3411LT	10	DFN	1.25A, 4MHz, Synchronous Step-Down DC/DC Converter	LTC3411EDD#PBF	NEW SMD 166-3708	5.860	4.540	3.630	3.030	2.710
3412LT	16	QFN	2.5A 4MHz, Monolithic Synchronous Step-Down Regulator	LTC3412AEUF#PBF	NEW SMD 166-3709	6.300	4.880	3.900	3.260	2.920
3412LT	16	TSSOP	4 MHz, 2.5A Synch Step-dwn Reg	LTC3412EFE#PBF	SMD 127-3931	7.450	4.540	3.580	– –	– –
3413LT	16	TSSOP	2MHz, 3A Synch Regulator for DDR	LTC3413EFE#PBF	SMD 127-3538	7.450	4.600	3.590	– –	– –
3414LT	20	TSSOP	4MHz, 4A Synch Step-dwn Regulator	LTC3414EFE#PBF	SMD 127-3932	8.510	4.880	3.850	– –	– –
3416LT	20	TSSOP	4MHz, 4A Synch Step-dwn Regulator	LTC3416EFE#PBF	SMD 127-3933	8.860	5.910	4.950	– –	– –
3418LT	38	QFN	8A, 4MHz, Monolithic Synchronous Step-Down Regulator	LTC3418EUHF#PBF	NEW SMD 166-3710	11.150	8.640	6.910	5.770	5.150
3420NSC	5	SOT-23	Lithium-Ion Battery Charge Controller - one cell application	LM3420M5-4.2	SMD 977-9663	1.380	1.050	0.820	0.760	0.700
3420LT	10	MSOP	1.4A PhotoFlash Capacitor Charger	LT3420EMS#PBF	SMD 127-3497	4.730	2.870	2.260	– –	– –
3421LT	24	QFN	3A, 3MHz Synch Boost Converter	LTC3421EUF#PBF	SMD 127-3934	4.710	3.130	2.930	– –	– –
3423ON	8	DIP	OverVoltage Crowbar Protection IC	MC3423P1G	119-0534	0.990	0.730	0.540	– –	– –
3432NSC	24	LLP	Regulator, current, 6-channel	LM3432SQ	SMD 135-9426	2.690	2.180	1.800	1.540	1.380
3425LT	32	QFN	8MHz 5A 4-Phase Sync Boost Convtr	LTC3425EUH#PBF	SMD 127-3937	7.900	5.270	4.400	– –	– –
3426LT	6	SOT-23	1.2MHz Step-Up DC/DC Converter	LTC3426ES6#TRMPBF	NEW SMD 166-3900	3.380	2.620	2.100	1.750	1.570
3427LT	6	DFN	500mA, 1.25MHz Synchronous Step-Up DC/DC Converter	LTC3427EDC#TRMPBF	NEW SMD 166-3901	3.410	2.630	2.110	1.760	1.580
3429LT	6	SOT-23	600mA, 500kHz Micropower Synchronous Boost Converter	LTC3429ES6#TRMPBF	NEW SMD 166-3903	3.730	2.890	2.320	1.930	1.730
3430LT	16	TSSOP	3A, 200kHz Step-Down Switching Regulator	LT3430IFE#PBF	NEW SMD 166-3554	10.420	8.070	6.460	5.380	4.820
3430LT	16	TSSOP	3A, 200kHz Step-dwn Converter	LT3430EFE#PBF	SMD 127-3807	9.340	5.690	4.480	– –	– –
3430NSC	10	MSOP	40V Low Side Controller for Boost and SEPIC	LM3430SD	SMD 132-5424	1.060	0.890	0.730	0.690	0.670
3431LT	16	TSSOP	3A, 500kHz Step-dwn Converter	LT3431EFE#PBF	SMD 127-3808	9.340	5.690	4.480	– –	– –
3432NSC	24	LLP	Regulator, current, 6-channel	LM3432SQ	SMD 135-9426	2.690	2.180	1.800	1.540	1.380
3433LT	16	TSSOP	200kHz, 500mA, High Voltage Buck-Boost Converter	LT3433EFE#PBF	SMD 127-3809	6.140	3.730	2.940	– –	– –
3434LT	16	TSSOP	3A, 200kHz Step-dwn Converter w/ 100uA	LT3434EFE#PBF	SMD 127-3810	9.480	6.320	5.290	– –	– –
3435LT	16	TSSOP	500kHz Version of LT3434 (200kHz)	LT3435EFE#PBF	SMD 127-3811	9.480	6.320	5.290	– –	– –
3436LT	16	TSSOP	3A, 800kHz Step-Up Regulator	LT3436EFE#PBF	SMD 127-3812	4.960	3.310	2.770	– –	– –
3437LT	16	TSSOP	60V, 500mA, 200kHz Step-down Converter w/ BurstMode	LT3437EFE#PBF	SMD 127-3813	4.180	2.780	2.340	– –	– –
3439LT	16	TSSOP	Ultra Low Noise 1A Sw Reg	LT3439EFE#PBF	SMD 127-3815	6.620	4.020	3.170	– –	– –
3440LT	10	MSOP	600mA, 2MHz Synch, Buck-Boost Coverter	LTC3440EMS#PBF	SMD 127-3938	5.510	3.110	2.440	– –	– –
3441LT	12	DFN	1A, uP Synch. Buck-Boost Converter	LTC3441EDE#PBF	SMD 127-3939	6.710	4.080	3.220	– –	– –
3442LT	12	DFN	High Current, 2MHz, uP Synch, Buck Boost in DFN	LTC3442EDE#PBF	SMD 127-3940	7.560	4.270	3.240	– –	– –
3443LT	12	DFN	1A, 600kHz Synch, Buck-Boost Converter	LTC3443EDE#PBF	SMD 127-3941	6.710	3.790	2.910	– –	– –
3448LT	8	MSOP	600mA, Synch Step-Down Reg in DFN	LTC3448EMS8E#PBF	SMD 127-3943	3.700	2.460	2.080	– –	– –
3455LT	24	QFN	Dual DC/DC Converter w/USB Power mAnagement and Li-Ion Charger	LTC3455EUF#PBF	SMD 127-3944	7.150	4.760	3.980	– –	– –

RL Re-reeling available

Mftr.	Pins	Package	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
3458LT	12	DFN	1.4A, 1.5MHz Synch Boost Converter	LTC3458EDE#PBF	SMD 127-3945●	5.950	3.970	3.330	– –	– –
3460SLAB	11	QFN	15.4W 340mA Power Sourcing Equipment & DC/DC Controller	SI3460-D01-GM	NEW SMD 160-3185●	2.130	1.650	1.490	1.350	1.060
3460LT	5	SOT-23	1.3MHz Step-Up DC/DC Converter	LT3460ES5#TRMPBF	NEW SMD 166-3819●	3.020	2.340	1.870	1.570	1.400
3461LT	6	SOT-23	1.3MHz Step-Up DC/DC Converters	LT3461AES6#TRMPBF	NEW SMD 166-3820●	3.200	2.490	1.990	1.660	1.490
3461LT	6	SOT-23	1.3MHz Step-Up DC/DC Converters	LT3461ES6#TRMPBF	NEW SMD 166-3821●	3.200	2.490	1.990	1.660	1.490
3462LT	6	SOT-23	Inverting 1.2MHz DC/DC Converters	LT3462ES6#TRMPBF	NEW SMD 166-3822●	3.940	3.050	2.440	2.030	1.820
3463LT	10	D2PAK	Dual Micropower DC/DC Converter	LT3463AEDD#PBF	NEW SMD 166-3555●	3.580	2.770	2.210	1.840	1.660
3463LT	10	D2PAK	Dual Micropower DC/DC Converter	LT3463EDD#PBF	NEW SMD 166-3556●	3.580	2.770	2.210	1.840	1.660
3464LT	8	SOT-23	Micropower Boost Converter with Integrated Schottky	LT3464ETS8#TRMPBF	NEW SMD 166-3824●	3.020	2.340	1.870	1.570	1.400
3467LT	6	SOT-23	1.1A Step-Up DC/DC Converter	LT3467AES6#TRMPBF	NEW SMD 166-3827●	3.380	2.620	2.100	1.750	1.570
3467LT	6	SOT-23	1.1A Step-Up DC/DC Converter	LT3467ES6#TRMPBF	NEW SMD 166-3828●	3.380	2.620	2.100	1.750	1.570
3468LT	5	SOT-23	Photoflash Capacitor Charger	LT3468ES5#TRMPBF	NEW SMD 166-3829●	3.760	2.910	2.330	1.940	1.740
3470LT	8	SOT-23	Micropower Buck Regulator with Integrated Boost and Catch Diodes	LT3470ETS8#TRMPBF	NEW SMD 166-3831●	4.390	3.410	2.720	2.270	2.030
3470LT	8	SOT-23	Micropower Buck Regulator with Integrated Boost and Catch Diodes	LT3470ITS8#TRMPBF	NEW SMD 166-3833●	5.230	4.060	3.250	2.700	2.420
3471LT	10	DFN	Dual 1.3A, 1.2MHz Boost/Inverter	LT3471EDD#PBF	NEW SMD 166-3557●	5.130	3.970	3.180	2.650	2.370
3473LT	8	DFN	Micropower 1A Boost Converter	LT3473EDD#PBF	NEW SMD 166-3558●	3.580	2.770	2.210	1.840	1.660
3475NSC	5	SOT-23	Hysteretic PFET Buck Controller	LM3475MF	SMD 100-8244●	1.080	0.870	0.800	– –	– –
3477NSC	8	MSOP	High-side N-channel controller for switching Regulator	LM3477MM	SMD 977-9191●	1.300	1.010	0.780	– –	– –
3477LT	20	TSSOP	3A, 42V, 3MHz Step- Up Regulator	LT3477EFE#PBF	SMD 127-3817●	6.240	3.790	2.990	– –	– –
3479LT	16	TSSOP	3A, 42V, 3MHz Step- Up Regulator	LT3479EFE#PBF	SMD 127-3818●	5.670	3.210	2.450	– –	– –
3480LT	10	DFN	38V, 2A, 2.4MHz Step-Down Switching Regulator	LT3480EDD#PBF	NEW SMD 166-3561●	6.310	4.890	3.920	3.270	2.920
3480LT	10	MSOP	38V, 2A, 2.4MHz Step-Down Switching Regulator	LT3480EMSE#PBF	NEW SMD 166-3563●	6.500	5.040	4.030	3.360	3.010
3481LT	10	MSOP	36V, 2A, 2.8MHz Step-Down Switching Regulator	LT3481EMSE#PBF	NEW SMD 166-3564●	5.950	4.610	3.690	3.080	2.760
3481LT	10	DFN	1.265V to 20V 2A O/P, 2.8MHz Step-Down Switching Regulator	LT3481HDD	NEW SMD 167-3559●	7.840	5.970	5.020	4.180	3.590
3481LT	10	MSOP	1.265V to 20V 2A O/P, 2.8MHz Step-Down Switching Regulator	LT3481HMSE	NEW SMD 167-3560●	7.840	5.970	5.020	4.180	3.590
3482LT	16	QFN	90V Boost DC/DC Converter with APD Current Monitor	LT3482IUD#PBF	SMD 132-9361●	7.430	6.590	5.830	5.160	3.330
3486LT	16	TSSOP	Dual 1.3A White LED Step-up Convtr With PWM Dimming	LT3486EFE#PBF	SMD 127-3499●	4.910	2.990	2.360	– –	– –
3487LT	10	DFN	Boost and Inverting Switching Regulator	LT3487EDD#PBF	NEW SMD 166-3565●	4.210	3.270	2.610	2.180	1.950
3488NSC	8	MSOP	High efficiency, Low side N-channel controller for switching Regulators	LM3488MM	SMD 977-8888● RL	1.900	1.130	0.900	– –	– –
3493LT	6	DFN	1.2A, 750kHz Step-Down Switching Regulator	LT3493EDCB#TRMPBF	NEW SMD 166-3837●	5.050	3.920	3.130	2.610	2.340
3495NSC	16	TSSOP	PWM BUCK Voltage Regulator Controller	LM3495MTC	SMD 128-6749●	3.900	3.150	2.320	– –	– –
3500LT	16	MSE	2A Step-Down Linear Regulator/Controller	LT3500EMSE#PBF	NEW SMD 167-3517●	6.330	4.820	4.050	3.380	2.890
3501LT	20	TSSOP	Dual Tracking 3A Step-Down Switching Regulator	LT3501EFE#PBF	NEW SMD 166-3567●	6.410	4.970	3.970	3.310	2.960
3501LT	20	TSSOP	3A Step-Down Switching Regulator	LT3501IFE#PBF	SMD 132-9369●	7.560	6.690	5.930	5.240	3.280
3502LT	10	MSOP	1.1MHz/2.2MHz, 500mA Step-Down Regulator	LT3502EMS	NEW SMD 167-3561●	3.870	2.950	2.470	2.070	1.770
3502LT	8	DFN	2.2MHz, 500mA Step-Down Regulator	LT3502AIDC#TRMPBF	NEW SMD 166-3839●	4.370	3.390	2.710	2.260	2.020
3503LT	6	DFN	1A, 2.2MHz Step-Down Switching Regulator	LT3503EDCB#PBF	SMD 132-9360●	4.040	3.590	3.170	2.820	1.890
3505LT	8	DFN	1.2A, Step-Down Switching Regulator	LT3505EDD#PBF	NEW SMD 166-3568●	4.390	3.410	2.720	2.270	2.030
3505LT	8	MSOP	1.2A, Step-Down Switching Regulator	LT3505EMS8E#PBF	NEW SMD 166-3569●	4.760	3.690	2.950	2.460	2.200
3505LT	8	MSOP	1.2A, Step-Down Switching Regulator	LT3505IMS8E#PBF	SMD 132-9374●	5.530	4.900	4.350	3.850	2.420
3508LT	24	QFN	Dual 1.4A Step-Down Switching Regulator	LT3508EUF#PBF	NEW SMD 166-3570●	6.130	4.760	3.800	3.170	2.840
3508LT	16	TSSOP	Dual 1.4A Step-Down Switching Regulator	LT3508IFE#PBF	NEW SMD 166-3571●	7.680	5.960	4.770	3.970	3.550
3510LT	20	TSSOP	Dual Tracking 2A Step-Down Switching Regulator	LT3510EFE#PBF	NEW SMD 166-3572●	5.950	4.610	3.690	3.080	2.760
3524NSC	16	DIP	Switched Mode Power Supply Circuit. (Improved version of the Industry Standard 3524)	LM3524DN	948-8162●	1.670	1.130	0.920	0.870	0.810
3524TI	16	SOIC	Switched Mode Power Supply Circuit	SG3524D	SMD 110-3188●	0.740	0.530	0.410	– –	– –
3524ST	16	DIP	Switched Mode Power Supply Circuit	SG3524N	109-4322●	1.070	0.860	0.730	0.640	0.560
3524TI	16	DIP	Switched Mode Power Supply Circuit	SG3524N	110-6088●	0.740	0.530	0.410	– –	– –
3524TI	16	DIP	Switched Mode Power Supply Circuit	SG3524N..	559-192	0.860	0.520	0.440	– –	– –
3524TI	16	SOIC	Advanced Regulating Pulse Width Modulators	UC3524ADWG4	SMD 123-4693●	2.960	2.210	1.680	1.500	1.380
3524UNI	16	DIP	Enhanced Switched Mode Power Supply Circuit	UC3524AN	110-1413●	3.080	2.210	1.650	1.510	– –
3525LT	6	SC70	400mA Micropower Synchronous Step-Up	LTC3525ESC6-3.3#TRMPBF	NEW SMD 166-3904●	3.380	2.620	2.100	1.750	1.570
3525LT	6	SC70	400mA Micropower Synchronous Step-Up	LTC3525ESC6-5#TRMPBF	NEW SMD 166-3905●	3.380	2.620	2.100	1.750	1.570
3525ST	16	PDIL	5.1V Ref. PWM Controller 100 Hz to 500kHz	SG3525AN	NEW 156-4368●	0.740	0.590	0.520	0.430	0.360
3525TI	16	SOIC	Regulating Pulse-Width Modulator	UC3525ADWG4	SMD 123-4711●	1.830	1.380	1.060	0.930	0.850
3525TI	16	PDIP	PWM Controller	UC3525ANG4	120-7377●	2.410	2.030	1.630	– –	– –
3526LT	6	DFN	500mA 1MHz Synchronous Step-Up	LTC3526BEDC#TRMPBF	NEW SMD 166-3906●	3.290	2.550	2.040	1.700	1.520
3526TI	18	SOIC	Regulating Pulse-Width Modulator	UC3526ADWG4	SMD 123-4800●	1.270	0.950	0.730	0.670	0.650
3526UNI	18	DIP	PWM Controller up to 400kHz operation With Dual source/sink output drivers for Power MOS. NORLogic output.	UC3526AN	110-1440●	1.890	1.370	1.020	– –	– –
3526UNI	18	SOIC	PWM Controller up to 600kHz operation With Dual source/sink output drivers for Power MOS. NORLogic output.	UC3526DW	SMD 110-1441●	1.890	1.430	1.030	– –	– –
3526TI	18	PDIP	PWM Controller	UC3526NG4	120-7378●	1.490	1.120	0.820	– –	– –
3530LT	10	MSOP	Wide Input Voltage Synchronous Buck-Boost DC/DC Converter	LTC3530EMS#PBF	SMD 132-9368●	5.200	3.410	2.580	2.280	1.950
3531LT	8	DFN	200mA Buck-Boost Synchronous	LTC3531EDD#PBF	NEW SMD 166-3711●	3.580	2.770	2.210	1.840	1.660
3533LT	14	DFN	2A Voltage Synchronous Buck-Boost	LTC3533EDE#PBF	NEW SMD 166-3712●	6.520	5.050	4.040	3.370	3.020
3538LT	8	DFN	800mA Synchronous Buck-Boost	LTC3538EDCB#TRMPBF	NEW SMD 166-3907●	4.760	3.690	2.950	2.460	2.200
3543LT	6	DFN	600mA Synchronous Step Down Buck Regulator	LTC3543EDCB#PBF	SMD 132-9363●	3.520	3.110	2.760	2.440	1.570
3545LT	16	QFN	Triple 800mA Synchronous Step Down Regulator 2.25MHz	LTC3545EUD#PBF	NEW SMD 162-8761●	4.900	4.350	3.560	3.270	2.790
3547LT	8	DFN	300mA Synchronous Step-Down Regulator	LTC3547EDDB#PBF	SMD 132-9372●	3.520	3.110	2.760	2.440	1.560
3547LT	8	DFN	Reg,Step Down, 0.3A Synch.	LTC3547EDDB-1#PBF	SMD 132-9373●	3.520	3.110	2.760	2.440	1.570
3555LT	28	QFN	High Efficiency USB Power Manager, Triple Step-Down DC/DC	LTC3555EUFD#PBF	NEW SMD 166-3713●	8.480	6.570	5.260	4.380	3.930
3557LT	28	QFN	USB Power Manager with Li-Ion Charger and Three Step-Down Regulator	LTC3557EUF#PBF	NEW SMD 166-3714●	7.230	5.610	4.480	3.730	3.350
3559LTC	16	QFN	Linear USB Battery Charger with Dual Buck Regulator	LTC3559EUD#PBF.	NEW SMD 164-8023●	3.160	2.490	2.050	1.880	1.680
3568LT	10	DFN	1.8A, 4MHz, Synchronous Step-Down	LTC3568EDD#PBF	NEW SMD 166-3715●	5.400	4.190	3.350	2.790	2.500
3570LT	20	TSSOP	1.5A Buck/Boost Converter and LDO Controller	LT3570EFE#PBF	NEW SMD 167-3519●	5.740	4.380	3.680	3.060	2.720
3570UNI	14	DIP	Low Power PWM Controller up to 500KHz operation With Single, Totem-Pole output.	UCC3570N	110-1448●	4.810	4.260	3.820	3.460	3.210
3573TI	8	DIP	Buck PWM Step-Down Voltage Regulator	UC3573NG4	121-4450●	6.090	4.620	3.290	1.940	– –
3576LT	38	QFN	Triple Step-Down DC/DCs with USB On the Go	LTC3576EUFE-1#PBF	NEW SMD 167-3551●	9.050	6.890	5.790	4.820	4.130
3576LT	38	QFN	Triple Step-Down DC/DCs with USB On the Go	LTC3576EUFE#PBF	NEW SMD 167-3550●	9.050	6.890	5.790	4.820	4.130
3578NSC	8	SOIC	Switched Mode Regulator	LM3578AM	SMD 121-5207●	1.780	1.210	0.990	– –	– –
3578NSC	8	DIP	Switched Mode Regulator	LM3578AN	948-8170●	1.500	1.230	1.120	1.100	1.030
3580LT	8	DFN	Boost/Inverting DC/DC Converter with 2A Switch	LT3580EDD#PBF	NEW SMD 166-3573●	3.670	2.840	2.270	1.900	1.690
3580LT	8	MSOP	Boost/Inverting DC/DC Converter with 2A Switch	LT3580EMS8E#PBF	NEW SMD 166-3575●	3.850	2.970	2.380	1.990	1.780
3580LT	8	DFN	Boost/Inverting DC/DC Converter with 2A Switch	LT3580IDD#PBF	NEW SMD 166-3576●	4.390	3.410	2.720	2.270	2.030
3580LT	8	MSOP	Boost/Inverting DC/DC Converter with 2A Switch	LT3580IMS8E#PBF	NEW SMD 166-3577●	4.630	3.590	2.870	2.400	2.150
3610UNI	8	DIP	Dual Schottky Diode Bridge	UC3610N	110-1452●	4.710	3.210	2.390	2.270	– –
3620TI	8	MSOP	Backup Battery Supervisor for CMOS RAM Retention	TPS3620-33DGKR	NEW SMD 154-4024●	1.810	1.590	1.300	1.200	1.110
3637UNI	18	DIP	Switched Mode Controller for DC Motor Drive	UC3637N	110-1443●	5.700	3.890	3.140	3.020	– –
3647NSC	20	SOIC	Universal Battery Charger for Li-Ion, NiMH and Ni-Cd batteries	LM3647IM	SMD 948-9690●	5.180	3.490	2.780	– –	– –
3658NSC	10	LLP	Dual Source USB/AC Li Chemistry Charger IC for Portable Applications	LM3658SD	SMD 131-2584●	1.620	1.100	0.900	0.850	0.790
3658NSC	10	LLP	Dual Source USB/AC Li Chemistry Charger IC for Portable Applications	LM3658SD-A	SMD 131-2585●	0.840	0.630	0.500	0.480	0.470
3658NSC	10	LLP	Dual Source USB/AC Li Chemistry Charger IC for Portable Applications	LM3658SD-B	SMD 131-2586●	0.810	0.610	0.480	0.470	0.460
3668NSC	12	LLP	High Efficiency Dual Mode Single Inductor Buck-Boost DC/DC Converter	LM3668SD-3.3	SMD 143-3172●	4.590	3.680	3.060	2.610	2.380
3670NSC	5	SOT-23	Miniature Step-Down DC-DC Converter for Ultra Low Voltage Circuits	LM3670MF-1.8	SMD 100-8246●	2.350	1.600	1.310	– –	– –
3670NSC	5	SOT-23	Adjustable miniature Step-Down DC-DC Converter for Ultra Low Voltage Circuits	LM3670MF-ADJ	SMD 100-8247●	1.440	1.070	0.880	– –	– –
3671NSC	5	SOT-23	2MHz, 600mA Step-Down DC-DC Converter	LM3671MF-1.25	SMD 100-8251●	1.630	1.220	1.000	– –	– –
3671NSC	5	SOT-23	2MHz, 600mA Step-Down DC-DC Converter	LM3671MF-1.5	SMD 100-8253●	2.350	1.740	1.430	– –	– –
3671NSC	5	SOT-23	2MHz, 600mA Step-Down DC-DC Converter	LM3671MF-1.875	SMD 100-8255●	2.070	1.460	1.190	– –	– –
3671NSC	5	SOT-23	2MHz, 600mA Adjustable Step-Down DC-DC Converter	LM3671MF-ADJ	SMD 100-8256●	2.350	1.740	1.430	– –	– –
3674NSC	5	SOT-23	2MHz, 600mA Step-Down DC-DC Converter in SOT 23-5	LM3674MF-ADJ	SMD 131-2587●	2.350	1.790	1.410	1.240	1.130
3677NSC	5	Bump Micro SMD	Miniature Step-Down DC-DC Converter, 0.6A, 1.3V, 3MHz	LM3677TL-1.3	SMD 134-2324●	2.350	1.960	1.690	1.470	1.340

RL Re-reeling available

Power Supply ICs - continued

Mftr.	Pins	Package	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
3677NSC	5	Bump Micro SMD	Miniature Step-Down DC-DC Converter, 0.6A, 1.5V, 3MHZ	LM3677TL-1.5	SMD 134-2325	2.350	1.960	1.690	1.470	1.340
3677NSC	5	Bump Micro SMD	Miniature Step-Down DC-DC Converter, 0.6A, 1.8V, 3MHZ	LM3677TL-1.8	SMD 134-2326	1.730	1.540	1.380	1.260	1.140
3677NSC	5	Bump Micro SMD	Miniature Step-Down DC-DC Converter, 0.6A, 2.5V, 3MHZ	LM3677TL-2.5	SMD 134-2327	2.350	1.960	1.690	1.470	1.340
3684LT	10	MSOP	36V, 2A, 2.8MHz Step-Down Switching Regulator	LT3684EMSE#PBF	NEW SMD 166-3578	5.640	4.370	3.500	2.920	2.610
3684LT	10	DFN	36V, 2A, 2.8MHz Step-Down Switching Regulator	LT3684IDD#PBF	NEW SMD 166-3579	6.480	5.020	4.020	3.350	3.000
3685LT	10	MSOP	36V, 2A, 2.4MHz Step-Down Switching Regulator	LT3685EMSE#PBF	NEW SMD 166-3580	5.770	4.470	3.580	2.970	2.670
3687NSC	9	Micro SMD	Step-Down DC-DC Converter with Regulator	LM3687TL-1815/NOPB	NEW SMD 168-5780	1.600	1.310	1.070	0.980	0.880
3693LT	10	MSOP	36V, 3.5A, 2.4MHz Step-Down Switching Regulator	LT3693EMSE#PBF	NEW SMD 166-3581	7.230	5.610	4.480	3.730	3.350
3701LT	16	SSOP	Dual Output Step-dn Controller	LTC3701EGN#PBF	SMD 127-3539	5.690	2.880	2.530	– –	– –
3703LT	16	SSOP	100V Synchronous Switching Regulator Controller	LTC3703EGN#PBF	NEW SMD 166-3716	5.850	4.530	3.620	3.020	2.700
3703LT	28	SSOP	100V Step-Down DC/DC Controller	LTC3703EG#PBF	SMD 127-3947	6.620	3.740	2.790	– –	– –
3704LT	10	MSOP	Positive to Negative DC/DC Controller	LTC3704EMS#PBF	SMD 127-3540	3.550	2.160	1.700	– –	– –
3707LT	28	SSOP	Hi Eff Two-Phase Dual Synch	LTC3707EGN#PBF	SMD 127-3948	8.220	5.480	4.600	– –	– –
3708LT	32	QFN	Fast, Dual, 2-Phase Controller w/Tracking	LTC3708EUH#PBF	SMD 127-3949	9.100	5.140	3.930	– –	– –
3709LT	32	QFN	Fast, 2-Phase Controller w/ Tracking	LTC3709EUH#PBF	SMD 127-3950	8.820	5.860	4.920	– –	– –
3710LT	16	TSSOP	Secondary Side Synch Regulator	LT3710EFE#PBF	SMD 127-3819	7.440	4.530	3.560	– –	– –
3724LT	16	TSSOP	High Voltage Non-Synch Controller	LT3724EFE#PBF	SMD 127-3820	6.020	3.410	2.540	– –	– –
3714LT	28	SSOP	Step Down Controller w/Internal Op Amp	LTC3714EG#PBF	SMD 127-3953	6.140	3.470	2.720	– –	– –
3716LT	36	SSOP	Dual Phase Step Down Converter	LTC3716EG#PBF	SMD 127-3955	5.400	3.610	3.020	– –	– –
3719LT	36	SSOP	Dual Phase Step Down Converter	LTC3719EG#PBF	SMD 127-3956	8.050	5.360	4.480	– –	– –
3722LT	24	SSOP	Full Bridge Controller	LTC3722EGN-2#PBF	127-3958	7.680	6.980	5.850	– –	– –
3723LT	16	SSOP	Push Pull Pwm Controllers	LTC3723EGN-1#PBF	SMD 127-3959	8.860	5.390	4.240	– –	– –
3727LT	28	SSOP	Dual, 2-Phase Step- Down Controller	LTC3727EG#PBF	SMD 127-3960	9.680	5.580	4.390	– –	– –
3728LT	28	SSOP	550kHz,Dual, 2 Phase Controller	LTC3728EG#PBF	SMD 127-3961	9.680	5.480	3.940	– –	– –
3729LT	28	SSOP	550KHZ, Polyphase Controller	LTC3729EG#PBF	SMD 127-3544	7.240	3.990	3.890	– –	– –
3731LT	36	SSOP	3-Phase Buck controller With PLL	LTC3731CG#PBF	SMD 127-3963	7.810	5.180	4.350	– –	– –
3731LT	36	SSOP	3-Phase Buck Controller With PLL	LTC3731HG#PBF	SMD 127-3964	6.490	4.310	3.810	– –	– –
3732LT	36	SSOP	3-Phase, 5-Bit VID, 600kHz Synch Buck Swiching Controller	LTC3732CG#PBF	SMD 127-3965	5.330	2.940	2.870	– –	– –
3734LT	32	QFN	Single Phase IMVP4 Controller	LTC3734EUH#PBF	SMD 127-3969	4.220	2.820	2.360	– –	– –
3736LT	24	SSOP	2-Phase Synch Controller w/ Tracking	LTC3736EGN#PBF	SMD 127-3970	6.900	4.590	3.850	– –	– –
3736LT	24	QFN	2-Phase Synch Controller w/ Tracking	LTC3736EUF#PBF	SMD 127-3971	7.120	4.740	3.970	– –	– –
3737LT	24	SSOP	2-Phase Controller w/Tracking	LTC3737EGN#PBF	SMD 127-3972	4.500	2.990	2.510	– –	– –
3738LT	38	QFN	3-Phase VRM10/VRM9 Synch. Controller	LTC3738CUHF#PBF	SMD 127-3973	7.630	5.070	4.260	– –	– –
3740LT	16	DFN	Synchronous Step-Down Controller	LT3740EDHC#PBF	SMD 132-9359	3.480	3.100	2.750	2.430	1.490
3742LT	24	QFN	Dual 2 Phase Step Down Switching Controller	LT3742EUF#PBF	NEW SMD 162-8759	3.860	3.420	2.800	2.570	2.200
3743NSC	10	MSOP	1MHz N-Channel FET Synchronous Buck Regulator Controller for Low Output Voltages	LM3743MM-1000	SMD 129-0936	1.470	1.150	0.840	– –	– –
3743NSC	10	MSOP	300kHz N-Channel FET Synchronous Buck Regulator Controller for Low Output Voltages	LM3743MM-300	SMD 129-0937	1.360	1.060	0.780	– –	– –
3750LT	10	MSOP	Capacitor Charger Controller	LT3750EMS#PBF	SMD 127-3500	6.620	4.020	3.170	– –	– –
3770LT	28	SSOP	Fast Synch Controller w/ mArgining, Tracking, PLL	LTC3770EG#PBF	SMD 127-3974	4.350	2.890	2.420	– –	– –
3773LT	36	SSOP	Triple Output Synchronous 3-Phase DC/DC Controller	LTC3773EG#PBF	SMD 132-9366	7.070	6.280	5.540	4.920	3.170
3778LT	20	TSSOP	No Rsense Step-down Controller	LTC3778EF#PBF	SMD 127-3975	6.740	3.810	2.740	– –	– –
3780LT	32	QFN	Synchronous, 4-Switch Buck-Boost Controller	LTC3780EUH#PBF	NEW SMD 166-3717	8.690	6.740	5.390	4.500	4.020
3780LT	24	SSOP	Synchronous, 4-Switch Buck-Boost Controller	LTC3780IG#PBF	NEW SMD 166-3718	10.070	7.810	6.240	5.200	4.650
3780LT	32	QFN	Synchronous, 4-Switch Buck-Boost Controller	LTC3780IUH#PBF	NEW SMD 166-3721	10.070	7.810	6.240	5.200	4.650
3780LT	24	SSOP	High Power Buck-Boost DC/DC Controller	LTC3780EG#PBF	SMD 127-3545	8.980	5.340	4.210	– –	– –
3781LT	20	SSOP	Sync. forward Controller	LT3781EG#PBF	127-3501	6.980	6.340	5.320	– –	– –
3782LT	28	TSSOP	2-Phase Step-Up Controller	LT3782EFE#PBF	SMD 127-3502	8.860	5.010	3.860	– –	– –
3785LT	24	QFN	10V Synchronous, No RSENSE Buck-Boost Controller	LTC3785EUF#PBF	NEW SMD 166-3722	6.520	5.050	4.040	3.370	3.020
3800LT	16	TSSOP	High-Voltage Synch Step-Down Controller	LT3800EFE#PBF	SMD 127-3821	5.770	3.840	3.210	– –	– –
3800TI	8	SOIC	PWM Controller, Low Power Current Mode, BICMOS	UCC3800DG4	SMD 120-7402	1.960	1.460	1.190	– –	– –
3800UNI	8	DIP	Low Power BiCMOS Current Mode PWM Controller. 7.2V/100%	UCC3800N	110-1445	2.710	1.850	1.370	1.300	1.220
3801UNI	8	DIP	Low Power BiCMOS Current Mode PWM Controller. 9.4V/50%	UCC3801N	110-1455	2.710	1.850	1.370	1.300	– –
3802LT	28	SSOP	2-Phase, Dual, Step Dwn Synch Controller	LTC3802EGN#PBF	SMD 127-3976	6.250	4.150	3.480	– –	– –
3802TI	8	SOIC	PMW Controller Current Mode	UCC3802DG4	SMD 123-4682	2.610	1.960	1.480	1.340	1.210
3802UNI	8	DIP	Low Power BiCMOS Current Mode PWM Controller. 12.5V/100%	UCC3802N	110-1457	3.080	2.250	1.760	1.380	1.090
3803LT	6	SOT-23	Constant Frequency Current Mode Flyback DC/DC Controller	LTC3803ES6#TRMPBF	NEW SMD 166-3908	2.160	1.680	1.340	1.110	1.000
3803TI	5	SC-70	Single Voltage Detector	TPS3803-01DCKRG4	SMD 123-4719	0.340	0.280	0.220	0.210	0.193
3803TI	8	SOIC	PWM Controller, Low Power Current Mode, BICMOS	UCC3803DG4	SMD 120-7247	4.430	3.370	2.280	– –	– –
3803UNI	8	DIP	Low Power BiCMOS Current Mode PWM Controller. 4.1V/100%	UCC3803N	110-1458	3.410	2.600	1.750	1.400	– –
3803UNI	8	DIP	Low Power BiCMOS Current Mode PWM Controller. 4.1V/100%	UCC3803N.	642-290	3.060	2.340	1.580	1.260	– –
3804TI	8	SOIC	PWM Controller, Low Power Current Mode, BICMOS	UCC3804DG4	SMD 120-7248	4.850	3.370	2.570	– –	– –
3804UNI	8	DIP	Low Power BiCMOS Current Mode PWM Controller. 12.5V/50%	UCC3804N	110-1446	5.270	3.660	2.780	2.270	– –
3805TI	8	SOIC	Low-Power BiCMOS Current-Mode PWM	UCC3805DG4	SMD 123-4668	2.610	1.960	1.480	1.340	1.210
3805UNI	8	DIP	Low Power BiCMOS Current Mode PWM Controller. 4.1V/50%	UCC3805N	110-1459	2.710	1.850	1.370	1.270	– –
3806LT	12	DFN	Synchronous Flyback Controller	LTC3806EDE#PBF	127-3977	4.880	4.440	3.720	– –	– –
3806UNI	16	DIP	Low Power, Dual Output, BiCMOS Current Mode PWM Controller up to 1MHz operation, 7.5V start threshold, 50% Max. duty cycle	UCC3806N	110-1450	5.800	5.390	4.620	3.920	3.320
3808LT	16	SSOP	Low EMI DC/DC Synch Controller	LTC3808EGN#PBF	SMD 127-3979	3.200	2.130	1.780	– –	– –
3808TI	8	SOIC	PWM Controller, Low Power Current Mode Push Pull	UCC3808AD-1G4	SMD 121-4415	2.350	1.860	1.440	– –	– –
3808UNI	8	SOIC	BCDMOS PrimAry Side PWM Controller 12.5V turn on, 8.3V turn off thresholds, On-chip Vdd Clamping	UCC3808D-1	SMD 110-1436	2.610	1.780	1.320	– –	– –
3808UNI	8	SOIC	BCDMOS PrimAry Side PWM Controller 12.5V turn on, 8.3V turn off thresholds, On-chip Vdd clAmping	UCC3808D-1.	SMD 352-7165	1.630	1.370	1.100	– –	– –
3808UNI	8	SOIC	BCDMOS PrimAry Side PWM Controller 4.3V turn on, 4.1V turn off thresholds, On-chip Vdd Clamping	UCC3808D-2	SMD 110-1437	2.570	2.160	1.740	– –	– –
3808UNI	8	DIP	BCDMOS PrimAry Side PWM Controller 12.5V turn on, 8.3V turn off thresholds, On-chip Vdd Clamping	UCC3808N-1	110-1435	2.610	1.780	1.320	– –	– –
3808TI	8	DIP	BCDMOS PrimAry Side PWM Controller 4.3V turn on, 4.1V turn off thresholds, On-chip Vdd Clamping	UCC3808N-2G4	121-4372	1.690	1.280	0.970	– –	– –
3809LT	10	MSOP	No Rsense, Low EMI DC/DC Controller in MSE	LTC3809EMSE#PBF	SMD 127-3981	3.050	1.930	1.690	– –	– –
3809UNI	8	SOIC	BCDMOS PrimAry Side PWM Controller 10V turn on, 8V turn off thresholds, prog. duty cycle	UCC3809D-1	SMD 110-1434	1.590	1.290	0.930	– –	– –
3809LT	10	DFN	No Rsense, Low EMI, Synchronous DC/DC Controller	LTC3809EDD-1#PBF	NEW SMD 166-3723	4.570	3.540	2.840	2.360	2.120
3809LT	10	MSOP	No Rsense, Low EMI, Synchronous DC/DC Controller	LTC3809EMSE-1#PBF	NEW SMD 166-3724	4.570	3.540	2.840	2.360	2.120

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Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
3477 NSC	8	MSOP	High Efficiency High-Side N-Channel Controller for Switching Regulator	LM3477AMM	SMD 131-2567	1.500	1.200	0.930	0.840	0.780
3478 NSC	8	MSOP	High Efficiency Low-Side N-Channel Controller for Switching Regulator	LM3478MM	SMD 131-2568	1.800	1.070	0.850	0.670	0.660
3485 NSC	8	MSOP	Hysteretic PFET Buck Controller	LM3485MM	SMD 131-2569	1.080	0.630	0.510	0.440	0.390
3489 NSC	8	MSOP	Hysteretic PFET Buck Controller with Enable Pin	LM3489MM	SMD 131-2570	1.330	0.980	0.800	0.630	0.570
3804 TI	8	TSSOP	Low-Power BiCMOS Current-Mode PWM	UCC3804PW	SMD 146-1320	2.810	1.910	1.420	1.350	1.260
3812 NSC	8	SOIC	Precision Current Gauge -7A to 7A	LM3812M-7.0/NOPB	NEW SMD 168-5656	2.700	2.220	1.820	1.660	1.490
3813 TI	8	TSSOP	Low Power Economy BiCMOS Current Mode PWM	UCC3813PW-3	SMD 146-1332	1.780	1.210	0.870	0.810	0.750
3813 TI	8	SOIC	PWM Controller, Low Power Current Mode, BICMOS	UCC3813D-3	SMD 121-2349	1.140	0.940	0.840	– –	– –

RL Re-reeling available

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
3813	TI	8	SOIC	PWM Controller, Low Power Current Mode, BICMOS	UCC3813D-3.	SMD 844-5230	0.820	0.680	0.610	– –	– –
3813	LT	28	SSOP	100V Current Mode Synchronous Step-Up Controller	LTC3813EG#PBF	SMD 141-7750●	7.090	4.310	3.390	– –	– –
3817	UNI	16	SOIC	BiCMOS Power Factor Pre Regulator	UCC3817D	SMD 110-1428●	2.900	2.390	1.950	– –	– –
3818	TI	16	SOIC	BiCMOS Power Factor Preregulator	UCC3818D	SMD 141-7428●	2.310	1.650	1.350	– –	– –
3818	UNI	16	DIP	BiCMOS Power Factor Pre Regulator for Fixed supply, performs shaping of the ac Input Current	UCC3818N	110-1429●	2.310	1.700	1.390	– –	– –
3822	NSC	8	MSOP	Precision Current Gauge IC with Internal Zero Ohm Sense Element and PWM Output	LM3822MM-2.0	SMD 131-2737●	1.390	1.050	0.820	0.810	0.790
3823	TI	16	PDIP	IC,PWM Controller	UC3823ANG4	120-7385●	7.330	6.120	5.370	– –	– –
3823	TI	16	PDIP	High Speed PWM Controller	UC3823NG4	123-4764●	2.530	1.900	1.430	1.310	1.170
3824	NSC	8	MSOP	Precision Current Gauge IC with Internal Zero Ohm Sense Element and PWM Output	LM3824MM-2.0	NEW SMD 131-2739●	2.530	1.920	1.510	1.340	1.270
3825	LT	16	TSSOP	Synchronous Flyback Converter w/ no Optoisolater for Isolated Power Supplies	LT3825EFE#PBF	SMD 127-3822●	5.140	3.440	2.880	– –	– –
3825	TI	16	PDIP	IC,PWM Controller	UC3825AN	121-2379●	4.730	3.220	2.600	– –	– –
3825	TI	16	SOIC	IC,SM PWM Controller	UC3825DWG4	SMD 120-7387●	2.910	2.420	2.080	– –	– –
3825	UNI	16	DIP	High Speed PWM Controller	UC3825N	110-1415●	9.800	6.520	4.870	3.630	– –
3832	LT	16	SSOP	Voltage Mode Synch Buck Controller	LTC3832EGN#PBF	SMD 127-3549●	4.060	2.570	2.020	– –	– –
3835	LT	16	SSOP	Low IQ Synchronous Step-Down Controller	LTC3835IGN-1#PBF	NEW SMD 166-3725●	7.560	5.860	4.690	3.900	3.500
3842	ST	8	DIP	Pulse Width Modulation Controller	E-UC3842BN	988-2529●	0.950	0.640	0.550	– –	– –
3842	FCH	8	DIP	Current Mode PWM Controller	KA3842B	347-6923▲	0.470	0.300	0.250	– –	– –
3842	TI	8	PDIP	Current Mode PWM Controller	TL3842P	128-7622●	0.540	0.400	0.300	0.210	0.171
3842	UNI	8	SOIC	PWM Controller, <0.5mA start-up Current, 500KHz Operation 17.5V Start Threshold, 100% Max Duty Cycle	UC3842AD8	SMD 110-1423	1.690	1.150	0.830	– –	– –
3842	UNI	8	DIP	Enhanced Current Mode PWM Controller (improved UC3842N)	UC3842AN	110-1409●	1.690	1.150	0.830	0.770	– –
3842	TI	8	PDIP	PWM Controller	UC3842NG4	120-7388●	1.400	1.060	0.790	– –	– –
3842	TI	14	SOIC	Current Mode PWM Controller	UC3842AD	SMD 146-1267●	1.690	1.150	0.830	0.770	0.710
3842	FCH	8	PDIP	500KHz Current Mode PWM Controller	UC3842N	NEW 156-4494●	0.400	0.330	0.300	0.240	0.210
3842	TI	8	SOIC	500kHz Current Mode PWM Controller	UC3842AD8	NEW SMD 156-4880●	1.540	1.260	1.130	0.920	0.790
3843	FCH	8	PDIP	500KHz Current Mode PWM Controller	UC3843N	NEW 156-4498●	0.330	0.300	0.260	0.210	0.176
3843	ST	8	DIP	Current Mode PWM Controller up to 500kHz, Low Sart Current 100% Max duty cycle	E-UC3843BN	988-2847●	0.780	0.600	0.510	0.440	0.380
3843	FCH	8	DIP	Current Mode PWM Controller	KA3843B	101-3832●	0.530	0.340	0.280	– –	– –
3843	TI	8	SOIC	Current Mode PWM Controller	TL3843D-8	SMD 123-6521●	0.360	0.240	0.176	0.149	0.142
3843	TI	8	VSSOP	Current Mode PWM Controller	TL3843P	128-7623●	0.450	0.330	0.250	0.177	0.152
3843	UNI	8	SOIC	Enhanced Current Mode PWM Controller	UC3843AD8	SMD 110-1425●	1.690	1.150	0.830	– –	– –
3843	TI	14	SOIC	Current Mode PWM Controller	UC3843ADG4	SMD 123-4758●	1.400	1.060	0.800	0.710	0.640
3843	TI	8	DIP	Current Mode PWM Controller	UC3843AN	141-7424●	1.690	1.150	0.830	0.770	– –
3843	UNI	8	SOIC	Current Mode PWM Controller, 9.0V start threshold	UC3843D8	SMD 110-1424●	1.690	1.150	0.830	– –	– –
3843	TI	14	SOIC	Current Mode PWM Controller	UC3843DG4	SMD 123-4952●	1.280	0.960	0.720	0.640	0.580
3844	TI	14	SOIC	Current Mode PWM Controller	UC3844AD	SMD 146-1271●	1.690	1.150	0.830	0.770	0.710
3844	TI	8	SOIC	Current Mode PWM Controller	TL3844D-8	SMD 123-6522●	0.390	0.260	0.194	0.164	0.151
3844	TI	PDIP	PDIP	Current Mode PWM Controller	TL3844P	128-7646●	0.780	0.500	0.360	0.270	0.210
3844	UNI	8	SOIC	Current Mode PWM Controller, optimised for DC/DC and offline converters	UC3844AD8	SMD 110-1418●	2.110	1.390	1.030	– –	– –
3844	UNI	8	DIP	Enhanced Current Mode PWM Controller (improved UC3844N)	UC3844AN	110-1411●	2.110	1.390	1.030	0.770	– –
3844	ON	8	SOIC	Enhanced Current Mode PWM Controller. Operating range 11.5V to 30V, 1A. (IND TEMP)	UC3844BD1G	SMD 121-1129●	0.760	0.570	0.450	– –	– –
3844	ON	14	SOIC	PWM Controller	UC3844BDG	SMD 122-8725●	0.790	0.590	0.460	0.290	– –
3844	TI	8	PDIP	Current Mode PWM Controller	UC3844NG4	123-4748●	1.280	0.960	0.720	0.640	0.580
3845	LT	16	TSSOP	Synchronous Current Mode Step-Down Controller	LT3845EFE#PBF	NEW SMD 166-3582●	6.520	5.050	4.040	3.370	3.020
3845	ST	8	DIP	Current Mode PWM Controller	E-UC3845BN	988-2928●	0.590	0.490	0.420	– –	– –
3845	TI	8	DIL	Current Mode PWM Controller	TL3845P	128-7641●	0.780	0.500	0.360	0.270	0.210
3845	UNI	8	SOIC	Enhanced Current Mode PWM Controller	UC3845AD8	SMD 110-1422●	1.690	1.150	0.830	– –	– –
3845	TI	14	SOIC	Current Mode PWM Controller	UC3845ADG4	SMD 123-4782●	1.400	1.060	0.800	0.710	0.640
3845	UNI	8	DIP	Enhanced Current Mode PWM Controller (improved UC3845N)	UC3845AN	110-1412●	2.110	1.390	1.030	0.770	– –
3845	UNI	8	SOIC	Current Mode PWM Controller With enhanced load response characteristics	UC3845D8	SMD 110-1421	2.080	1.380	1.030	– –	– –
3845	TI	8	SOIC	Current Mode PWM Controller With enhanced load response characteristics	UC3845D8G4	SMD 121-9426●	3.010	2.000	1.480	– –	– –
3845	TI	14	SOIC	Current Mode PWM Controller	UC3845DG4	SMD 123-4967●	1.400	1.060	0.800	0.710	0.640
3845	TI	8	PDIP	Current Mode PWM Controller	UC3845NG4	123-4756●	1.400	1.060	0.800	0.710	0.640
3846	TI	16	PDIP	Dual 500kHz Current Mode PWM Controller	UC3846N	NEW SMD 156-4893●	3.240	2.670	2.380	1.940	1.640
3846	UNI	16	SOIC	Current Mode PWM Controller With shutdown and soft-start functions, 8V threshold	UC3846DW	SMD 110-1426	3.210	2.190	1.630	– –	– –
3846	UNI	16	DIP	Current Mode PWM Controller 50% Max Duty Cycle, with Shut-down Function	UC3846N	110-1447●	3.210	2.190	1.630	1.500	– –
3851	LT	16	SSOP	0.8V to 5.5V Step-Down Switching Regulator Controller	LTC3851IGN#PBF	NEW SMD 167-3552●	3.670	2.790	2.350	1.950	1.680
3851	LT	16	QFN	0.8V to 5.5V O/P Step-Down Switching Regulator Controller	LTC3851EUD#PBF	NEW SMD 167-3562●	3.220	2.460	2.070	1.730	1.530
3852	TI	8	PDIP	Power Factor PreRegulator, High.	UC3852NG4	120-7389●	2.670	2.230	1.810	– –	– –
3853	TI	8	SOIC	High Power Factor Pre-Regulator	UC3853DG4	SMD 123-4989●	1.630	1.260	0.970	0.900	0.840
3853	UNI	8	DIP	High Power Factor Pre-Regulator With Low startup Current and OverVoltage Protection	UC3853N	110-1451●	2.540	1.700	1.080	1.010	0.930
3854	TI	16	SOIC	Power Factor PreRegulator, High Enhanced.	UC3854ADWG4	SMD 120-7390●	2.700	2.060	1.880	– –	– –
3854	UNI	16	DIP	Enhanced High Power Factor Pre-Regulator (improved UC3854N)	UC3854AN	110-1442●	3.840	2.300	1.400	1.300	– –
3854	TI	16	SOIC	Power Factor PreRegulator, High Enhanced.	UC3854BDWG4	SMD 120-7391●	5.940	4.510	4.110	– –	– –
3854	UNI	16	DIP	Enhanced High Power Factor Pre-Regulator (improved UC3854N).UVLO on 10.5V	UC3854BN	110-1462●	7.270	5.520	5.020	3.860	– –
3854	TI	16	SOIC	Power Factor PreRegulator, High.	UC3854DWG4	SMD 120-7392●	8.860	6.310	5.260	– –	– –
3854	UNI	16	DIP	High Power Factor Pre-Regulator	UC3854N	110-1414●	3.020	2.150	1.790	1.220	– –
3855	TI	20	DIP	High Frequency ZVT, High Performance Power Factor Pre-Regulator, UVLO on 15.5V	UC3855ANG4	121-4451●	8.370	5.830	4.580	3.910	3.810
3855	TI	20	SOIC	High Performance Power Factor PreRegulator	UC3855BDWG4	SMD 123-4942●	10.330	7.850	6.050	5.690	5.320
3855	UNI	20	DIP	High Frequency ZVT, High Performance Power Factor Pre-Regulator, UVLO on 10.5V	UC3855BN	110-1463●	8.460	6.490	5.500	5.280	– –
3856	TI	16	PDIP	Improved Current Mode PWM Controller	UC3856NG4	123-4842●	3.300	2.470	1.860	1.690	1.530
3862	LT	24	TSSOP	Multi-Phase Current Mode Step-Up DC/DC Controller	LTC3862EFE-1#PBF	NEW SMD 167-3525●	6.440	4.900	4.120	3.430	2.940
3862	LT	24	TSSOP	Multi-Phase Current Mode Step-Up DC/DC Controller	LTC3862EFE#PBF	NEW SMD 167-3553●	6.440	4.900	4.120	3.430	2.940
3862	LT	24	SSOP	Multi-Phase Current Mode Step-Up DC/DC Controller	LTC3862IGN#PBF	NEW SMD 167-3563●	6.990	5.320	4.470	3.720	3.190
3862	LT	24	QFN	Multi-Phase Current Mode Step-Up DC/DC Controller	LTC3862IUH#PBF	NEW SMD 167-3564●	6.990	5.320	4.470	3.720	3.190
3862	LT	24	SSOP	Multi-Phase Current Mode Step-Up DC/DC Controller	LTC3862EGN#PBF	NEW SMD 164-7750●	5.440	4.230	3.450	3.170	2.720
3862	LT	24	SSOP	Multi-Phase Current Mode Step-Up DC/DC Controller	LTC3862HGN#PBF	NEW SMD 164-7752●	6.610	5.140	4.200	3.860	3.300
3862	LT	24	QFN	Multi-Phase Current Mode Step-Up DC/DC Controller	LTC3862HUH#PBF	NEW SMD 164-7754●	6.610	5.140	4.200	3.860	3.300
3875	TI	20	PDIP	Phase Shift Controller	UC3875NG4	120-7393●	7.570	6.320	5.140	– –	– –
3880	NSC	6	SOT-23	Power Sequencer	LM3880MF-1AB	SMD 127-1399●	0.640	0.490	0.410	– –	– –
3880	NSC	6	SOT-23	Power Sequencer	LM3880MF-1AB.	128-6709●	0.430	0.410	0.400	0.390	0.380
3880	NSC	6	SOT-23	Power Sequencer	LM3880MF-1AA	SMD 134-2323●	0.540	0.460	0.390	0.340	0.330
3881	NSC	8	MSOP	Power Sequencer	LM3881MM	NEW SMD 155-2439●	0.930	0.820	0.650	0.540	0.470
3882	NSC	7	TO-220	Fast-Response High-Accuracy Adjustable LDO Linear Regulator with Enable and Soft-Start from the PowerWise® Family	LP38851T-ADJ	143-3153●	2.360	1.860	1.520	1.330	1.180
3889	UNI	8	DIP	Off-line Power Supply Controller, ideal for Primary-Side Bias	UCC3889N	110-1449●	1.340	0.910	0.660	0.610	0.560
3889	UNI	8	DIP	Off-line Power Supply Controller, ideal for PrimAry-Side Bias Supply.	UCC3889N.	641-509	0.890	0.750	0.640	0.620	0.610

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Power Supply ICs - continued

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
3895	UNI	20	SOIC	BiCMOS Advanced Phase Shift PWM Controller, Voltage or Current mode selectable.	UCC3895DW	SMD 110-1439	6.680	5.550	4.740	– –	– –
3895	UNI	20	DIP	BiCMOS Advanced Phase Shift PWM Controller, Voltage or Current mode selectable.	UCC3895N	110-1438	7.110	5.850	4.800	– –	– –
3901	LT	16	SSOP	Synchronous Driver for Push-Pull Converters	LTC3901EGN#PBF	SMD 127-3550	4.740	3.160	2.650	– –	– –
3902	TI	8	SOIC	Load Share Controller	UC3902DG4	SMD 123-4915	3.360	2.550	1.980	1.840	1.730
3902	UNI	8	DIP	Load Share Controller	UC3902N	110-1406	3.290	2.620	1.980	– –	– –
3903	UNI	18	DIP	Quad Supply and Line Monitor	UC3903N	110-1417	9.060	7.240	6.010	4.470	– –
3905	NSC	14	LLP	Dual 600 mA Buck LDO Regulator.	LP3905SD-00.	SMD 128-6712	2.240	1.990	1.630	1.340	1.150
3906	UNI	16	DIP	Sealed Lead-Acid Battery Charger Controller	UC3906N	110-1416	4.900	3.340	2.700	2.510	– –
3907	TI	16	PDIP	Load Share Controller	UC3907NG4	123-4802	3.800	2.900	2.220	2.090	1.960
3909	UNI	20	DIP	Switched Mode Lead-Acid Battery Charger	UC3909N	110-1453	5.440	3.700	2.990	2.780	– –
3911	TI	16	SOIC	2 Cell Lithium Ion Battery Protector	UCC3911DP-4	NEW SMD 164-7925	3.560	2.630	2.190	1.880	1.830
3911	TI	16	SOIC	2-Cell 4.15 to 4.25V Lithium-Ion Battery Protection	UCC3911DP-1	NEW SMD 156-0650	4.240	3.710	2.700	2.470	2.100
3940	NSC	3	SOT-223	5V to 3.3V, 1A Step-Down, Low Dropout Regulated DC to DC Converter.	LM3940IMP-3.3	SMD 977-9280	1.440	0.880	0.710	– –	– –
3940	NSC	3	TO-220	5V to 3.3V, 1A Step-Down, Low Dropout Regulated DC to DC Converter	LM3940IT-3.3	949-4553	1.420	0.840	0.670	– –	– –
3947	NSC	14	LLP	USB/AC Adaptor, Single Cell Li-Ion Battery Charger IC.	LP3947ISD-09	SMD 131-2622	1.350	1.020	0.800	0.790	0.770
3947	NSC	14	LLP	USB/AC Adaptor, Single Cell Li-Ion Battery Charger IC.	LP3947ISD-51	SMD 131-2623	1.320	0.990	0.780	0.770	0.750
3952	TI	16	SOIC	Batt Protection Circuit	UCC3952DP-1	SMD 121-2350	2.750	2.310	1.920	– –	– –
3957	TI	16	SSOP	4 Cell Lithium Ion Protector.	UCC3957M-3	NEW SMD 164-7926	2.700	1.900	1.580	1.360	1.320
3964	NSC	5	SOT-223	Adjustable 800mA ultra Low drop out linear Regulator, With sense pin that improves regulation.	LP3964EMP-ADJ	SMD 977-8896	2.430	1.800	1.440	– –	– –
3970	NSC	48	LLP	Power Management Unit for Advanced Application Processors	LP3970SQ-31	SMD 128-6801	5.380	4.230	3.480	3.050	2.700
3970	NSC	48	LLP	Power Management Unit for Advanced Application Processors	LP3970SQ-35	SMD 128-6802	4.310	3.600	2.730	– –	– –
3970	NSC	48	LLP	Power Management Unit for Advanced Application Processors	LP3970SQ-44	SMD 128-6803	4.310	3.600	2.730	– –	– –
3970	NSC	48	LLP	Power Management Unit for Advanced Application Processors	LP3970SQ-45	SMD 128-6804	5.160	4.320	3.640	– –	– –
3971	NSC	40	LLP	Power Management Unit for Advanced Application Processors	LP3971SQ-W416	SMD 131-3872	5.050	3.970	3.230	2.900	2.820
3971	NSC	40	LLP	Power mAnagement Unit for Advanced Application Processors	LP3971SQ-D510	SMD 127-1405	5.170	3.840	3.080	– –	– –
3971	NSC	40	LLP	Power mAnagement Unit for Advanced Application Processors	LP3971SQ-F211	SMD 127-1406	5.170	3.840	3.080	– –	– –
3971	NSC	40	LLP	Power Management Unit for Advanced Application Processors	LP3971SQ-B410	SMD 131-2624	4.880	3.760	3.070	2.630	2.450
3972	LT	10	DFN	0.79V to 30V at 3.5A 2.4MHz Step-Down Switching Regulator	LT3972EDD#PBF	NEW SMD 167-3530	8.010	6.110	5.130	4.280	3.670
4001	LT	16	QFN	2A Synchronous Buck Li-Ion Charger	LTC4001EUF#PBF	NEW SMD 155-6266	4.880	3.790	3.410	2.840	2.440
4001	LTC	10	DFN	2A Synchronous Buck Li Ion Charger	LTC4001EUF-1#PBF.	NEW SMD 164-8024	3.240	2.540	2.100	1.930	1.710
4002	LTC	10	DFN	Standalone Li Ion Switch Mode Battery Charger.	LTC4002EDD-4.2#PBF	NEW SMD 164-8025	2.760	2.170	1.790	1.630	1.460
4002	LT	8	SOIC	8.4V Dual Cell Li-Ion Switch Mode Battery Charger Controller	LTC4002ES8-8.4#PBF	NEW SMD 155-6268	3.970	3.090	2.780	2.320	1.990
4002	LTC	10	DFN	Standalone Li Ion Switch Mode Battery Charger.	LTC4002EDD-8.4#PBF	NEW SMD 164-8026	2.760	2.170	1.790	1.630	1.460
4004	TI	8	SON	Low Pin Count, Low Vin Synchronous Buck DC/DC Controller	TPS40040DRBT	SMD 147-1221	2.010	1.500	1.080	1.050	0.990
4006	LTC	16	SSOP	4A Standalone Li-Ion Battery Charger	LTC4006EGN-2#PBF	NEW SMD 164-8027	5.230	4.130	3.390	3.120	2.770
4007	LTC	24	QFN	4A Standalone Li-Ion Battery Charger	LTC4007EUFD-1#PBF	NEW SMD 164-8028	5.600	4.400	3.630	3.350	2.960
4007	LT	24	SSOP	4A, Li-Ion Charger w/ Termination.	LTC4007EGN#PBF	SMD 127-3982	7.210	4.390	3.460	– –	– –
4008	LT	20	SSOP	4A, High Efficiency Li-Ion Charger.	LTC4008EGN#PBF	SMD 127-3983	6.970	4.240	3.340	– –	– –
4009	LT	20	QFN	High Efficiency Multi-Chemistry Battery Charger	LTC4009CUF#PBF	NEW SMD 164-7755	4.870	3.790	3.100	2.840	2.440
4010	LTC	16	TSSOP	High Efficiency Standalone Nickel Battery Charger	LTC4010CFE#PBF	NEW SMD 164-8029	6.920	5.600	4.610	4.250	3.760
4011	LT	20	TSSOP	NiMH/NiCd Switchmode Standalone Battery Chargers	LTC4011CFE#PBF	SMD 127-3984	9.450	5.340	4.160	– –	– –
4050	LTC	10	MSOP	Lithium Ion Linear Battery Charger Controller with Thermistor Interface	LTC4050EMS-4.1#PBF	NEW SMD 164-8030	3.480	2.750	2.260	2.090	1.840
4052	LT	8	MSOP	LI-Ion Battery Pulse Charger	LTC4052EMS8E-4.2#PBF	SMD 127-3985	3.550	2.160	1.700	– –	– –
4053	LTC	10	DFN	USB Compatible Lithium Ion Battery Charger with Thermal Regulation	LTC4053EDD-4.2#PBF	NEW SMD 164-8031	2.760	2.170	1.790	1.630	1.460
4053	LT	10	MSOP	USB Compatible Lithium-Ion Battery Charger with Thermal Regulation	LTC4053EMSE-4.2#PBF	NEW SMD 166-3727	3.440	2.670	2.130	1.780	1.590
4058	LTC	8	DFN	Standalone Linear Li Ion Battery Charger with Thermal Regulation.	LTC4058EDD-4.2#PBF	NEW SMD 164-8033	2.470	1.950	1.610	1.490	1.310
4058	LTC	8	DFN	Standalone Linear Li Ion Battery Charger with Thermal Regulation.	LTC4058XEDD-4.2#PBF	NEW SMD 164-8034	2.470	1.950	1.610	1.490	1.310
4060	LT	16	TSSOP	2A, Standalone Liner NiMH/NiCd Charger	LTC4060EFE#PBF	SMD 127-3986	6.970	3.940	3.030	– –	– –
4061	LTC	10	DFN	Standalone Linear Li Ion Battery Charger with Thermistor Input	LTC4061EDD#PBF	NEW SMD 164-8035	2.840	2.240	1.850	1.700	1.510
4061	LTC	10	DFN	Standalone Linear Li Ion Battery Charger with Thermistor Input	LTC4061EDD-4.4#PBF	NEW SMD 164-8036	3.030	2.380	1.960	1.810	1.600
4062	LTC	10	DFN	Standalone Linear Li-Ion Battery Charger with Micropower Comparator	LTC4062EDD#PBF	NEW SMD 164-8037	2.840	2.240	1.850	1.700	1.510
4063	LTC	10	DFN	Linear Li-Ion Charger with Micropower Low Dropout Linear Regulator	LTC4063EDD#PBF	NEW SMD 164-8038	3.120	2.460	2.030	1.860	1.650
4064	LTC	10	MSOP	Linear Charger for Back Up Li Ion Batteries	LTC4064EMSE#PBF	NEW SMD 164-8039	2.670	2.100	1.740	1.590	1.410
4065	LT	6	DFN	Standalone 750mA Li-Ion Battery Charger.	LTC4065EDC#TRMPBF	NEW SMD 166-3910	2.270	1.760	1.410	1.170	1.060
4065	LTC	6	DFN	750mA Li Ion Battery Charger.	LTC4065EDC-4.4#TRMPBF	NEW SMD 164-8040	1.820	1.430	1.180	1.090	0.970
4065	LTC	6	DFN	250mA Li Ion Battery Charger.	LTC4065LEDC#TRM	NEW SMD 164-8041	1.910	1.510	1.240	1.150	1.010
4068	LTC	8	DFN	Linear Li-Ion Battery Charger with Programmable Termination	LTC4068EDD-4.2#PBF	NEW SMD 164-8042	2.470	1.950	1.610	1.490	1.310
4069	LTC	6	DFN	750mA Li-Ion Battery Charger	LTC4069EDC-4.4#TRM	NEW SMD 164-8043	1.910	1.510	1.240	1.150	1.010
4075	LT	11	DFN	Dual Input USB/AC Adapter Standalone Li-Ion Battery Charger.	LTC4075EDD#PBF	NEW SMD 155-6269	3.640	3.240	2.920	2.430	2.080
4075	LTC	10	DFN	Dual Input USB/AC Adapter Standalone Li Ion Battery Charger	LTC4075HVXEDD#PBF.	NEW SMD 164-8045	2.940	2.320	1.910	1.760	1.560
4076	LTC	10	DFN	Dual Input Standalone Battery Charger	LTC4076EDD#PBF	NEW SMD 164-8046	2.760	2.170	1.790	1.630	1.460
4077	LT	11	DFN	Dual Input Standalone Li-Ion Battery Charger.	LTC4077EDD#PBF	NEW SMD 155-6271	3.460	3.100	2.920	2.430	2.080
4078	LTC	10	DFN	Dual Input Li Ion Battery Charger with Overvoltage Protection	LTC4078EDD#PBF	NEW SMD 164-8047	2.940	2.320	1.910	1.760	1.560
4090	LT	22	DFN	USB Power Manager with 2A High Voltage Bat-Track Buck Regulator	LTC4090EDJC#PBF	NEW SMD 166-3728	5.950	4.610	3.690	3.080	2.760
4096	LTC	10	DFN	Dual Input Standalone Li-Ion Battery Charger.	LTC4096EDD#PBF	NEW SMD 164-8048	2.200	1.740	1.430	1.320	1.170
4101	LTC	24	SSOP	Smart Battery Charger Controller.	LTC4101EG#PBF	NEW SMD 164-8050	7.810	6.140	5.070	4.650	4.130
4110	LTC	38	QFN	Battery Backup System Manager.	LTC4110EUHF#PBF	NEW SMD 164-8052	14.440	11.360	9.380	8.620	7.630
4150	LTC	10	MSOP	Coulomb Counter/Battery Gas Gauge	LTC4150CMS#PBF	NEW SMD 164-8053	2.200	1.740	1.430	1.320	1.170
4100	LT	24	SSOP	SmArt-Battery Charger With SMBus Interface	LTC4100EG#PBF	SMD 127-3987	10.040	5.680	4.090	– –	– –
4211	LT	10	MSOP	Hot Swap Controller w/Active Limit	LTC4211CMS#PBF	SMD 127-3988	4.970	2.810	2.120	– –	– –
4211	LT	8	SOIC	Hot Swap Controller w/Active Limit	LTC4211CS8#PBF	SMD 127-3989	3.780	2.140	1.620	– –	– –
4214	LT	10	MSOP	Negative Hot Swap Controller in MSOP	LTC4214-1CMS#PBF	127-3990	3.220	2.930	2.460	– –	– –
4214	LT	10	MSOP	Negative Hot Swap Controller in MSOP	LTC4214-2CMS#PBF	SMD 127-3992	2.850	2.000	1.680	– –	– –
4218	LTC	16	DFN	12V Threshold Hot Swap Controller.	LTC4218CDHC-12#PBF	NEW SMD 160-9765	4.440	3.550	3.220	2.960	2.530
4218	LTC	16	DFN	12V Threshold Hot Swap Controller.	LTC4218IDHC-12#PBF	NEW SMD 160-9766	5.120	4.090	3.720	3.410	2.930
4220	LT	16	SSOP	Dual Hot Swap Controller Pos/Neg	LT4220CGN#PBF	SMD 127-3823	6.620	4.020	3.170	– –	– –
4221	LT	16	SSOP	Dual Hot Swap Controller	LTC4221CGN#PBF	SMD 127-3993	5.260	3.690	3.100	– –	– –
4223	LT	16	DFN	Dual Supply Hot Swap Controller for Advanced Mezzanine Card	LTC4223CDHD-1#PBF	SMD 143-2767	3.690	2.250	1.760	– –	– –
4223	LT	16	SSOP	Dual Supply Hot Swap Controller for Advanced Mezzanine Card	LTC4223CGN-1#PBF	SMD 143-2768	3.690	2.250	1.760	– –	– –
4223	LT	16	DFN	Dual Supply Hot Swap Controller for Advanced Mezzanine Card	LTC4223IDHD-1#PBF	SMD 143-2769	4.410	2.690	2.120	– –	– –
4223	LT	16	SSOP	Dual Supply Hot Swap Controller for Advanced Mezzanine Card	LTC4223IGN-1#PBF	SMD 143-2770	4.410	2.690	2.120	– –	– –
4230	LT	20	SSOP	Triple Hot Swap Controller	LTC4230CGN#PBF	SMD 127-3994	3.000	2.920	2.440	– –	– –
4241	LT	20	SSOP	PCI Hot Swap Controller w/3.3V AUX	LTC4241CGN#PBF	SMD 127-3995	3.220	2.260	1.880	– –	– –
4243	TI	10	SIP Module	5V O/P 10W Isolated DC/DC Converter	PT4243A	NEW 165-9628	40.920	34.330	29.590	27.480	25.990
4244	LT	20	SSOP	CompactPCI Hot Swap Controller	LTC4244CGN#PBF	127-3996	5.410	4.910	4.120	– –	– –
4250	LT	8	SOIC	Hot Swap Controller for -48V	LT4250LCS8#PBF	SMD 127-3825	2.680	1.650	1.610	– –	– –
4252	LT	10	MSOP	Negative 48V Hot Swap in MSOP	LTC4252-2CMS#PBF	SMD 127-3998	4.600	2.610	2.000	– –	– –
4252	LT	10	MSOP	Negative 48V Hot Swap in MSOP	LTC4252A-1CMS#PBF	SMD 127-3999	4.390	3.100	2.600	– –	– –
4252	LT	10	MSOP	Negative 48V Hot Swap in MSOP	LTC4252A-2CMS#PBF	SMD 127-4000	4.390	3.100	2.600	– –	– –

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	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
4255	LT	28	SSOP	Quad Network Power Controller	LTC4255CG#PBF	127-4002	8.200	7.460	6.250	– –	– –
4257	LT	8	SOIC	Power over Ethernet Interface Controller	LTC4257IS8#PBF	NEW SMD 166-3729	3.440	2.670	2.130	1.780	1.590
4257	LT	8	SOIC	IEEE802.3af PD Interface Controller	LTC4257CS8#PBF	SMD 127-4003	3.080	1.870	1.470	– –	– –
4258	LT	36	SSOP	Quad Power over Ethernet Controller	LTC4258CGW#PBF	NEW SMD 166-3730	11.900	9.220	7.380	6.150	5.510
4260	LT	24	SSOP	48V Hot Swap Controller With I2C ADC	LTC4260CGN#PBF	SMD 127-4005	10.200	7.150	6.000	– –	– –
4260	LT	32	QFN	48V Hot Swap Controller With I2C ADC	LTC4260CUH#PBF	SMD 127-4006	6.880	4.820	4.040	– –	– –
4263	LT	14	SOIC	Single Compliant PSE Controller	LTC4263CS#PBF	NEW SMD 166-3731	5.400	4.190	3.350	2.790	2.500
4267	LT	16	DFN	Power over Ethernet IEEE 802.3af PD Interface with Integrated 300kHz Switching Regulator	LTC4267CDHC-3#PBF	SMD 143-2772	4.130	2.350	1.920	– –	– –
4267	LT	16	SSOP	Power over Ethernet IEEE 802.3af PD Interface with Integrated 300kHz Switching Regulator	LTC4267CGN-3#PBF	SMD 143-2773	3.900	2.210	1.820	– –	– –
4267	LT	16	DFN	Power over Ethernet IEEE 802.3af PD Interface with Integrated 300kHz Switching Regulator	LTC4267IDHC-3#PBF	SMD 143-2774	4.970	2.820	2.310	– –	– –
4267	LT	16	SSOP	Power over Ethernet IEEE 802.3af PD Interface with Integrated 300kHz Switching Regulator	LTC4267IGN-3#PBF	SMD 143-2775	4.730	2.680	2.200	– –	– –
4268	LT	32	DFN	High Power PD with Synchronous NoOpto Flyback Controller	LTC4268CDKD-1#PBF	SMD 143-2776	4.540	2.760	2.170	– –	– –
4268	LT	32	DFN	High Power PD with Synchronous NoOpto Flyback Controller	LTC4268IDKD-1#PBF	SMD 143-2777	5.440	3.310	2.610	– –	– –
4350	LT	16	SSOP	Hot Swappable Load Share Controller	LTC4350CGN#PBF	SMD 127-4008	7.510	5.270	4.400	– –	– –
4351	LT	10	MSOP	MOSFET Diode-OR Controller	LT4351CMS#PBF	SMD 127-3828	4.730	2.670	2.080	– –	– –
4357	LT	6	DFN	Positive High Voltage Ideal Diode Controller	LTC4357CDCB#PBF	SMD 143-2778	3.130	1.810	1.480	– –	– –
4357	LT	8	MSOP	Positive High Voltage Ideal Diode Controller	LTC4357CMS8#PBF	SMD 143-2779	3.210	1.960	1.540	– –	– –
4357	LT	6	DFN	Positive High Voltage Ideal Diode Controller	LTC4357IDCB#PBF	SMD 143-2780	3.720	2.150	1.760	– –	– –
4357	LT	8	MSOP	Positive High Voltage Ideal Diode Controller	LTC4357IMS8#PBF	SMD 143-2781	3.850	2.340	1.850	– –	– –
4415	LT	8	MSOP	36V, Low Loss PowerPath Controller	LTC4414EMS8#PBF	SMD 127-3551	3.500	2.120	1.680	– –	– –
4490	ALEG	20	QFN	Triple Output Step-Down Switching Regulator	A4490EES-T	NEW SMD 165-0232	1.760	1.570	1.280	1.090	1.060
4601	LT	118	LGA	12A DC/DC MicroModule with PLL	LTM4601EV#PBF	NEW SMD 166-3752	32.140	24.910	19.930	16.610	14.870
4601	LT	118	LGA	12A DC/DC MicroModule with PLL	LTM4601IV#PBF	NEW SMD 166-3753	35.310	27.370	21.890	18.250	16.340
4602	LT	104	LGA	6A High Efficiency DC/DC MicroModule	LTM4602EV#PBF	NEW SMD 166-3754	23.250	18.020	14.410	12.010	10.760
4604	LT	66	LGA	4A DC/DC MicroModule with Tracking	LTM4604EV#PBF	NEW SMD 166-3755	16.550	12.830	10.260	8.550	7.660
4605	LT	141	LGA	5A DC High Efficiency Buck-Boost DC/DC MicroModule	LTM4605EV#PBF	NEW SMD 164-7766	26.550	19.790	17.560	16.240	15.120
4606	LT	133	LGA	6A DCI High Efficiency Buck-Boost DC/DC MicroModule	LTM4606EV#PBF	NEW SMD 164-7767	25.760	20.280	16.730	15.370	13.610
4606	LT	133	LGA	6A DC High Efficiency Buck-Boost DC/DC MicroModule	LTM4606IV#PBF	NEW SMD 164-7768	29.950	23.300	19.060	17.470	14.980
4612	LT	133	LGA	7A DC High Efficiency Buck-Boost DC/DC MicroModule	LTM4612EV#PBF	NEW SMD 164-7769	31.050	24.450	20.160	18.540	16.420
4612	LT	133	LGA	7A DC High Efficiency Buck-Boost DC/DC MicroModule	LTM4612IV#PBF	NEW SMD 164-7770	31.600	26.890	22.170	20.390	18.060
4682	MICR	8	SOIC	Precision Current Limit SuperSwitcher Buck Regulator	MIC4682YM	NEW SMD 166-3108	4.600	3.810	3.040	2.760	2.340
4720	MICR	10	MSOP	2.0MHz 2A Integrated Switch Buck Regulator	MIC4720YMME	NEW SMD 166-3076	2.460	1.910	1.570	1.440	1.230
4721	MICR	10	MSOP	1.5A 2MHz Integrated Switch Buck Regulator	MIC4721YMM	NEW SMD 166-3077	2.920	2.190	1.760	1.600	1.460
4723	MICR	12	MLF	3A 2MHz Integrated Switch Buck Regulator	MIC4723YML TR	NEW SMD 166-3078	2.330	1.750	1.410	1.270	1.170
4800	FCH	16	DIP	Power Factor and PWM controller combination, 220µA start-up Current, TriFault Detect, Current-fed Gain modulator for improved Noise immunity	ML4800CP	101-3883	2.460	1.670	1.240	– –	– –
4800	FCH	16	SOIC	Power Factor Correction (PFC) and PWM Controller Combo	ML4800IS	SMD 124-1914	2.340	1.980	1.700	1.490	1.430
4810	FCH	16	SOIC	Power Factor Correction Controller for SMPS	FAN4810M	SMD 124-1871	1.260	1.010	0.780	0.650	0.630
4812	FCH	16	DIP	Power Factor Controller, 1A peak output drive, 5V internal Reference.	ML4812CP	101-3881	4.270	3.230	2.590	– –	– –
4821	FCH	20	SOIC	Power Factor Correction (PFC) Controller	ML4821CS	SMD 124-1915	3.710	3.130	2.680	2.370	2.240
4822	FCH	16	SOIC	Power Factor Correction Controller for High Power Applications	FAN4822IM	SMD 124-1872	2.890	2.310	1.900	1.570	1.460
4824	FCH	16	SOIC	Power Factor Corrector and PWM controller combination, features PFC overVoltage comparator to eliminate output "runaway" due to load removal	ML4824CS1	SMD 101-3882	3.210	2.230	1.780	– –	– –
4824	FCH	16	SOIC	Power Factor Correction (PFC) and PWM Controller Combo	ML4824IS1	SMD 124-1917	3.640	2.910	2.240	1.890	1.840
4960	ST	7	Heptawatt	5.1V to 40V, 2.5A Power Switching Regulator	E-L4960	107-7136	4.030	3.120	2.220	1.910	1.840
4962	ST	7	Heptawatt	1.5A Switching Regulator. Voltage range 5.1V to 40V	L4962/A	109-4217	3.120	2.430	1.970	1.900	1.850
4970	ST	15	Multiwatt	10A Switching Regulator. Voltage range 5.1V to 40V	L4970A	109-4218	13.070	11.290	10.680	10.400	9.290
4971	ST	16	SOIC	3.3V to 50V, 1.5A Step-Down Switching Regulator	E-L4971D	SMD 107-7137	4.790	3.750	2.690	2.270	2.230
4972	ST	20	DIP	2A Switching Regulator. Voltage range 5.1V to 40V	L4972A	109-4219	3.670	2.990	2.420	2.240	2.130
4974	ST	20	DIP	3.5A Switching Regulator. Voltage range 5.1V to 40V	L4974A	109-4220	6.470	5.870	4.740	4.290	4.160
4975	ST	15	Multiwatt	5A Switching Regulator. Voltage range 5.1V to 40V	L4975A	109-4222	12.880	11.070	8.940	8.030	7.740
4978	ST	8	DIP	3.3V to 50V, 2A Step-Down Switching Regulator	E-L4978	107-7138	2.900	2.390	1.890	1.710	1.660
4978	ST	16	SOIC	3.3V to 50V, 2A Step-Down Switching Regulator	E-L4978D	SMD 107-7139	2.230	1.830	1.480	1.440	1.400
4981	ST	20	DIP	Power Factor Corrector. Fixed Frequency. Low start-up Current 300µA	E-L4981A	988-2456	4.780	3.570	2.620	– –	– –
4981	ST	20	DIP	Power Factor Corrector. Modulated Frequency. Low start-up Current 300µA	L4981B	109-4223	4.670	3.710	3.090	– –	– –
4981	ST	20	SOIC	Power Factor Corrector. Modulated Frequency. Low start-up Current 300µA	L4981BD	SMD 109-4224	5.940	5.040	3.590	– –	– –
5000	NSC	16	TSSOP	High Voltage Switch Mode Regulator	LM5000-3MTC	SMD 977-9337	3.820	2.840	2.230	– –	– –
5000	NSC	16	LLP	2A High Voltage Switch Mode Regulator	LM5000SD-3/NOPB	NEW SMD 168-5657	4.000	3.290	2.700	2.470	2.210
5001	NSC	8	LLP	HV Switch Mode Voltage Regulator	LM5001SD	SMD 137-0032	2.670	2.140	1.800	1.520	1.370
5001	TI	8	SOIC	PWM control circuit With Reference Voltage tolerance of 3%	TL5001ACD	SMD 110-0958	1.050	0.760	0.540	– –	– –
5001	TI	8	PDIP	PWM Controller	TL5001AIP	845-3624	1.120	0.760	0.540	– –	– –
5001	TI	8	SOIC	PWM control circuit With Reference Voltage tolerance of 5%	TL5001CD	SMD 110-6061	0.810	0.600	0.460	– –	– –
5001	TI	8	SOIC	PWM control circuit With Reference Voltage tolerance of 5%	TL5001CD.	SMD 501-2053	0.450	0.360	0.310	– –	– –
5001	TI	8	SOIC	PWM Controller	TL5001CDR	SMD 845-3632	0.810	0.600	0.460	– –	– –
5001	TI	8	PDIP	PWM Controller	TL5001CP	845-3640	0.770	0.570	0.450	– –	– –
5001	TI	8	SOIC	PWM Controller with Wide Input Range	TL5001QDG4	SMD 147-1220	0.730	0.580	0.490	0.400	0.380
5001	NSC	8	SOIC	High Voltage Switch Mode Regulator	LM5001MA	SMD 132-5417	2.460	2.080	1.750	1.510	1.360
5002	NSC	8	SOIC	High Voltage Switch Mode Regulator	LM5002MA	SMD 132-5418	2.200	1.850	1.580	1.400	1.240
5005	NSC	20	TSSOP	BUCK Voltage Regulator, 2.5A, 75V	LM5005MH	SMD 128-6761	5.660	3.610	2.630	– –	– –
5007	NSC	8	LLP	Step Down Switching Regulator	LM5007SD/NOPB	NEW SMD 168-5543	3.380	2.630	2.150	1.980	1.770
5007	NSC	–	–	Evaluation Board, LM5007	LM5007EVAL	SMD 579-6258	34.550	– –	– –	– –	– –
5007	NSC	8	MSOP	Switching Regulator, Step Down, High Voltage	LM5007MM	SMD 977-9345 RL	1.930	1.910	1.550	– –	– –
5008	NSC	8	MSOP	High Voltage (100V) Step Down Switching Regulator	LM5008MM	SMD 818-1721 RL	2.450	2.040	1.650	– –	– –
5008	NSC	8	LLP	Step Down Switching Regulator	LM5008SD/NOPB	NEW SMD 168-5544	3.610	2.810	2.300	2.100	1.890
5010	NSC	14	TSSOP	1A Step Down Switching Regulator	LM5010MH/NOPB	NEW SMD 168-5658	3.820	3.130	2.560	2.350	2.100
5010	NSC	14	TSSOP	BUCK Voltage Regulator, 1A, 6V-75V	LM5010AMH	SMD 128-6762	3.610	2.330	1.720	– –	– –
5010	NSC	10	LLP	High Voltage 1A Step Down Switching Regulator	LM5010SD	SMD 100-8257	3.720	2.970	2.300	– –	– –
5020	NSC	10	MSOP	100V Current Mode PWM Controller	LM5020MM-1	SMD 818-1730	1.860	1.630	1.240	– –	– –
5020	NSC	10	MSOP	100V Current Mode PWM Controller	LM5020MM-2	SMD 818-1748	1.510	1.230	0.940	– –	– –
5021	NSC	8	MSOP	AC-DC Current Mode PWM Controller	LM5021MM-1	SMD 131-2589	1.040	0.860	0.730	0.720	0.700
5021	NSC	8	MSOP	AC-DC Current Mode PWM Controller	LM5021MM-2	SMD 131-2590	0.690	0.580	0.510	0.500	0.480
5021	NSC	8	MDIP	PWM Controller, AC-DC Single Ended	LM5021NA-1	128-6763	0.840	0.670	0.550	0.530	0.520
5021	NSC	8	MDIP	PWM Controller, AC-DC Single Ended	LM5021NA-2	128-6764	0.750	0.610	0.500	0.490	0.480
5022	NSC	10	MSOP	60V Low Side Controller for Boost and SEPIC	LM5022MM	SMD 132-5423	2.080	1.700	1.450	1.260	1.160
5025	NSC	16	TSSOP	Active ClAmp Voltage Mode PWM Controller	LM5025AMTC	SMD 100-8258	1.690	1.350	1.050	– –	– –
5025	NSC	16	TSSOP	Active ClAmp Voltage Mode PWM Controller	LM5025MTC	SMD 818-1756	2.660	2.200	1.790	– –	– –
5026	NSC	16	TSSOP	PWM Controller, Active Current Mode	LM5026MT	SMD 128-6765	1.920	1.350	1.090	0.950	0.880
5030	NSC	10	MSOP	100V Push-Pull Current Mode PWM Controller	LM5030MM	SMD 977-9353	1.850	1.360	1.080	– –	– –
5032	NSC	16	TSSOP	High Voltage Dual Interleaved Current Mode Controller	LM5032MTC	SMD 100-8029	2.010	1.460	1.170	– –	– –
5033	FCH	32	MLP	8-bit programmable 2 to 3-phase Synchronous Buck Controller	FAN5033MPX	SMD 149-5490	1.360	0.930	0.660	0.620	0.570
5033	NSC	10	MSOP	100V Push-Pull Voltage Mode PWM Controller	LM5033MM	SMD 131-2591	1.300	1.070	0.920	0.840	0.820
5041	NSC	16	TSSOP	Cascaded PWM Controller	LM5041AMTC	SMD 100-8259	5.330	3.610	2.960	– –	– –
5041	NSC	16	TSSOP	PWM Controller, cascaded	LM5041MTC	SMD 977-9361	5.090	3.610	2.960	– –	– –
5068	NSC	8	MSOP	Negative Voltage Hot Swap Controller	LM5068MM-1	SMD 100-8260	2.510	1.990	1.550	– –	– –
5068	NSC	8	MSOP	Negative Voltage Hot Swap Controller	LM5068MM-3	SMD 100-8261	1.740	1.390	1.080	– –	– –

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Power Supply ICs - continued

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
5068	NSC	8	MSOP	Negative Voltage Hot Swap Controller	LM5068MM-4	SMD 100-8263	2.250	1.800	1.400	– –	– –
5069	NSC	10	MSOP	Positive High Voltage Hot Swap / Inrush Current Controller with Power Limiting, Latch Off Fault Response	LM5069MM-1	SMD 129-0932	3.470	2.630	1.990	– –	– –
5069	NSC	10	MSOP	Positive High Voltage Hot Swap / Inrush Current Controller with Power Limiting, Auto Restart Fault Response	LM5069MM-2	SMD 129-0933	2.350	1.680	1.270	– –	– –
5070	MAX	8	SOIC	Current-Mode PWM Controllers	MAX5070BASA+	NEW SMD 167-3160	1.850	1.320	1.030	0.930	0.840
5070	NSC	16	TSSOP	Integrated Power Over Ethernet PD Interface and PWM Controller, 50% Duty Cycle	LM5070MTC-50	SMD 912-3520	3.610	2.450	2.000	– –	– –
5072	NSC	16	TSSOP	Integrated 100V Power Over Ethernet PD Interface and PWM Controller with Aux Support.	LM5072MH-50	SMD 128-6768	3.010	2.460	2.090	1.820	1.660
5072	NSC	16	TSSOP	Integrated 100V Power Over Ethernet PD Interface and PWM Controller with Aux Support.	LM5072MH-80	SMD 128-6769	3.230	2.270	1.830	1.600	1.490
5073	NSC	14	TSSOP EXP PAD	100V Power Over Ethernet PD Interface.	LM5073MH	SMD 134-2330	2.010	1.670	1.450	1.240	1.110
5080	NSC	8	MSOP	Modular Current Sharing Controller	LM5080MM	SMD 131-2592	0.700	0.590	0.490	0.460	0.450
5094	MAX	8	UMAX	Single-Ended Current-Mode PWM Controller	MAX5094AAUA+	NEW SMD 167-3161	1.850	1.320	1.030	0.930	0.840
5094	MAX	8	SOIC	Single-Ended Current-Mode PWM Controller	MAX5094BASA+	NEW SMD 167-3162	1.850	1.320	1.030	0.930	0.840
5098	MAX	32	TQFN	Dual, 2.2MHz, Automotive Buck or Boost Converter	MAX5098AATJ+	NEW SMD 167-3109	5.970	4.270	3.320	2.990	2.710
5099	MAX	32	TQFN	Dual, 2.2MHz, Automotive Synchronous Buck Converter	MAX5099ATJ+	NEW SMD 167-3108	5.970	4.270	3.320	2.990	2.710
5100	TI	16	TSSOP	Low Input Voltage Triple-Channel (2 Boost, 1 Buck/Boost) Controller	TPS5100IPW	SMD 147-1232	2.110	1.690	1.410	1.180	1.140
5102	TI	30	TSSOP	Dual Output Synchronous Buck Controller	TPS5102IDBTG4	SMD 123-4986	5.330	3.990	3.020	2.720	2.470
5103	TI	20	SSOP	Buck Converter, Single Channel	TPS5103IDB	SMD 845-7530	2.980	2.320	1.730	– –	– –
5009	NSC	8	Mini SOIC	150 mA, 100V Step-Down Switching Regulator.	LM5009MM	SMD 131-2791	2.300	1.700	1.400	1.120	1.000
5026	NSC	16	LLP	Active Clamp Current Mode PWM Controller	LM5026SD	SMD 134-2341	2.660	2.100	1.570	1.470	1.430
5035	NSC	24	LLP	PWM Controller with Integrated Half-Bridge & SyncFET Driver	LM5035ASQ/NOPB	NEW SMD 168-5773	3.820	3.130	2.560	2.350	2.100
5035	NSC	20	TSSOP	PWM Controller with Integrated Half-Bridge and SyncFET	LM5035MH/NOPB	NEW SMD 168-5785	3.820	3.130	2.560	2.350	2.100
5070	NSC	16	TSSOP	Power Over Ethernet PD Interface & PWM Controller	LM5070MTC-80/NOPB	NEW SMD 168-5659	2.900	2.390	1.950	1.790	1.600
5071	NSC	16	TSSOP	Power Over Ethernet PD Controller	LM5071MT-80/NOPB	NEW SMD 168-5768	2.900	2.390	1.950	1.790	1.600
5112	TI	24	QFN	Dual, Synchronous Step Down Controller for Low Voltage System Power	TPS51124RGET	SMD 147-1233	4.090	3.210	2.390	2.050	1.920
5115	NSC	16	TSSOP	Secondary Side Post Regulator/DC-DC Converter	LM5115AMT	SMD 132-0977	3.610	2.900	2.400	2.000	1.870
5116	NSC	20	TSSOP	Wide Range Synchronous Buck Controller.	LM5116MH	SMD 134-2345	5.010	4.020	3.260	2.810	2.510
5120	TI	30	TSSOP	Dual Output, Two-Phase Synchronous Buck Controller With Wide Input Voltage Range	TPS5120DBTG4	SMD 123-4735	5.420	4.060	3.060	2.760	2.510
5536	TI	16	HTSSOP	3A, Dual Non-Synchronous Buck Converter w/ High-Side MOSFET.	TPS55386PWP	NEW SMD 168-4753	5.720	4.460	3.640	3.080	2.870
5336	FCH	6	MLP	1.5MHz 33V Supply boost converter with integrated FET	FAN5336MPX	SMD 149-5492	0.930	0.680	0.620	0.510	0.490
5538	TI	16	HTSSOP	3A, Dual Non-Synchronous Buck Converter w/ High-Side MOSFET.	TPS55383PWP	NEW SMD 168-4752	5.720	4.460	3.640	3.080	2.870
5350	FCH	6	MLP	3MHz 600mA DC/DC Buck Converter	FAN5350MPX	SMD 149-5493	0.820	0.580	0.540	0.470	0.430
5401	TI	5	SIP Module	Integrated Switching Regulators (ISR) Power Module, Input adjustable	PT5401A	121-6735	20.170	16.040	14.240	– –	– –
5401	TI	5	SIP Module	Integrated Switching Regulators (ISR) Power Module, Input adjustable	PT5401A.	441-9996	3.820	– –	– –	– –	– –
5410	TI	8	SOIC	1A Wide Input Range Step-Down Converter.	TPS5410DG4	SMD 132-9596	2.370	1.870	1.570	– –	– –
5420	TI	8	SOIC	5.5V to 36V, 2A Step Down Converter.	TPS5420DG4	SMD 126-2365	2.520	2.010	1.680	1.570	1.460
5430	TI	8	HSOP	PWM Converter	TPS5430DDAG4	SMD 122-0987	2.780	2.440	2.170	1.850	1.690
5431	TI	8	SOIC	5.5V to 23V, 3A Step Down Converter.	TPS5431DDAG4	SMD 126-2367	2.590	2.050	1.730	1.600	1.500
5450	TI	8	SO PowerPAD	5A Continuous Adjustable Voltage O/P Step Down SWIFT Converter	TPS5450DDA	NEW SMD 156-4960	4.540	3.750	3.330	2.730	2.310
5511	LT	16	TSSOP	High Signal Level Upconverting Mixer	LT5511EFE#PBF	SMD 127-3461	4.380	2.850	2.410	– –	– –
5512	LT	16	QFN	High Signal Level Downconverting Mixer	LT5512EUF#PBF	SMD 127-3463	6.970	4.240	3.340	– –	– –
5519	LT	16	QFN	700MHz to 1.4GHz Upconverting Mixer.	LT5519EUF#PBF	SMD 127-3465	5.020	3.480	3.090	– –	– –
5521	LT	16	QFN	Very High Linearity Upconvert Mixer	LT5521EUF#PBF	SMD 127-3467	9.340	5.690	4.480	– –	– –
5522	LT	16	QFN	600MHz to 2700MHz Downconverting Mixer.	LT5522EUF#PBF	SMD 127-3468	9.810	5.980	4.710	– –	– –
5526	LT	16	QFN	2GHz Low Power Downconverting Mixer.	LT5526EUF#PBF	SMD 127-3470	6.430	3.910	3.080	– –	– –
5550	NSC	16	LLP	PowerWise™ Technology Compliant Energy Management Unit	LP5550SQ	SMD 131-2854	6.000	4.720	3.840	3.300	2.950
5574	NSC	16	TSSOP	75V, 0.5A Step-Down Switching Regulator	LM5574MT	SMD 132-5419	3.440	2.820	2.200	2.040	1.860
5575	NSC	16	TSSOP	75V, 1.5A Step-Down Switching Regulator	LM5575MH	SMD 132-5420	4.480	3.670	2.890	2.660	2.430
5576	NSC	20	TSSOP	75V, 3A Step-Down Switching Regulator.	LM5576MH	SMD 132-5422	6.060	4.640	3.560	3.460	3.230
5601	FCH	6	MLP	Regulated Step-Down Charge Pump DC/DC Converter.	FAN5601MP13X	NEW SMD 165-9468	1.500	1.140	0.930	0.860	0.790
5601	FCH	6	MLP	Regulated Step-Down Charge Pump DC/DC Converter.	FAN5601MP18X	NEW SMD 165-9469	1.500	1.140	0.930	0.860	0.790
5632	FCH	10	MLP	Regulated Step-Down Charge Pump DC-DC Converter	FAN5632MPX	NEW SMD 165-9470	0.940	0.720	0.580	0.540	0.500
5642	NSC	28	TSSOP	Dual Synchronous Buck Converter with Oscillator Synchronization.	LM5642MH/NOPB	NEW SMD 168-5535	3.810	2.960	2.420	2.220	1.990
5642	NSC	28	TSSOP	High Voltage, Dual Synchronous Buck Converter with Oscillator Synchronization from the PowerWise® Family	LM5642XMT	SMD 149-5083	3.050	2.440	2.030	1.740	1.630
5665	FCH	8	WLCSP	High Efficiency Adaptive Charge pump 5V Boost	FAN5665UCX	NEW SMD 165-9471	0.850	0.640	0.530	0.490	0.440
5900	NSC	4	Bump Micro SMD	Regulator for RF/Analog Circuit, 0.1A	LP5900TL-1.9	SMD 134-2322	0.590	0.490	0.480	0.470	0.460
5970	ST	8	SOIC	1.2V to 35V, Up-to 1A Step-Down Switching Regulator	E-L5970D	SMD 107-7141	1.500	1.450	1.420	1.370	1.330
5972	ST	8	SOIC	1.235V to 35V, 2A Switch Step-Down Switching Regulator	E-L5972D	SMD 107-7142	2.310	1.970	1.620	1.590	1.540
5973	ST	8	HSOP	1.235V to 35V, 2A Switch Step-Down Switching Regulator	E-L5973AD	SMD 107-7143	4.010	3.270	2.310	2.030	1.890
5973	ST	8	HSOP	1.235V to 35V, 2.5A Switch Step-Down Switching Regulator	E-L5973D	SMD 107-7145	2.340	1.910	1.550	1.510	1.470
6004	INTS	20	SOIC	Buck & Synchronous-Rectifier PWM Controller with Output Voltage Monitor	HIP6004ECBZ	NEW SMD 156-1992	4.230	3.160	2.520	2.110	1.810
6004	INTS	20	SOIC	Buck and Synchronous-Rectifier (PWM) Controller with Dual MOFET Driver & O/P Voltage Monitor	HIP6004BCBZ	NEW SMD 156-2063	3.180	2.390	1.910	1.590	1.360
6108	TOR	5	SOT-25	Voltage Detector With Sense Pin & Ext. Delay (CMOS output)	XC6108C27AMR	SMD 127-6449	0.500	0.410	0.330	– –	– –
6108	TOR	5	SOT-25	Voltage Detector With Sense Pin & Ext. Delay (N-ch open drain output)	XC6108N27AMR	SMD 127-6450	0.530	0.440	0.360	– –	– –
6133	SIP	16	QFN	Synchronous Buck Controller	SP6133ER1-L	SMD 131-7814	1.750	1.350	1.130	1.050	0.980
6134	SIP	10	MSOP	High Voltage, 600 KHz Synchronous PWM Controller	SP6134HEU-L	SMD 131-7815	1.750	1.350	1.130	1.050	0.980
6136	SIP	16	QFN	Synchronous Buck Controller	SP6136ER1-L	SMD 131-7816	1.570	1.210	1.020	0.940	0.880
6138	SIP	16	QFN	Synchronous Buck Controller	SP6138ER1-L	SMD 131-7818	1.940	1.490	1.250	1.180	1.090
6225	MAX	8	SOIC	2.5V Precision Voltage Reference	MAX6225BCSA+	NEW SMD 161-0115	3.420	2.800	2.290	1.940	1.810
6251	INTS	28	QFN	Multi-Chemistry Battery Charger Controller	ISL6251HRZ	NEW SMD 165-9417	5.100	3.960	3.240	2.970	2.740
6257	INTS	28	QFN	VDC Battery Charger for Notebook Computer	ISL6257HRZ	NEW SMD 165-9419	5.800	4.510	3.690	3.390	3.120
6292	INTS	16	QFN	Li-ion/Li Polymer Battery Charger 2A Charge Current.	ISL6292-2CR4Z	NEW SMD 156-2051	1.520	1.140	0.910	0.770	0.650
6324	FCH	6	SOT	Integrated Load Switch	FDC6324L	SMD 141-7675	0.350	0.260	0.210	0.176	0.153
6325	MAX	8	SOIC	2.5V Precision Voltage Reference	MAX6325ESA+	NEW SMD 161-0117	11.920	10.070	8.230	6.970	6.470
6351	TOR	6	SOT-26	Low Current charge pump, operates 1.2V to 5.0V negative Voltage generator.	XC6351A120MR	SMD 360-5863	1.800	1.530	1.370	– –	– –
6524	INTS	28	SOIC	PWM and Triple Linear Power System Controller	ISL6524CBZ	NEW SMD 156-2020	5.560	4.180	3.350	2.790	2.390
6556	INTS	28	SOIC	PWM Controller with 6-Bit DAC	ISL6556BCBZ	NEW SMD 156-1993	4.570	3.430	2.740	2.270	1.950
6561	INTS	40	QFN	1MHz Multi-Phase Quad PWM Controller	ISL6561CRZ	NEW SMD 156-2057	4.940	3.700	2.970	2.470	2.110
6561	ST	8	DIP	Power Factor corrector. Micro Power start-up Current 90μA, Disable Feature	E-L6561	988-2480	1.010	0.820	0.710	– –	– –
6561	ST	8	SOIC	Power Factor corrector. Micro Power start-up Current 90μA, Disable Feature	E-L6561D	SMD 988-2464	1.010	0.820	0.680	– –	– –
6562	ST	8	SOIC	Transition-Mode PFC Controller.	E-L6562D	SMD 107-7148	0.940	0.820	0.600	0.480	0.420

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	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
6565	ST	8	SOIC	Quasi-Resonant SMPS Controller	E-L6565D	SMD 107-7149	1.510	1.290	0.930	0.710	0.700
6652	SIP	10	DFN	1A, High Efficiency, Fixed 1.4 MHz Current Mode PWM Buck Regulator	SP6652EU-L	SMD 131-7826	1.520	1.170	0.970	0.910	0.850
6725	ST	16	SO	Voltage mode PWM controller With bootstrap anti-discharging system	L6725	SMD 127-0994	0.770	0.670	0.590	0.530	0.470
6726	ST	8	SOIC	Single phase controller with integrated drivers for dc-dc power conversion	L6726A	SMD 146-2479	1.240	1.010	0.840	0.760	0.670
6727	ST	8	SOIC	Single phase controller with integrated drivers for dc-dc power conversion	L6727	SMD 146-2480	1.070	0.820	0.690	0.620	0.580
6730	ST	20	HTSSOP	Adjustable Step-Down Controller With Synchronous Rectification	L6730	SMD 127-0996	1.340	0.990	0.790	0.720	0.710
6731	ST	16	HTSSOP	Adjustable Step-Down Controller With Synchronous Rectification Dedicated to DDR Memory	L6731B	SMD 127-0997	0.890	0.790	0.700	0.640	0.580
6731	ST	16	HTSSOP	Adjustable Step-Down Controller With Synchronous Rectification Dedicated to DDR Memory	L6731D	SMD 127-0998	1.360	1.210	1.070	1.000	0.970
6734	TI	8	SOIC	DC-DC Converter, 120mA 12V	TPS6734ID	SMD 845-8111	2.230	1.520	1.130	– –	– –
6734	TI	8	PDIP	DC-DC Converter, 120mA 12V	TPS6734IP	845-8120	2.230	1.520	1.130	– –	– –
6735	TI	8	SOIC	Switching Regulator, INV 200mA 5V	TPS6735ID	SMD 845-8138	2.230	1.520	1.130	– –	– –
6755	TI	8	PDIP	Switching Regulator, INV ADJ	TPS6755IP	845-8146	1.260	1.040	0.910	– –	– –
6902	ST	8	SOIC	Up-to 1A Step-Down Switching Regulator With Adjustable Current Limit	E-L6902D	SMD 107-7151	3.420	2.630	1.880	1.610	1.450
6920	ST	8	TSSOP	1V High Efficiency Synchronous Step-Up Converter	E-L6920D	SMD 107-7152	1.650	1.420	1.040	0.950	0.920
6920	ST	8	TSSOP	High Efficiency Monolithic Synchronous Step Down Regulator	L6920DB	SMD 127-0991	2.010	1.420	1.140	0.950	0.780
6924	ST	16	VFQFPN	Battery Charger System With Integrated Power Switch for Li-Ion/ Li-Polymer	L6924D	SMD 127-0988	2.310	1.790	1.280	1.090	0.970
6928	ST	8	TSSOP	High Efficiency Monolithic Synchronous Step Down Regulator	L6928D	SMD 127-0993	1.890	1.510	1.220	1.070	0.930
6997	ST	20	TSSOP	STEP-DOWN Controller	L6997S	SMD 129-2457	3.450	2.830	2.250	2.040	1.960
7515	INTS	10	MSOP	Adjustable to 1.2MHz PWM Step-Up Regulator with MOSFET Driver O/P Current 600mA	EL7515IYZ	NEW SMD 156-2008	1.870	1.710	1.570	1.450	1.340
7527	FCH	8	SOIC	Power Factor Correction Controller	FAN7527BM	SMD 124-1881	0.840	0.560	0.390	0.280	0.230
7527	FCH	8	DIP	Power Factor Correction Controller	FAN7527BN	124-1882	0.570	0.420	0.280	0.240	0.230
7536	INTS	10	MSOP	1A Step-Down Regulator 1.4MHz PWM Controller	EL7536IYZ	NEW SMD 156-2011	3.010	2.250	1.810	1.500	1.280
7554	INTS	28	HTSSOP	Monolithic 4A DC/DC Step-Down Regulator 1MHz PWM	EL7554IREZ	NEW SMD 156-1930	5.050	3.930	3.210	2.720	2.520
7554	FCH	8	DIP	PWM Controller for Off-Line and DC to DC Converter Applications	FAN7554	124-1883	0.580	0.460	0.330	0.240	0.194
7554	FCH	8	SOIC	PWM Controller for Off-Line and DC to DC Converter Applications	FAN7554D	SMD 124-1884	0.470	0.370	0.280	0.178	0.173
7564	INTS	28	HTSSOP	4A Peak 1MHz DC/DC Step-Down Regulator Adjustable O/P 1V to 3.8V	EL7564CREZ	NEW SMD 156-2015	8.330	6.250	4.990	4.170	3.580
7601	FCH	10	SSOP	Green Current Mode PWM Controller	FAN7601G	SMD 124-1885	0.770	0.590	0.500	0.280	0.240
7601	FCH	8	SOP	Green Current Mode PWM Controller	FAN7601M	SMD 124-1887	0.770	0.590	0.500	0.280	0.240
7601	FCH	8	DIP	Green Current Mode PWM Controller	FAN7601N	124-1888	0.620	0.480	0.370	0.220	0.195
7652	FCH	6	TO-220F	SMPS Power Switch, Built-in Soft Start improved (Green), 3.8A	FSDM07652RBWDTU	124-1912	1.870	1.410	1.110	0.900	0.800
7660	INTS	8	SOIC	CMOS Voltage Inverter, Multiplier & Divider	ICL7660ACBAZA	NEW SMD 156-2068	1.150	1.010	0.810	0.670	0.580
7660	INTS	8	PDIP	CMOS Voltage Inverter, Multiplier & Divider	ICL7660ACPAZ	NEW 156-2064	1.380	1.030	0.820	0.690	0.590
7660	INTS	8	SOIC	Programmable CMOS Voltage Inverter, Multiplier or Divider	ICL7660SCBAZ	NEW SMD 156-1969	1.570	1.180	0.940	0.790	0.670
7660	INTS	8	SOIC	Programmable CMOS Voltage Inverter, Multiplier or Divider	ICL7660SIBAZ	NEW SMD 156-1990	1.590	1.390	1.120	0.930	0.800
7660	INTS	8	PDIP	1.5V to 12V I/P Adjustable Inverting Volatge Regulator	ICL7660SIPAZ	NEW 156-2016	1.760	1.310	1.050	0.880	0.770
7660	MCHIP	8	SOIC	Charge Pump DC-to-DC Voltage Converter	TC7660SEOA	SMD 143-9746	0.450	0.350	0.220	– –	– –
7660	INTS	8	SOIC	CMOS Voltage Converter	ICL7660CBAZ	SMD 966-3703	0.690	0.560	0.340	0.310	0.280
7660	INTS	8	DIP	CMOS Voltage Converter, operates 1.5 to 10V	ICL7660CPAZ	101-8170	1.220	0.570	0.350	0.290	0.250
7660	MAX	8	SOIC	Switched-Capacitor CMOS Voltage Converter, operates 1.5 to 10V	ICL7660CSA+	SMD 972-4710	2.550	1.640	1.340	– –	– –
7660	MAX	8	SOIC	Switched-Capacitor CMOS Voltage Converter, operates 1.5 to 10V.(IND TEMP)	ICL7660ESA+	SMD 972-4729	3.660	2.350	1.920	– –	– –
7660	INTS	8	DIP	CMOS Voltage Converter, operates 1.5 to 12V (improved ICL7660CPA)	ICL7660SCPAZ	966-3711	1.460	0.890	0.580	0.530	0.440
7660	TS	8	DIP	CMOS Voltage Converter, operates 1.5 to 10V. (10KHz)	TC7660CPA	976-2680	0.730	0.470	0.390	– –	– –
7660	TS	8	DIP	High Frequency, CMOS Voltage Converter, operates 1.5 to 10V. (120KHz)	TC7660HCPA	976-2698	1.990	1.490	1.230	0.940	– –
7660	TS	8	DIP	High Frequency, CMOS Voltage Converter, operates 1.5 to 10V. (120KHz)	TC7660HCPA.	703-655▲	1.460	1.090	0.890	0.690	– –
7661	MAX	8	SOIC	CMOS Voltage Converter, operates 4.5 to 20V	SI7661CSA+	SMD 972-6110	2.630	2.050	1.610	1.570	1.530
7662	MCHIP	8	PDIP	Converter, Dc-Dc, Hi Volt	TC7662AEPA	133-1512	1.860	1.420	1.170	– –	– –
7662	MCHIP	8	PDIP	Converter, Dc-Dc, Hi Volt	TC7662BCPA	133-1514	0.980	0.750	0.610	– –	– –
7662	MCHIP	8	SOIC	Converter, Dc-Dc, Hi Volt	TC7662BEOA	SMD 133-1515	1.300	1.100	0.910	– –	– –
7662	MCHIP	8	PDIP	Converter, Dc-Dc, Hi Volt	TC7662BEPA	133-1517	1.150	0.870	0.720	– –	– –
7662	MAX	8	SOIC	CMOS charge pump inverter, operates 4.5 to 20V	ICL7662CBA+	SMD 972-4737	2.760	2.140	1.750	– –	– –
7662	MAX	8	DIP	Voltage CONVERTER	ICL7662CPA+	122-8203	3.050	1.960	1.740	1.450	1.410
7662	MCHIP	8	DIP	Converter, DC to DC High Current Charge Pump	TC7662ACPA	119-6817	1.550	1.310	1.140	– –	– –
7662	MCHIP	8	SOIC	Converter, DC to DC Charge Pump	TC7662BCOA	SMD 976-2701	1.050	0.890	0.790	– –	– –
7665	INTS	8	SOIC	Dual CMOS Micropower Over/Under Voltage Detector	ICL7665SACBAZ	NEW SMD 156-1970	2.620	2.270	1.830	1.520	1.300
7665	INTS	8	PDIP	Single Channel CMOS Micropower Over/Under Voltage Detector	ICL7665SACPAZ	NEW 156-2053	2.240	1.950	1.570	1.300	1.120
7665	MAX	8	DIP	Voltage DETECTOR	ICL7665ACPA+	125-6393	4.390	2.820	2.080	1.730	1.690
7665	MAX	8	SOIC	CMOS Over and Under Voltage Detector, Low Power	ICL7665ACSA+	SMD 972-5970	4.830	3.110	2.560	2.130	2.080
7665	INTS	8	SOIC	CMOS Over and Under Voltage Detector	ICL7665SCBAZ	SMD 966-3738	1.360	1.160	1.020	0.820	0.680
7665	INTS	8	DIP	CMOS Over and Under Voltage Detector, Low Power	ICL7665SCPAZ	101-8171	1.660	1.300	0.870	0.790	0.720
7673	INTS	8	SOIC	CMOS Battery Back-Up Switch for CMOS SRAM, RTCs etc	ICL7673CBAZA	SMD 966-3746	1.740	1.260	1.090	0.880	0.690
7673	INTS	8	DIP	CMOS Battery Back-Up Switch for CMOS SRAM, RTCs etc	ICL7673CPAZ	101-8172	1.690	0.850	0.540	0.430	0.420

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	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
7705	ST	8	DIP	Supply Voltage Supervisor	TL7705ACP/A	120-2828	0.880	0.790	0.680	0.600	0.350
7726	TI	8	SOIC	Hex Clamping Circuit	TL7726CD	SMD 959-3730	1.460	0.990	0.710	– –	– –
7726	TI	8	DIP	Hex Clamping Circuit	TL7726CPG4	959-3748	1.380	1.180	1.000	– –	– –
7726	TI	8	SOIC	Hex Clamping Circuit	TL7726ID	SMD 959-3756	1.570	1.060	0.760	– –	– –
8020	LT	21	LGA	200mA, 36V DC/DC MicroModule	LTM8020EV#PBF	NEW SMD 166-3757	9.610	7.450	5.960	4.970	4.450
8021	LT	35	LGA	0.8V to 5V O/P 500mA Step-Down DC/DC Module	LTM8021EV#PBF	NEW SMD 167-3558	11.030	8.400	7.060	5.880	5.040
8023	LT	50	LGA	2A DC High Efficiency Buck-Boost DC/DC MicroModule	LTM8023IV#PBF	NEW SMD 164-7771	14.030	11.230	9.180	8.420	7.220
8211	MAX	8	DIP	MicroPower Voltage Detector Indicator - defined output Current limit	MAX8211CPA+	118-7924	2.730	1.970	1.460	1.210	– –
8211	MAX	8	SOIC	MicroPower Voltage Detector Indicator - defined output Current limit	MAX8211CSA+	SMD 972-5911	3.120	2.000	1.470	1.230	1.190
8212	MAX	8	SOIC	MicroPower Voltage Detector Indicator - High output Current	MAX8212CSA+	SMD 972-5920	2.690	1.730	1.320	1.100	1.070
8214	ADI	8	MSOP	High Voltage Threshold Detector	AD8214ARMZ	SMD 131-6452	1.770	1.200	0.860	0.800	0.740
8364	ADI	32	LFCSP	LF to 2.7GHz, Dual 60dB Detector	AD8364ACPZ-WP	SMD 111-7891	12.560	11.700	10.900	10.160	8.300
8364	NSC	5	SOT-23	MicroPower UnderVoltage Sensing Circuit	LM8364BALMF20	SMD 977-9485	0.370	0.240	0.198	– –	– –
8364	NSC	5	SOT-23	MicroPower UnderVoltage Sensing Circuit	LM8364BALMF30.	SMD 580-1217	0.105	0.075	0.074	– –	– –
8365	NSC	5	SOT-23	MicroPower UnderVoltage Sensing Circuit With Programmable Output Delay	LM8365BALMF27	SMD 977-9523 RL	0.280	0.200	0.189	– –	– –
8481	ALEG	10	DFN	Dual Output Boost Regulator Using Single Inductor	A8481EEJTR-T	NEW SMD 165-0237	1.130	1.010	0.820	0.700	0.680
8498	ALL	8	SOIC	Reg, Buck, 3A 50V	A8498SLJ-T	SMD 132-9621	1.160	0.790	0.740	0.720	0.710
8499	ALL	8	SOIC	Reg, Buck, 1.5A 50V	A8499SLJ-T	SMD 132-9622	1.050	0.930	0.820	0.720	0.660
8546	MAX	10	UMAX	0.8V to 23V 15A Adju. Step-Down Controller	MAX8546EUB+	NEW SMD 167-3227	2.140	1.530	1.190	1.070	0.970

RL Re-reeling available

Farnell

Power Supply ICs - continued

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
8620	MAX	14	TDFN-EP	0.5A Adjustable 0.6V to 3.3V DC-DC Converter & 2 Fixed 300mA Voltage Reg.	MAX8620YETD+T	NEW SMD 160-9614	3.020	2.690	2.300	2.050	1.820
8660	MAX	40	TQFN	1.6A with 5 Preset Voltage O/P Step Down Regulator.	MAX8660ETL+	NEW SMD 159-3388	7.390	5.740	5.170	4.320	3.710
8677	MAX	24	TQFN-EP	USB or AC I/P 1.5A O/P 1-cell Li-Ion Charger	MAX8677AETG+	NEW SMD 159-3391	3.210	2.480	2.250	1.860	1.590
8692	ADI	8	PDIP	µP Supervisor , Watchdog Feature, Power Fail Warning	ADM8692ANZ	143-9116	3.830	2.450	2.150	– –	– –
8694	ADI	8	PDIP	µP Supervisor with Backup Battery Switchover	ADM8694ANZ	143-9117	3.830	2.450	2.150	– –	– –
8695	ADI	16	WSOIC	µP Supervisor with Backup Battery Switchover	ADM8695ARWZ	SMD 143-9118	4.130	2.620	2.310	– –	– –
8696	ADI	16	PDIP	µP reset, backup battery switchover, watchdog timer, CMOS RAM write protection and power failure warning	ADM8696ANZ	143-9119	3.830	2.450	2.150	– –	– –
8697	ADI	16	PDIP	µP Supervisor with Chip Enable Signals.	ADM8697ANZ	143-9120	3.830	2.450	2.150	– –	– –
8698	ADI	8	PDIP	µP Supervisory Circuit with 4.65V Threshold Voltage, Low Supply Current and Active Low Reset Output.	ADM8698ANZ	143-9122	2.830	1.810	1.590	– –	– –
8699	ADI	8	PDIP	µP Supervisory Circuit with Watchdog Feature, 4.65V Threshold Voltage, Low Supply Current and Active Low Reset Output	ADM8699ANZ	143-9123	2.830	1.810	1.590	– –	– –
8724	MAX	28	TQFN	Multi Cell/Type Battery Charger	MAX8724ETI+	NEW SMD 159-3392	8.540	6.650	5.980	4.980	4.280
8819	MAX	28	TQFN	PMIC with Integrated Charger and Smart Power Selector	MAX8819CETI+	NEW SMD 167-3079	7.780	5.550	4.320	3.890	3.540
8832	ADI	20	LFCSP	Charge Pump Regulator for Colour TFT Panel	ADM8832ACPZ	NEW SMD 165-1324	3.250	2.530	2.080	1.900	1.820
8839	ADI	20	LFCSP	Charge Pump Regulator for Colour TFT Panel	ADM8839ACPZ	NEW SMD 165-1325	3.120	2.430	1.990	1.820	1.740
9001	ON	5	TSOP	DC-DC Converter Step-down/ PWM 0.6A	NCP9001SNT1G	SMD 136-9748	0.790	0.590	0.500	0.450	0.430
9080	TI	32	QFN	Power Supply Sequencer and Monitor	UCD9080RHBTG4	SMD 149-4901	5.130	3.570	2.970	2.670	2.640
9116	TOR	5	SOT-23	DC/DC Converter, 1MHz Backlight LED Driver With Over-Voltage limit	XC9116B02AMR	SMD 105-7813	0.850	0.770	0.690	– –	– –
9119	TOR	5	SOT-25	1MHz, PWM Controlled,Step-Up DC/DC Converter, Ceramic Capacitor Compatible	XC9119D10AMR	SMD 127-6457	1.150	0.940	0.770	– –	– –
9120	SLX	16	DIP	Universal Input Switchmode Controller. 50V to 450V Input.	SI9120DJ-E3	107-7127	4.540	3.170	2.580	2.210	1.780
9145	SLX	16	SOIC	Low Voltage PWM Controller.	SI9145BY	SMD 107-7081	6.130	3.950	3.120	1.950	1.820
9201	TOR	8	MSOP	Converter, Step-down DC/DC PWM controlled.	XC9201C33AKRN	SMD 110-6663	1.070	0.940	0.740	– –	– –
9201	TOR	8	MSOP	Converter, Step-down DC/DC PWM controlled.	XC9201C50AKRN	SMD 110-6662	1.070	0.940	0.740	– –	– –
9201	TOR	8	MSOP	Converter, Step-down DC/DC Adj PWM controlled.	XC9201D09AKRN	SMD 110-6664	1.370	1.190	0.950	– –	– –
9203	INTS	10	DFN	Li-ion/Li Polymer Battery Charger	ISL9203CRZ-TR5220	NEW SMD 136-1031	1.340	0.960	0.770	0.610	0.570
9207	TOR	5	SOT-23-5	Converter, Step-Down DC/DC PWM/PFM Switchable Driver	XC9207A33CMRN	SMD 110-6660	0.930	0.800	0.630	– –	– –
9209	INTS	12	TDFN	Charging System Safety Circuit	ISL9209IRZ	NEW SMD 165-9422	0.710	0.550	0.460	0.420	0.380
9212	INTS	12	TDFN	Charging System Safety Circuit	ISL9212IRZ	NEW SMD 165-9423	0.820	0.630	0.520	0.480	0.450
9212	INTS	12	TDFN	Charging System Safety Circuit	ISL9212AIRZ	NEW SMD 165-9424	0.820	0.630	0.520	0.480	0.450
9216	TOR	5	SOT-25	500mA Synchronous Step-Down DC/DC Converter, 1.2V	XC9216A12CMR	SMD 879-7080	1.160	1.000	0.800	– –	– –
9216	TOR	5	SOT-25	500mA Synchronous Step-Down DC/DC Converter, 1.8V	XC9216A18CMR	SMD 879-7102	1.160	1.000	0.800	– –	– –
9221	TOR	5	SOT-25	300kHz Step down DC/DC controller	XC9221C093MR	SMD 145-4273	1.710	1.360	1.130	0.930	0.900
9221	TOR	5	SOT-25	500kHz Step down DC/DC controller	XC9221C095MR	SMD 145-4275	1.680	1.330	1.110	0.910	0.880
9221	TOR	5	SOT-25	1MHz Step down DC/DC controller	XC9221C09AMR	SMD 145-4276	1.710	1.360	1.130	0.930	0.900
9223	TOR	10	MSOP	1.0A Sync DC/DC Converter, 1MHz Driver Transistor.	XC9223B081AR	SMD 105-7814	1.910	1.630	1.330	– –	– –
9226	TOR	5	SOT-23	500mA Sync Stepdown DC/DC Converter, PWM/PFM Auto Switch Control	XC9226A12CMR	SMD 105-7815	1.060	0.920	0.750	– –	– –
9226	TOR	5	SOT-23	500mA Sync Stepdown DC/DC Converter, PWM/PFM Auto Switch Control	XC9226A15CMR	SMD 105-7816	1.160	1.000	0.810	– –	– –
9226	TOR	5	SOT-23	500mA Sync Stepdown DC/DC Converter, PWM/PFM Auto Switch Control	XC9226A18CMR	SMD 105-7817	1.160	1.000	0.810	– –	– –
9226	TOR	5	SOT-25	500mA Synchronous Step-Down DC/DC Converter (3.0V)	XC9226A30CMR	SMD 127-6447	1.270	1.030	0.850	– –	– –
9226	TOR	5	SOT-25	500mA Synchronous Step-Down DC/DC Converter (3.3V)	XC9226A33CMR	SMD 127-6448	1.270	1.030	0.850	– –	– –
9240	TI	80	QFP	Digital Point of Load System Controller	UCD9240PFC	NEW SMD 167-9770	9.430	7.320	6.000	5.500	4.840
9241	SLX	8	SOIC	Single-Ended Bus Driver	SI9241EY	SMD 107-7083	1.970	1.190	0.990	0.560	0.500
9301	INTS	10	DFN	High Input Voltage Charger With Power Path Management	ISL9301IRZ	NEW SMD 165-9425	2.500	1.950	1.590	1.460	1.350
9788	MAX	28	TQFN-EP	14VP-P Mono Class G Ceramic Speaker Driver	MAX9788ETI+	NEW SMD 159-3409	1.330	1.010	0.930	0.770	0.660
9801	TOR	8	MSOP	Low Current Step-Up Charge Pump, Output 2.5V to 5.2V.	XC9801B503KR	SMD 360-5875	1.990	1.700	1.520	– –	– –
10503	TI	12	SOIC	DC-DC Converter 1W Regulated	DCR010503UE4	SMD 120-6891	9.320	7.370	6.210	– –	– –
10505	TI	7	DIP	Miniature, 1w Isolated Unregulated Dc/Dc Converters	DCP010505BP	120-4767	7.940	6.090	5.170	– –	– –
10505	TI	7	SOP	DC-DC Converter.	DCP010505BP-UE4	SMD 120-6888	7.810	6.270	5.260	– –	– –
10505	TI	7	DIP	DC-DC Converter. 1 Watt.	DCP010505DBP	120-6889	8.760	6.720	5.700	– –	– –
10505	TI	18	DIP	5Vin/5Vout, 1W Isolated, output regulated DC-DC converter. (IND TEMP).	DCR010505P	121-4382	8.800	6.980	5.850	– –	– –
10505	TI	12	SOIC	DC-DC Converter, 1W Regulated	DCR010505U	SMD 121-2384	9.360	7.170	6.080	– –	– –
10512	TI	14	DIP	5V in/±12V out, 1W isolated DC-DC convertor.	DCP010512BP	121-4388	7.940	6.090	5.170	– –	– –
10512	TI	7	DIP	DC / DC Converter.	DCP010512DBPE4	120-6890	8.630	6.910	5.800	– –	– –
10515	TI	4	SIP Module	1W 3kV Isolated Unregulated DC/DC Converter	DCH010515SN7	NEW 156-4914	8.170	6.740	5.990	4.900	4.150
10515	TI	7	DIP	Miniature, 1W Isolated Unregulated DC/DC Converter.	DCP010515DBP	141-7412	7.370	6.370	5.700	– –	– –
11205	TI	12	SOIC	DC-DC Converter 1W Regulated	DCR011205U	SMD 121-2385	9.320	7.370	6.210	– –	– –
11515	TI	14	DIP	15V In/15V Out, Dual Output, 1W Isolated DC-DC Convertor with Thermal Shutdown & Overload Protection	DCP011515DBP	121-4389	8.420	6.910	5.800	– –	– –
12201	SLX	10	MLP33	SYNCYRONOUS STEP DOWN CONTROLLL	SIP12201DM-T1-E3	NEW SMD 149-7652	1.060	0.860	0.710	0.610	0.570
12202	SLX	10	MLP33	SYNCYRONOUS STEP DOWN CONTROLLL	SIP12202DM-T1-E3	NEW SMD 149-7653	0.920	0.720	0.610	0.530	0.490
17000	MAX	24	QFN	DDR2 & DDR3 Power Management Solution	MAX17000ETG+	NEW SMD 167-3134	6.550	4.670	3.640	3.270	2.980
17019	MAX	48	TQFN	High-Input-Voltage Quad-Output Controller	MAX17019ATM+	NEW SMD 167-3084	9.920	7.440	5.950	5.410	4.960
17065	MAX	28	TQFN	Dual SMPS Outputs LDO & Dual Charge Pumps with I2C for OLED	MAX17065ETI+	NEW SMD 167-3089	2.290	1.640	1.280	1.150	1.050
17101	MAX	32	QFN	Dual Quick-PWM, Step-Down Controller	MAX17101ETJ+	NEW SMD 167-3107	8.530	6.090	4.740	4.270	3.880
18730	FSL	64	QFN	Serial Interface Controlled for Five Separate Regulated Outputs	MPC18730EP.	NEW SMD 160-5509	6.930	6.070	4.850	4.050	3.380
18730	FSL	64	QFN	Serial Interface Controlled for Five Separate Regulated Outputs	MPC18730EP.	NEW SMD 160-5509	6.930	6.930	6.930	6.930	6.930
20133	NSC	16	TSSOP	3A Synchronous Buck Regulator with Clock Synchronization.	LM20133MH	NEW SMD 149-5075	3.390	2.560	2.370	2.020	1.910
20144	NSC	16	TSSOP	4A Selectable Frequency Synchronous Buck Regulator	LM20144MH	NEW SMD 149-5076	3.390	2.670	2.510	2.460	2.370
20145	NSC	16	TSSOP	5A Selectable Frequency Synchronous Buck Regulator	LM20145MH	NEW SMD 149-5077	3.710	3.530	2.980	2.730	2.560
20242	NSC	20	TSSOP	36V, 2A Step-Down Synchronous Switching Regulator	LM20242MH	NEW SMD 149-5078	3.810	2.890	2.560	2.370	2.200
20323	NSC	20	TSSOP	500 kHz Synchronous Buck Regulator	LM20323MH	NEW SMD 166-3035	5.990	4.660	3.820	3.500	3.000
20323	NSC	20	TSSOP	500 kHz Synchronous Buck Regulator	LM20323MHE	NEW SMD 166-3036	5.990	4.660	3.820	3.500	3.000
20333	NSC	20	TSSOP	3A PowerWise Synchronous Buck Regulator	LM20333MH	NEW SMD 166-3037	5.990	4.660	3.820	3.500	3.000
20333	NSC	20	TSSOP	3A PowerWise Synchronous Buck Regulator	LM20333MHE	NEW SMD 166-3038	5.990	4.660	3.820	3.500	3.000
20343	NSC	20	TSSOP	3A Adjustable Frequency Synchronous Buck Regulator	LM20343MH	NEW SMD 166-3009	5.240	4.660	3.820	3.500	3.000
20343	NSC	20	TSSOP	3A Adjustable Frequency Synchronous Buck Regulator	LM20343MHE	NEW SMD 166-3011	5.240	4.660	3.820	3.500	3.000
20503	TI	12	SOP	2W 3.3V Isolated Unregulated DC/DC Converter.	DCP020503U	NEW SMD 154-4011	9.780	8.850	8.080	7.430	6.580
22400	MICR	20	MLF	4A Integrated Switch Synchronous Buck Regulator	MIC22400YML TR	NEW SMD 166-3072	4.320	3.310	2.740	2.380	2.190
20505	TI	14	DIP	5Vin/5Vout, 2W Isolated DC-DC converter. (IND TEMP).	DCP020505P	121-4376	10.280	8.160	6.840	– –	– –
20505	TI	28	SOIC	5Vin/5Vout, 2W Isolated DC-DC converter. (IND TEMP).	DCP020505UE4	SMD 121-4381	10.410	8.260	6.920	– –	– –
20515	BB	14	DIP	5Vin/ ±15Vout, 2W Isolated DC-DC converter. (IND TEMP).	DCP020515DP	109-7501	10.170	8.470	7.140	– –	– –
20515	TI	12	SOIC	DC / DC Converter.	DCP020515DU	SMD 121-2381	10.480	8.030	6.810	– –	– –
21212	TI	14	DIP	12Vin/ ±12Vout, 2W Isolated DC-DC converter. (IND TEMP.	DCP021212DP	121-4379	10.310	7.910	6.710	– –	– –
21212	TI	14	DIP	12Vin/12Vout, 2W Isolated DC-DC converter. (IND TEMP).	DCP021212P	121-4377	9.250	7.340	6.160	– –	– –
22415	BB	14	DIP	24Vin/ ±15Vout, 2W Isolated DC-DC converter. (IND TEMP).	DCP022415DP	109-7502	10.170	8.470	7.140	– –	– –
22415	TI	12	SOIC	DC-DC Converter 2 Watt	DCP022415DU	SMD 121-2383	10.480	8.030	6.810	– –	– –
22415	TI	12	SOIC	DC-DC Converter 2 Watt	DCP022415DU.	SMD 846-6408	7.600	6.340	5.340	– –	– –
22600	MICR	24	MLF	1MHz 6A Integrated Switch Synchronous Buck Regulator	MIC22600YML TR	NEW SMD 166-3073	4.630	3.550	2.940	2.550	2.350
22670	NSC	8	PSOP	3A SIMPLE SWITCHER, Step-Down Voltage Regulator	LM22670MR-ADJ	NEW SMD 165-7735	3.070	2.730	2.230	2.040	1.750
22673	NSC	8	PSOP	3A SIMPLE SWITCHER, Step-Down Voltage Regulator	LM22673MR-ADJ	NEW SMD 165-7736	3.070	2.730	2.230	2.040	1.750
22674	NSC	8	PSOP	500mA SIMPLE SWITCHER, Step-Down Voltage Regulator	LM22674MR-ADJ	NEW SMD 165-7737	2.030	1.790	1.470	1.350	1.160
22675	NSC	8	PSOP	1A SIMPLE SWITCHER, Step-Down Voltage Regulator	LM22675MR-ADJ	NEW SMD 165-7738	2.560	2.280	1.870	1.710	1.470
22676	NSC	7	TO263	3A SIMPLE SWITCHER, Step-Down Voltage Regulator	LM22676TJ-ADJ	NEW SMD 165-7733	2.930	2.590	2.130	1.950	1.670
22676	NSC	8	PSOP	3A SIMPLE SWITCHER, Step-Down Voltage Regulator	LM22676MR-ADJ	NEW SMD 165-7734	2.930	2.590	2.130	1.950	1.670
22677	NSC	7	TO263	5A SIMPLE SWITCHER, Step-Down Voltage Regulator	LM22677TJ-ADJ	NEW SMD 165-7730	5.040	4.480	3.660	3.360	2.890
22678	NSC	7	TO263	5A SIMPLE SWITCHER, Step-Down Voltage Regulator	LM22678TJ-ADJ	NEW SMD 165-7729	4.880	4.340	3.550	3.250	2.790
22679	NSC	7	TO263	5A SIMPLE SWITCHER, Step-Down Voltage Regulator	LM22679TJ-ADJ	NEW SMD 165-7731	5.040	4.480	3.660	3.360	2.890
23753	TI	14	TSSOP	IEEE Interface and Isolated Converter Controller	TPS23753PW	NEW SMD 164-5405	2.520	1.980	1.480	1.370	1.260

RL Re-reeling available

Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
23770 TI	20	HTSSOP	IEEE Interface and Isolated Converter Controller	TPS23770PWP	NEW SMD 164-5406	2.610	2.030	1.530	1.410	1.300
24002 TI	20	HTSSOP	LI-ION Battery Charger, 4.1/4.2V	BQ24002PWPG4	SMD 120-6834	2.030	1.480	1.330	– –	– –
24005 TI	20	TSSOP	2-cell Li-Ion charge mAnagement IC	BQ24005PWP	SMD 110-6058	3.210	2.190	1.630	– –	– –
24010 TI	10	SON	Linear 1-Cell Charger	BQ24010DRCRG4	SMD 120-6835	1.610	1.290	1.040	– –	– –
24018 TI	10	SON	Single Chip Li Ion Charge Management	BQ24018DRCT	NEW SMD 164-7892	1.820	1.360	1.120	0.960	0.940
24025 TI	10	SON	Dual Input USB/AC Adpater 1 Cell Li-Ion Charger	BQ24025DRCR	NEW SMD 164-7893	1.630	1.210	1.010	0.870	0.840
24070 TI	20	QFN	Li-Ion Charger with Dynamic Power-Path Management, Output regulated to 4.4V	BQ24070RHLTG4	NEW SMD 149-4884	2.840	2.280	1.730	1.520	1.480
24072 TI	16	QFN	USB Li-Ion Battery Charger and Power-Path Management	BQ24072RGTT	NEW SMD 168-4745	3.880	3.030	2.470	2.090	1.940
24081 TI	10	SON	Single Cell Li-Ion Charger with 1A FET	BQ24081DRCT	NEW SMD 164-7894	1.430	1.060	0.880	0.750	0.730
24083 TI	10	SON	1A Single Cell Li Ion Charger with 4.06V Charge Voltage	BQ24083DRCT	NEW SMD 164-7888	1.640	1.160	1.060	0.890	0.830
24088 TI	10	SON	750mA Li Ion/Li Pol Charge Management	BQ24088DRCT	NEW SMD 164-7895	1.730	1.280	1.070	0.920	0.890
24100 TI	20	QFN	bqSWITCHER Synchronous, Switch-Mode Li-Ion Charger w/ 2-A FET in QFN, 1-Cell, Standalone Version	BQ24100RHLR	SMD 959-3942	4.010	2.730	2.030	– –	– –
24103 TI	20	QFN	bqSWITCHER Synchronous, Switch-Mode Li-Ion Charger w/ 2-A FET in QFN, 1- or 2-cell, Standalone	BQ24103RHLR	SMD 959-3950	4.010	2.730	2.030	– –	– –
24105 TI	20	QFN	bqSWITCHER Synchronous, Switch-Mode Li-Ion Charger w/ 2-A FET in QFN, 1 to 3 cells, Standalone	BQ24105RHLR	SMD 959-3969	6.240	4.250	3.430	– –	– –
24108 TI	20	QFN	bqSWITCHER Synchronous, Switch-Mode Li-Ion Charger w/ 2-A FET in QFN, Standalone	BQ24108RHLR	SMD 959-3977	4.010	2.730	2.030	– –	– –
24113 TI	20	QFN	Host-Controlled Synchronous Swithc-Mode Li-Ion Charger w/2A FET, 1 or 2 Cell	BQ24113ARHLTG4	NEW SMD 149-4885	3.490	2.770	2.110	1.840	1.810
24113 TI	20	QFN	bqSWITCHER Synchronous, Switch-Mode Li-Ion Charger w/ 2-A FET in QFN, 1- or 2-cell, Sys-Controll	BQ24113RHLR	SMD 959-3985 RL	3.010	2.400	1.840	– –	– –
24120 TI	20	QFN	Charge Management	BQ24120RHLTG4	SMD 123-0453	2.910	2.310	1.920	– –	– –
24123 TI	20	QFN	BQ24100RHLR	BQ24123RHLTG4	SMD 123-0454	3.550	2.510	1.870	– –	– –
24150 TI	20	DSBGA	USB/Mains Switch Mode One Cell Li ion Charger	BQ24150YFFT	NEW SMD 164-7896	3.620	2.680	2.230	1.920	1.870
24151 TI	20	DSBGA	USB/Mains Switch Mode One Cell Li ion Charger	BQ24151YFFT	NEW SMD 164-7897	3.620	2.680	2.230	1.920	1.870
24200 TI	8	HTSSOP	Battery Charger, 500mA 4.2V	BQ24200DGN	SMD 840-7924	1.900	1.290	0.930	– –	– –
24202 TI	8	HTSSOP	Battery Charger, 500mA 4.2V	BQ24202DGN	SMD 840-7932	1.900	1.290	0.930	– –	– –
24381 TI	8	SON	Overvoltage & Overcurrent Protection with Battery Protection	BQ24381DSGT	NEW SMD 164-7898	1.070	0.800	0.650	0.610	0.550
24702 TI	24	TSSOP	Battery Charge Controller and Selector	BQ24702PWG4	SMD 120-6838	3.750	2.760	2.330	– –	– –
24703 TI	24	TSSOP	Battery Charge Controller	BQ24703PW	SMD 121-2264	4.210	2.870	2.130	– –	– –
24703 TI	24	TSSOP	Battery Charge Controller	BQ24703PWG4	SMD 132-9582	3.100	2.340	1.940	– –	– –
24703 TI	24	TSSOP	Battery Charge Controller	BQ24703PW.	SMD 840-7975	2.220	2.160	2.100	– –	– –
24705 TI	24	VQFN	Host Controlled Multi Chemistry Battery Charger	BQ24705RGET	NEW SMD 164-7899	4.040	3.000	2.490	2.140	2.090
24745 TI	28	QFN	Dual Multi Chemistry Battery Charger With Input Current Detect Comparator	BQ24745RHDT	NEW SMD 164-7900	5.270	3.910	3.250	2.800	2.720
24751 TI	28	QFN	Multi Cell Synchronous Switch-mode Charger with System Power Selector	BQ24751ARHDT	NEW SMD 164-7901	4.530	3.360	2.790	2.530	2.460
24901 TI	14	TSSOP	Single Cell Li-Ion Charge Management	BQ24901PW	NEW SMD 164-7902	3.460	2.570	2.130	1.830	1.780
25005 NSC	20	TSSOP	42V, 2.5A Step-Down Switching Regulator	LM25005MH	SMD 128-6737	3.780	2.450	1.780	– –	– –
25007 NSC	8	MSOP	42V, 0.5A Step-Down Switching Regulator	LM25007MM	NEW SMD 131-2549	2.300	1.700	1.400	1.120	1.000
25007 NSC	8	LLP	42V, 0.5A Step-Down Switching Regulator	LM25007SD	NEW SMD 131-2550	2.300	1.700	1.400	1.120	1.000
25010 NSC	10	LLP	42V, 1.0A Step-Down Switching Regulator	LM25010SD	NEW SMD 131-2551	3.280	2.440	1.990	1.590	1.430
25010 NSC	14	TSSOP	42V, 1.0A Step-Down Switching Regulator	LM25010MH	SMD 128-6738	2.580	1.680	1.210	– –	– –
25015 TI	20	QFN	Dual Input Charger with Integrated Synchronous Buck Converter O/P Adjustable	BQ25015RHLT	NEW SMD 164-7903	2.960	2.190	1.830	1.570	1.530
25115 NSC	16	TSSOP	Secondary Side Post Regulator Controller	LM25115MT	SMD 128-6739	2.200	1.780	1.490	– –	– –
25115 NSC	16	TSSOP	Buck Cntrl, Post Reg	LM25115AMT	NEW SMD 133-3958	2.150	1.770	1.500	1.300	1.140
25116 NSC	20	TSSOP	Adju. Voltage O/PSynchronous Buck Controller	LM25116MH/NOPB	NEW SMD 168-5529	5.300	4.120	3.370	3.100	2.760
25574 NSC	16	TSSOP	42V, 0.5A Step-Down Switching Regulator	LM25574MT	SMD 132-5415	2.810	2.300	1.690	1.570	1.540
25575 NSC	16	TSSOP	42V, 1.5A Step-Down Switching Regulator	LM25575MH	SMD 132-5416	2.640	2.210	1.910	1.660	1.480
25576 NSC	20	TSSOP	42V, 3A Step-Down Switching Regulator	LM25576MH	SMD 132-5421	4.810	3.930	2.900	2.700	2.620
26221 TI	8	TSSOP	High Performance Battery Monitor	BQ26221PW	NEW SMD 164-7904	3.380	2.500	2.090	1.790	1.740
26231 TI	8	TSSOP	Battery Coulomb Counter	BQ26231PW	SMD 121-2265	3.010	2.050	1.530	– –	– –
26400 NSC	16	TSSOP	Reg, Buck, Dual, 2A	LM26400YMH	NEW SMD 133-3956	6.350	5.020	3.850	3.670	3.510
26400 NSC	16	LLP	Reg, Buck, Dual, 2A	LM26400YSD	NEW SMD 133-3957	3.230	2.830	2.500	2.240	2.200
26400 NSC	16	LLP	DUAL 2A NON-SYNC BUCK REG	LM26400YSDE	NEW SMD 149-5066	5.370	4.290	3.550	3.060	2.860
27241 NSC	20	TSSOP	Synchronous Buck Regulator Controller for Mobile Systems	LM27241MTC	SMD 100-8004	2.260	1.650	1.450	– –	– –
27500 TI	12	SON	System-Side Impedance Track Fuel Gauge	BQ27500DRZT	NEW SMD 154-3747	3.120	2.560	1.900	1.700	1.470
28019 TI	8	SOIC	8-Pin Continuous Conduction Mode (CCM) PFC Controller	UCC28019DG4	NEW SMD 149-4900	1.190	0.940	0.710	0.660	0.640
28019 TI	8	PDIP	Power Factor Correction Controller	UCC28019P	NEW 136-6267	1.110	0.880	0.750	0.680	0.640
28025 TI	16	SOIC	PWM Controller	UC28025DWG4	SMD 120-7368	1.360	1.130	0.990	– –	– –
28060 TI	16	SOIC	Natural Interleaved Dual-Phase Transition-Mode PFC Controller	UCC28060DG4	NEW SMD 143-9629	1.770	1.430	1.100	1.070	1.030
28083 TI	8	SOIC	PWM Controller, Current Mode Push-Pull	UCC28083DG4	SMD 120-7399	2.030	1.690	1.300	– –	– –
28220 TI	16	SOIC	PWM Controller, Dual Interleaved	UCC28220D	SMD 846-2887	3.210	2.190	1.630	– –	– –
28221 TI	16	SOIC	PWM Controller, Dual Interleaved	UCC28221D	SMD 846-2909	2.180	1.740	1.450	– –	– –
28600 TI	8	SOIC	Quasi Resonant Flyback Green Mode Controller	UCC28600D	NEW SMD 156-4930	0.990	0.820	0.730	0.600	0.510
29405 TI	8	SOIC	Voltage Protection for 2, 3, or 4 Cell LiIon Batteries	BQ29405DCT3	NEW SMD 164-7905	0.700	0.520	0.430	0.390	0.380
29414 TI	8	TSSOP	4.55V Over Voltage Protection for 2/4 cell Li-Ion/Poly in Series	BQ29414PW	NEW SMD 164-7906	0.670	0.510	0.420	0.380	0.370
29419 TI	8	TSSOP	Voltage Protection for 2, 3, or 4 Cell Li Ion Batteries	BQ29419PW	NEW SMD 164-7907	0.670	0.510	0.420	0.380	0.370
31012 TI	10	MSOP	Low Input Voltage Synchronous Boost Converter with Fixed 1.8V Output	TPS61012DGS	NEW SMD 147-1236	2.010	1.500	1.120	1.060	0.990
33342 ON	8	SOIC	NiCD and NiMH Battery Charge Controller	MC33342DG	NEW SMD 146-0668	0.950	0.730	0.670	0.590	0.520
33063 TI	8	SOIC	1.5A Peak Boost/Buck/Inverting Switching Regulator	MC33063AD	SMD 105-3591	0.420	0.340	0.290	– –	– –
33063 TI	8	SOIC	1.5A Peak Boost/Buck/Inverting Switching Regulator	MC33063ADE4	SMD 105-3588	0.420	0.340	0.290	– –	– –
33063 ON	8	SOIC	1.5A Switching Regulator, 2.5V to 40V operation	MC33063ADG	SMD 966-4440	1.260	0.790	0.570	– –	– –
33063 ON	8	DIP	1.5A Switching Regulator, 2.5V to 40V operation	MC33063AP1G	966-4432	0.960	0.660	0.470	– –	– –
33063 TI	8	DIP	1.5A Peak Boost/Buck/Inverting Switching Regulator	MC33063APE4	105-3584	0.380	0.310	0.270	– –	– –
33064 ON	8	SOIC	UnderVoltage Sensing Circuit With 4.6V threshold. (IND TEMP)	MC33064D-5G	SMD 121-1114	0.430	0.370	0.300	– –	– –
33163 ON	16	SOIC	3.4A Switching Regulator, 2.5V to 40V operation	MC33163DWG	SMD 119-2058	3.610	3.120	2.340	– –	– –
33163 ON	16	DIP	3A Power Switching Regulator. (IND TEMP)	MC33163PG	966-6850	2.290	1.960	1.620	1.070	– –
33164 ON	8	SOIC	UnderVoltage Sensing Circuit With 4.3V threshold. (IND TEMP)	MC33164D-5G	SMD 121-1118	1.060	0.590	0.430	– –	– –
33166 ON	5	TO-263 (D2-Pak)	3.4A Switching Regulator, 7.5V to 40V operation	MC33166D2TG	SMD 120-9630	1.730	1.330	1.040	– –	– –
33166 ON	5	TO-220	3A Power Switching Regulator. (IND TEMP)	MC33166TG	966-6869	3.380	2.470	1.910	1.470	– –
33167 ON	5	TO-263 (D2-Pak)	5.5A Switching Regulator, 7.5V to 40V operation	MC33167D2TG	SMD 966-4467	2.560	1.970	1.520	– –	– –
33167 ON	5	TO-220	5A Power Switching Regulator. (IND TEMP)	MC33167TG	966-6877	3.840	2.760	2.140	1.660	– –
33262 ON	8	SOIC	Power Factor Controller	MC33262DG	SMD 966-4475	1.020	0.690	0.600	– –	– –
33262 ON	8	DIP	Power Factor Controller	MC33262PG	966-6745	0.450	0.380	0.340	– –	– –
33340 ON	8	SOIC	Battery Fast Charge Controller	MC33340DG	SMD 966-6753	0.860	0.730	0.650	0.550	– –
33363 ON	16	SOIC	High Voltage Switching Regulator, 700V/1A	MC33363BDWG	SMD 119-2057	2.450	1.800	1.350	– –	– –
34060 ON	14	DIP	Switchmode PWM control circuit. (IND TEMP)	MC34060APG	121-4461	1.410	1.090	0.770	– –	– –
34063 FCH	8	DIP	Single Ended Power Switching Regulator	KA34063A	101-3812	0.610	0.470	0.370	– –	– –
34063 SAM	8	DIP	Single Ended Power Switching Regulator	KA34063A.	345-8040 ▲	0.380	0.290	0.230	– –	– –
34063 FCH	8	SOIC	Single Ended Power Switching Regulator	KA34063ADTF	SMD 121-2947	0.660	0.500	0.410	– –	– –
34063 ST	8	SO	DC/DC Converter for Step-Down, Step-Up and Voltage-Inverting applications (IND TEMP)	MC34063ABD	SMD 108-7205	0.820	0.530	0.460	0.420	0.370
34063 ST	8	DIP	DC/DC Converter Control Circuit	MC34063ABN	107-7180	0.780	0.510	0.430	0.370	0.350
34063 ST	8	DIP	DC/DC Converter Control Circuit	MC34063ACN	107-7182	0.700	0.500	0.350	0.330	0.310
34063 TI	8	SOIC	1.5A Boost/Buck/Inverting Switching Regulator	MC34063ADE4	SMD 105-3582	0.480	0.310	0.270	– –	– –
34063 ON	8	SOIC	Single Ended Power Switching Regulator	MC34063ADG	SMD 121-1119	0.770	0.520	0.370	– –	– –
34063 TI	8	DIP	1.5A Boost/Buck/Inverting Switching Regulator	MC34063AP	105-3579	0.680	0.460	0.380	– –	– –
34063 ON	8	DIP	1.5A, DC-DC converter With Reference, comparator, Current limit, 3.0V to 40V	MC34063AP1G	119-1818	0.800	0.550	0.390	0.330	– –

RL Re-reeling available

Power Supply ICs - continued

Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
34063 TI	8	DIP	1.5A Boost/Buck/Inverting Switching Regulator	MC34063APE4	105-3578	0.480	0.310	0.270	– –	– –
34063 ST	8	DIP	DC/DC Converter Control Circuit	MC34063EBN	107-7183	0.780	0.510	0.430	0.370	0.350
34063 ST	8	SO	Low Voltage DC/DC Converter for Step-Down, Step-Up and Voltage-Inverting applications (IND TEMP)	MC34063ECD	SMD 108-7207	0.780	0.510	0.430	0.380	0.360
34063 ST	8	DIP	DC/DC Converter Control Circuit	MC34063ECN	107-7184	0.690	0.450	0.370	– –	– –
34671 FSL	8	UDFN	2.6V to 28V I/P 4.2V 600mA O/P Charger for Single-cell Li-Ion Battery	MC34671AEPR2	NEW SMD 160-5503	1.040	1.040	1.040	1.040	1.040
34673 FSL	8	UDFN	2.6V to 28V I/P 4.2V 1.2A O/P Charger for Single-cell Li-Ion Battery	MC34673AEPR2	NEW SMD 160-5504	1.220	1.220	1.220	1.220	1.220
34674 FSL	8	UDFN	Maximum 28V I/P 4.2V 1.05A O/P Travel Charger for Single-cell Li-Ion Battery	MC34674AEPR2	NEW SMD 160-5505	1.200	1.200	1.200	1.200	1.200
34702 FSL	32	SOIC-W	3.0 A Switch-Mode Power Supply with Linear Regulator	MC34702EK	SMD 129-6201	7.690	7.690	7.690	7.690	7.690
35701 UNI	14	SOIC	Advanced Voltage Mode PWM Controller	UCC35701D	SMD 110-1433	2.740	2.420	2.170	– –	– –
35701 UNI	14	DIP	Advanced Voltage Mode PWM Controller	UCC35701N	110-1431	4.580	3.580	2.890	– –	– –
35701 UNI	14	DIP	Advanced Voltage Mode PWM Controller	UCC35701N.	352-7074	0.980	– –	– –	– –	– –
35702 TI	14	SOIC	Advanced Voltage Mode PWM Controller	UCC35702D	SMD 121-4371	3.360	2.380	2.040	– –	– –
38084 TI	8	TSSOP	Current Mode Push-Pull PWM With Programmable Slope Compensation	UCC38084PW	NEW SMD 146-1327	2.210	1.500	1.120	1.060	0.990
39002 TI	8	DIP	Load share controller	UCC39002PE4	121-4439	1.270	0.970	0.740	– –	– –
40000 TI	10	HTSSOP	Low Input Voltage. Synch. Buck Converter.	TPS40000DGQ	SMD 845-7387	1.230	1.040	0.920	– –	– –
40002 TI	10	MSOP	Low Input Voltage-Mode Synchronous Buck Controller	TPS40002DGQG4	SMD 932-4259	1.710	1.270	1.100	– –	– –
40007 TI	10	HTSSOP	Low Input (2.25V-5.5V) 300 kHz Frequency, Synchronous Buck Controller, Source/ Sink, Prebias Operation	TPS40007DGQ	SMD 959-4043	1.540	1.090	0.830	– –	– –
40007 TI	10	MSOP	Synchronous Buck Controller	TPS40007DGQG4	SMD 118-0196	1.930	1.550	1.300	1.190	1.090
40009 TI	10	HTSSOP	Low Input Voltage. Synch. Buck Converter.	TPS40009DGQ	SMD 845-7409	2.130	1.640	1.220	– –	– –
40009 TI	10	MSOP	Synchronous Buck Controller	TPS40009DGQG4	SMD 118-0197	1.580	1.440	1.130	1.010	0.920
40051 TI	16	TSSOP	Buck Controller, Wide Input Synchronous	TPS40051PWP	SMD 110-6051	2.810	1.910	1.420	– –	– –
40054 TI	16	HTSSOP	Wide Input (8V-40V) up to 1MHz Frequency Synchronous Buck Controller, source only	TPS40054PWPG4	SMD 959-4051	3.200	1.990	1.810	– –	– –
40055 TI	16	TSSOP	Synchronous Buck Controller	TPS40055PWPG4	SMD 118-0199	2.170	1.760	1.580	1.480	1.440
40057 TI	16	HTSSOP	Wide Input Voltage Synchronous Buck Converter	TPS40057PWPG4	SMD 120-7323	2.030	1.690	1.530	– –	– –
40060 TI	16	HTSSOP	Wide Input Voltage Synchronous Buck Converter	TPS40060PWPG4	SMD 120-7324	2.050	1.710	1.540	– –	– –
40071 TI	16	HTSSOP	Mid Range Input Synchronous Buck Converter	TPS40071PWPG4	SMD 120-7326	2.030	1.690	1.470	– –	– –
40075 TI	20	QFN	Wide Input Synchronous Buck Controller with Voltage Feed Forward	TPS40075RHLT	NEW SMD 147-1222	2.600	2.060	1.710	1.670	1.550
40077 TI	16	HTSSOP	High Efficiency, Mid-Range Input, Synchronous Buck Controller with Voltage Feed Forward	TPS40077PWP	NEW SMD 147-1224	2.100	1.660	1.430	1.350	1.270
40100 TI	24	QFN	Wide Input Range Synchronous Buck Controller for Sequencing.	TPS40100RGET	NEW SMD 147-1225	3.960	2.940	2.190	2.040	1.910
40120 TI	14	TSSOP	Programmable Feedback Divider	TPS40120PW	NEW SMD 147-1226	0.800	0.630	0.530	0.460	0.420
40131 TI	32	QFN	Two-Phase Synchronous Buck Controller w/Integrated Mosfet Drivers	TPS40131RHBT	NEW SMD 147-1227	4.860	3.890	3.250	2.770	2.600
40131 TI	32	QFN	Two-Phase Synchronous Buck Controller w/Integrated Mosfet Drivers	TPS40131RHBTG4	NEW SMD 149-4891	4.750	3.300	2.750	2.470	2.420
40132 TI	32	QFN	Two Channel Multiphase Controller with 600mV O/P	TPS40132RHBT	NEW SMD 164-7909	5.360	3.960	3.300	2.840	2.760
40140 TI	36	PQFP	Dual or 2 Phase. Stackable Controller	TPS40140RHHT	NEW SMD 132-9594	4.450	3.550	2.970	– –	– –
40180 TI	24	QFN	Single Phase Stackable Controller	TPS40180RGETG4	NEW SMD 149-4893	3.050	2.450	1.850	1.630	1.580
40190 TI	10	SON	Low Pin Count Synchronous Buck DC/DC Controller	TPS40190DRCT	NEW SMD 147-1228	1.800	1.440	1.190	1.010	0.950
40192 TI	10	SON	4.5V to 18V Input, Low Pin Count, Synchronous Buck Controller with Power Good	TPS40192DRCTG4	NEW SMD 149-4894	1.890	1.520	1.160	1.000	0.980
40193 TI	10	SON	4.5V to 18V Input, Low Pin Count Synchronous Buck Controller with Power Good.	TPS40193DRCT	NEW SMD 147-1229	1.940	1.550	1.290	1.110	1.030
40195 TI	16	TSSOP	4.5V to 20V Buck Controller with Synchronization and Power Good	TPS40195PW	NEW SMD 147-1230	2.150	1.730	1.460	1.390	1.290
40200 TI	8	SOIC	Voltage Mode Controller	TPS40200DG4	SMD 122-0988	1.170	1.010	0.830	0.750	0.660
40222 TI	6	SON	1.6A, 1.25-MHz Buck Converter	TPS40222DRPT	NEW SMD 147-1231	1.630	1.210	0.870	0.820	0.790
40222 TI	6	SON	Buck Step-Down Converter	TPS40222DRPTG4	NEW SMD 136-6266	1.180	0.930	0.800	0.700	0.680
51116 TI	20	HTSSOP	Synch Buck Controller.	TPS51116PWPG4	SMD 126-2370	2.060	1.690	1.610	1.570	1.530
51117 TI	14	TSSOP	Single Synchronous Step-Down Controller.	TPS51117PWG4	SMD 126-2371	1.850	1.520	1.180	1.030	1.010
51120 TI	32	QFN	Dual Current Mode, Synch Step-Down Controller	TPS51120RHBTG4	SMD 126-2374	4.170	3.460	2.640	– –	– –
51124 TI	24	QFN	Dual Synchronous Step-Down Controller	TPS51124RGETG4	SMD 126-2372	3.130	2.590	1.950	– –	– –
51427 TI	32	QFN	Dual D Cap Synchronous Step Down Controller for Notebook Power Rails	TPS51427RHBT	NEW SMD 164-7911	4.080	3.020	2.510	2.160	2.100
54010 TI	28	HTSSOP	2.2V-4.0V, 14A Output Synchronous Buck PWM Switcher w/Integrated FETs	TPS54010PWP	NEW SMD 147-1234	7.570	5.160	4.170	4.010	3.740
54110 TI	20	HTSSOP	Buck Converter	TPS54110PWPG4	SMD 120-7327	2.690	2.130	1.800	– –	– –
54310 TI	20	SOIC	3A, Adjustable output synchronous Buck PWM switcher With integrated FETs (IND TEMP).	TPS54310PWP	SMD 110-6048	4.510	3.070	2.290	– –	– –
54312 TI	20	SOIC	3A, 1.2V output synchronous Buck PWM switcher With integrated FETs (IND TEMP).	TPS54312PWP	SMD 110-6043	4.510	3.070	2.290	– –	– –
54314 TI	20	SOIC	3A, 1.8V output synchronous Buck PWM switcher With integrated FETs (IND TEMP).	TPS54314PWP	SMD 110-6045	4.510	3.070	2.290	– –	– –
54315 TI	20	SOIC	3A, 2.5V output synchronous Buck PWM switcher With integrated FETs (IND TEMP).	TPS54315PWP..	SMD 110-6046	3.160	2.500	2.110	– –	– –
54316 TI	20	SOIC	3A, 3.3V output synchronous Buck PWM switcher With integrated FETs (IND TEMP).	TPS54316PWP	SMD 110-6047	4.510	3.070	2.290	– –	– –
54350 TI	16	HTSSOP	Buck Converter, 3A 4.5-20V	TPS54350PWPG4	SMD 120-7328	2.750	2.180	1.840	– –	– –
54352 TI	16	TSSOP	Synchronous PWM Switcher	TPS54352PWPG4	SMD 118-0193	2.730	2.150	1.920	1.860	1.820
54355 TI	16	TSSOP	Synchronous PWM Switcher	TPS54355PWPG4	SMD 118-0195	2.110	1.690	1.650	1.600	1.560
54356 TI	16	HTSSOP	4.5V to 20V Input, 3.3V Output, 3A Output Synchronous PWM Switcher	TPS54356PWPG4	SMD 959-4078	2.880	2.180	1.740	– –	– –
54357 TI	16	HTSSOP	4.5V to 20V Input, 5.0V Output, 3A Output Synchronous PWM Switcher	TPS54357PWPG4	SMD 959-4086	3.890	2.940	2.360	– –	– –
54610 TI	20	SOIC	6A, Adjustable output synchronous Buck PWM switcher With integrated FETs (IND TEMP).	TPS54610PWP	SMD 110-0945	5.700	3.890	3.140	– –	– –
54612 TI	20	SOIC	6A, 1.2V output synchronous Buck PWM switcher With integrated FETs (IND TEMP).	TPS54612PWP	SMD 110-6049	5.700	3.890	3.140	– –	– –
54613 TI	28	HTSSOP	Buck PWM Synchronous Switcher, w/FET.	TPS54613PWPG4	SMD 120-7329	4.450	3.550	2.970	– –	– –
54614 TI	20	SOIC	6A, 1.8V output synchronous Buck PWM switcher With integrated FETs (IND TEMP).	TPS54614PWP	SMD 121-4407	5.700	3.890	3.140	– –	– –
54615 TI	20	SOIC	6A, 2.5V output synchronous Buck PWM switcher With integrated FETs (IND TEMP).	TPS54615PWPG4	SMD 121-4409	5.700	3.890	3.140	– –	– –
54616 TI	20	SOIC	6A, 3.3V output synchronous Buck PWM switcher With integrated FETs (IND TEMP).	TPS54616PWPG4	SMD 121-4411	4.540	3.640	3.000	– –	– –
60110 TI	20	HTSSOP	DC-DC Converter, 300mA 5V, Charge Pump	TPS60110PWPG4	SMD 120-7330	1.960	1.630	1.480	– –	– –
60131 TI	20	TSSOP	Regulated, 5.0V, 300mA High efficiency Charge Pump DC/DC Converter	TPS60131PWPG4	SMD 121-4368	2.180	1.800	1.440	– –	– –
60140 TI	20	TSSOP	Low Power, 2-cell charge pump DC/DC convertor, 5V 100mA o/p, Low battery detect	TPS60140PWPG4	SMD 121-4397	1.760	1.450	1.160	– –	– –
60200 TI	8	MSOP	Low Power, 2-cell charge-pump DC/DC convertor, 3.3V 100mA o/p, Low battery detect	TPS60200DGSG4	SMD 121-4398	1.760	1.450	1.160	– –	– –
60400 TI	5	SOT-23	Charge Pump Inverter, Var.Frequency	TPS60400DBVT	SMD 845-7751	0.660	0.580	0.490	– –	– –
60401 TI	5	SOT-23	Charge Pump Inverter, 17KHZ	TPS60401DBVT	SMD 845-7760	0.620	0.500	0.470	– –	– –
60402 TI	5	SOT-23	Charge Pump Inverter, 50KHZ	TPS60402DBVT	SMD 845-7778	0.660	0.580	0.470	– –	– –
61000 TI	10	MSOP	Single/Dual-cell Step-Up converter, Adjustable output (IND TEMP).	TPS61000DGSG4	SMD 121-4399	0.940	0.820	0.730	– –	– –
61006 TI	10	MSOP	Single/Dual cell boost DC/DC convertor, output 3.3V	TPS61006DGS	SMD 110-2967	1.630	1.370	0.980	– –	– –
61010 TI	10	VSSOP	Boost Converter, ADJ	TPS61010DGS	SMD 845-7808	2.210	1.500	1.120	– –	– –
61010 TI	10	MSOP	High-Efficiency Boost Converter	TPS61010DGSG4	SMD 932-4283	1.690	1.300	1.070	– –	– –
61016 TI	10	VSSOP	Boost Converter, ADJ	TPS61016DGS	SMD 845-7816	1.820	1.500	1.120	– –	– –
61020 TI	10	SOT	Adjustable, 1.5-A Switch, 96% Efficient Boost Converter w/ LDO Down-Mode, QFN-10	TPS61020DRCRG4	SMD 996-9160 RL	2.080	1.660	1.390	1.290	– –
61024 TI	10	SON	3V Output 1.5A Switch, 96% Efficient Boost Converter	TPS61024DRCRG4	SMD 127-6092	2.080	1.660	1.390	1.290	– –
61026 TI	10	SON	5.0-V Output, 1.8-A Switch, 96% Efficient Boost Converter W/ Ldo Down-Mode, Qfn-10	TPS61026DRCTG4	SMD 127-6094	2.440	1.930	1.630	1.520	– –

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	Mftr.	Pins	Pkg	Description	Mftrs. List No.		Order Code		Price Each 1+	10+	100+	250+	500+
61029	TI	10	SON	Adjustable, 1.8-A Switch, 96% Efficient Boost Converter with Down-Mode.	TPS61029DRCT	NEW	SMD 147-1237		2.710	1.850	1.370	1.330	1.230
61029	TI	10	SOIC	Adju. 1.8A Switch, 96% Efficient Boost Converter	TPS61029DRCTRG4		SMD 127-6097		1.810	1.430	1.210	1.180	1.150
61030	TI	16	HTSSOP	Boost Converter, 1A ADJ	TPS61030PWPG4		SMD 120-7331		3.110	2.460	2.060	– –	– –
61030	TI	16	QFN	Boost Converter, 1A ADJ	TPS61030RSARG4		SMD 120-7332		3.110	2.460	2.060	– –	– –
61032	TI	16	HTSSOP	Boost Converter, 1A 3.3V	TPS61032PWPRG4		SMD 120-7333		2.780	2.220	1.850	– –	– –
61041	TI	5	SOT-23	Adjustable 28V 250mA Switch Boost Converter for LCD/ White LED Supplies	TPS61041DBVR	NEW	SMD 156-4963		1.430	1.170	1.060	0.850	0.710
61080	TI	10	QFN	High Voltage DC/DC Boost Converter, 0.5A Integrated Switch	TPS61080DRCTG4	NEW	SMD 134-4378		2.660	2.110	1.760	– –	– –
61081	TI	10	QFN	High Voltage DC/DC Boost Converter, 1.3A Integrated Switch	TPS61081DRCTG4	NEW	SMD 134-4379		2.880	2.290	1.900	– –	– –
61090	TI	16	QFN	Boost Converter, 0.5A ADJ	TPS61090RSARG4		SMD 120-7334		1.860	1.600	1.410	– –	– –
61100	TI	20	TSSOP	Dual output, Single-cell Boost Converter	TPS61100PWG4		SMD 121-4436		2.030	1.760	1.560	– –	– –
61200	TI	10	SON	0.3V Input Voltage Boost Converter with 1.5A Switches and 'Down Mode'	TPS61200DRCT	NEW	SMD 147-1238		2.670	2.130	1.810	1.720	1.590
61200	TI	10	QFN	Buck Step-Down Converter 1.3A	TPS61200DRCTG4	NEW	SMD 136-6268		2.490	1.970	1.650	1.560	1.440
61201	TI	10	QFN	3.3V 300 mA O/P Voltage Synchronous Boost Converter	TPS61201DRCT	NEW	SMD 156-4952		3.740	3.070	2.740	2.240	1.900
61202	TI	10	QFN	5V 600mA O/P Voltage Synchronous Boost Converter	TPS61202DRCT	NEW	SMD 156-4953		3.740	3.070	2.740	2.240	1.900
62000	TI	10	MSOP	Buck Converter, Synchronous With Adjustable Output	TPS62000DGS		SMD 110-3058		1.930	1.530	1.270	– –	– –
62003	TI	10	SSOP	High-efficiency Step-down (1.2V) DC/DC Converter	TPS62003DGS		SMD 110-3117		2.080	1.660	1.390	– –	– –
62007	TI	10	SSOP	High-efficiency Step-down (3.3V) DC/DC Converter	TPS62007DGSG4		SMD 121-4437		2.610	1.780	1.320	– –	– –
62020	TI	10	HTSSOP	Buck Converter, 600mA ADJ	TPS62020DGQ		SMD 845-7905		1.750	1.520	1.340	– –	– –
62040	TI	10	HTSSOP	Buck Converter , 1.2A ADJ	TPS62040DGQ		SMD 845-7913		2.820	2.230	1.860	– –	– –
62042	TI	10	HTSSOP	Buck Converter , 1.2A 1.5V	TPS62042DGQ		SMD 845-7921		2.540	2.020	1.690	– –	– –
62044	TI	10	HTSSOP	Buck Converter , 1.2A 1.8V	TPS62044DGQ		SMD 845-7930		2.820	2.230	1.860	– –	– –
62046	TI	10	HTSSOP	Buck Converter , 1.2A 3.3V	TPS62046DGQ		SMD 845-7948		2.820	2.230	1.860	– –	– –
62050	TI	10	VSSOP	Buck Converter , 0.8A ADJ	TPS62050DGS		SMD 845-7956		2.700	2.170	1.820	– –	– –
62050	TI	10	MSOP	800mA Synchronous Step-Down Converter	TPS62050DGSG4		SMD 932-4291		2.740	2.170	1.820	– –	– –
62051	TI	10	VSSOP	Buck Converter , 0.8A ADJ	TPS62051DGS		SMD 845-7964		3.710	2.530	1.880	– –	– –
62054	TI	10	VSSOP	Buck Converter , 0.8A 1.8V	TPS62054DGS		SMD 845-7972		3.710	2.530	1.880	– –	– –
62056	TI	10	VSSOP	Buck Converter , 0.8A 3.3V	TPS62056DGS		SMD 845-7999		3.710	2.530	1.880	– –	– –
62056	TI	10	MSOP	800mA Synchronous Step-Down Converter	TPS62056DGSG4		SMD 932-4305		2.490	1.970	1.650	– –	– –
62100	TI	8	SOIC	Multi-mode, Low-Power buck converter	TPS62100D.		SMD 501-2260		0.670	– –	– –	– –	– –
62103	TI	8	SOIC	Multimode Buck Converter	TPS62103D		SMD 845-8014		2.280	1.730	1.470	– –	– –
62110	TI	16	QFN	Buck Converter, Adjustable	TPS62110RSATG4		SMD 118-0173		4.060	3.230	2.700	2.540	2.360
62200	TI	5	SOT-23	300mA Buck Converter , High Efficiency	TPS62200DBVT		SMD 110-3055		1.440	1.180	0.910	– –	– –
62200	TI	5	SOT-23	High-Efficiency Step-Down DC-DC Converter	TPS62200DBVTG4		SMD 932-4313		1.660	1.250	1.060	– –	– –
62203	TI	5	SOT-23	Buck Converter, 0.3A 3.3V	TPS62203DBVT		SMD 845-8049		2.010	1.370	0.980	– –	– –
62205	TI	5	SOT-23	Buck Converter, 0.3A 2.5V	TPS62205DBVT		SMD 845-8057		2.010	1.370	0.980	– –	– –
62220	TI	5	TO	Adjustable, 400mA, 95% Efficient Step-Down Converter	TPS62220DDCTG4		SMD 127-6102		1.660	1.310	1.260	– –	– –
62222	TI	5	TO	1.8V 400mA, 95% Efficient Step-Down Converter	TPS62222DDCTG4		SMD 127-6109		2.440	1.930	1.630	– –	– –
62223	TI	5	SOT-23	2.3V Output, 400mA, 95% Efficient Step-Down Converter	TPS62223DDCTG4		SMD 127-6111		1.830	1.480	1.450	– –	– –
62227	TI	5	TO	1.2-V Output, 400-mA, 95% Efficent Step-Down Converter, 15UA, THIN-SOT-23	TPS62227DDCTG4		SMD 127-6103		1.830	1.450	1.220	– –	– –
62260	TI	5	SOT-23	2.25MHz 600mA Step-Down Converter in 2x2mm SON/TSOT23 Package	TPS62260DDCTG4	NEW	SMD 149-4895		2.130	1.710	1.280	1.130	1.110
62302	TI	10	SON	1.6V, 500-mA, 3-MHz Step-Down Converter	TPS62302DRCR		SMD 959-4116		2.610	1.780	1.400	– –	– –
62304	TI	8	DSBGA	Buck Converter	TPS62304YZDT		SMD 118-0166		2.170	1.830	1.630	1.590	1.540
62320	TI	8	DSBGA	Buck Converter, Adjustable	TPS62320YZDT		SMD 118-0169		2.960	2.050	1.530	1.410	1.380
62400	TI	10	SON	2.25MHz 400mA/600mA Dual Step-Down Converter	TPS62400DRCTG4	NEW	SMD 132-9597		4.060	3.230	2.700	– –	– –
62401	TI	10	SON	2.25MHz 400mA/600mA Dual Step-Down Converter	TPS62401DRCTG4	NEW	SMD 132-9598		4.060	3.230	2.700	– –	– –
62403	TI	10	SON	2.25MHz 400mA/600mA Dual Step-Down Converter	TPS62403DRCTG4	NEW	SMD 132-9599		4.060	3.230	2.700	– –	– –
63000	TI	10	SON	96% Buck-Boost Converter With 1.8A Current Switche	TPS63000DRCRG4		SMD 121-5594		4.060	3.230	2.700	2.540	2.360
64200	TI	6	SOT-23	Buck Converter, 3A ADJ	TPS64200DBVT		SMD 845-8065		1.170	0.910	0.650	– –	– –
64200	TI	6	SOT-23	Step-Dowm Controller	TPS64200DBVTG4		SMD 932-4321		0.940	0.710	0.610	– –	– –
64201	TI	6	SOT-23	Buck Converter, 3A ADJ	TPS64201DBVT		SMD 845-8073		1.170	0.910	0.650	– –	– –
64202	TI	6	SOT-23	Buck Converter, 3A ADJ	TPS64202DBVT		SMD 845-8081		1.170	0.910	0.650	– –	– –
64203	TI	6	SOT-23	Buck Converter, 3A ADJ	TPS64203DBVT		SMD 845-8090		1.160	0.910	0.650	– –	– –
65010	TI	48	QFN	Multi-Channel 1-cell Li-Ion Power Mgmt IC: USB/AC Charger, 2DC/DC, 2 LDOs, I2C interface	TPS65010RGZT		SMD 147-1239		4.610	3.690	3.060	2.670	2.400
65020	TI	40	QFN	Power mAnagement IC	TPS65020RHATG4		SMD 118-0171		5.990	5.360	4.410	4.140	3.860
65021	TI	40	QFN	Power mAnagement IC	TPS65021RHATG4		SMD 118-0172		5.990	5.480	4.410	4.140	3.860
65022	TI	40	QFN	Power Management IC for Li-Ion Powered Systems	TPS65022RHATG4		SMD 149-4896		5.370	3.740	3.120	2.780	2.750
65053	TI	24	QFN	5-Channel Power Mgmt IC with two step down converters and 3 low-input voltage LDOs	TPS65053RGETG4		SMD 149-4897		4.030	2.810	2.330	2.100	2.060
65426	INTS	50	QFN	6A Dual Synchronous Buck Regulator with Integrated MOSFETs	ISL65426IRZA		SMD 136-1047		6.240	5.480	4.890	4.150	3.840
65510	TI	16	QFN	Low Power Battery Backup IC with Integrated Boost Converter	TPS65510RGTT	NEW	SMD 168-4754		3.560	2.760	2.260	1.920	1.780
65552	TI	10	MSOP	Charger & IGBT Driver	TPS65552ADGQG4		SMD 122-6317		1.350	1.020	0.790	0.730	0.700
68000	TI	30	SM-8	Full Bridge CCFL Controller	TPS68000DBTG4		SMD 122-6318		4.340	3.520	2.910	2.470	2.300
71501	TI	5	SOT-323	Regulator, Linear LDO High Input Voltage MicroPower	TPS71501DCKR		SMD 110-3056	RL	0.630	0.590	0.490	– –	– –
73811	MCHIP	5	SOT-23	Simple, Miniature Single-Cell, Fully Integrated Li-Ion / Li-Polymer Charge Management Controller	MCP73811T-420I/OT		SMD 143-9477		0.590	0.410	0.330	– –	– –
73812	MCHIP	5	SOT-23	Battery Management Controller	MCP73812T-420I/OT	NEW	SMD 162-7187		0.540	0.410	0.320	– –	– –
73826	MCHIP	6	SOT-23	Lithium-Ion Battery Charge Controller - one cell application, 4.2V	MCP73826-4.2VCHTR		SMD 108-4313		0.840	0.630	0.560	– –	– –
73826	MCHIP	6	SOT-23	Charge Controller, 4.2V	MCP73826-4.2VCHTR.		SMD 396-8856		0.210	– –	– –	– –	– –
73831	MCHIP	5	SOT-23	Li-Ion/Li-Poly Charge Controller	MCP73831T-2ACI/OT		SMD 133-2158		0.740	0.610	0.390	– –	– –
73832	MCHIP	5	SOT-23	Li-Ion/Li-Poly Charge Controller	MCP73832T-2ACI/OT		SMD 133-2159		0.740	0.610	0.390	– –	– –
73833	MCHIP	10	MSOP	1A 4.2V O/P Li-Ion / Li-Polymer Charger Management Controller	MCP73833-FCI/UN	NEW	SMD 160-5576		1.180	0.890	0.700	– –	– –
73833	MCHIP	10	MSOP	Li-Ion/Li-Poly Charge Controller	MCP73833-AMI/UN		SMD 133-2160		0.850	0.720	0.460	– –	– –
73834	MCHIP	10	MSOP	Li-Ion/Li-Poly Charge Controller	MCP73834-FCI/UN		SMD 133-2162		0.850	0.720	0.460	– –	– –
73837	MCHIP	10	MSOP	Battery Charge Management Controller	MCP73837-FCI/UN	NEW	SMD 167-5426		1.770	1.190	0.940	– –	– –
73841	MCHIP			Single 4.2V Battery Management Controller	MCP73841-420I/UN		NEW 162-7202		1.210	0.920	0.720	– –	– –
73861	MCHIP	16	QFN	Advanced Single Cell Li-Ion/Li Polymer Charge Management Controller With Temperature Monitor	MCP73861-I/MLG		SMD 941-3936		1.620	0.990	0.910	– –	– –
73861	MCHIP	16	SOIC	Advanced Single Cell, Fully Integrated Li-Ion/Li-Polymer Charge Management Controller	MCP73861-I/SL		SMD 143-9478		1.400	0.960	0.780	– –	– –
73862	MCHIP	16	SOIC	Li-Ion/Li-Poly Charge Controller	MCP73862-I/SL		SMD 133-2163		1.480	1.240	0.830	– –	– –
73863	MCHIP			Battery Management Controller	MCP73863-I/ML		NEW 162-7176		1.800	1.370	1.070	– –	– –
73863	MCHIP	16	SOIC	Advanced Single Cell, Fully Integrated Li-Ion/Li-Polymer Charge Management Controller	MCP73863-I/SL		SMD 143-9481		1.660	0.960	0.840	– –	– –
73864	MCHIP	16	SOIC	Advanced Dual Cell, Fully Integrated Li-Ion/Li-Polymer Charge Management Controller	MCP73864-I/SL		SMD 143-9482		1.550	1.080	0.870	– –	– –
73871	MCHIP	20	QFN	Battery Charge Management Controller	MCP73871-2AAI/ML	NEW	SMD 164-2487		1.730	1.310	1.030	– –	– –
73871	MCHIP	20	QFN	Battery Charge Management Controller	MCP73871-2CAI/ML	NEW	SMD 164-2488		1.730	1.310	1.030	– –	– –
73871	MCHIP	20	QFN	Battery Charge Management Controller	MCP73871-2CCI/ML	NEW	SMD 164-2489		1.730	1.310	1.030	– –	– –
74100	TI	20	HTSSOP	Buck/Boost Switch-Mode Regulator	TPIC74100QPWPRQ1.	NEW	SMD 156-5876		2.760	2.450	2.210	2.010	1.710
75003	TI	20	QFN	Triple-Supply Power mAnagement IC for Powering FPGAs and DSPs	TPS75003RHLT		SMD 996-9187		2.870	2.390	2.150	2.020	– –
75240	TI	8	DIP	Dual Universal Serial Bus Port Transient Suppressor	SN75240P		110-2932		0.880	0.630	0.480	– –	– –
75240	TI	8	TSSOP	USB Port Suppressor, Dual	SN75240PWG4		SMD 120-7275		0.710	0.510	0.430	– –	– –
75240	TI	8	TSSOP	Dual Universal Serial Bus Port Transient Suppressor	SN75240PWR		SMD 110-0941		0.880	0.630	0.480	– –	– –
79050	MICR	8	SOIC	Simple Lithium-Ion Battery Charger	MIC79050-4.2YM	NEW	SMD 166-3109		2.780	2.300	1.840	1.670	1.420
79110	MICR	10	MLF	Simple 1.2A Linear Li-Ion Battery Charger	MIC79110-4.2YML TR	NEW	SMD 166-3110		3.440	2.830	2.270	2.070	1.750
79110	MICR	10	MLF	Simple 1.2A Linear Li-Ion Battery Charger	MIC79110YML TR	NEW	SMD 166-3111		3.440	2.830	2.270	2.070	1.750
79733	TI	5	SOT-323	Linear Regulator, LDO Ultra Low Power	TPS79733DCKTG4		SMD 117-8438		0.390	0.330	0.250	– –	– –
88016	INTS	6	TSOT-23	6-Pin Voltage Supervisors with Pin-Selectable Voltage Trip Points	ISL88016IHTZ		SMD 136-1021		1.270	1.070	0.940	0.770	0.690
88017	INTS	6	TSOT-23	6-Pin Voltage Supervisors with Pin-Selectable Voltage Trip Points	ISL88017IHTZ		SMD 136-1022		1.270	1.070	0.940	0.770	0.690

RL Re-reeling available

Power Supply ICs - continued

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
88021	INTS	8	MSOP	Triple Voltage Monitor with Adjustable Power-On Reset and Undervoltage/ Overvoltage Monitoring Capability	ISL88021IU8FAZ	SMD 136-1023●	1.860	1.270	1.120	0.970	0.910
88022	INTS	8	MSOP	Triple Voltage Monitor with Adjustable Power-On Reset and Undervoltage/ Overvoltage Monitoring Capability	ISL88022IU8FAZ	SMD 136-1024●	1.660	1.130	1.010	0.870	0.810
88031	INTS	8	MSOP	Quintuple Voltage Monitor	ISL88031IU8EAZ	SMD 136-1025●	1.940	1.470	1.260	0.990	0.930
88041	INTS	8	SOIC	Quad Voltage Monitor with Enable Feature	ISL88041IBZ	SMD 136-1026●	1.550	1.340	1.150	0.960	0.860
88731	INTS	28	TQFN	SMBus Level 2 Battery Charger	ISL88731AHRZ	NEW SMD 165-9421●	5.450	4.230	3.470	3.180	2.940

DC/DC Converters

MAXIM intersil

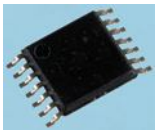
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Mftr.	Pins/Pkg	Output Current (A)	Output Voltage Accuracy	Input Voltage Range (V)	Dropout Voltage (V)	Operating Temp. Range	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+
18V												
INTS	32/QFN	1.6	1	2.6 to 5.5	–	-40°C to 85°C	EL7640ILTZ	SMD 136-0960●	1.99	1.53	1.26	1.07
INTS	32/QFN	1.6	1	2.6 to 5.5	–	-40°C to 85°C	EL7641ILTZ	SMD 136-0961●	2.24	1.80	1.54	1.35
INTS	32/QFN	1.6	1	2.6 to 5.5	–	-40°C to 85°C	EL7642ILTZ	SMD 136-0962●	2.25	1.92	1.68	1.48
INTS	8/MSOP			to 5.5		-40°C to 85°C	ISL21400IU8Z	SMD 136-1039●	1.92	1.60	1.41	1.18
INTS	3/SOT-23			to 5.5		-40°C to 85°C	ISL60002BIH311Z	SMD 136-1040●	3.38	3.02	2.65	2.24
INTS	3/SOT-23			to 5.5		-40°C to 85°C	ISL60002DIH312Z	SMD 136-1042●	1.49	1.29	1.11	0.93
INTS	3/SOT-23			to 5.5		-40°C to 85°C	ISL60002BIH318Z	SMD 136-1043●	2.60	2.33	2.15	1.82
INTS	8/SOIC			to 16.5		-40°C to 125°C	ISL21009BFB825Z	SMD 136-1044●	4.83	4.02	3.45	3.21
INTS	3/SOT-23			to 5.5		-40°C to 85°C	ISL60002CAH333Z	SMD 136-1045●	2.29	1.95	1.70	1.42
MAX	8/MSOP	0.6		to 24	0.2	-40°C to 85°C	MAX1776EUA+	SMD 137-9734●	5.31	3.74	3.04	2.79
MAX	16/QSOP	0.3		to 11		-40°C to 85°C	MAX1672EEE+	SMD 137-9767●	4.94	3.46	2.83	2.59
MAX	8/NSOIC	3		to 16.5		-40°C to 85°C	MAX1627ESA+	SMD 137-9856●	3.56	2.55	1.93	1.63
MAX	8/SOIC	2.5		to 16		-40°C to 85°C	MAX1649ESA+	SMD 137-9857●	4.81	3.44	2.59	2.18
MAX	16/QSOP	10		to 30		-40°C to 85°C	MAX1653EEE+	SMD 137-9858●	7.86	5.27	3.97	3.34
MAX	16/NSOIC	10		to 30		-40°C to 85°C	MAX1653ESE+	SMD 137-9861●	7.86	5.27	3.97	3.34
MAX	16/QSOP	10		to 30		-40°C to 85°C	MAX1655EEE+	SMD 137-9862●	7.36	5.27	3.97	3.34
MAX	8/MSOP	0.3		to 5.5		-40°C to 85°C	MAX1674EUA+	SMD 137-9864●	4.51	2.90	1.95	1.63
MAX	8/MSOP	0.3		to 5.5		-40°C to 85°C	MAX1675EUA+	SMD 137-9865●	4.51	2.90	1.95	1.63
MAX	8/SOIC	0.125		to 5.5		-40°C to 85°C	MAX1681ESA+	SMD 137-9866●	3.86	2.70	2.23	2.03
MAX	28/QSOP			to 28		-40°C to 85°C	MAX1737EEI+	SMD 137-9868●	6.91	4.45	3.01	2.51
MAX	10/MSOP	10		to 36		-40°C to 85°C	MAX1744EUB+	SMD 137-9869●	5.77	4.13	3.12	2.62
MAX	8/NSOIC	2		to 16.5		0°C to 70°C	MAX1771CSA+	SMD 137-9870●	4.35	2.79	1.88	1.57
MAX	8/NSOIC	2		to 16.5		-40°C to 85°C	MAX1771ESA+	SMD 137-9871●	5.93	3.81	2.57	2.14
MAX	16/QSOP	2		to 28		-40°C to 85°C	MAX1775EEE+	SMD 137-9873●	6.39	4.56	3.44	2.90
MAX	8/MSOP	0.55		to 5.5		-40°C to 85°C	MAX1797EUA+	SMD 137-9875●	8.87	5.71	3.86	3.21
MAX	16/QSOP	3		to 5.5	150	-40°C to 85°C	MAX1830EEE+	SMD 137-9876●	8.16	5.76	4.67	4.28
MAX	16/QSOP			to 16.5		-40°C to 85°C	MAX1847EEE+	SMD 137-9877●	4.36	3.04	2.31	2.01
MAX	16/QSOP			to 28		-40°C to 85°C	MAX1873REEE+	SMD 137-9878●	4.25	2.90	2.25	1.93
MAX	8/SOIC	2		to 5.5		-40°C to 80°C	MAX1951ESA+	SMD 137-9880●	2.98	2.11	1.71	1.55
MAX	16/QSOP	1		to 15		-40°C to 85°C	MAX1685EEE+	SMD 137-9753●	6.20	4.35	3.55	3.25
MAX	16/QSOP	0.5		to 28		-40°C to 85°C	MAX618EEE+	SMD 137-9776●	6.20	4.40	3.55	3.25
MAX	8/SOIC	0.225		to 11.5	0.5	-40°C to 85°C	MAX639ESA+	SMD 138-0008●	7.37	5.17	4.21	3.86
MAX	8/SOIC	0.225		to 11.5	0.5	-40°C to 85°C	MAX640ESA+	SMD 138-0009●	5.51	3.86	3.16	2.89
MAX	8/NSOIC			to		-40°C to 85°C	MAX6250BESA+	SMD 137-9765●	4.39	3.09	2.61	2.28

2A & 3A Dual Buck Converter

TEXAS INSTRUMENTS

New



- Output current TPS54283/6 2A & TPS54383/6 3A
- Input Voltage 4.5V to 28V
- Output Voltage 0.8 V to 90% of Input Voltage
- Operating Temperature -40°C to 125°C
- Pins/Package 14pin/HTSSOP

The TPS54xxx devices are dual output non-synchronous buck converters. With internally-determined operating frequency, soft start time, and control loop compensation, these converters provide many features with a minimum of external components. Channel 1 overcurrent protection is set at 3 A for the TPS54283/6 & 4.5A for the TPS54383/6, while Channel 2 overcurrent protection level is selected by connecting a pin to ground, to BP, or left floating. The setting levels are used to allow for scaling of external components for applications not needing the full load capability of both outputs. The outputs may be enabled independently, or may be configured to allow either ratiometric or sequential startup sequencing. Additionally, the two outputs may also be powered from different sources.

499822

Description	Mftrs. List No	Order Code	Price Each 1+	10+	100+
2A 300 kHz Dual Non-Synchronous Buck Converter	TPS54283PWPG4	SMD 154-3767●	5.23	4.65	4.13
2A 600 kHz Dual Non-Synchronous Buck Converter	TPS54286PWPG4	SMD 154-3769●	5.23	4.65	4.13
3A 300 kHz Dual Non-Synchronous Buck Converter	TPS54383PWPG4	SMD 154-3771●	5.54	4.94	4.49
3A 600 kHz Dual Non-Synchronous Buck Converter	TPS54386PWPG4	SMD 154-3773●	5.54	4.94	4.49

PWM Controllers

ON Semiconductor

New

ɜ are a high performance resonant mode controller for PSU, the NCP1396 having in addition high and low side drivers.
ɜ a 600 kHz PWM/PFM step-down DC-DC controller having typical 92% efficiency, suitable for battery operated hand-held electronic products.
ɜ a high performance active clamp/reset PWM controller, having two in phase outputs, with an overlap delay to prevent simultaneous conduction and facilitates soft switching. Programmable maximum volt-second product to prevents transformer saturation, and programmable soft-start to reduces stress during power up.

- The NCP1606 is an active power factor controller specifically designed for use as a pre-converter in electronic ballasts, ac/dc adapters and other medium power off line converters typically up to 300W.
- The NCP348 is a +28V overvoltage protection controller, which disconnects the output from the input, due to the integrated 80mΩ Ron Power NMOS transistor.
- The NCP4302 is a controller and driver that provides all the control and protection functions necessary for implementing a synchronous rectifier operation in a flyback converter.
- The NCP4330 is a dual N-channel MOSFET driver intended to be used as a companion chip in AC/DC or DC/DC multi-output post regulated power supplies.

500023

Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
16	SOIC	1MHz Resonant Mode Controller	NCP1395ADR2G	SMD 154-7109●	1.60	1.31	1.18
16	PDIP	1MHz Resonant Mode Controller	NCP1395APG	154-7110●	1.87	1.53	1.38
16	SOIC	500KHz Resonant Mode Controller with High Voltage Driver	NCP1396ADR2G	SMD 154-7111●	3.29	2.72	2.42
16	SOIC	500KHz Resonant Mode Controller with High Voltage Driver	NCP1396BDR2G	SMD 154-7113●	3.29	2.72	2.42
5	TSOP	2A 1.8V 600KHz PWM/PFM Step Down DC/DC Controller	NCP1550SN18T1G	SMD 154-7114●	0.77	0.64	0.56
16	TSSOP	1A & 2.5A Dual O/P 1MHz PWM Controller with Active Clamp/Reset	NCP1562ADBR2G	SMD 154-7115●	2.98	2.46	2.18

RL Re-reeling available

Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
16	SO	1A & 2.5A Dual O/P 1MHz PWM Controller with Active Clamp/Reset	NCP1562ADR2G	SMD 154-7116●	2.98	2.46	2.18
16	TSSOP	1A & 2.5A Dual O/P 1MHz PWM Controller with Active Clamp/Reset	NCP1562BDBR2G	SMD 154-7117●	2.98	2.46	2.18
16	SO	1A & 2.5A Dual O/P 1MHz PWM Controller with Active Clamp/Reset	NCP1562BDR2G	SMD 154-7118●	2.98	2.46	2.18
8	PDIP	300W Active Power Factor Controller.	NCP1606APG	154-7119●	0.76	0.63	0.55
8	SOIC	300W Active Power Factor Controller.	NCP1606BDR2G	SMD 154-7121●	0.63	0.52	0.47
8	PDIP	300W Active Power Factor Controller.	NCP1606BPG	154-7122●	0.76	0.63	0.55
10	WDFN	28V Positive Overvoltage Protection Controller	NCP348MTTXG	SMD 154-7129●	1.13	0.93	0.82
8	NSOIC	2.55V Ref. 250KHz Synchronous Rectification Controller for Flyback SMPS.	NCP4302ADR2G	SMD 154-7130●	1.56	1.29	1.15
8	NSOIC	1.275V Ref. 250KHz Synchronous Rectification Controller for Flyback SMPS.	NCP4302BDR2G	SMD 154-7131●	1.56	1.29	1.15
8	NSOIC	400KHz Secondary Side Synchronous Controller.	NCP4330DR2G	SMD 154-7132●	1.13	0.93	0.82

DC/DC Converters

New

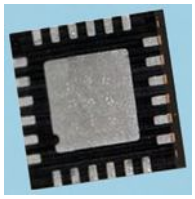
CATALYST SEMICONDUCTOR, INC.

500879

Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
CAT	6	SOT-23	Adjustable Low Noise Regulated Charge Pump DC-DC Converter	CAT3200TDI	SMD 154-9938●	2.34	2.09	1.73
CAT	8	SOIC	100mA CMOS Charge Pump, Inverter/Doubler	CAT661EVA	SMD 154-9939●	1.85	1.66	1.41

LM26480 Dual Step Down DC/DC Converter & Dual Voltage Regulator

National Semiconductor



The LM26480 is a multi-functional Power Management Unit optimized for low-power digital applications. This device integrates two highly efficient 1.5A step-down DC/DC converters and also two 300mA voltage linear regulators.

Step-Down DC/DC Converters:
- 1.5A output current
- Vout1 : 0.8V-2.0V @ 1.5A
- Vout2 : 1.0V-3.3V @ 1.5A
- Up to 96% efficiency
- ±3% FB voltage accuracy
- 2 MHz PWM switching frequency
- PWM - PFM automatic mode change under low loads
- Automatic soft start

Linear Regulators:
- Vout 3 & 4 of : 1.0V-3.5V
- 3±% FB voltage accuracy
- 300 mA output current
- 25 mV typical dropout

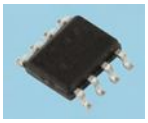
New

509106

Pins/Pkg	Operating Temp. Range	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+
24/LLP	-40°C to 85°C	LM26480SQ-AA	SMD 155-2434●	3.55	3.11	2.50	2.08

LM3407 Constant Current 350mA LED Driver

National Semiconductor



New

- Input operating range 4.5V to 30V
- Output voltage range: 0.1Vin to 0.9Vin
- Accurate constant current output 350mA
- Cycle-by-Cycle current limit
- Independent device enable (CMOS compatible) and PWM dimming control
- Converter switching frequency adjustable from 300 kHz to 1 MHz
- No external control loop compensation required
- Supports ceramic and low ESR output capacitors
- Input Under Voltage Lock Out (UVLO)
- Thermal shutdown protection

515113

Pins/Pkg	Operating Temp. Range	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+
8/eMSOP	-40°C to 125°C	LM3407MY	SMD 155-2435●	1.69	1.47	1.17	0.99

Li-Ion Power Management System

Texas Instruments

New

The TPS65024x are single powered Li-Ion or Li-Polymer cell power management ICs. The TPS65024x provide three highly efficient, step-down voltage converters. Also two general purpose 200mA and one 30mA LDO voltage regulators supplied from one of the step-down converters or directly from the battery.

- Pin/package 32/QFN
- Opearting temp. -40°C to 85°C
- 30mA LDO3 for Vdd_alive
- 200mA LDO1 and LDO2
- 3 DC/DC outputs
- Input voltage 2.5V to 6.0V
- 85µA quiescent current
- 2.25MHz switching frequency

DC1 V O/P V	DC2 V O/P V	DC3 V O/P V	DC1 / 2 / 3 I O/P A / A / A	LDO3 V	Mftrs. List No.
3.3 or 2.8 or Adj.	1.8 or 2.5 or Adj.	1.0 or 1.3	1.0 / 0.8 / 0.8	1.2	TPS650240RHBT
3.3 or 2.8 or Adj.	1.8 or 2.5 or Adj.	0.9 or 1.37	1.6 / 1.0 / 0.8	1.2	TPS650241RHBT
3.3 or 2.8 or Adj.	1.8 or 2.5 or Adj.	1.0 or 1.5	1.0 / 0.8 / 0.8	1.2	TPS650242RHBT
3.3 or 2.8 or Adj.	1.8 or 2.5 orAdj.	1.0 or 1.2	1.6 / 1.0 / 0.8	1.2	TPS650243RHBT
3.3 or 2.8 or Adj.	1.8 or 2.5 or Adj.	1.55 or 1.6	0.8 / 1.6 / 0.8	1.2	TPS650244RHBT
3.3 or 2.8 or Adj.	1.8 or 2.5 or Adj.	0.9 or 1.1	1.0 / 0.8 / 0.8	1.1	TPS650245RHBT

517326

Mftrs. List No.	Order Code	Price Each 1+	10+	100+
TPS650241RHBT	SMD 156-5869●	5.83	5.20	4.67
TPS650242RHBT	SMD 156-5870●	5.26	4.69	4.21
TPS650243RHBT	SMD 156-5871●	5.83	5.20	4.67
TPS650244RHBT	SMD 156-5872●	5.26	4.69	4.21
TPS650245RHBT	SMD 156-5873●	5.26	4.69	4.21

Power Management & Battery Chargers

Texas Instruments

New

These ICs are complete power management solutions for portable applications, from battery management to power conversion and distribution. The devices have low external component counts and small Lead(Pb)-Free packaging to provide the smallest power management solutions. High efficiency and low power consumption also help extend battery run time. Typical applications include PDA, digital cameras & mobile phones.

518230

Pins	Pkg	Features	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
56	QFN	Single-Cell Lithium-Ion Battery & Power Management with 9 Voltage O/P	TPS65810RTQT	SMD 156-9528●	10.30	9.27	8.44
48	QFN	Power and Battery Management IC For Li-Ion Powered Systems with 4 Voltage O/P.	TPS65012RGZT	SMD 156-9529●	5.26	4.11	3.34
32	QFN	Power Management IC with 2 DC/DCs & 4 LDOs.	TPS65052RSMT	SMD 156-9530●	4.23	3.66	3.30
32	QFN	Power Management IC with 2 DC/DCs & 4 LDOs.	TPS65054RSMT	SMD 156-9531●	4.35	3.38	3.04
32	QFN	Power Management IC with 2 DC/DCs & 4 LDOs.	TPS65056RSMT	SMD 156-9532●	4.35	3.38	3.04
48	QFN	Power Management IC for Li-Ion Powered System with 2 DC/DCs & 2 LDOs	TPS65014RGZT.	SMD 156-9868●	4.61	4.11	3.69
32	QFN	Power Management IC for Li-Ion Powered System with 2 DC/DCs & 4 LDOs	TPS65051RSMT.	SMD 156-9869●	3.82	3.38	3.04
56	QFN	Power Management IC for Li-Ion Powered System with 2 DC/DCs & 7 LDOs	TPS65800RTQT.	SMD 156-9870●	9.13	8.22	7.47
56	QFN	Power Management IC for Li-Ion Powered System with 2 DC/DCs & 7 LDOs	TPS65820RSHT	SMD 156-9871●	10.54	9.36	8.42

RL Re-reeling available

Power Supply ICs - continued

Battery Charger with Selectable AC Adapter or USB Port Supply

MICROCHIP

New

- High accuracy preset voltage regulation ±0.5%
- Constant current/voltage operation with thermal regulation
- Battery cell temperature monitor
- Operating temperature -40°C to 85°C
- Pin/Package 10/DFN
- MCP73837 good monitor
- MCP73838 timer enable
- Application includes, PDA, PMP, digital cameras, MP3 players & battery chargers

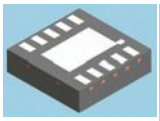
The MCP73837/8 are fully integrated linear Li-Ion / Li-Polymer battery chargers with autonomous power source selection, USB-Port or AC-Adapter as the power source. The USB-port has two preset maximum charge current rates of 100mA or 500 mA. With an AC-Adapter an external resistor sets the magnitude of the system or charge current ranging from 15mA to 1A.

518506

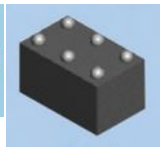
Voltage Reg.	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
4.20V	MCP73837-FCI/MF	SMD 157-8450	1.21	0.92	0.72
4.20V	MCP73837-FJI/MF	SMD 157-8451	1.21	0.92	0.72
4.35V	MCP73837-NVI/MF	SMD 157-8452	1.21	0.92	0.72
4.20V	MCP73837T-FCI/MF	SMD 157-8453	1.21	0.92	0.72
4.20V	MCP73837T-FJI/MF	SMD 157-8454	1.21	0.92	0.72
4.35V	MCP73837T-NVI/MF	SMD 157-8456	1.21	0.92	0.72
4.20V	MCP73838-FCI/MF	SMD 157-8457	1.21	0.92	0.72
4.20V	MCP73838-FJI/MF	SMD 157-8458	1.21	0.92	0.72
4.35V	MCP73838-NVI/MF	SMD 157-8459	1.21	0.92	0.72
4.20V	MCP73838T-FCI/MF	SMD 157-8460	1.21	0.92	0.72
4.35V	MCP73838T-NVI/MF	SMD 157-8461	1.21	0.92	0.72

DC-DC Converters LM3678/91 & LM5118 Series

National Semiconductor



10 Pin LLP



6 Pin MICRO Bump



20 Pin TSSOP-EXP

New

The LM3678 is an adjustable 1.5A step down converter for handheld Li-Ion battery application, in shutdown mode current consumption is 0.01µA. Output voltage accuracy is ±3% and only three external components are required.
The LM3691 are a miniature 1A step down DC-DC converters with fixed precise output voltage ±1%. Typical quiescent current is 64µA, and therfore suitable for handheld battery applications.
The LM5118 is a wide input/output DC-DC converter, with an adjustable PWM controller. Features inculde, thermal shutdown, programmable soft-start time, integrated high & low side gate drives and emulated peak current mode control.

522714

Pins/Pkg	Voltgae O/P Min/Max (V)	Voltgae I/P Min/Max (V)	Current O/P Max (A)	PWM Frequency	Operating Temp. Range	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+
10/LLP	0.8/1.2	2.5/5.5	1.5	Fixed 3.3MHz	-30°C to 85°C	LM3678SDE-1.2	SMD 160-9172	2.80	2.24	2.03	1.87
6/MICRO Bump	-/0.75	2.3/5.5	1	Fixed 4MHz	-30°C to 85°C	LM3691TL-0.75	SMD 160-9174	3.69	2.96	2.68	2.46
6/MICRO Bump	-/1.2	2.3/5.5	1	Fixed 4MHz	-30°C to 85°C	LM3691TL-1.2	SMD 160-9175	3.69	2.96	2.68	2.46
6/MICRO Bump	-/1.5	2.3/5.5	1	Fixed 4MHz	-30°C to 85°C	LM3691TL-1.5	SMD 160-9176	3.69	2.96	2.68	2.46
6/MICRO Bump	-/1.8	2.3/5.5	1	Fixed 4MHz	-30°C to 85°C	LM3691TL-1.8	SMD 160-9177	3.69	2.96	2.68	2.46
20/TSSOP-EXP	1.23/70	3/75	2.7	Programmable 500kHz	-40°C to 125°C	LM5118MH	SMD 160-9187	4.76	3.82	3.47	3.17

IR3812/20/22 DC-DC Voltage Regulator Evaluation Board

International IOR Rectifier

New



- Input voltage 12V
- Switching frequency 600kHz
- Programmable soft start
- Programmable over current protection
- Pre-bias start up
- Output voltage/current IR3812 0.75V/4A
- Output voltage/current IR3820 1.8V/12A
- Output voltage/current IR3822 1.8V/4A

523624

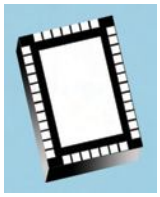
Mftrs. List No.	Order Code	Price Each 1+
IRDC3820	164-3323	156.74
IRDC3812	164-3324	156.74
IRDC3822	164-3325	156.74

700 products added online every week

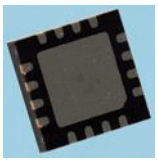
See our pick of the hottest products and latest technologies in '**What's New?**' at **www.farnell.co.uk**

LT3507 Triple Output & LTC3523 Dual Step Up/Down DC-DC Converters

LINEAR TECHNOLOGY



38 Pin QFN



16 Pin DFN

New

LT3507
- Input voltage 4V to 36V
- One 2.4A & two 1.5A output switching regulators
- Low dropout linear regulator with external transistor
- Antiphase switching which reduces ripple
- Independent run, tracking/soft-start & power good indicators
- Adjustable 250kHz to 2.5MHz switching frequency

LTC3523
- Step-up 1.8V to 5.25V@ 600mA
- Step-Down 0.615V to 5.5V @400mA
- Up to 94% effi ciency
- Pin selectable burst mode operation
- 45µA quiescent current in burst mode operation
- Switching frequency 1.2MHz/ 2.4MHz for LTC3523/LTC3523-2

523352

Pins/Pkg	Op. Temp.	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
38/QFN	-40°C to +125°C	LT3507EUHF#PBF	SMD 160-9756	6.79	6.06	5.18
38/QFN	-40°C to +150°C	LT3507HUHF#PBF	SMD 160-9757	8.56	7.64	6.53
38/QFN	-40°C to +125°C	LT3507IUHF#PBF	SMD 160-9758	8.16	7.30	6.23
16/DFN	-40°C to +85°C	LTC3523EUD#PBF	SMD 160-9768	4.95	3.97	3.60
16/DFN	-40°C to +85°C	LTC3523EUD-2#PBF	SMD 160-9769	4.95	3.97	3.60

PWM Controllers

intersil MAXIM

492332

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	25+	100+	250+	500+
6535	INTS	14	SOIC	Synchronous Buck Pulse-Width Modulator (PWM) Controller	ISL6535IBZ	SMD 136-1009	2.12	1.50	1.33	1.11	1.07
1760	MAX	10	µMAX	0.8A, Low-Noise, 1MHz, Step-Up DC-DC Converter	MAX1760EUB+	SMD 142-2291	4.12	3.10	2.77	2.41	2.24
6545	INTS	8	SOIC	5V or 12V Single Synchronous Buck Pulse-Width Modulation (PWM) Controller	ISL6545AIBZ	SMD 136-1010	1.71	1.42	1.28	1.06	0.97
6566	INTS	40	QFN	Three-Phase Buck PWM Controller with Integrated MOSFET Drivers for VRM9, VRM10, and AMD Hammer Applications	ISL6566AIRZ	SMD 136-1011	3.18	2.66	2.42	1.98	1.79
8104	INTS	14	SOIC	Synchronous Buck Pulse-Width Modulator (PWM) Controller	ISL8104IBZ	SMD 136-1012	3.01	1.75	1.12	1.08	1.06
8105	INTS	8	SOIC	1V to 12V Single-Phase Synchronous Buck Converter PWM Controller with Integrated MOSFET Gate Drivers	ISL8105AIBZ	SMD 136-1013	1.89	1.56	1.37	1.14	1.06
8105	INTS	8	SOIC	1V to 12V Single-Phase Synchronous Buck Converter PWM Controller with Integrated MOSFET Gate Drivers	ISL8105IBZ	SMD 136-1014	1.89	1.56	1.37	1.14	1.06
8106	INTS	16	QFN	Wide VIN, 7V to 25V, Single-Phase PWM Controller with Integrated MOSFET Drivers	ISL8106CRZ	SMD 136-1015	2.33	2.04	1.81	1.49	1.38
1856	MAX	10	µMAX	PWM SLIC Power Supply	MAX1856EUB+	SMD 142-2292	3.81	2.44	1.66	1.38	1.31
660	MAX	8	NSOIC	CMOS Monolithic Voltage Converter	MAX660ESA+	SMD 137-9736	7.23	4.81	4.22	3.86	– –
7662	MAX	8	SOIC	CMOS, Voltage Converters	ICL7662EBA+	SMD 137-9752	4.16	3.19	2.58	2.23	– –

RL Re-reeling available

Farnell

Fixed Frequency PWM Controllers

The **SP6133** is a high voltage synchronous step-down switching regulator controller, single supply step down converter. It is designed to drive a pair of external NFETs. Protection features include UVLO, thermal shutdown, output short circuit protection, and overcurrent protection with auto restart. The device also features a PWRGD output and an enable input.
The **SP6134H** is a high voltage, synchronous step-down switching regulator controller optimized for high efficiency. The device is designed to be especially attractive for dual supply, 12V step down with 5V used to power the controller. This lower supply voltage minimizes power dissipation in the part. The SP6134H is designed to drive a pair of external NFETs. Protection features include UVLO, thermal shutdown and output short circuit protection.
The **SP6652** is a high efficiency, synchronous buck regulator ideal for portable applications using one Li-Ion cell. A logic level shutdown control, external clock synchronization, and forced-PWM or automatic control inputs are provided. Other features include soft-start, over current protection and 140C over-temperature shutdown.

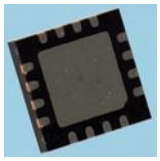
Input Voltage Min/Max	Max Output Current	Frequency	Supply	Efficiency	Mftrs
V	A	KHz	Single/Dual	%	List No.
5 / 24	30	300	Single	95	SP6133ER1-L
3 / 28	30	600	Dual	94	SP6134HEU-L
2.7 / 5.5	1	1400	Single	97	SP6652EU-L

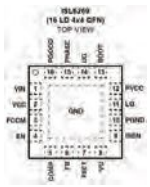
480873

Pins	Package	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
16	QFN	SP6133ER1-L	SMD 131-7814●	1.75	1.35	1.13	1.05	0.98
10	MSOP	SP6134HEU-L	SMD 131-7815●	1.75	1.35	1.13	1.05	0.98
10	DFN	SP6652EU-L	SMD 131-7826●	1.52	1.17	0.97	0.91	0.85

High-Performance Single-Phase PWM Notebook Controller

6269 Series

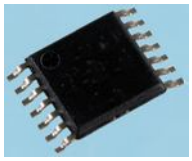


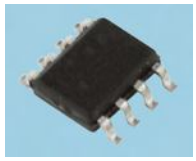


- Fast transient response
- Wide input voltage range: +7.0V to +25.0V
- Output voltage range: +0.6V to +3.3V
- Wide output load range: 0A to 25A
- Selectable diode emulation mode for increased light load efficiency
- Programmable PWM frequency: 200kHz to 600kHz
- Pre-biased output start-up capability
- Internal 5V LDO for self-biasing
- Integrated MOSFET drivers and bootstrap diode
- Internal digital soft-start
- Power good monitor
- PWM minimum frequency above audible spectrum
- Fault protection
- Undervoltage protection
- Soft crowbar overvoltage protection
- Low-side MOSFET rDS(ON) overcurrent protection
- Over-temperature protection
- Fault identification by PGOOD pull down resistance

The 6269 family range of ICs are a Single-Phase Synchronous-Buck PWM controllers featuring Intersil's Robust Ripple Regulator (R3) technology that delivers truly superior dynamic response to input voltage and output load transients. Integrated MOSFET drivers, 5V LDO and bootstrap diode result in fewer components and smaller implementation area..
ISL6269 High-Performance Notebook PWM Controller with Bias Regulator and Audio-Frequency Clamp.
ISL6269A High-Performance Notebook PWM Controller.
ISL6269B High-Performance Notebook PWM Controller with Audio-Frequency Clamp.

810xs Series





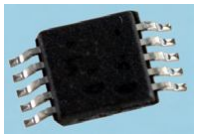
- Wide input voltage range ISL8104 +8.0V to +14.0V
- Wide input voltage range ISL8105 +1.0V to +12.0V
- Wide input voltage range ISL8106 +7.0V to +25.0V
- Fast transient response
- +0.6V internal reference
- Integrated MOSFET drivers with shoot-through protection
- External type-two loop compensation
- PWM minimum frequency above audible spectrum
- Internal digital soft-start with prebiased startup capability

The **ISL8104** is a Buck Pulse-Width Modulation (PWM) Controller with overcurrent protection.The operating frequency is adjustable from 50kHz to 1.5MHz. The amplifier features a 15MHz (typ) gain-bandwidth product and 6V/µs slew rate enabling high converter bandwidth.The output voltage of the converter can be regulated to as low as 0.597V with a tolerance of ±1.0%.
The **ISL8105** is a Buck Converter PWM Controller with Integrated MOSFET Gate Drivers. Utilizing voltage-mode control, the output voltage can be precisely regulated to as low as 0.6V. Two fixed oscillator frequency versions are available; 300kHz (ISL8105 for high efficiencyapplications) and 600kHz (ISL8105A for fast transient applications).
The **ISL8106** is a Single-Phase Synchronous-Buck PWM Controller with a 5V LDO regulator. A resistor divider is used to program the output voltage setpoint. The ISL8106 can be configured to operate in forced-continuous conduction-mode (FCCM) or in diode-emulation-mode (DEM), which improves light-load efficiency.

481305

Mftrs. List No.	Pins	Package	Order Code	Price Each 1+	25+	100+	250+	500+
ISL8104IBZ	14	SOIC	SMD 136-1012●	3.01	1.75	1.12	1.08	1.06
ISL8105AIBZ	8	SOIC	SMD 136-1013●	1.89	1.56	1.37	1.14	1.06
ISL8105IBZ	8	SOIC	SMD 136-1014●	1.89	1.56	1.37	1.14	1.06
ISL8106CRZ	16	QFN	SMD 136-1015●	2.33	2.04	1.81	1.49	1.38
ISL6269AIRZ	16	QFN	SMD 143-9882●	2.91	2.26	2.03	1.74	1.60
ISL6269BIRZ	16	QFN	SMD 143-9883●	2.97	2.25	2.08	1.79	1.62
ISL6269IRZ	16	QFN	SMD 143-9884●	3.00	2.29	2.10	1.81	1.64

Programmable Switching Frequency PWM Controllers



The MAX15000/MAX15001 are current-mode PWM controllers containing all the control circuitry required, for the design of wide-input-voltage isolated and nonisolated power supplies.

- Package 10-Pin µMAX
- Operating temperature +85°C to -40°C
- Current-mode control
- Programmable switching frequency up to 625kHz
- Accurate UVLO threshold 1%
- Open-drain UVLO flag output with internal delay
- 36V to 72V telecom voltage range
- Universal off-line input voltage range
- Digital soft-start
- Internal bootstrap UVLO with large hysteresis MAX15000
- Internal error amplifier with 1.5% accurate reference
- 50µA typical startup supply current
- 60ns cycle-by-cycle current-limit propagation delay

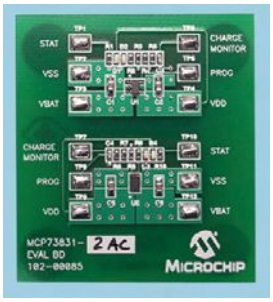
485338

Input Voltage	Max. Duty Cycle	Min. Start Up Voltage	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+
Rectified 85VAC to 265VAC	50%	23.6V	MAX15000AEUB+	SMD 143-3225●	2.42	1.72	1.26	1.12
Rectified 85VAC to 265VAC	50%	23.6V	MAX15000BEUB+	SMD 143-3226●	1.99	1.41	1.03	0.92
9.5VDC to 24VDC	75%	9.5V	MAX15001AEUB+	SMD 143-3227●	1.99	1.41	1.03	0.92
9.5VDC to 24VDC	75%	9.5V	MAX15001BEUB+	SMD 143-3228●	2.42	1.96	1.90	1.85

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Power Supply ICs - continued

MCP73831 Evaluation Kit



Two evaluation boards are provided in the MCP73831 Evaluation Kit. The boards are set up to evaluate simple, stand-alone, linear charging of single cell Li-Ion / Li-Polymer battery packs (the battery packs are not included). Each board design provides constant current charging followed by constant voltage charging with automatic charge termination. In addition, the MCP73831-2AC board provides preconditioning of deeply depleted cells.

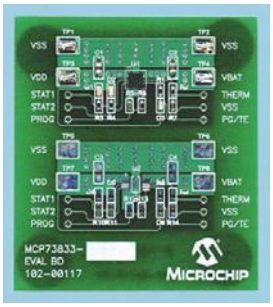
Each board design provides evaluation of the MCP73831 in two package options: a SOT23-5 and a 2 mm x 3 mm, 8-Lead DFN for higher power handling capability.

Features:
- 4.2V Charge Voltage
- Programmable Fast Charge Current up to 500 mA
- Preconditioning of deeply depleted cells (MCP73831-2AC)
- No Preconditioning (MCP73831-2DC)
- Automatic Charge Termination
- Charge Current Monitor

478283

Mftrs. List No.	Order Code	Price Each 1+
MCP73831EV	133-2157●	22.68

MCP73833 Li-Ion Battery Charger Evaluation Board



The MCP73833 Evaluation Board is an evaluation and demonstration tool for Microchip's MCP73833/4 Stand-Alone Linear Li-Ion/Li-Polymer Charge Management Controllers. Two independent circuits are provided (only one is populated) for charging single cell Li-Ion / Li-Polymer battery packs (the battery packs are not included). Each circuit design provides constant current charging followed by constant voltage charging algorithm with automatic charge termination and battery temperature monitoring. In addition, the installed MCP73833-FCI/MF provides preconditioning of deeply depleted cells and a safety timer.

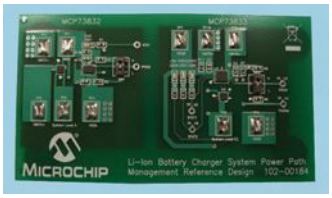
The MCP73833 Evaluation Board provides for evaluation of the MCP73833/4 in two package options: a MSOP-10 (not populated) and a 3mm x 3mm, 10-Lead DFN for higher power handling capability (MCP73833-FCI/MF installed).

Features:
- Charge Voltage: 4.20V
- Programmable Fast Charge Current up to 1000mA
- Preconditioning of deeply depleted cells
- Automatic Charge Termination
- Automatic Recharge
- Battery Temperature Monitor
- Safety Timer
- Thermal Regulation
- Reverse Discharge Protection

478286

Mftrs. List No.	Order Code	Price Each 1+
MCP73833EV	133-2161●	10.08

MCP7383X Li-Ion System Power Path Management Reference Design



New

Portable electronics has played an important role in modern era. Due to the natural characteristics of Li-Ion / Li-Polymer batteries, they are the most popular power sources for mobile devices. However, extra care in design is always important to implement Li-Ion / Li-Polymer batteries. System Power Path Management allows end-users to charge their batteries without interruption.

This reference design is developed to assist product designers in reducing product design cycle and time by utilizing Microchip's favorite stand-alone Li-Ion battery charge management controllers with system power path management.

527564

Mftrs. List No.	Description	Order Code	Price Each
MCP7383XRD-PPM	MCP7383X Li-Ion System Power Path Management Reference Design	167-6252●	24.70

MCP7386X Li-Ion Battery Charger Evaluation Board



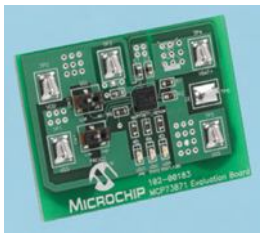
Features:
- Evaluation of MCP7386X devices in 4mm x 4mm, 16-Lead QFN packages
- Simple Stand-Alone Operation or Microcontroller Compatible
- Powered from external bench supply or wall cube
- Surface-Mount Design
- Fully Assembled and Tested

The MCP7386X Evaluation Board is set up to evaluate simple, stand-alone, linear charging of single/dual cell Lithium-Ion/Lithium-Polymer battery packs (the battery packs are not included). The board design provides constant current charging followed by constant voltage charging with automatic charge termination. As provided, the MCP7386X Evaluation Board is set for a fast charge current level of 1.1A for single cell applications. The MCP73861 is equipped with shutdown control, status indicator, fault indicator, safety timer, and continuous cell temperature monitor. For dual cell applications, the MCP73862 or the MCP73864 can be substituted for the MCP73861.

450884

Mftrs. List No.	Description	Order Code	Price Each
MCP7386XEV	MCP7386X Li-Ion Battery Charger Evaluation Board	111-2747	15.12

MCP73871 Evaluation Board



New

The MCP73871 Evaluation Board is designed to demonstrate Microchip's stand-alone linear Li-Ion battery charger with system power path and load sharing management control solution. The system load is also supported by the Li-Ion battery when input power is disconnected. A number of device options allow the MCP73871 device to be utilized in a variety of applications.

Features:
- Integrated System Load Sharing
- Three LED indicators for charge status, low battery and power good signal
- Input Current Limit Control with dip switches between ac-dc adapter (typical 1650 mA), USB-High (500 mA), and USB-Low (100 mA)

527563

Mftrs. List No.	Description	Order Code	Price Each
MCP73871EV	MCP73871 Evaluation Board	167-6251●	12.35

MCP1601 Buck Regulator Evaluation Board



The MCP1601 Buck Regulator Evaluation Board demonstrates Microchip's MCP1601 Synchronous Buck Regulator, developed for battery powered applications as well as distributed power applications. Two 2-position DIP switches are used, one to select the output voltage (1.8V, 2.05V, 2.45V or 3.28V) and one that turns the MCP1601 on and off with the other position selecting the mode of operation (PWM-pulse width modulation or PFM-pulse frequency modulation). Surface mount test points are used to apply power and load in addition to probing several points in the test circuit.

Features:
- Operates over a 2.7V to 5.5V input range while delivering 500 mA of output current
- One of four output voltages can be selected using the on-board switch
- Low noise fixed frequency PWM operation and light load PFM mode operation can be selected using the on board switch
- External frequency synchronization can be implemented using a 1 MHz external clock source
- ON/OFF switch for evaluating startup and shutdown operation

494734

Mftrs. List No.	Description	Order Code	Price Each 1+
MCP1601EV	Buck Regulator Evaluation Board	133-2081●	15.12

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MCP1630/50 & MCP3905 Evaluation Boards

MICROCHIP

New



1578362



1578363



1578365



1578366



1578367



1578434



1578435

● MCP1630DM-DDBK4

The MCP1630 device demonstrates a high-speed Pulse Width Modulator (PWM) used for automotive application. When used in conjunction with a microcontroller, the MCP1630 will control the power system duty cycle to provide three regulated output voltages of 3.3V at 1.2A, 1.2V at 600 mA and 4.7V at 150 mA. The PIC12F683 microcontroller is used to provide reference voltage, ON/OFF of converter using push button SW1 and oscillator pulses at switching frequency of 250 kHz. The MCP1630 generates duty cycle based on various external inputs. External signals include the input oscillator pulses, reference voltage from PIC12F683 device, and the feedback voltage. The user can also modify or develop their own firmware routines to further evaluate the MCP1630 device in this application.

● MCP1630DM-DDBS1

The MCP1630/V demonstrates high-speed pulse width modulator used for automotive applications. When used with a microcontroller, the MCP1630/V devices control the power system duty cycle to provide regulated output voltage. The programmable PIC12F683 microcontroller is used to provide oscillator pulses at switching frequency of 500 kHz and set maximum duty cycle. The user may also modify or develop theirown firmware routines to further evaluate the MCP1630/V devices in this application.

● MCP1630DM-LED2

This demo board is a step-up, switch-mode, DC-DC converter used for power LED applications. The demo board provides a 350 mA or 700 mA constant current source with a jumper selection. The input operating voltage range is 9-16VDC and the board can supply up to 30W to a string of power LEDs.

● MCP1630RD-LIC2

This board is used to evaluate the MCP1630 device used in a SEPIC power converter applications. The charger is capable of charginga single-cell, Li-Ion battery pack utilizing an input voltage of 6V to 18V (battery packs are not included).

● MCP1650EV

The MCP165X demonstrates boost controller product family in two high-power, boost-converter applications.

● MCP3905EV

This evaluation board is designed to test out a variety of energy meter designs. On the input side high-voltage line and load AC-plug headers are included, along with mounting holes for shunts, current transformers and screw-type connections for wiring. On the output side a large prototype area is included along with optical isolation and a standard PICtail header for experiments with a variety of PIC MCU-based energy meter designs.

● MCP3905RD-PM1

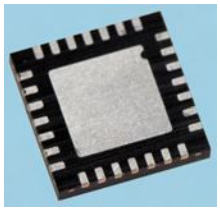
A stand-alone low-cost energy meter that can act as either a stand alone energy meter, or as the analog front end design for LCD MCU-based meters. This design is specified with an energy measurement error of 0.1% typical across 1:500 dynamic range for high accurate energy meter designs and is compliant with EMC requirements per energy metering standards IEC62053 and legacy IEC61036, IEC1046 and IEC687.

518621

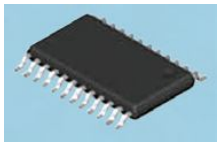
Mftrs. List No.	Supported Devices	Description	Order Code	Price Each 1+
MCP1630DM-DDBK4	MCP1630, PIC12F683	Automotive I/P Triple O/P PWM Converter Demo Board	157-8362●	25.20
MCP1630DM-DDBS1	MCP1630, PIC12F683	Automotive I/P Boost Converter Demo Board	157-8363●	17.64
MCP1630DM-LED2	MCP1630V, PIC12F683, MCP1702	MCP1630 Boost Mode LED Driver Demo Board	157-8365●	15.12
MCP1630RD-LIC2	MCP1630	Li-ion 6V to 18V Battery Charger Refernce Design Board	157-8366●	15.12
MCP1650EV	MCP1650	Bosst Controller Evalution Board	157-8367●	22.68
MCP3905EV	MCP3905	MCP3905 Energy Meter Evaluation Board	157-8434●	58.82
MCP3905RD-PM1	MCP3905	MCP3905 Energy Meter Reference Design	157-8435●	64.29

Notebook Computer Battery Charger Controllers

intersil



28 QFN



24 QSOP

The Intersil ISL6252 & ISL6256 are high efficient battery charger controller for Li-Ion/Li-Ion polymer batteries. The low side MOSFET emulates a diode at light loads to improve the light load efficiency and prevent system bus boosting. The devices are capable of monitoring the current drawn and the presents of an AC adaptor. The ISL6256 automatically transitions from regulating current mode to regulating voltage mode.

- ±0.5% charge voltage accuracy
- ±3% input & battery charge current limit
- ±25% battery trickle charge current limit
- Programmable charge current limit, adapter current limit and charge voltage
- Fixed 300kHz PWM synchronous buck controller with diode emulation at light load
- Overvoltage protection
- AC & DC adapter present indicators
- Fast input current limit response
- Input voltage range 7V to 25V
- Support 2, 3 and 4 series Li-Ion/Li-Ion polymer cells battery pack
- Up to 17.64V battery-voltage set point
- Thermal Shutdown
- Less than 10µA battery leakage current
- Supports pulse charging
- Temperature range of -10°C to +100°C

Table of Battery Charge Current Limit

	Input Voltage = 3.3V			Input Voltage = 2.0V			Input Voltage = 0.2V		
Device	Min	Typ	Max	Min	Typ	Max	Min	Typ	Max
ISL62xx	160mV	165mV	170mV	95mV	100mV	105mV	5.0mV	10mV	15.0mV
ISL62xxA	161.7mV	165mV	168.3mV	97mV	100mV	103mV	7.5mV	10mV	12.5mV

RL Re-reeling available

Farnell

Power Supply ICs - continued

Notebook Computer Battery Charger Controllers - continued

480869

Pins/Package	Description	Mftrs. List No	Order Code	Price Each 1+	10+	100+	250+	500+
24 QSOP	Battery Charger Controller	ISL6252AHAZ	SMD 143-9873	5.32	4.13	3.71	3.08	2.92
28 QFN	Battery Charger Controller	ISL6252AHRZ	SMD 143-9874	5.61	4.37	3.93	3.37	3.08
24 QSOP	Battery Charger Controller	ISL6252HAZ	SMD 143-9875	5.53	4.29	3.86	3.20	3.03
28 QFN	Battery Charger Controller	ISL6252HRZ	SMD 143-9876	5.61	4.37	3.93	3.37	3.08
28 QSOP	Battery Charger Controller with Automatic Power Source Selector	ISL6256AHAZ	SMD 143-9877	5.49	4.44	4.00	3.44	3.14
28 QFN	Battery Charger Controller with Automatic Power Source Selector	ISL6256AHRZ	SMD 143-9878	5.39	4.26	3.83	3.29	3.02
28 QSOP	Battery Charger Controller with Automatic Power Source Selector	ISL6256HAZ	SMD 143-9879	5.49	4.44	4.00	3.44	3.14
28 QFN	Battery Charger Controller with Automatic Power Source Selector	ISL6256HRZ	SMD 143-9880	5.71	4.51	4.06	3.49	3.20

Battery Monitors & Chargers

MAXIM

496917

Mftrs. List No.	Pins/Package	Operating Temp. Min/Max	Description	Order Code	Price Each 1+	10+	100+	250+
DS2711Z+	16 / SOIC	-40 / 85	Single NiMH Charger	NEW SMD 162-8241	2.98	2.65	2.15	1.97
DS2712Z+	16 / SOIC	-40 / 85	Dual NiMH Charger	NEW SMD 162-8242	2.98	2.65	2.15	1.97
DS2714E+	20 / TSSOP	-20 / 70	Quad NiMH Charger	NEW SMD 162-8243	3.28	2.92	2.39	2.19
DS2756E+	8 / TSSOP	-20 / 70	High-Accuracy Battery Gauge	SMD 145-5594	4.19	2.69	1.54	– –
DS2756E+	8 / TSSOP	-20 / 70	High-Accuracy Battery Gauge	SMD 145-5594	4.19	2.69	1.54	– –
DS2764BE+	16 / TSSOP	-20 / 70	High-Precision Li+ Battery Monitor	SMD 145-5596	4.81	3.35	2.69	– –
DS2780G+	10 / TDFN	-40 / 85	Battery Monitor	NEW SMD 162-8244	4.45	3.97	3.24	2.98
DS2781E+	8 / TSSOP	-40 / 85	Precision Voltage, Temperature & Current Measurement System	SMD 145-5597	6.39	4.10	2.36	– –
DS2782E+	8 / TSSOP	-40 / 85	Precision Voltage, Temperature & Current Measurement System	SMD 145-5598	4.91	3.16	1.80	– –
DS2784G+	14 / TDFN	-40 / 85	Precision Voltage, Temperature & Current Measurement System	SMD 145-5599	5.47	3.73	2.55	2.48
DS2786G+	10 / TDFN	-20 / 70	Open Circuit Voltage Battery Capacity Monitor	SMD 145-5600	2.65	1.81	1.43	1.40
85-40	14 / TSSOP	-40 / 85	Battery Monitor with LED Display Driver	NEW SMD 162-8245	4.50	3.99	3.26	3.00
MAX846AEEE+	16 / SOP	-40 / 85	Multichemistry Battery Charger System	NEW SMD 162-8231	4.61	4.10	3.35	3.06
MAX1874ETE+	16 / TQFN	-40 / 85	Dual-Input USB/AC Adapter Charger with OVP & Thermal Regulation	NEW SMD 162-8224	2.98	2.65	2.15	1.97
MAX1898EUB42+	10 / µMax	-40 / 85	Linear Charger for Single-Cell Li+ Battery	NEW 162-8225	2.27	2.03	1.65	1.51
MAX1908ETI+	28 / TQFN	-40 / 85	Multichemistry Battery Charger	NEW SMD 162-8226	7.42	6.59	5.39	4.95
MAX1909ETI+	28 / TQFN	-40 / 85	Multichemistry Battery Charger with Automatic Power Selector	NEW SMD 162-8228	7.42	6.59	5.39	4.95
MAX1925ETC+	12 / TQFN	-40 / 85	Switch-Mode Single Cell Li+ Charger	NEW SMD 162-8229	2.67	2.36	1.94	1.77
MAX1926ETC+	12 / TQFN	-40 / 85	Switch-Mode Single Cell Li+ Charger	NEW SMD 162-8230	2.67	2.36	1.94	1.77
MAX1501ETE+	16 / QFN	-40 / 85	Battery Charger with Thermal Regulation	NEW SMD 162-8219	2.93	2.61	2.13	1.96
MAX1508ETA+T	8 / TQFN	-40 / 85	Battery Charger with Integrated Pass FET	NEW SMD 162-8220	2.69	2.40	1.96	1.81
MAX1551EZK+T	5 / SOT-23	-40 / 85	Dual-Input USB/AC Adapter Battery Charger	NEW SMD 162-8221	1.33	1.18	0.96	0.88
MAX1555EZK+T	5 / SOT-23	-40 / 85	Dual-Input USB/AC Adapter Battery Charger	NEW SMD 162-8222	1.33	1.18	0.96	0.88
MAX17005ETP+	20 / TQFN	-40 / 85	1.2MHz High Performance Charger	NEW SMD 162-8216	8.45	7.52	6.15	5.63
MAX17006ETP+	20 / TQFN	-40 / 85	1.2MHz High Performance Charger	NEW SMD 162-8217	8.45	7.52	6.15	5.63
MAX1758EAI+	20 / SSOP	-40 / 85	Switch-Mode Battery Charger with Internal 28V Switch	NEW SMD 162-8223	5.51	4.90	4.01	3.67
MAX8600ETD+T	14 / TDFN	-40 / 85	Single Input 1 Cell Li+ Chargers with OVP Protection	NEW SMD 162-8232	1.94	1.72	1.40	1.29
MAX8601ETD+T	14 / TDFN	-40 / 85	Dual Input 1 Cell Li+ Chargers with OVP Protection	NEW SMD 162-8233	2.08	1.85	1.52	1.39
MAX8606ETD+T	14 / TDFN	-40 / 85	USB/AC Adapter Li+ Linear Battery Charger with Battery Switch	NEW SMD 162-8234	2.72	2.42	1.98	1.82
MAX8671XETL+	40 / QFN	-40 / 85	Power Management and Charger IC	NEW SMD 162-8218	6.47	5.74	4.71	4.32
MAX8725ETI+	28 / TQFN	-40 / 85	Multichemistry Battery Chargers with Power Selector	NEW SMD 162-8235	7.42	6.59	5.39	4.95
MAX8814ETA+T	8 / TDFN	-40 / 85	28V Linear Li+ Battery Charger with Autoboot	NEW SMD 162-8236	2.05	1.82	1.49	1.37

PFC & PWM Controllers

FAIRCHILD SEMICONDUCTOR

422901

	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
4803	8	DIP	PFC & PWM Controller Combo (67kHz PFC/67kHz PWM)	FAN4803CP1	110-2134	2.19	1.67	1.24
4803	8	DIP	PFC & PWM Controller Combo (67kHz PFC/134kHz PWM)	FAN4803CP2	110-2135	2.19	1.67	1.24
4800	16	DIP	PFC & PWM Controller Combo (250kHz PWM)	ML4800IP	110-2158	2.46	1.67	1.24
7529	8	SOIC	Critical Conduction Mode PFC Controller	FAN7529M	SMD 149-5496	0.42	0.36	0.32
7529	8	DIP	Critical Conduction Mode PFC Controller	FAN7529N	149-5497	0.55	0.48	0.36
7530	8	SOIC	Critical Conduction Mode PFC Controller	FAN7530M	SMD 149-5498	0.55	0.50	0.47
7530	8	DIP	Critical Conduction Mode PFC Controller	FAN7530N	149-5499	0.55	0.50	0.47
4800	16	SOIC	Power Factor Correction (PFC) and PWM Controller Combo	FAN4800IM	SMD 149-5507	1.78	1.21	0.87
4810	16	DIP	PFC Controller	FAN4810N	110-2136	1.67	1.14	0.82
4821	18	DIP	PFC Controller	ML4821CP	110-2159	4.41	3.01	2.24
4824	16	DIP	PFC & PWM Controller Combo (PWM frequency = 1 × PFC)	ML4824CP1	110-2160	3.15	2.25	1.68
4824	16	DIP	PFC & PWM Controller Combo (PWM frequency = 1 × PFC)	ML4824IP1	110-2162	2.81	1.91	1.42
4826	20	DIP	PFC & Dual Output PWM Combo (PWM frequency = 2 × PFC)	ML4826CP2	110-2164	4.81	3.28	2.44
4824	16	DIP	PFC & PWM Controller Combo (PWM frequency = 2 × PFC)	ML4824CP2	110-2161	3.05	2.44	1.90
4841	16	DIP	Variable Feedforward PFC/PWM Controller Combo	ML4841CP	110-2165	4.50	3.58	2.78
5026	28	TSSOP	Dual DDR/Dual-Output PWM Controller	FAN5026MTC	SMD 110-2139	1.66	1.31	0.96

IRPP3637 Reference Designs

International IOR Rectifier



IR has expanded its myPOWER online design services with the introduction of the POWIR+™ chipset reference designs and enhanced online design services, to simplify and accelerate power management circuit design. The first series of POWIR+ chipsets brings together the IR3637SPbF and IR3637ASPbF application-tuned PWM control ICs and their companion HEXFET® MOSFETs for single-phase synchronous buck applications in computing and high-end consumer applications. The IRPP3637-12A reference design is a 12 amps version and users may modify any of the standard designs online at http://powirplus.irf.com to create custom circuits.

494555

Mftrs. List No.	Order Code	Price Each
IRPP3637-12A	143-6886	101.67

IRAC1150-D2 Control Design Kit

International IOR Rectifier



PFC control design kit featuring the IR1150 µPFC™ for AC-DC PFC, which is a small, 710 mm-sqaure (1.1-inch-square), fully-assembled PFC control circuit that engineers can drop in to an existing power supply, replacing its old continuous conduction mode (CCM) PFC circuit.Designing with the IR1150 is simplified with the aid of a two-step process online design tool: Users simply enter system requirements, and the design tool generates a complete bill of materials. The design tool simplifies

RL Re-reeling available

Farnell

active PFC development so that designers can replace old, passive solutions with poor power factors and low efficiency with modern, more efficient solutions.

Features:
- IEC1000-3-2 Compliant, Low Harmonic Distortion
- Universal Input Voltage
- Current Loop Controlled Power Limiting
- Brownout Protection
- Over voltage Protection - 420VDC nominal
- Open Feedback loop Protection
- 100kHz Switching Frequency, (User Programmable from 50kHz to 200kHz)
- Full Load Start Up with 40msec soft start time
- No Minimum Load Requirements and 390VDC nominal output voltage
- Sleep Mode Enable for Low Standby Current Requirement, (Blue Angel, etc.)
- VCC range 14V - 20V

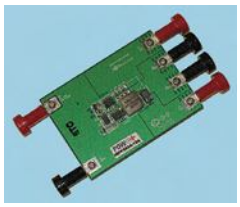
494404

Mftrs. List No.	Order Code	Price Each
IRAC1150-D2	**143-6878**	155.24

POWIR+ Chipsets

IRPP3624-12A

International IOR Rectifier



IRPP3624-12A

Features:
- $12V_{in}$, 12A @ $1.8V_{out}$
- 29mm x 16mm footprint
- 83.3% efficiency
- adjustable hiccup over current protection
- pre-bias start up
- featuring IR3624MPBF PWM & driver IC and IRF7823PBF and IRF7832ZPBF SO-8 MOSFETs

495307

Mftrs. List No.	Order Code	Price Each
IRPP3624-12A	**143-6894**	101.67

IRAC116-100W

International IOR Rectifier



Contents:
- assembled and tested demo board
- user guide
- schematic
- bill of materials
- circuit board layout
- datasheet

Features:
- +16V low side smart rectification 100W flyback
- universal AC input
- 16V @ 6.25A during active rectification mode
- featuring heatsink less secondary rectification
- employs IR1166SPBF smart rectifier controller and IRF7853 MOSFETs

495472

Mftrs. List No.	Order Code	Price Each
IRAC1166-100W	**143-6898**	190.19

IRDC3622D & IRDC3622S

International IOR Rectifier



IRDC3622D



IRDC3622S

IRDC3622D

Features:
- dual output supply using dual synchronous buck controller
- $12V_{in}$, $2.5V_{out}$ @ 20A I_{out} and $1.8V_{out}$ @ 20A I_{out}
- 350 kHz switching frequency per output
- featuring IR3622MPBF PWM with IRF6622 and IRF6629 DirectFET MOSFETs

Mftrs. List No.	Order Code	Price Each
IRDC3622D	**143-6896**	101.67

IRDC3622S

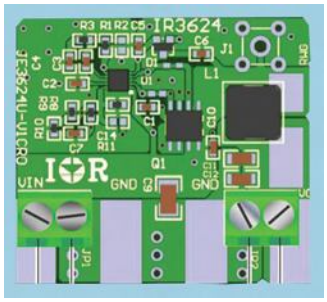
Features:
- current sharing using dual channel synchronous buck controller
- $12V_{in}$, $2.5V_{out}$ @ 60A I_{out}
- 375 kHz switching frequency per output
- featuring IR3622MPBF PWM with IRF6622 and IRF6678 DirectFET MOSFETs

495374

Mftrs. List No.	Order Code	Price Each
IRDC3622S	**143-6897**	101.67

IRDC3624 Evaluation Board

International IOR Rectifier



IR3624 evaluation board using IRF8910 SO-8 dual MOSFET and 2 x 22µF ceramic output capacitors. The IR3624 IC is a synchronous Buck controller, providing a cost-effective, high performance and flexible solution. An output over-current protection function is implemented by sensing the voltage developed across the on-resistance of the synchronous rectifier MOSFET for optimum cost and performance.

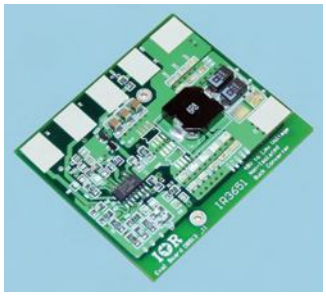
Features:
- Programmable soft start ramp
- Fixed 600kHz switching frequency requiring no external components
- Input under-voltage lockout for proper start up
- Operates with Single 5V or 12V Supply
- Programmable Over Current Protection
- Hiccup Current Limit Using MOSFET RDS(on) sensing
- Precision Reference Voltage (0.6V)
- Programmable Soft-Start
- Pre-Bias Start-up
- Thermal Protection
- Evaluation board settings V_{IN} = +12V, (13.2V Max), V_{OUT} = +1.8V @ 6A

494503

Mftrs. List No.	Order Code	Price Each
IRDC3624	**143-6884**	148.28

IRDC3651

International IOR Rectifier



Features:
- wide input synchronous buck regulator
- ideal for onboard DC to DC applications
- $48V_{in}$, $3.3V_{out}$ @ 10A I_{out}
- 100 kHz switching frequency
- featuring IR3651SPBF
- foot print compatible with either Direct-FETs or SO-8 MOSFETs

Contents:
- assembled and tested demo board
- user guide
- schematic
- bill of materials
- circuit board layout
- datasheet
- DC to DC power management CD

495272

Mftrs. List No.	Order Code	Price Each
IRDC3651	**143-6891**	101.67

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Phone: **08447 11 11 11**

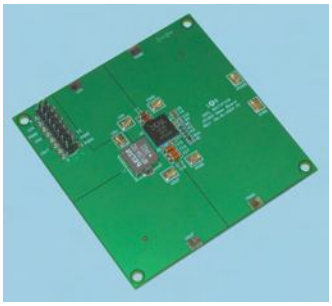
RL Re-reeling available

Farnell

Power Supply ICs - continued

IRDCIP1203-A

International IOR Rectifier



A reference design capable of delivering a continuous current of 15A (with heatsink) or 12A (without heatsink) at an ambient temperature of 45°C and airflow of 300LFM.
The components installed on the demoboard are selected based on operating at an input voltage of 12V (+/-10%) and a switching frequency of 400kHz (+/-15%). Major changes from these set points may require omtimizing yhe control loop and/or adjusting the values of the input/output filters in order to meet the user's specific application requirement.

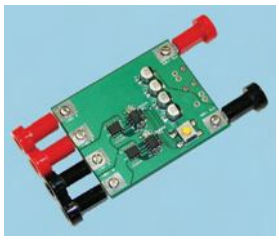
Features
- 5.5V to 13.2V Input Voltage
- 0.8V to 8V Output Voltage
- 15A Maximum Load Capability
- 200-400kHz Nominal Switching Frequency
- Over Current Hiccup
- External Synchronization Capable
- Overvoltage Protection
- Over Temperature Protection
- Internal Features Minimize Layout Sensitivity
- Very Small Outline 9mm x 9mm x 2.3mm
- Reference design setup I_{OUT} up to 15A, V_{IN} = 5,5V to 13.2V, V_{OUT} = 1.0V - 3.3V, fS = 400kHz

495483

Mftrs. List No.	Order Code	Price Each
IRDCIP1203-A	143-6883●	127.09

IR IRDC5001-LS48V

International IOR Rectifier



200W, -48V dual input active OR-ing design kit featuring IR5001S and IR7495 which can be used to implement Reverse Polarity protection for -48V input DCDC converters.
Another unique feature of the IR5001 is that it allows system designers to assess the power redundancy status on their system boards - whether the ORing FETs are good or not. Applying a logic high at the FET Check" pin will toggle the output of the IR5001 driver OFF. The desired outcome is that thevoltage across the FET, V_{ds}, will rise above 0.3V. When FET check" is initiated for the MOSFET initially being on, a comparator inside IR5001 compares the V_{ds} voltage to a reference voltage of 0.3V. If the Vds voltage is over 0.3V, the comparator sends a logic-low signal at the FET Short" pin, indicating that the FET is working properly.

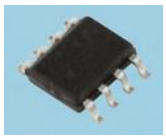
495493

Mftrs. List No.	Order Code	Price Each
IRDC5001-LS48V	143-6881●	148.28

SiP 280x Low Power Consumption Current Mode Controllers

VISHAY





The SiP280x family is a range of high-speed, low power consumption, BiCMOS Current Mode Controllers. Each IC contains all of the control and drive functions required for off-line and dc-to-dc current mode switching power supplies. The range is designed to allow full designs using the minimum number of external parts.

Features:
- Pin-for-Pin compatible with UCC280x Controllers
- 100µA Typical Start-Up Current
- 500µA Typical Operating Current
- Internal Soft Start at Power-On and After Fault

Applications:
- DC/DC Converter Modules
- Offline (AC/DC) Power Supplies
- Universal Input Power Supplies
- Buck-Boost Converters

386198

	Pins/Package	Reference Voltage	Turn-On Threshold	Turn-Off Threshold	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
2800	8/TSSOP	5	7.2	6.9	SIP2800DQ-T1-E3	SMD 878-7530●	1.34	1.15	0.91
2801	8/SOIC	5	9.4	7.4	SIP2801DY-T1-E3	SMD 878-7565●	1.41	1.21	0.96

PSU Switchers

ON Semiconductor

New eries integrates a fixed-frequency current-mode controller and a 700 V voltage MOSFET. The NCP101X offers everything needed to build a rugged and low-cost power supply high voltage switcher for Medium Power Offline Switch Mode Power Supplies. Peak current is fixed at 800mA operating at 65kHz & 100 kHz.
- NCP1271 is a Soft Skip Mode Standby PWM Controller with Adjustable Skip Level and External Latch. Typical source and sink drive current are 500mA & 800mA respectively.
- The NCP3063 is a 40V input DC/DC converter voltage regulator, suitable for high power LED lighting & battery chargers.
- The NCP3163 is an adjustable 50 kHz to 300 kHz switching regulator.

500022

Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
7	PDIP Gull Wing	65KHz Current Mode Controller with 700V MOSFET	NCP1011APL065R2G	154-7095●	0.71	0.58	0.53
7	PDIP Gull Wing	130KHz Current Mode Controller with 700V MOSFET	NCP1011APL130R2G	154-7096●	0.71	0.58	0.53
7	PDIP Gull Wing	65KHz Current Mode Controller with 700V MOSFET	NCP1012APL065R2G	154-7097●	0.79	0.66	0.58
7	PDIP Gull Wing	100KHz Current Mode Controller with 700V MOSFET	NCP1012APL100R2G	154-7098●	0.79	0.66	0.58
7	PDIP Gull Wing	130KHz Current Mode Controller with 700V MOSFET	NCP1012APL130R2G	154-7099●	0.79	0.66	0.58
7	PDIP	65KHz Current Mode Controller with 700V MOSFET	NCP1014AP065G	154-7101●	0.76	0.63	0.56
7	PDIP	100KHz Current Mode Controller with 700V MOSFET	NCP1014AP100G	154-7102●	0.76	0.63	0.56
7	PDIP Gull Wing	100KHz Current Mode Controller with 700V MOSFET	NCP1014APL100R2G	154-7103●	0.79	0.66	0.58
7	PDIP	65KHz Current Mode Controller with 700V MOSFET	NCP1027P065G	154-7104●	1.79	1.49	1.31
7	PDIP	65KHz Current Mode Controller with 700V MOSFET	NCP1028P065G	154-7105●	1.79	1.49	1.31
7	PDIP	100KHz Current Mode Controller with 700V MOSFET	NCP1028P100G	154-7106●	1.79	1.49	1.31
7	SOIC	100KHz PWM Controller	NCP1271D100R2G	SMD 154-7107●	1.35	1.12	0.99
7	SOIC	65KHz PWM Controller	NCP1271D65R2G	SMD 154-7108●	1.35	1.12	0.99
8	SOIC	1.5A 150 kHz Step Up/Down/Inverting SwitchingRegulator	NCP3063BDR2G	SMD 154-7126●	0.59	0.49	0.45
16	WSOIC	3.4A 50-300KHz Step Up/Down/Inverting Switching Regulator	NCP3163BPWG	SMD 154-7127●	2.29	1.89	1.69
16	WSOIC	3.4A 50-300KHz Step Up/Down/Inverting Switching Regulator	NCP3163PWG	SMD 154-7128●	2.23	1.85	1.63

TOPSwitch-II Off-line PWM Switches

POWER INTEGRATIONS, INC.

3-Terminal integrated off-line PWM switches with high voltage power MOSFET, high voltage start-up bias circuit, bandgap reference, bias shunt regulator/error amplifier for loop compensation and fault protection circuit.

228406

Mftrs. List No.	Single Voltage I/P 100/115/230 V_{AC} ±15% Pmax(W)	Wide range I/P 85 to 265 V_{AC} Pmax(W)	Pin Package	Order Code	Price Each 1+	10+	100+
TOP221PN	9	6	8/DIP	992-1117●	1.77	1.54	1.19
TOP221YN	12	7	3/TO-220	992-1125●	3.25	2.79	2.19
TOP222PN	15	10	8/DIP	992-1133●	3.25	2.80	2.19
TOP222YN	25	15	3/TO-220	992-1141●	2.07	1.77	1.44
TOP223PN	25	15	8/DIP	992-1150●	3.71	3.19	2.59
TOP223YN	50	30	3/TO-220	992-1168●	3.37	2.90	2.18
TOP224PN	30	20	8/DIP	992-1176●	4.24	3.64	2.74
TOP224YN	75	45	3/TO-220	992-1184●	2.63	1.93	1.54
TOP225YN	100	60	3/TO-220	992-1192●	5.16	4.43	3.39
TOP226YN	125	75	3/TO-220	992-1206●	5.56	4.82	3.83
TOP227YN	150	90	3/TO-220	992-1214●	6.07	5.24	4.20

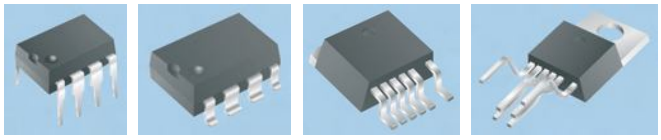
TOPSwitch-FX Integrated Off-line Switcher

TOPSwitch-FX family uses the TOPSwitch topology but extends on the power range while integrating many new functions designed to reduce system cost, improve design flexibility, performance and energy efficiency.
Like the TOPSwitch, the high voltage power MOSFET, PWM control, fault protection and other control circuitry are all integrated onto a single CMOS chip, but with two added terminals namely; the Multifunction and Frequency pins.

333623

Pins/ Package	Output Power (Open Frame) 230V a.c. ±15%	Output Power (Open Frame) 85-265V a.c.	Drain Voltage	Drain Peak Current (max @ 25°C)	$RDS_{(ON)}$ (@ 25°C)	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
7/TO-220	25W	15W	-0.3 to 700V	0.8A	15.6Ω @ ID=50mA	TOP232Y	440-8998▲	2.12	1.78	1.52
7/TO-220	50W	30W	-0.3 to 700V	1.6A	7.8Ω @ ID=50mA	TOP233YN	SMD 992-1419●	2.71	2.18	1.87
7/TO-220	30W	20W	-0.3 to 700V	2.4A	5.2Ω @ ID=50mA	TOP234YN	992-1427●	2.24	1.63	1.21
8/DIP	15W	10W	-0.3 to 700V	0.72A	15.6Ω @ ID=50mA	TOP242PN	992-1222●	1.60	1.18	0.85

TOPSwitch-GX Integrated Off-line Switcher



TOPSwitch-GX family uses the TOPSwitch-II topology but extends on the power range while integrating many new functions designed to reduce system cost, improve design flexibility, performance and energy efficiency.

The devices feature: soft-start, 132kHz switching frequency, frequency jittering for lower EMI, wider DCmax hysteretic thermal shutdown and larger creepage packages.

229987

Pins/ Package	Output Power (Open Frame) 230V a.c. ±15%	Output Power (Open Frame) 85-265V a.c.	Drain Voltage	Drain Peak Current (max @ 25°C)	$RDS_{(ON)}$ @ 25°C	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
8/DIP	15W	10W	-0.3 to 700V	0.72A	15.6Ω @ ID=50mA	TOP242PN	992-1222●	1.60	1.18	0.85
6/TO-220	22W	14W	-0.3 to 700V	0.72A	15.6Ω @ ID=50mA	TOP242YN	992-1230●	1.70	1.31	1.10
8/SOIC	15W	10W	-0.3 to 700V	0.72A	15.6Ω @ ID=50mA	TOP242G	SMD 440-9048▲	1.20	0.92	0.78
6/TO-220	45W	30W	-0.3 to 700V	1.44A	7.8Ω @ ID=100mA	TOP243YN	992-1249●	3.42	2.64	2.21
8/DIP	30W	20W	-0.3 to 700V	2.16A	5.2Ω @ ID=150mA	TOP244PN	992-1257●	1.90	1.38	1.03
6/TO-220	65W	45W	-0.3 to 700V	2.16A	5.2Ω @ ID=150mA	TOP244YN	992-1265●	2.21	1.69	1.41
8/DIP	30W	22W	-0.3 to 700V	2.88A	3.90Ω @ ID=50mA	TOP245PN	SMD 992-1451●	3.23	2.58	2.22
6/TO-220	85W	60W	-0.3 to 700V	2.88A	3.9Ω @ ID=200mA	TOP245YN	992-1273●	2.31	1.69	1.26
8/DIP	34W	26W	-0.3 to 700V	4.32A	2.60Ω @ ID=300mA	TOP246P	757-0350▲	1.88	1.45	1.23
6/TO-220	125W	90W	-0.3 to 700V	4.32A	2.6Ω @ ID=300mA	TOP246YN	992-1281●	2.49	1.83	1.36
8/DIP	34W	26W	-0.3 to 700V	4.32A	2.6Ω @ ID=300mA	TOP246PN	144-8238●	2.36	1.88	1.45
6/TO-220	165W	125W	-0.3 to 700V	5.76A	1.95Ω @ ID=400mA	TOP247YN	992-1290●	2.70	1.99	1.47
6/TO-220	205W	155W	-0.3 to 700V	7.2A	1.56Ω @ ID=500mA	TOP248YN	992-1303●	2.89	2.13	1.58
6/TO-220	250W	180W	-0.3 to 700V	8.64A	1.3Ω @ ID=600mA	TOP249YN	992-1311●	5.60	4.26	3.63
6/TO-220	290W	210W	-0.3 to 700V	10.08A	1.10Ω @ ID=50mA	TOP250YN	992-1443●	3.51	2.57	1.91
8/DIP	9W	6W	-0.3 to 700V	0.4A	28Ω @ ID=25mA	TNY264PN	992-1320●	1.23	0.94	0.79
8/SOIC	9W	6W	-0.3 to 700V	0.4A	28Ω @ ID=25mA	TNY264GN	SMD 992-1338●	1.37	1.04	0.89
8/DIP	15W	9.5W	-0.3 to 700V	0.56A	14Ω @ ID=35mA	TNY266PN	992-1346●	0.98	0.72	0.51
8/SOIC	15W	9.5W	-0.3 to 700V	0.56A	14Ω @ ID=35mA	TNY266GN	SMD 992-1354●	1.07	0.82	0.70
8/DIP	19W	12W	-0.3 to 700V	0.72A	7.8Ω @ ID=45mA	TNY267PN	992-1362●	1.12	0.82	0.59
8/SOIC	19W	12W	-0.3 to 700V	0.72A	7.8Ω @ ID=45mA	TNY267GN	SMD 992-1370●	1.31	1.03	0.86
8/DIP	23W	15W	-0.3 to 700V	0.88A	5.2Ω @ ID=55mA	TNY268PN	992-1389●	1.23	0.90	0.64
8/SOIC	23W	15W	-0.3 to 700V	0.88A	5.2Ω @ ID=55mA	TNY268GN	SMD 992-1397●	1.81	1.41	1.17

TOP254-258 Series - Off Line Switchers

Enhanced EcoSmart®, Integrated Off-Line Switcher with Advanced Feature Set and Extended Power Range

TOPSwitch-HX cost effectively incorporates a 700 V power MOSFET, high voltage switched current source, PWM control, oscillator, thermal shutdown circuit, fault protection and other control circuitry onto a monolithic device.

496098

Pins	Pkg	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
2548	DIP	TOP254PN	150-0860●	1.04	0.82	0.62
2548	SMD-8C	TOP254GN	SMD 150-0861●	1.09	0.86	0.64
25410	SDIP-10C	TOP254MN	150-0862●	1.06	0.85	0.64
2547	TO-220-7C	TOP254YN	150-0863●	1.63	1.31	1.02
2558	DIP	TOP255PN	150-0864●	1.13	0.89	0.67
2558	SMD-8C	TOP255GN	SMD 150-0865●	1.18	0.94	0.70
25510	SDIP-10C	TOP255MN	150-0866●	1.15	0.93	0.69
2557	TO-220-7C	TOP255YN	150-0868●	1.44	1.14	0.95
2568	DIP	TOP256PN	150-0869●	1.30	1.04	0.78
2568	SMD-8C	TOP256GN	SMD 150-0870●	1.35	1.07	0.80
25610	SDIP-10C	TOP256MN	150-0871●	1.34	1.06	0.80
2567	TO-220-7C	TOP256YN	150-0872●	1.60	1.28	0.99
2578	PDIP-8C	TOP257PN	150-0873●	1.34	1.06	0.82
2578	SMD-8C	TOP257GN	SMD 150-0874●	1.38	1.10	0.85
25710	SDIP-10C	TOP257MN	150-0875●	1.36	1.09	0.85
2577	TO-220-7C	TOP257YN	150-0876●	1.76	1.41	1.17
2588	DIP	TOP258PN	150-0877●	1.50	1.19	0.93
2588	SMD-8C	TOP258GN	SMD 150-0878●	1.54	1.22	0.95
25810	SDIP-10C	TOP258MN	150-0881●	1.52	1.21	0.94
2587	TO-220-7C	TOP258YN	150-0882●	1.92	1.53	1.27

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TYN27/28 Series - Off Line Switchers

With Enhanced Flexibility and Extended Power Range

TYN27/28 Series incorporates a 700 V power MOSFET, oscillator, high voltage switched current source, current limit (user selectable) and thermal shutdown circuitry. The IC family uses an ON/OFF control scheme and offers a design flexible solution with a low system cost and extended power capability.

451800

Pins	Pkg	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
274 8	DIP	TNY274PN	128-9526●	1.20	0.85	0.65
275 8	SMD	TNY275GN	SMD 128-9529●	1.60	1.20	0.96
276 8	DIP	TNY276PN	128-9530●	1.12	0.76	0.56
277 8	SMD	TNY277GN	SMD 128-9533●	1.36	1.02	0.67
277 8	DIP	TNY277PN	128-9532●	1.23	0.84	0.61
278 8	SMD	TNY278GN	SMD 128-9535●	2.11	1.59	1.28
278 8	DIP	TNY278PN	128-9534●	1.40	0.96	0.70
279 8	SMD	TNY279GN	SMD 128-9538●	1.93	1.45	1.17
279 8	DIP	TNY279PN	128-9537●	1.61	1.09	0.80
280 8	SMD	TNY280GN	SMD 128-9540●	2.75	2.07	1.66
280 8	DIP	TNY280PN	128-9539●	1.85	1.26	0.92

TNY375-380 Series - Off Line Switchers

Energy Efficient with Enhanced Peak Power Performance

The TinySwitch-PK incorporates a 700 V MOSFET, oscillator, high voltage switched current source, current limit (user selectable), and thermal shutdown circuitry. A unique peak mode feature boosts current limit and frequency for peak load conditions. The boosted current limit provides the peak output power while the increased peak mode frequency ensures the transformer can be sized for continuous load conditions rather than peak power demands.

495245

	Pins	Pkg	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
375	8	DIP	TNY375PN	150-0890●	0.71	0.56	0.42
376	8	DIP	TNY376PN	150-0891●	0.69	0.54	0.42
377	8	DIP	TNY377PN	150-0893●	0.74	0.59	0.46
378	8	DIP	TNY378PN	150-0894●	0.94	0.84	0.74
379	8	DIP	TNY379PN	150-0895●	1.07	0.86	0.66
380	8	DIP	TNY380PN	150-0896●	1.23	0.99	0.77

RL Re-reeling available

Power Supply ICs - continued

PKS60 Series - Off Line Switchers

With Super Peak Power Performance

Off Line Switchers are designed to address applications with high peak to-continuous power ratio demands. The very high switching frequency during peak power loads and excellent load transient response reduce system cost as well as component count and size

451799

	Pins	Pkg	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
603	8	DIP	PKS603PN	128-9541●	1.24	0.85	0.62
604	7	TO-262	PKS604FN	128-9544●	1.78	1.21	0.89
604	8	DIP	PKS604PN	128-9542●	1.57	1.18	0.94
604	7	TO-220	PKS604YN	128-9543●	1.95	1.46	1.18
605	8	DIP	PKS605PN	128-9546●	1.70	1.28	1.03
605	7	TO-220	PKS605YN	128-9547●	2.07	1.55	1.25
606	7	TO-262	PKS606FN	128-9553●	2.34	1.76	1.41
606	8	DIP	PKS606PN	128-9551●	1.85	1.26	0.92
606	7	TO-220	PKS606YN	128-9552●	2.34	1.76	1.41
607	7	TO-220	PKS607YN	144-8236●	1.50	1.19	0.93

LinkSwitch™ Adapter and Charger Switcher

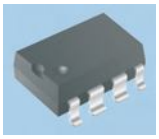



LinkSwitch™ is designed to replace low power linear transformer/RCC chargers and adapters with a higher performance and energy efficiency. LinkSwitch integrates a 700V power MOSFET, PWM control, high voltage start-up, current limit and thermal shutdown circuitry in a monolithic IC. LNK500 is a lower cost version of the LNK501 with a wider tolerance and constant current(CC) characteristic.

333635

Pins/ Package	Output Power (Open Frame) 230V a.c. ±15%	Output Power (Open Frame) 85-265V a.c.	Drain Voltage	Drain Peak Current	$RDS_{(ON)}$ (@ 25°C)	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
8/SMD-8	—	—	—	—	—	LNK302GN	SMD 113-4738●	0.54	0.40	0.34
8/SOIC	—	—	-0.3 to 700V	375mA	48Ω @ ID=13mA	LNK302DN	SMD 144-8219●	0.70	0.58	0.47
8/DIP	—	—	-0.3 to 700V	750mA	24Ω @ ID=25mA	LNK304PN	144-8220●	0.82	0.69	0.55
8/SMD	—	—	-0.3 to 700V	750mA	24Ω @ ID=25mA	LNK304GN	SMD 144-8221●	0.77	0.63	0.50
8/SOIC	—	—	-0.3 to 700V	750mA	24Ω @ ID=25mA	LNK304DN	SMD 144-8222●	0.79	0.64	0.51
8/DIP	—	—	-0.3 to 700V	1500mA	12Ω @ ID=35mA	LNK305PN	144-8223●	1.00	0.81	0.65
8/SMD	—	—	-0.3 to 700V	1500mA	12Ω @ ID=35mA	LNK305GN	SMD 144-8224●	0.89	0.73	0.58
8/SOIC	—	—	-0.3 to 700V	1500mA	12Ω @ ID=35mA	LNK305DN	SMD 144-8226●	0.91	0.74	0.59
8/DIP	—	—	-0.3 to 700V	2600mA	7Ω @ ID=45mA	LNK306PN	144-8227●	0.97	0.77	0.58
8/SMD	—	—	-0.3 to 700V	2600mA	7Ω @ ID=45mA	LNK306GN	SMD 144-8228●	0.87	0.69	0.51
8/SOIC	—	—	-0.3 to 700V	2600mA	7Ω @ ID=45mA	LNK306DN	SMD 144-8229●	0.89	0.70	0.53
8/DIP	2.8W	2.6W	—	—	—	LNK362PN	113-4727●	0.72	0.54	0.47
8/SMD	2.8W	2.6W	—	—	—	LNK362GN	SMD 113-4728●	0.66	0.50	0.42
8/SOIC	2.8W	2.6W	-0.3 to 700V	375mA	48Ω @ ID=14mA	LNK362DN	SMD 144-8230●	0.74	0.62	0.49
8/SOIC	7.5W	4.7W	-0.3 to 700V	750mA	29Ω @ ID=21mA	LNK363DN	SMD 144-8231●	0.80	0.66	0.53
8/DIP	7.5W	4.7W	—	—	—	LNK363PN	113-4729●	0.80	0.61	0.51
8/SMD	7.5W	4.7W	—	—	—	LNK363GN	SMD 113-4730●	0.71	0.54	0.46
8/SOIC	9W	6W	-0.3 to 700V	750mA	24Ω @ ID=25mA	LNK364DN	SMD 144-8232●	0.85	0.69	0.55
8/DIP	9W	6W	—	—	—	LNK364PN	113-4731●	0.84	0.63	0.54
8/SMD	9W	6W	—	—	—	LNK364GN	SMD 113-4732●	0.73	0.56	0.47
8/DIP	5.5W	3.5W	-0.3 to 700V	400mA	28Ω @ ID=25mA	LNK500PN	992-1400●	0.70	0.53	0.46
8/DIP	5.5W	3.5W	-0.3 to 700V	400mA	28Ω @ ID=25mA	LNK520P	757-0368	0.40	0.31	0.28
8/DIP	1.9W	1.9W	—	—	—	LNK562PN	113-4720●	0.44	0.33	0.29
8/SMD	1.9W	1.9W	—	—	—	LNK562GN	SMD 113-4721●	0.55	0.41	0.35
8/SOIC	1.9W	1.9W	700V	375mA	48Ω @ ID=13mA	LNK562DN	SMD 144-8233●	0.69	0.57	0.46
8/SOIC	2.5W	2.5W	700V	375mA	48Ω @ ID=13mA	LNK563DN	SMD 144-8234●	0.70	0.58	0.47
8/DIP	2.5W	2.5W	—	—	—	LNK563PN	113-4722●	0.61	0.45	0.39
8/SMD	2.5W	2.5W	—	—	—	LNK563GN	SMD 113-4724●	0.56	0.42	0.38
8/DIP	3W	3W	—	—	—	LNK564PN	113-4725●	0.73	0.54	0.47
8/SOIC	3W	3W	700V	375mA	48Ω @ ID=13mA	LNK564DN	SMD 144-8235●	0.72	0.59	0.48

DPA-Switch™ Integrated DC -DC Converter Switcher


DPA-Switch™ family uses the same topology as TOPSwitch, cost effectively integrating the high voltage power MOSFET, PWM control, fault protection and other control circuitry in a single CMOS chip.
With three user configurable pins, the device can be configured to allow line sensing, accurate externally set current limit, remote ON/OFF, synchronisation to an external lower frequency and frequency selection (300/400 KHz)

333631

Pins/ Package	Output Power (36 - 75 VDC INPUT RANGE)	Drain Voltage	Drain Peak Current (max @ 25°C)	$RDS_{(ON)}$ (@ 25°C)	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
6/TO-263-7C	16W	-0.3 to 220V	1.75A	1.30Ω @ ID=300mA	DPA423R-TL	440-9176▲	4.07	3.14	2.71
8/SOIC	12W	-0.3 to 220V	1.75A	1.30Ω @ ID=300mA	DPA423G	SMD 757-0457	1.25	0.95	0.83
8/DIP	23W	-0.3 to 220V	7A	0.33Ω @ ID=1.25A	DPA425P	757-0481	2.11	1.61	1.38
8/DIP	10W	-0.3 to 220V	1.31A	2.6Ω @ ID=150mA	DPA422PN	144-8210●	1.67	1.34	0.99
8/SOIC	10W	-0.3 to 220V	1.31A	2.6Ω @ ID=150mA	DPA422GN	SMD 144-8211●	1.44	1.14	0.86
8/DIP	16W	-0.3 to 220V	1.75A	1.3Ω @ ID=300mA	DPA423PN	144-8212●	1.70	1.35	1.01
8/SOIC	16W	-0.3 to 220V	1.75A	1.3Ω @ ID=300mA	DPA423GN	SMD 144-8214●	1.49	1.18	0.89
8/DIP	23W	-0.3 to 220V	3.5A	0.65Ω @ ID=600mA	DPA424PN	144-8215●	1.60	1.44	1.28
8/SOIC	23W	-0.3 to 220V	3.5A	0.65Ω @ ID=600mA	DPA424GN	SMD 144-8216●	1.65	1.31	1.02
8/DIP	32W	-0.3 to 220V	7A	0.33Ω @ ID=1.25A	DPA425PN	144-8217●	2.63	2.09	1.63
8/SOIC	32W	-0.3 to 220V	7A	0.33Ω @ ID=1.25A	DPA425GN	SMD 144-8218●	2.27	1.82	1.41

Power Integrations Device Circuit Reference Guides

● RDK-83
This is a reference design for a switched-mode power supply that was designed to replace line frequency transformer based solutions. The supply uses a member of the LinkSwitch-LP family of devices, and is capable of withstanding common-mode line surges of up to 10 kV. That is often a requirement for applications that connect to a telephone line.

● RDK-91
This report describes a universal input, 12 V @ 1 A flyback power supply using a TNY278PN device from the TinySwitch-III family of ICs. It contains the complete specification of the power supply, a detailed circuit diagram, the entire bill of materials required to build the supply, extensive documentation of the power transformer, along with test data and oscillographs of the most important electrical waveforms. The board provides a number of user configurable options which are designed to demonstrate the features and flexibility of the TinySwitch-III family. These include easy adjustment of the device current limit for increased output power or higher efficiency operation, and a latched output overvoltage shutdown.

● RDK-93
This document is an engineering report describing a 90-265 VAC input, 30V, 1.07A continuous, 2.7A peak output power supply utilizing a PKS606Y. This power supply is intended as a general-purpose evaluation platform for PeakSwitch, and is ideal for applications where a significant pulsed output load is required, such as printers, audio amplifiers, DVRs and DC motor drives.

● RDK-115
This document is an engineering report describing a four output flyback power supply utilizing a TNY376PN. This power supply is intended as a general purpose evaluation platform for TinySwitch-PK.

● RDK-128
This document is an engineering report describing a motor drive power supply capable of delivering up to 36 W of continuous power and up to 72 W of peak power, utilizing a PKS606YN device. This power supply is intended as a demonstration platform for the PeakSwitch family of devices and their application in motor drives. The PeakSwitch family of devices is ideally suited to this role due to their ability to provide very high peak power for short periods of time, as is often encountered in motor drive applications.

RL Re-reeling available

● RDK-131
This design kit is intended for energy-efficient LED alternatives to replace incandescent lights. The kit helps designers produce a power circuit that fits inside the LED lightbulb socket, and also ensure that their incandescent-replacement LED lightbulbs will pass EMC requirements for conducted and radiated electrical noise.
● RDK-142
This document is an engineering report describing a LCD Monitor power supply utilizing a TOP258PN. This power supply is intended as a general purpose evaluation platform for TOPSwitch-HX.

496344

Mftrs. List No.	Description	Order Code	Price Each 1+
RDK-83	Design Report 7.7 V @ 210 mA PSU	150-0885●	62.85
RDK-91	PSU Design Report 12V @ 1A using a TNY278PN 2.7A Peak Switch Design O/P 30V @ 1.07A	150-0883●	66.75
RDK-93	Cont. PSU	150-0884●	66.25
RDK-115	Design for 4 Flyback PSU using a TNY376PN	150-0887●	62.85
RDK-128	PSU Design for Motor Drive 36W Cont. 72W Peak Power	150-0888●	62.85
RDK-131	Design using Linkswitch-TN for a LED PSU	150-0886●	69.52
RDK-142	PSU Design for a LCD Monitor using TOP258PN	150-0889●	62.85

Design Accelerator Kits (DAK)



Design Accelerator Kits (DAK) provide the essential materials to get started on your next power supply design.
All kits include product samples, a fully assembled, tested and functional reference board. Complete documentation including a comprehensive engineering report and data sheet.

DAK-7.
Developed specially for Home Appliance applications and will help the designer to evaluate the **TinySwitch**™ family of integrated switchers.

DAK-16A.
2.75W, 5.5V Linear transformer replacement charger. Provides the essential materials to get started on power supply design using the LNK500 and LNK501 devices.

DAK-21.
30W, 5V DC-DC converter. Essential for the design and prototyping of the **DPA-Switch** family. The working engineering sample effectively demonstrates the simplicity of the DPA chips and the advantage of drastically reduced external component count.

DAK-71.
6.6W DC-DC Converter using **DPA-Switch.**™ This kit is intended to assist evaluation of **DPA-Switch** devices in the 8-pin DIP, low cost surface-mount package. It is an ideal choice for standby supplies or other low power applications operating from telecom input voltages.

345744

Mftrs. List No.	Order Code	Price Each
DAK-7	440-8895	18.78
DAK-16A	440-8925	12.95
DAK-21	440-8937	38.25
DAK-71	757-0570	26.41
DAK-85	113-4742	17.31

Switch Mode Power Supplies

422893

	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
0765	5	TO-220	Integrated PWM & Sense FET for Quasi-Resonant Offline SMPS	FSCQ0765RTYDTU	110-2153●	0.83	0.68	0.58
565	6	TO-220F	SMPS Power Switch, Built-in Soft Start Improved (Green)	FSDM0565REWDTU	149-5500●	0.94	0.68	0.61
170	8	DIP	SMPS Green Power Switch, 1A, 700V	FSQ0170RNA	149-5502●	0.68	0.50	0.46
211	8	DIP	SMPS Power Switch for Charger, 0.4A, 650V	FSQ211	149-5505●	0.50	0.35	0.32
270	8	DIP	SMPS Green Power Switch, 2A, 700V	FSQ0270RNA	149-5503●	0.78	0.57	0.52
370	8	DIP	SMPS Green Power Switch, 3A, 700V	FSQ0370RNA	149-5504●	0.96	0.71	0.65
0565	6	I2-PAK	Integrated PWM & Sense FET for High Performance Offline SMPS	FSDM0565RBIWDTU	110-2154●	1.14	0.88	0.74
7	5	TO-3P	Integrated PWM & Sense FET for High Performance Offline SMPS	FS7M0680TU	122-8245●	2.43	2.02	1.61
7	5	TO-3P (Forming)	Integrated PWM & Sense FET for High Performance Offline SMPS	FS7M0680YDTU	122-8246●	2.43	2.02	1.61

DC/DC Step Down Modules

422880

	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
4600	104	LGA	20V High Efficiency, Step-Down DC/DC µModule	LTM4600EV#PBF	SMD 109-9581●	25.10	15.85	13.50
4600	104	LGA	20V High Efficiency, Step-Down DC/DC µModule	LTM4600IV#PBF	SMD 109-9580●	27.61	17.50	15.22
4600	104	LGA	28V High Efficiency, Step-Down DC/DC µModule	LTM4600HVEV#PBF	SMD 109-9582●	30.70	19.40	15.93
4600	104	LGA	28V High Efficiency, Step-Down DC/DC µModule	LTM4600HVIV#PBF	SMD 109-9583●	39.74	24.18	19.05

Cirrus Power Converters & Controllers

418950

	Pins	Pkg	Features	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
5461	24	SSOP	Single Phase, Bi-directional Power/Energy IC	CS5461A-ISZ	SMD 102-3419●	3.87	2.95	2.18
5466	24	SSOP	Low-cost Power/Energy IC With Pulse Output	CS5466-ISZ	SMD 102-3420●	3.19	2.18	1.62
8420	28	SOIC	Digital Audio Sample Rate Converter	CS8420-CSZ	SMD 102-3453●	14.08	10.80	9.84
8421	20	TSSOP	32-Bit, 192 kHz Asynchronous Sample Rate Converter Level Translators	CS8421-CZZ	SMD 102-3454●	6.39	4.90	4.16

RL Re-reeling available

Farnell

Power Supply ICs - continued

THS61020 Evaluation Module

This Evaluation Tool is for the TPS61020 inductive step-up converter. It can supply voltages up to 5.5V from a 0.9V to 6.5V input featuring an LDO down-mode regualting the output voltage even if the input voltage exceeds the output voltage level. The TPS61020EVM-025 uses a TPS61020 adjustable output step-up converter and external components to provide a 3.3V output voltage. The feedback components can be replaced to generate other voltages. This EVM can also be used to evaluate other options in the TPS6102x family.

418919

	Order Code	Price Each
TPS61020 Evaluation Module	**996-9179**	41.82

TPS40200EVM-001 Evaluation Module

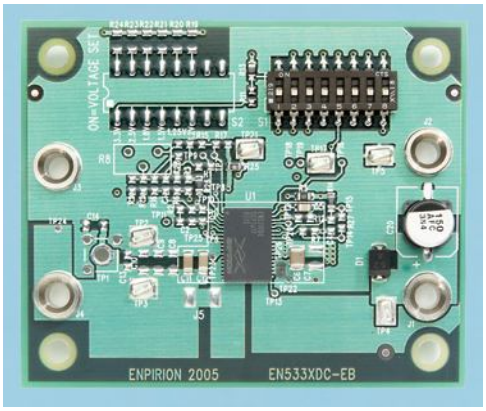
TPS40200EVM-001 is designed to operate with an 8V to 16V input and to produce a regulated 3.3V output with a load current from 0.125A to 2.5A. The TPS40200EVM-001 demonstrates the use of the TPS40200 in a typical buck converter application. The board sacrifices some packing density to provide ample test points for module evaluation. This EVM can be modified to support output voltages from 0.7V to 5V by changing a single feedback resistor.

Features:
- 8 V to 16 V input range
- 3.3 V output, adjustable with single feedback resistor
- 0.125 A to 2.5 A steady-state output current
- 300 kHz switching frequency
- Single P-channel MOSFET and single rectifier
- Two-layer, 1.4 inch x 2.12 inch, surface-mount design with all components on one side
- Convenient test points for probing critical waveforms and noninvasive loop response testing

492414

	Order Code	Price Each
TPS40200EVM-001 Regulator Evaluation Module, TPS40200-001	**122-0982**	48.28

Synchronous Buck Converters



EN5310DC-E

A range of 1A, 3A and 6A Voltage Mode Synchronous Buck PWM DC-DC Converters and Evaluation Boards. These products are designed to meet the precise voltage and fast-transient requirements of high-performance, low-power processor, DSP, FPGA, memory boards and system level applications.

Features:
- Hltra-High Switching Frequency
- Programmable soft-start time
- Programmable over-current protection
- Thermal shutdown, short circuit, over-voltage and under-voltage protection
- 5MHz Operating Frequency
- More than 90% efficient
- Input volatge range: 2.375V to 5.5V
- Adjustable Output voltage range: 0.8V to 3.3V

418333

Pins	Package	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
36	DFN	1A Voltage Mode Synchronous Buck PWM DC-DC Converter	EN5310DC	SMD **108-1908**	7.52	5.48	4.37
36	DFN	3A Voltage Mode Synchronous Buck PWM DC-DC Converter	EN5330DC	SMD **108-1909**	8.37	6.28	5.02
48	DFN	6A Voltage Mode Synchronous Buck PWM DC-DC Converter	EN5360DC	SMD **108-1910**	14.26	10.69	8.55

Simple Switcher Voltage Regulators

LM2594/LM2597 families :- The complete DC to DC converter circuit size is reduced by approximately 50% compared to the original LM257X Series.
LM2597 family also offers :- shutdown, soft-start and error flag. (BUCK=Step-Down, FLYBACK/BOOST=Step-Up)
LM22670/LM22679 are fixed and adjustable voltage regulators with current output from 0.5A to 5A.
LM3150/LM3153 are regulatorswith output current from 12A to 15A.

414421

	Pins	Pkg	Input Voltage (V)	Output Voltage (V)	Output Current (A)	Application	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
2574	8	DIP	4 to 60	1.23 to 57	0.5	BUCK	LM2574HVN-ADJ	**948-9932**	5.08	3.44	2.82
2574	8	DIP	4 to 60	5	0.5	BUCK	LM2574HVN-5.0	**948-9916**	4.13	2.45	1.96
2574	14	SOIC	4 to 40	1.23 to 37	0.5	BUCK	LM2574M-ADJ	SMD **948-9924**	1.77	1.22	0.97
2574	14	SOIC	8 to 40	5	0.5	BUCK	LM2574M-5.0	SMD **948-9908**	1.81	1.34	1.05
2574	8	DIP	14 to 40	12	0.5	BUCK	LM2574N12.	**271-135**	1.52	1.23	0.88
2574	8	DIP	5 to 40	3.3	0.5	BUCK	LM2574N33.	**596-826**	1.02	0.85	0.69
2574	8	DIP	5 to 40	3.3	0.5	BUCK	LM2574N-3.3	**949-3530**	1.72	1.43	1.17
2574	8	DIP	4.5 to 40	3.3	0.5	BUCK	LM2574N-ADJ	**948-5996**	1.74	1.43	1.31
2575	5	TO-220	4 to 60	1.23 to 57	1	BUCK	LM2575HVT-ADJ	**948-9843**	4.56	3.74	3.43
2575	5	TO-220	4 to 60	12	1	BUCK	LM2575HVT-12	**948-9894**	4.56	3.74	3.43
2575	5	TO-220	4 to 60	15	1	BUCK	LM2575HVT-15	**948-9886**	4.43	2.63	2.10
2575	5	TO-220	4 to 60	5	1	BUCK	LM2575HVT-5.0	**948-9851**	4.56	3.74	3.43
2575	24	SOIC	7 to 40	5	1	BUCK	LM2575M-5.0	SMD **949-3441**	1.75	1.31	1.07
2575	24	SOIC	4.5 to 40	1.23 to 37	0.5	BUCK	LM2575M-ADJ	SMD **949-3450**	2.34	1.75	1.45
2575	16	DIP	7 to 40	5	1	BUCK	LM2575N-5.0	**948-6054**	3.21	2.42	1.99
2575	5	TO-263 (D2-Pak)	4 to 40	1.23 to 37	1	BUCK	LM2575S-ADJ	SMD **948-9878**	2.55	2.08	1.63
2575	5	TO-263 (D2-Pak)	4 to 40	3.3	1	BUCK	LM2575S-3.3	SMD **822-1944**	1.33	1.16	1.07
2575	5	TO-263 (D2-Pak)	4 to 40	5	1	BUCK	LM2575S-5.0	SMD **948-9860**	2.55	2.08	1.63
2575	5	TO-220	14 to 40	12	1	BUCK	LM2575T-12	**948-8073**	2.27	1.85	1.71
2575	5	TO-220	17 to 40	15	1	BUCK	LM2575T-15	**948-8081**	2.27	1.85	1.71
2575	5	TO-220	5 to 40	3.3	1	BUCK	LM2575T-3.3	**949-3549**	2.04	1.69	1.43
2575	5	TO-220	7 to 40	5	1	BUCK	LM2575T-5.0	**948-8090**	2.20	1.30	1.03
2575	5	TO-220	4.5 to 40	1.23 to 37	1	BUCK	LM2575T-ADJ	**948-8103**	2.27	1.85	1.71
2576	5	TO-220	14 to 40	12	3	BUCK	LM2576T-12	**948-8111**	2.81	2.30	2.11
2576	5	TO-220	17 to 40	15	3	BUCK	LM2576T-15	**948-8120**	3.35	2.27	1.86
2576	5	TO-220	6 to 40	3.3	3	BUCK	LM2576T33.	**596-840**	1.57	1.29	1.08
2576	5	TO-220	6 to 40	3.3	3	BUCK	LM2576T-3.3	**949-3557**	2.90	2.18	1.80
2576	5	TO-220	7 to 40	5	3	BUCK	LM2576T-5.0	**948-8138**	2.81	2.30	2.11
2576	5	TO-220	4.5 to 40	1.23 to 37	3	BUCK	LM2576T-ADJ	**948-8146**	2.73	1.62	1.29
2576	5	TO-263 (D2-Pak)	4.5 to 60	1.23 to 57	3	BUCK	LM2576HVS-ADJ	SMD **820-7380**	5.13	4.32	3.46
2577	5	TO-220	3.5 to 40	15	3	FLYBACK, BOOST	LM2577T15.	**408-256**	3.03	2.50	2.21
2577	5	TO-220	3.5 to 40	15	3	FLYBACK, BOOST	LM2577T-15	**948-8154**	5.82	4.76	4.37
2577	5	TO-220	3.5 to 40	5 to 60	3	FLYBACK, BOOST	LM2577-ADJ	**119-7396**	6.09	4.51	3.71
2585	5	TO-220	3.5 to 40	5	3	FLYBACK, BOOST	LM2585T50	**121-5199**	4.81	3.30	2.76
2585	5	TO-220	3.5 to 40	5 to 60	3	FLYBACK, BOOST	LM2585T-ADJ	**949-4324**	6.60	5.39	4.96

RL Re-reeling available

Farnell

	Pins	Pkg	Input Voltage (V)	Output Voltage (V)	Output Current (A)	Application	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
2587	5	TO-263 (D2-Pak)	4 to 40	5	5	FLYBACK, BOOST	LM2587S-5.0	SMD 949-3689	6.43	5.12	4.25
2587	5	TO-263 (D2-Pak)	4 to 40	3.3 to 60	5	FLYBACK, BOOST	LM2587S-ADJ	SMD 949-3697	8.44	5.01	3.99
2587	5	TO-220	4 to 40	5	5	FLYBACK, BOOST	LM2587T-5.0	949-3573	8.69	7.11	6.53
2587	5	TO-220	4 to 40	3.3 to 60	5	FLYBACK, BOOST	LM2587T-ADJ	949-3565	6.63	5.42	4.98
2588	7	TO-220	4 to 40	5	5	FLYBACK, BOOST	LM2588T-5.0	949-3778	6.52	4.80	3.96
2588	7	TO-220	4 to 40	3.3 to 60	5	FLYBACK, BOOST	LM2588T-ADJ	949-3719	9.65	6.93	5.64
2592	5	TO-263 (D2-Pak)	4.5 to 60	1.2 to 57	2	FLYBACK, BOOST	LM2592HVS-ADJ	SMD 410-2459	5.36	4.38	3.74
2594	8	SOIC	4.75 to 40	3.3	0.5	BUCK	LM2594M-3.3	SMD 121-5200	2.61	1.54	1.23
2594	8	SOIC	7 to 40	5	0.5	BUCK	LM2594M-5.0	SMD 977-9841	2.67	1.98	1.62
2594	8	SOIC	4.5 to 40	1.23 to 37	0.5	BUCK	LM2594M-ADJ	SMD 949-4332	2.67	1.98	1.62
2594	8	SOIC	4.5 to 60	1.2 to 57	0.5	BUCK	LM2594HVM-ADJ	SMD 421-0049	4.06	3.32	2.86
2594	8	DIP	4.5 to 60	1.2 to 57	0.5	BUCK	LM2594HVN-ADJ	121-1794	2.97	2.53	2.02
2594	8	DIP	15 to 40	12	0.5	BUCK	LM2594N-12	949-3751	3.19	2.16	1.77
2594	8	DIP	4.5 to 40	3.3	0.5	BUCK	LM2594N-3.3	949-3832	3.19	2.16	1.77
2594	8	DIP	7 to 40	5	0.5	BUCK	LM2594N-5.0	949-3646	3.19	2.16	1.77
2594	8	DIP	4.5 to 40	1.23 to 37	0.5	BUCK	LM2594N-ADJ	949-3654	3.19	2.16	1.77
2595	5	TO-263 (D2-Pak)	4.75 to 40	3.3	1	BUCK	LM2595S-3.3	SMD 121-5202	3.53	2.44	2.03
2595	5	TO-263 (D2-Pak)	7 to 40	5	1	BUCK	LM2595S-5.0	SMD 121-5203	3.53	2.57	2.14
2595	5	TO-263 (D2-Pak)	15 to 40	12	1	BUCK	LM2595S12	SMD 121-5201	4.02	2.73	2.23
2595	5	TO-263 (D2-Pak)	4.5 to 40	1.23 to 37	1	BUCK	LM2595S-ADJ	SMD 121-5204	3.38	2.76	2.53
2595	5	TO-220	4.75 to 40	3.3	1	BUCK	LM2595T33.	952-734	0.74	– –	– –
2595	5	TO-220	4.75 to 40	3.3	1	BUCK	LM2595T-3.3	949-4340	2.35	1.73	1.41
2595	5	TO-220	14 to 40	12	1	BUCK	LM2595T-12	949-4057	4.02	2.73	2.23
2595	5	TO-220	7 to 40	5	1	BUCK	LM2595T-5.0	949-4065	3.38	2.76	2.53
2595	5	TO-220	4.5 to 40	1.23 to 37	1	BUCK	LM2595T-ADJ	949-4049	2.73	2.21	1.87
2596	5	TO-263 (D2-Pak)	4.75 to 40	3.3	3	BUCK	LM2596S-3.3	SMD 121-4545	4.18	3.11	2.55
2596	5	TO-263 (D2-Pak)	7 to 40	5	3	BUCK	LM2596S-5.0	SMD 121-4546	3.67	2.17	1.74
2596	5	TO-263 (D2-Pak)	15 to 40	12	3	BUCK	LM2596S-12	SMD 949-4359	3.78	3.09	2.84
2596	5	TO-263 (D2-Pak)	15 to 40	1.23 to 37	3	BUCK	LM2596S-ADJ	SMD 949-4367	3.67	2.17	1.74
2596	5	TO-220	4.75 to 40	3.3	3	BUCK	LM2596T33	121-5205	4.21	2.86	2.37
2596	5	TO-220	7 to 40	5	3	BUCK	LM2596T-5.0	120-6529	3.78	3.09	2.84
2596	5	TO-220	15 to 40	12	3	BUCK	LM2596T-12	949-4375	4.50	3.05	2.50
2596	5	TO-220	4.5 to 40	1.23 to 37	3	BUCK	LM2596T-ADJ	949-4162	4.50	3.05	2.50
2597	8	SOIC	4.5 to 40	3.3	0.5	BUCK	LM2597M-3.3	SMD 949-4383	3.31	2.45	1.96
2597	8	SOIC	7 to 40	5	0.5	BUCK	LM2597M-5.0	SMD 949-4391	3.44	2.46	2.01
2597	8	SOIC	4.5 to 40	1.23 to 37	0.5	BUCK	LM2597M-ADJ	SMD 949-4405	3.96	2.68	2.19
2597	8	DIP	15 to 40	12	0.5	BUCK	LM2597N-12	949-3662	3.31	2.46	2.01
2597	8	DIP	7 to 40	5	0.5	BUCK	LM2597N50.	641-972	2.25	1.24	1.20
2597	8	DIP	7 to 40	5	0.5	BUCK	LM2597N-5.0	949-3760	3.22	2.42	1.99
2597	8	DIP	4.5 to 40	1.23 to 37	0.5	BUCK	LM2597N-ADJ	949-3670	2.89	1.75	1.44
2599	7	TO-220	14 to 40	12	3	BUCK	LM2599T-12	949-4090	3.32	2.35	2.10
2599	7	TO-220	7 to 40	5	3	BUCK	LM2599T50.	789-823	2.28	1.57	1.44
2599	7	TO-220	7 to 40	5	3	BUCK	LM2599T-5.0	949-4103	4.47	3.32	2.71
2599	7	TO-220	4.5 to 40	1.23 to 37	3	BUCK	LM2599T-ADJ	949-4081	5.36	3.63	2.97
2672	8	SOIC	8 to 40	1.21 to 37	1	BUCK	LM2672M-ADJ	SMD 948-9789	3.56	2.12	1.68
2672	8	SOIC	8 to 40	3.3	1	BUCK	LM2672M-3.3	SMD 446-6550	2.56	2.17	1.74
2672	8	SOIC	8 to 40	5	1	BUCK	LM2672M-5.0	SMD 948-9797	3.78	3.09	2.84
2672	8	DIP	8 to 40	1.21 to 37	1	BUCK	LM2672N-ADJ.	412-5605	3.35	2.30	1.84
2672	8	DIP	8 to 40	1.21 to 37	1	BUCK	LM2672N-ADJ	948-9835	4.07	2.80	2.24
2672	8	DIP	8 to 40	5	1	BUCK	LM2672N-5.0	948-9827	4.37	2.96	2.42
2673	7	TO-263 (D2-Pak)	8 to 40	5	3	BUCK	LM2673S-5.0	SMD 948-6178	4.95	3.68	3.00
2673	7	TO-263 (D2-Pak)	8 to 40	12	3	BUCK	LM2673S-12	SMD 948-6151	4.57	3.22	2.63
2673	7	TO-263 (D2-Pak)	8 to 40	37 à to bis	3	BUCK	LM2673S-ADJ	SMD 948-6160	3.24	2.00	1.59
2673	7	TO-220	8 to 40	1.23 to 37	3	BUCK	LM2673T-ADJ.	116-919	3.30	2.26	1.82
2673	7	TO-220	8 to 40	1.23 to 37	3	BUCK	LM2673T-ADJ	948-5724	4.91	3.34	2.73
2673	7	TO-220	8 to 40	5	3	BUCK	LM2673T50.	116-932	4.04	2.78	2.23
2673	7	TO-220	8 to 40	5	3	BUCK	LM2673T-5.0	948-5740	4.72	3.25	2.63
2673	7	TO-220	15 to 40	12	3	BUCK	LM2673T-12	948-5732	4.72	3.25	2.63
2674	8	SOIC	8 to 40	1.23 to 37	0.5	BUCK	LM2674M-ADJ	SMD 948-9940	2.65	1.56	1.25
2674	8	DIP	8 to 40	1.23 to 37	0.5	BUCK	LM2674N-ADJ	446-6597	1.99	1.70	1.36
2674	8	SOIC	8 to 40	5	0.5	BUCK	LM2674M-5.0	SMD 948-9754	2.57	2.09	1.93
2675	8	SOIC	8 to 40	1.21 to 37	1	BUCK	LM2675M-ADJ	SMD 948-9770	3.42	2.02	1.62
2675	8	SOIC	8 to 40	3.3	1	BUCK	LM2675M-3.3	SMD 948-9800	3.62	2.96	2.72
2675	8	SOIC	8 to 40	5	1	BUCK	LM2675M-5.0	SMD 948-9746	3.42	2.02	1.62
2675	8	DIP	8 to 40	5	1	BUCK	LM2675N-5.0	948-9819	3.42	2.02	1.62
2676	7	TO-220	8 to 40	1.23 to 37	3	BUCK	LM2676T-ADJ	948-5759	3.82	2.27	1.80
2676	7	TO-220	8 to 40	5	3	BUCK	LM2676T50.	116-968	3.51	2.58	2.13
2676	7	TO-220	8 to 40	5	3	BUCK	LM2676T-5.0	948-5775	3.26	2.45	1.99
2676	7	TO-220	15 to 40	12	3	BUCK	LM2676T12.	116-956	3.51	2.58	2.13
2676	7	TO-220	15 to 40	12	3	BUCK	LM2676T-12	948-5767	3.93	3.21	2.95
2677	7	TO-220	8 to 40	1.2 to 37	5	BUCK	LM2677T-ADJ	822-1960	5.43	4.61	3.72
2678	7	TO-220	8 to 40	5	5	BUCK	LM2678T-5.0	977-8365	7.11	6.05	4.91
2678	7	TO-263 (D2-Pak)	40 to 8	12	5	BUCK	LM2678S-12	SMD 302-6784	4.46	3.78	3.02
2678	7	TO-263 (D2-Pak)	8 to 40	1.237 à to bis	5	BUCK	LM2678S-ADJ	SMD 820-7399	6.10	5.20	4.12
2678	7	TO-220	8 to 40	12	5	BUCK	LM2678T-12	977-8357	6.51	4.83	3.95
2678	7	TO-220	8 to 40	1.23 to 37	5	BUCK	LM2678T-ADJ	948-6186	6.52	5.34	4.90
2679	7	TO-263 (D2-Pak)	8 to 40	5	5	BUCK	LM2679S-5.0	SMD 948-6208	8.22	5.57	4.55
2679	7	TO-263 (D2-Pak)	8 to 40	1.23 to 37	5	BUCK	LM2679S-ADJ	SMD 948-6194	4.94	3.55	2.90
2679	7	TO-220	8 to 40	37 to 1.2	5	BUCK	LM2679T-ADJ	948-9762	6.90	5.65	5.18
2825	24	DIP	4.75 to 40	3.3	1	BUCK	LM2825N-3.3	949-3891	25.76	23.76	19.47
2825	24	DIP	7 to 40	5	1	BUCK	LM2825N-5.0	949-3883	29.14	26.35	24.90
2825	24	DIP	4.5 to 40	15 to 1.23	1	BUCK	LM2825HN-ADJ	822-1987	44.94	34.10	27.30
2825	24	DIP	4.75 to 40	3.3	1	BUCK	LM2825N-3.3	NEW 949-3891	25.76	23.76	19.47
2825	24	DIP	7 to 40	5	1	BUCK	LM2825N-5.0	NEW 949-3883	29.14	26.35	24.90
2825	24	DIP	to 40	12	1	BUCK	LM2825N-12	NEW 948-6305	51.91	35.45	28.97
2825	24	DIP	to 40	to 15	1	BUCK	LM2825N-ADJ	NEW 948-6313	21.05	19.17	17.89
3150	14	TSSOP	to 42	to	12	BUCK	LM3150MHE	NEW SMD 167-9681	4.16	3.23	2.65
3151	14	TSSOP	to 42	3.3	15	BUCK	LM3151MHE-3.3	NEW SMD 167-9682	4.16	3.23	2.65
3152	14	TSSOP	to 42	3.3	15	BUCK	LM3152MHE-3.3	NEW SMD 167-9683	4.16	3.23	2.65
3153	14	TSSOP	to 42	3.3	15	BUCK	LM3153MHE-3.3	NEW SMD 167-9684	4.01	3.12	2.55
22670	8	PSOP	to 42	5	3	BUCK	LM22670MRE-5.0	NEW SMD 167-9653	3.59	2.80	2.29
22670	8	PSOP	to 42	to	3	BUCK	LM22670MRE-ADJ	NEW SMD 167-9654	3.59	2.80	2.29
22670	7	TO-263	to 42	5	3	BUCK	LM22670TJE-5.0	NEW SMD 167-9655	3.59	2.80	2.29
22670	7	TO-263	to 42	to	3	BUCK	LM22670TJE-ADJ	NEW SMD 167-9656	3.59	2.80	2.29
22671	8	PSOP	to 42	5	0.5	BUCK	LM22671MRE-5.0	NEW SMD 167-9657	2.37	1.84	1.50
22671	8	PSOP	to 42	to	0.5	BUCK	LM22671MRE-ADJ	NEW SMD 167-9658	2.37	1.84	1.50
22672	8	PSOP	to 42	5	1	BUCK	LM22672MRE-5.0	NEW SMD 167-9659	3.00	2.34	1.91
22672	8	PSOP	to 42	to	1	BUCK	LM22672MRE-ADJ	NEW SMD 167-9660	3.00	2.34	1.91
22673	8	PSOP	to 42	5	3	BUCK	LM22673MRE-5.0	NEW SMD 167-9662	3.59	2.80	2.29
22673	8	PSOP	to 42	to	3	BUCK	LM22673MRE-ADJ	NEW SMD 167-9663	3.59	2.80	2.29
22673	7	TO-263	to 42	5	3	BUCK	LM22673TJE-5.0	NEW SMD 167-9664	3.59	2.80	2.29
22673	7	TO-263	to 42	to	3	BUCK	LM22673TJE-ADJ	NEW SMD 167-9665	3.59	2.80	2.29
22674	8	PSOP	to 42	5	0.5	BUCK	LM22674MRE-5.0	NEW SMD 167-9666	2.25	1.75	1.43
22674	8	PSOP	to 42	to	0.5	BUCK	LM22674MRE-ADJ	NEW SMD 167-9667	2.25	1.75	1.43
22675	8	PSOP	to 42	5	1	BUCK	LM22675MRE-5.0	NEW SMD 167-9668	2.88	2.23	1.83

RL Re-reeling available

Power Supply ICs - continued

Simple Switcher Voltage Regulators - continued

	Pins	Pkg	Input Voltage (V)	Output Voltage (V)	Output Current (A)	Application	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
22675	8	PSOP	to 42	to	1	BUCK	LM22675MRE-ADJ	NEW SMD 167-9669	2.88	2.23	1.83
22676	8	PSOP	to 42	5	3	BUCK	LM22676MRE-5.0	NEW SMD 167-9670	3.42	2.66	2.17
22676	8	PSOP	to 42	to	3	BUCK	LM22676MRE-ADJ	NEW SMD 167-9671	3.42	2.66	2.17
22676	7	TO-263	to 42	5	3	BUCK	LM22676TJE-5.0	NEW SMD 167-9672	3.42	2.66	2.17
22676	7	TO-263	to 42	to	3	BUCK	LM22676TJE-ADJ	NEW SMD 167-9674	3.42	2.66	2.17
22677	7	TO-263	to 42	5	5	BUCK	LM22677TJE-5.0	NEW SMD 167-9675	5.90	4.59	3.75
22677	7	TO-263	to 42	to	5	BUCK	LM22677TJE-ADJ	NEW SMD 167-9676	5.90	4.59	3.75
22678	7	TO-263	to 42	5	5	BUCK	LM22678TJE-5.0	NEW SMD 167-9677	5.70	4.43	3.62
22678	7	TO-263	to 42	to	5	BUCK	LM22678TJE-ADJ	NEW SMD 167-9678	5.70	4.43	3.62
22679	7	TO-263	to 42	5	5	BUCK	LM22679TJE-5.0	NEW SMD 167-9679	5.90	4.59	3.75
22679	7	TO-263	to 42	to	5	BUCK	LM22679TJE-ADJ	NEW SMD 167-9680	5.90	4.59	3.75

LM2825 Simple Switcher®

National Semiconductor

A complete 1A DC-DC Buck converter in a 24 pin DIL package. Self-contained and fully protected from output fault conditions, these high efficiency step-down regulators are available in 3.3V, 5.0V, 12.0V and Adjustable output voltages.

The family features include:

- Line and Load regulation
- High power density
- MTBF >20 million hours
- TTL shutdown capability and programmable soft-start
- Low output ripple
- EMI radiation compliant with CISPR22 Class B

210660

	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
3.3 Switching Regulator	LM2825N-3.3	949-3891	25.76	23.76	19.47
5V Switching Regulator	LM2825N-5.0	949-3883	29.14	26.35	24.90
12V switching Regulator	LM2825N-12	948-6305	51.91	35.45	28.97
Adjustable Switching Regulator	LM2825N-ADJ	948-6313	21.05	19.17	17.89

Smart Power Modules (SPM™)

FAIRCHILD SEMICONDUCTOR



SPM™ (Smart Power Module) provides complete adjustable-speed motor drive control and fully integrated circuit protection for ac motors found in appliance applications such as washing machines and air conditioners, in compact Dual In-line Packages. Compared to discrete IGBT solutions, the SPM requires less than half the board space, while providing low-voltage control and high-voltage output stage rated at 10~20A at 230Vac. The SPM comes in a small (60 x 31mm), ceramic-based transfer molded-type package that optimises heat transfer from the IGBTs. The high-speed high voltage control circuit eliminates the need for opto-couplers and allows the IGBTs to be driven by a single bias supply. The built-in advanced current-sensing IGBT chips provide short-circuit current detection and protection. Other features of the SPM products include built-in high- and low-speed controls and an optional thermistor for over-temperature monitoring.

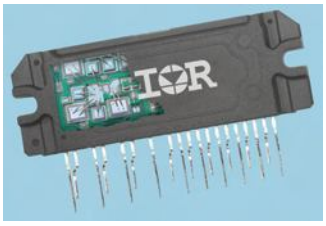
Mftrs. List No	
FCBS0550	500V 5A 3-phase SPM With MOSFET inverter
FCBS0650	500V 6A 3-phase SPM With MOSFET inverter
FSB50325	250V 3A 3-phase SPM With FRFET Inverter
FSB50325T	250V 3A 3-phase SPM With FRFET Inverter

451284

Mftrs. List No	Order Code	Price Each 1+	10+	100+
FCBS0550	122-8255	5.58	4.66	3.67
FCBS0650	122-8256	7.70	6.45	5.09
FSB50325	122-8257	3.10	2.68	2.36
FSB50325T	122-8258	4.52	3.76	2.96

iMOTION™ Series Power Modules

International IOR Rectifier



This range of Power Modules are designed for a number of applications, including compressor drives, fan controls, air conditioning systems and light inductrial applications. They feature an in-built temperature monitor and over-current protection, short-circuit rated IGBTs an integrated under-voltage lockout function. They deliver a high level of protection and fail-safe operation. The iMOTION™ Series Power Modules are available in variations on a Single In Line package as detailed in the relevant datasheets.

Package Types:

* 23-pin Standard Pin Leadforming Option ** 23-pin Leadforming Option 2

418838

Package	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
*	"Plug N Drive" Integrated Power Module for Appliance Motor Drive Applications, With Internal Shunt Resistor, 6A, 600V	IRAMS06UP60B	101-9920	19.83	12.47	10.93
*	"Plug N Drive" Integrated Power Module for Appliance Motor Drive Applications, 10A, 600V	IRAMS10UP60A	101-9921	13.74	9.20	8.04
**	"Plug N Drive" Integrated Power Module for Appliance Motor Drive Applications, 10A, 600V	IRAMS10UP60A-2	101-9923	13.85	11.42	10.12
*	Integrated Power hybrid IC for Appliance Motor Drive Applications. With Internal Shunt Resistor, 10A, 600V	IRAMS10UP60B.	101-9924	16.17	13.34	11.82
*	"Plug N Drive" Integrated Power Module for Appliance Motor Drive Applications, 16A, 600V	IRAMX16UP60A	101-9925	28.24	19.25	16.11
**	"Plug N Drive" Integrated Power Module for Appliance Motor Drive Applications, 6A, 600V	IRAMX16UP60A-2	101-9926	21.89	18.06	16.01
*	Integrated Power Hybrid IC for Appliance Motor Drive Applications, 16A, 600V	IRAMX16UP60B	102-3702	23.26	19.18	17.00
*	Integrated Power Hybrid IC for Appliance Motor Drive Applications, 20A, 600V With open Emitter Pins	IRAMX20UP60A	102-3703	23.45	19.35	16.93
*	Integrated Power Hybrid IC for Appliance Motor Drive Applications, 20A, 600V With Internal Shunt Resistor	IRAMY20UP60B	102-3704	26.62	20.28	17.20

Plug-in Power Modules

Texas Instruments

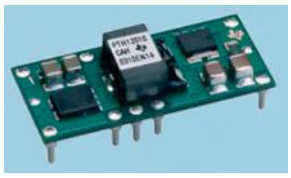


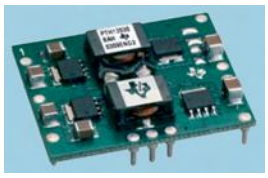
A range of surface-mount, plug-in power (PIP) modules designed to be small in size but with high performance and flexibility. Covering a range of output currents and input voltages, the power modules are suitable for use in telecom, industrial and general purpose circuits. Features include an on/off inhibit, output voltage adjust (trim) and margin up/down controls, as well as a non-latching over-current trip to serve as a load fault protection.

456897

Mftrs. List No.	Input Voltage	Output Voltage	Output Current	Pins/Case	Order Code	Price Each 1+	10+	100+
PTN04050CAD	2.95V to 5.5V	15V	2.4A	4/DIL Module	110-9719	11.88	9.11	7.73
PTN04050CAZ	2.95V to 5.5V	15V	2.4A	4/Horizontal Surface Mount	SMD 110-9720	11.88	9.11	7.73
PTN04050AAD	2.9V to 7V	-3.3V	1A	5/DIL Module	110-9717	11.88	9.11	7.73
PTN04050AAZ	2.9V to 7V	-3.3V	1A	5/Horizontal Surface Mount	SMD 110-9718	11.88	9.11	7.73
PTN78000AAZ	7V to 29V	-3.3V	1.5A	5/Horizontal Surface Mount	110-9700	11.88	9.11	7.73
PTN78060WAD	7V to 36V	12.6V	3A	7/Horizontal Through Hole	110-9703	16.26	12.89	10.82
PTN78060WAH	7V to 36V	12.6V	3A	7/Horizontal Through Hole	126-2366	16.26	12.89	10.82
PTN78060WAZ	7V to 36V	12.6V	3A	7/Horizontal Surface Mount	SMD 110-9705	16.26	12.89	10.82
PTN78020WAD	7V to 36V	12.6V	6A	7/Horizontal Through Hole	110-9710	22.17	17.57	14.75
PTN78020WAH	7V to 36V	12.6	6A	7/Horizontal Through Hole	126-2368	20.05	15.94	14.16
PTN78020WAZ	7V to 36V	12.6V	6A	7/Horizontal Surface Mount	SMD 110-9711	20.05	15.94	14.16
PTN78060AAZ	9V to 29V	-3.3V	3A	7/Horizontal Surface Mount	SMD 110-9707	11.71	10.11	9.85
PTN78000HAZ	15V to 36V	22V	1.5A	5/Horizontal Surface Mount	110-9702	8.52	6.99	6.81
PTN78060HAZ	15V to 36V	22V	3A	7/Horizontal Surface Mount	SMD 110-9709	14.70	11.69	10.38
PTN78020HAZ	15V to 36V	22V	6A	7/Horizontal Surface Mount	SMD 110-9715	22.17	17.57	14.75

Plug-in Power Modules



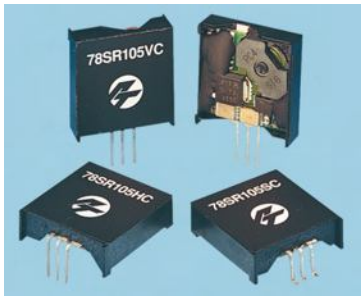

A range of non-isolated power modules designed to be small in size but with high performance and flexibility. Covering a range of output currents and input voltages, the power modules are suitable for use in telecom, industrial and general purpose circuits. Features include an on/off inhibit, output voltage adjust (trim) and margin up/down controls, as well as a non-latching over-current trip to serve as a load fault protection.

423171

Mftrs. List No.	Input Voltage	Output Voltage	Output Current	Pins / Module Type	Order Code	Price Each 1+	10+	100+
PTH03000WAZ	3.3V	0.9V to 2.5V	6A	5/Horizontal Surface Mount	SMD 110-3272	10.25	7.86	6.66
PTH03050WAH.	3.3V	0.8V to 2.5V	6A	6/Horizontal Through Hole	121-2251	9.73	7.47	6.33
PTH03050WAD	3.3V	0.8V to 2.5V	6A	6/Horizontal Through Hole	110-3273	9.71	7.69	6.45
PTH03050WAZ	3.3V	0.8V to 2.5V	6A	6/Horizontal Surface Mount	SMD 110-3274	9.73	7.47	6.33
PTH03060WAD	3.3V	0.8V to 2.5V	10A	10/Horizontal Through Hole	110-3275	12.40	9.81	8.25
PTH03060WAH.	3.3V	0.8V to 2.5V	10A	10/Horizontal Through Hole	835-4332	4.62	– –	– –
PTH03060WAH	3.3V	0.8V to 2.5V	10A	10/Horizontal Through Hole	121-2252	13.78	10.91	9.16
PTH03060WAD	3.3V	0.8V to 2.5V	10A	10/Horizontal Through Hole	110-3275	12.40	9.81	8.25
PTH03060WAZ	3.3V	0.8V to 2.5V	10A	10/Horizontal Surface Mount	SMD 110-3276	13.82	10.60	8.99
PTH03010WAD	3.3V	0.8V to 2.5V	15A	10/Horizontal Through Hole	110-3277	16.18	12.91	10.84
PTH05000WAH	5V	0.9V to 3.6V	6A	5/Horizontal Through Hole	121-2253	10.25	7.86	6.66
PTH05000WAD	5V	0.9V to 3.6V	6A	5/Horizontal Through Hole	110-3284	10.21	8.08	6.78
PTH05000WAZ	5V	0.9V to 3.6V	6A	5/Horizontal Surface Mount	SMD 110-3285	10.25	7.86	6.66
PTH05050WAH	5V	0.8V to 3.6V	6A	6/Horizontal Through Hole	121-2256	9.73	7.47	6.33
PTH05050WAD	5V	0.8V to 3.6V	6A	6/Horizontal Through Hole	110-3286	9.71	7.69	6.45
PTH05050WAZ	5V	0.8V to 3.6V	6A	6/Horizontal Surface Mount	SMD 110-3287	9.71	7.69	6.45
PTH05060WAD	5V	0.8V to 3.6V	10A	10/Horizontal Through Hole	110-3288	12.53	9.91	8.32
PTH05060WAZ	5V	0.8V to 3.6V	10A	10/Horizontal Surface Mount	SMD 110-3289	13.82	10.60	8.99
PTH05010WAD	5V	0.8V to 3.6V	15A	10/Horizontal Through Hole	110-3290	16.18	12.91	10.84
PTH05010WAZ	5V	0.8V to 3.6V	15A	10/Horizontal Surface Mount	SMD 110-3291	14.73	11.71	10.40
PTH05020WAD	5V	0.8V to 3.6V	22A	10/Horizontal Through Hole	110-3292	24.94	19.77	16.59
PTH05030WAS	5V	0.8V to 3.6V	30A	13/Horizontal Surface Mount	SMD 110-3296	26.66	22.88	20.03
PTN04050CAZ	5.5V	5V to 15V	2.4A	4/Horizontal Surface Mount	SMD 110-9720	11.88	9.11	7.73
PTH04070WAZT	5.5V	0.9V to 3.6V	3A	5/Horizontal Surface Mount	SMD 118-0201	6.58	5.21	4.37
PTN04050AAZ	7V	-15V to -3.3V	1A	5/Horizontal Surface Mount	SMD 110-9718	11.88	9.11	7.73
PTH12000WAH	12V	1.2V to 5.5V	6A	5/Horizontal Through Hole	121-2257	10.25	7.86	6.66
PTH12000WAD	12V	1.2V to 5.5V	6A	5/Horizontal Through Hole	110-3297	10.21	8.08	6.78
PTH12000WAZ	12V	1.2V to 5.5V	6A	5/Horizontal Surface Mount	SMD 110-3298	10.25	7.86	6.66
PTH12050WAH	12V	1.2V to 5.5V	6A	6/Horizontal Through Hole	121-2258	9.73	7.47	6.33
PTH12050WAD	12V	1.2V to 5.5V	6A	6/Horizontal Through Hole	110-3299	11.68	9.25	7.76
PTH12050WAZ	12V	1.2V to 5.5V	6A	6/Horizontal Surface Mount	SMD 110-3300	9.73	7.47	6.33
PTH12060WAH	12V	1.2V to 5.5V	10A	10/Horizontal Through Hole	121-2259	13.82	10.60	8.99
PTH12060WAD	12V	1.2V to 5.5V	10A	10/Horizontal Through Hole	110-3302	13.78	10.91	9.16
PTH12060WAZ	12V	1.2V to 5.5V	10A	10/Horizontal Surface Mount	SMD 110-3303	13.82	10.60	8.99
PTH12010WAH	12V	1.2V to 5.5V	12A	10/Horizontal Through Hole	121-2260	13.83	11.52	9.75
PTH12010WAZ	12V	1.2V to 5.5V	12A	10/Horizontal Surface Mount	SMD 110-3305	16.18	12.91	10.84
PTH12020WAH	12V	1.2V to 5.5V	18A	10/Horizontal Through Hole	121-2261	19.05	15.14	13.45
PTH12020WAD	12V	1.2V to 5.5V	18A	10/Horizontal Through Hole	110-3306	15.59	13.54	11.97
PTH12020WAZ	12V	1.2V to 5.5V	18A	10/Horizontal Surface Mount	SMD 110-3307	17.31	13.72	12.75
PTH12030WAH.	12V	1.2V to 5.5V	26A	13/Horizontal Through Hole	835-4634	9.69	– –	– –
PTH12030WAH	12V	1.2V to 5.5V	26A	13/Horizontal Through Hole	121-2262	19.49	16.15	14.49
PTH12030WAZ	12V	1.2V to 5.5V	26A	13/Horizontal Surface Mount	SMD 110-3309	16.11	15.69	15.29
PTH08T230WAZ	14V	0.7V to 5.5V	6A	10/DIP Module	132-9591	11.15	8.55	7.25
PTH08080WAZT	18V	0.9V to 5.5V	2.25A	5/Horizontal Surface Mount	SMD 118-0200	6.58	5.21	4.37
PTN78000AAZ	29V	-15V to -3.3V	1.5A	5/Horizontal Surface Mount	110-9700	11.88	9.11	7.73
PTN78060AAZ	29V	-15V to -3.3V	3A	7/Horizontal Surface Mount	SMD 110-9707	11.71	10.11	9.85
PTN78000HAZ	36V	11.85V to 22V	1.5A	5/Horizontal Surface Mount	110-9702	8.52	6.99	6.81
PTN78000WAZ	36V	2.5V to 12.6V	1.5A	5/Horizontal Surface Mount	SMD 110-9697	11.88	9.11	7.73
PTN78060HAZ	36V	11.85V to 22V	3A	7/Horizontal Surface Mount	SMD 110-9709	14.70	11.69	10.38
PTN78060WAD	36V	2.5V to 12.6V	3A	7/Horizontal Through Hole	110-9703	16.26	12.89	10.82
PTN78060WAZ	36V	2.5V to 12.6V	3A	7/Horizontal Surface Mount	SMD 110-9705	16.26	12.89	10.82
PTN78020HAZ	36V	11.85V to 22V	6A	7/Horizontal Surface Mount	SMD 110-9715	22.17	17.57	14.75
PTN78020WAD	36V	2.5V to 12.6V	6A	7/Horizontal Through Hole	110-9710	22.17	17.57	14.75
PTN78020WAZ	36V	2.5V to 12.6V	6A	7/Horizontal Surface Mount	SMD 110-9711	20.05	15.94	14.16

Power Supply ICs - continued

Integrated Switching Regulators



The 78SR1 and 79SR1 Series are a line up of 3-terminal Integrated Switching Regulators (ISRs) that are as easy to use as linear 3-terminal regulators. These positive and negative step down ISRs have a maximum output current of +1.5A and -1.5A, input voltage ranges of up to +30V and -30V, respectively. These Series have an output voltage that is laser trimmed to industry standard voltages. They have excellent line and load regulation with internal short circuit and over-temperature protection.
These Series offer >85% efficiency. The 78SR1 Series is ideal for solving heat/space/reliability problems in a wide variety of industrial applications. The 79SR1 Series is ideal for applications in RS232 systems, Ethernet communications, logic and in Op-amp circuitry.

210538

	Mftrs. List No.	Order Code	Price Each 1+	5+	10+
+5V ISR - Horizontal Mount	78SR105HC	121-6736●	18.47	14.67	13.03
+12V ISR - Horizontal Mount	78SR112HC	121-6737●	18.47	14.67	13.03
+5V ISR - Surface Mount	78SR105SC.	311-4818	12.25	10.50	9.18
+5V ISR - Surface Mount	78SR105SC	121-6732●	11.77	9.80	9.55
+5V ISR - Vertical Mount	78SR105VC	121-6738●	18.47	14.67	13.03
+12V ISR - Surface Mount	78SR112SC	121-6733●	25.01	21.43	18.76
+12V ISR - Vertical Mount	78SR112VC	121-6741●	24.03	19.11	16.97

Integrated Switching Regulators



The Integrated Switching Regulators (ISR) are easy to use positive and negative stepdown regulators, with PT5041 as setup regulator, offering >85% efficiency. The output voltages are laser trimmed to industry standard voltages with excellent line and load regulation. The ISR line up is suitable for a multitude of applications including Ethernet comms, logic, RS-232, op-amp circuitry, disk drive motors and battery powered equipment.

210932

Mftrs. List No.	Input Voltage	Output Voltage	V_n Adjust	Output Current	On/Off Control	Short Circuit Protection	Thermal Shutdown	Pins/Case	Order Code	Price Each 1+	10+	100+
PT5041N	11V	+12V		1A			Y	3/Vertical Through Hole	121-3128●	16.19	12.87	11.43
PT5101A	V_n +9V to 38V	+5V		1A		Y	Y	3/Horizontal Through Hole	SMD 121-3129●	10.65	8.18	6.93
PT5101C	V_n +9V to 38V	+5V		1A		Y	Y	3/Horizontal Surface Mount	SMD 121-3130●	10.65	8.18	6.93
PT5101N	V_n +9V to 38V	+5V		1A		Y	Y	3/Vertical Through Hole	121-3132●	10.65	8.18	6.93
PT5102A	V_n +16V to 38V	+12V		1A		Y	Y	3/Horizontal Through Hole	SMD 121-3133●	10.65	8.18	6.93
PT5102C	V_n +16V to 38V	+12V		1A		Y	Y	3/Horizontal Surface Mount	SMD 121-3134●	7.04	5.91	5.16
PT5102N	V_n +16V to 38V	+12V		1A		Y	Y	3/Vertical Through Hole	121-3135●	10.65	8.18	6.93
PT6302A	V_n +9V to 38V	+5V	Y	3A	Y	Y	Y	12/Horizontal Through Hole	121-3136●	14.88	13.22	12.35
PT6302C	V_n +9V to 38V	+5V	Y	3A	Y	Y	Y	12/Horizontal Surface Mount	SMD 121-3137●	15.58	12.38	11.00
PT6302N.	V_n +4V to 38V	+5V	Y	3A	Y	Y	Y	12/Vertical Through Hole	311-5094	12.79	11.37	10.62
PT6302N	V_n +9V to 38V	+5V	Y	3A	Y	Y	Y	12/Vertical Through Hole	121-3138●	15.58	12.38	11.00
PT6304A	V_n +16V to 38V	+5V	Y	3A	Y	Y	Y	12/Horizontal Through Hole	121-3139●	21.11	18.74	17.53
PT6304C	V_n +16V to 38V	+12V	Y	3A	Y	Y	Y	12/Horizontal Surface Mount	SMD 121-3140●	20.22	16.08	14.28
PT6304N	V_n +16V to 38V	+12V	Y	3A	Y	Y	Y	12/Vertical Through Hole	121-3141●	15.58	12.38	11.00
PT78HT205H.	V_n +4V to 28V	+5V		2A		Y	Y	3/Horizontal Through Hole	SMD 311-5252	12.96	11.39	10.65
PT78HT205H	V_n +9V to 28V	+5V		2A		Y	Y	3/Horizontal Through Hole	SMD 121-3142●	14.43	11.48	10.19
PT78HT205V.	V_n +4V to 28V	+5V		2A		Y	Y	3/Vertical Through Hole	311-5276	14.60	11.47	9.84
PT78HT205V	V_n +9V to 28V	+5V		2A		Y	Y	3/Vertical Through Hole	121-3144●	14.43	11.48	10.19
PT78HT233S	V_n +9V to 15V	+3.3V		2A		Y	Y	3/Horizontal Surface Mount	SMD 121-3145●	15.97	12.66	10.61
PT78ST105H	V_n +9V to 38V	+5V		1.5A		Y	Y	3/Horizontal Through Hole	SMD 121-3146●	12.84	9.85	8.35
PT78ST105S	V_n +9V to 38V	+5V		1.5A		Y	Y	3/Horizontal Surface Mount	SMD 121-3147●	12.84	9.85	8.35
PT78ST105V	V_n +9V to 38V	+5V		1.5A		Y	Y	3/Vertical Through Hole	121-3148●	12.84	9.85	8.35
PT78ST112H	V_n +16V to 38V	+12V		1.5A		Y	Y	3/Horizontal Through Hole	SMD 121-3149●	12.84	9.85	8.35
PT78ST112V	V_n +16V to 38V	+12V		1.5A		Y	Y	3/Vertical Through Hole	121-3150●	12.84	9.85	8.35
PT78ST115V.	V_n +4V to 38V	+15V		1.5A		Y	Y	3/Vertical Through Hole	311-5409	10.13	9.53	8.32
PT78ST115V	V_n +19V to 38V	+15V		1.5A		Y	Y	3/Vertical Through Hole	121-3152●	16.29	15.34	13.37
PT78ST133H	V_n +9V to 26V	+3.3V		1.5A		Y	Y	3/Horizontal Through Hole	SMD 121-3153●	11.74	11.05	9.64
PT78ST133V	V_0 +4V to 38V	+3.3V		1.5A		Y	Y	3/Vertical Through Hole	121-3154●	12.93	11.20	9.80

Buck/Boost Regulators, Controllers & Charge Pumps

406011

	Pins/Package	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
682	8/NSOIC	Micro Power Inverting Charge Pump	SP682CN-L	SMD 938-8516●	1.31	1.07	0.90	0.84	0.77
6121	8/NSOIC	Low Voltage, 8 Pin, Synchronous Buck Controller	SP6121CN-L	SMD 938-8885●	1.80	1.47	1.23	1.14	1.07
6123	8/NSOIC	300 kHz, Low Voltage, 8 Pin, Synchronous Buck Controller	SP6123EN-L	SMD 938-8869●	2.26	1.85	1.56	1.46	1.35
6132	10/MSOP	High Voltage Synchronous Buck Controller	SP6132HEU-L	SMD 938-8834●	3.79	3.11	2.60	2.42	2.26
6134	10/MSOP	Dual Supply Synchronous Buck Controller	SP6134EU-L	SMD 938-8826●	2.30	1.87	1.58	1.45	1.35
6139	10/MSOP	Wide Input, 1.3MHz Synchronous PWM Controller	SP6139EU-L	SMD 938-8818●	2.33	1.91	1.60	1.48	1.38
6644	8/Mini SOIC	Single/Dual Alkaline Cell, High Efficiency Boost DC-DC Regulator	SP6644EU-L	SMD 938-8800●	1.86	1.53	1.28	1.19	1.10
6648	10/MSOP	Ultra-Low Quiescent Current, High Efficiency Boost Regulator	SP6648EU-L	SMD 938-8770●	2.41	1.98	1.65	1.54	1.43
6650	10/MSOP	High Efficiency 600mA Synchronous Buck Regulator	SP6650EU-L	SMD 938-8761●	1.86	1.53	1.28	1.19	1.10
6651	10/MSOP	High Efficiency 800mA Synchronous Buck Regulator	SP6651AEU-L	SMD 938-8745●	1.59	1.31	1.10	1.02	0.95
6654	10/DFN	High Efficiency 800mA Synchronous Buck Regulator w/Power good	SP6654ER-L	SMD 938-8737●	1.82	1.48	1.25	1.17	1.09
6654	10/MSOP	High Efficiency 800mA Synchronous Buck Regulator w/Power good	SP6654EU-L	SMD 938-8729●	2.00	1.63	1.37	1.28	1.19
6655	10/DFN	High Efficiency 400mA Synchronous Buck Regulator	SP6655ER-L	SMD 938-8710●	2.00	1.63	1.37	1.28	1.19
6660	8/µSOIC	200mA Charge Pump Inverter or Doubler	SP6660CU-L	SMD 938-8699●	0.89	0.80	0.73	0.66	0.61
6661	8/NSOIC	High Frequency 200mA Charge Pump Inverter or Doubler	SP6661EN-L	SMD 938-8680●	1.52	1.25	1.04	0.97	0.91
7652	26/DFN	SP7652, Wide Input Voltage Range 6A, 600kHz, Buck Regulator	SP7652ER-L	SMD 938-8540●	4.07	3.84	3.74	3.64	3.55
7655	26/DFN	SP7655, Wide Input Voltage Range 8A, 300kHz, Buck Regulator	SP7655ER-L	SMD 938-8532●	6.81	5.57	4.68	4.35	4.06

DC/DC Boost Regulators

The **SP6641** is an ultra-low quiescent current, high efficiency, DC-DC boost converter designed for single and dual cell alkaline, or Li-ion battery applications found in PDA's, MP3 players, and other handheld portable devices. The SP6641 features a 10µA quiescent current, a 0.3Ω N-channel charging switch, 0.9V input startup, and a 0.33A or 1.0A inductor current limiting feature. The SP6641 is preset to 3.3V or 5.0V version and can be controlled by a 1nA active LOW shut down pin.
The **SP7648** is an ultra-low quiescent current, high efficiency step-up DC-DC converter ideal for single cell Li-Ion or dual cell alkaline battery applications to drive various LEDs. The SP7648 combines low quiescent current and excellent light-load efficiency of PFM control.

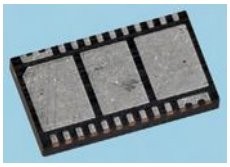
The SP7648 features synchronous rectification, a 0.3Ωcharging switch, an anti-ringing inductor switch, under-voltage lockout and programmable inductor peak current. The device can be shut down by a1nA active LOW shutdown pin. A very low 0.288V reference voltage is optimized for driving a constant current load.

Input Voltage V	Output Current mA	Output Voltage V	Output Voltage Fixed/Adjustable	Efficiency %	Mftrs List No.
1.3	0.09	3.3	Fixed	87	SP6641AEK-L-3-3
2.0	0.1	5	Fixed	87	SP6641AEK-L-5-0
2.6	0.5	3.3	Fixed	87	SP6641BEK-L-3-3
3.3	0.5	5	Fixed	87	SP6641BEK-L-5-0
3.3	0.7	5	Fixed & Adjustable 2.7-5.5V	92	SP7648EU-L

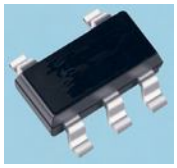
483689

Pins	Package	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
5	SOT-23	SP6641AEK-L-3-3	SMD 131-7821●	1.08	0.83	0.68	0.65	0.61
5	SOT-23	SP6641AEK-L-5-0	SMD 131-7823●	1.08	0.83	0.68	0.65	0.61
5	SOT-23	SP6641BEK-L-3-3	SMD 131-7824●	1.06	0.82	0.67	0.64	0.60
5	SOT-23	SP6641BEK-L-5-0	SMD 131-7825●	1.06	0.82	0.67	0.64	0.60
10	DFN	SP7648EU-L	SMD 131-7831●	1.99	1.53	1.28	1.20	1.11

Fixed Frequency Synchronous Buck Regulator



26 pin DFN



5 pin TSOT-23

Min/Max Input Voltage V	Supply Single / Dual	Output Current A	Min. Output Voltage V	Frequency KHz	Efficiency %	Mftrs List No.
2.5 / 5.5	Single	0.6	0.6	1500	94	SP6659EK1-L
4.75 / 22	Single	3	0.8	600	94	SP7661ER-L
3.0 / 22	Dual					
5 / 22	Single	12	0.8	300	95	SP7662ER-L
3.0 / 22	Dual					
4.75 / 22	Single	6	0.8	600	94	SP7663ER-L
3.0 / 22	Dual					

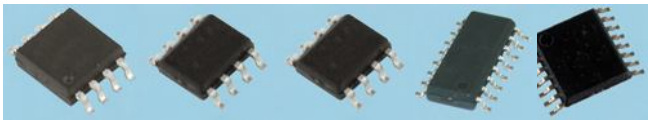
The **SP6659** is a 600mA synchronous buck regulator using a constant frequency, current mode architecture. The output voltage can be programmed using an external resistor divider. The 2.5V to 5.5V input voltage range is ideal for portable applications that use a Li-Ion battery. The internal synchronous switch increases efficiency and eliminates the need for an external Schottky diode.

The **SP7661,2,3** are a synchronous step-down switching regulator optimized for high efficiency. The device uses the input voltage to drive the circuit which is a single supply operation. If the input voltage is less than 4.75V then an external voltage is required, hence dual supply operation. The ICs provides a fully integrated buck regulator solution using a fixed frequency, PWM voltage mode architecture. Protection features include UVLO, thermal shutdown, output current limit and short circuit protection.

483744

Pins	Package	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
5	TSOT-23	SP6659EK1-L	SMD 131-7827●	1.83	1.40	1.17	1.10	1.02
26	DFN	SP7661ER-L	SMD 131-7832●	6.62	5.09	4.24	3.98	3.70
26	DFN	SP7662ER-L	SMD 131-7833●	15.52	11.94	9.94	9.34	8.68
26	DFN	SP7663ER-L	SMD 131-7834●	8.83	6.79	5.66	5.32	4.94

Step Up/Down DC-DC Converters



8 pins MSOP | 8 pins NSOIC | 8 pins SOIC | 16 pins NSOIC | 16 pins QSOP

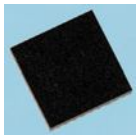
Step Up/Down	Input Voltage Min-Max V	Fixed / Adjustable Output Voltage Range V	Max Output Current A	Controller Type	Max. Duty Cycle %	Mftrs. List No.
Down	3.0-16.5	No / 4.85-5.15	2	PFM up to 300kHz	100	MAX1627ESA+
Down	3.0-16	5.0 / 1.5-16	2.5	PWM up to 300kHz	96.5	MAX1649ESA+
Down	4.5-30	No / 2.5-5.5	10	PWM fixed 150 or 300kHz	99	MAX1653EEE+
Down	4.5-30	No / 2.5-5.5	10	PWM fixed 150 or 300kHz	99	MAX1653ESE+
Down	4.5-30	No / 1-30 two DC O/P	10	PWM fixed 150 or 300kHz	99	MAX1655EEE+
Down	2.7-14	3.3 / 1.25-14	1	PWM fixed 600kHz	100	MAX1684EEE+
Down	2.7-28	3.3 & 1.8 / 1-5.5 two DC O/P	2	PWM fixed 1.25MHz	100	MAX1775EEE+
Down	4.5-24	5 / 1.25-24	0.6	PWM up to 200kHz	100	MAX1776EUA+
Up	3.0-16.5	12 / 3-16.5	2	PFM up to 300kHz		MAX1771CSA+
Up	3.0-16.5	12 / 3-16.5	2	PFM up to 300kHz		MAX1771ESA+
Up	0.7-5.5	3.3 or 5 / 2-5.5	0.55	No		MAX1797EUA+

485341

Pins/Package	Mftrs. List No.	Order Code	Price Each 1+	25+	100+	250+
8 / NSOIC	MAX1627ESA+	SMD 137-9856●	3.56	2.55	1.93	1.63
8 / SOIC	MAX1649ESA+	SMD 137-9857●	4.81	3.44	2.59	2.18
16 / QSOP	MAX1653EEE+	SMD 137-9858●	7.86	5.27	3.97	3.34
16 / NSOIC	MAX1653ESE+	SMD 137-9861●	7.86	5.27	3.97	3.34
16 / QSOP	MAX1655EEE+	SMD 137-9862●	7.36	5.27	3.97	3.34
16 / QSOP	MAX1775EEE+	SMD 137-9873●	6.39	4.56	3.44	2.90
8 / MSOP	MAX1776EUA+	SMD 137-9734●	5.31	3.74	3.04	2.79
8 / NSOIC	MAX1771CSA+	SMD 137-9870●	4.35	2.79	1.88	1.57
8 / NSOIC	MAX1771ESA+	SMD 137-9871●	5.93	3.81	2.57	2.14
8 / MSOP	MAX1797EUA+	SMD 137-9875●	8.87	5.71	3.86	3.21

TFT-LCD DC/DC with Integrated Amplifiers

Single chip with one, three & five ampliers.



The EL7640,1 & 2 integrate a high performance boost regulator with 2 LDO controllers for VON and VOFF and a VON-slice circuit with adjustable delay. The boost converter is a current mode PWM type integrating an 18V N-channel MOSFET. Operating at 1.2MHz, this boost can operate in either P-mode for superior transient response, or in PI-mode for tighter output regulation.

- Current mode boost regulator featuring fast transient response
- 1% accurate output voltage maximun 18V/3A integrated FET
- Supply voltage 2.6V to 5.5V
- 2 LDO controllers for VON and VOFF
- 2% output regulation
- VON-slice circuit
- 150mA short-circuit output current
- 12Vμ/s slew rate
- 12MHz -3dB bandwidth
- Rail-to-rail inputs and outputs
- Built-in power sequencing
- Internal soft-start
- Multiple overload protection
- Thermal shutdown
- 32 Ld 5x5 thin QFN package
- Temperature -40°C to +85°C

480872

No. Amp	Mftrs. List No.	Order Code	Price Each 1+	25+	100+	250+	500+
1	EL7640ILTZ	SMD 136-0960●	1.99	1.53	1.26	1.07	1.02
3	EL7641ILTZ	SMD 136-0961●	2.24	1.80	1.54	1.35	1.28
5	EL7642ILTZ	SMD 136-0962●	2.25	1.92	1.68	1.48	1.40

LED Drivers & Regulators

406032

	Pins/Package	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
4446	5/SOT-23	High Output Voltage Boost Regulator LCD Bias Regulator	SP4446EK-L	SMD 938-7099●	1.31	1.07	0.90	0.84	0.77
6682	10/MSOP	High Efficiency Charge Pump Regulator for White LEDs	SP6682EU-L	SMD 938-8656●	1.52	1.25	1.04	0.97	0.91
6683	10/DFN	High Power LED Driver for Parallel Configuration	SP6683ER-L	SMD 938-8648●	2.06	1.68	1.41	1.31	1.23
6685	10/DFN	Charge Pump LED Driver for Camera Flash.	SP6685ER-L	SMD 938-8630●	3.30	2.70	2.28	2.12	1.98
6690	5/SOT-23	Micro Power Boost Regulator Series White LED Driver	SP6690EK-L	SMD 938-8621●	1.52	1.25	1.04	0.97	0.91
6691	5/SOT-23	Micro Power Boost Regulator Series White LED Driver	SP6691EK-L	SMD 938-8613●	1.52	1.25	1.04	0.97	0.91
7611	6/SC-70	Low Dropout LED Driver for any Colour LED	SP7611AEC6-L	SMD 938-8591●	0.76	0.62	0.53	0.49	0.45
7612	6/SC-70	Low Dropout LED Driver for any Colour LED	SP7612AEC6-L	SMD 938-8583●	0.63	0.52	0.43	0.40	0.37
7614	6/SC-70	Low Dropout LED Driver for any Colour LED	SP7614AEC6-L	SMD 938-8575●	0.60	0.49	0.41	0.38	0.36

Relay Drivers

210447

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+
2981	ALEG	18	DIP	LED/Relay Driver, 8 NPN Darlingtons +5V Input, 500mA output	UDN2981A-T	119-3495●	1.66	1.08	0.80	0.78
3680	MCHIP	14	DIP	Quad Relay Driver (Negative), TTL/CMOS Compatible	DS3680N.	408-773	1.07	0.81	0.69	0.51

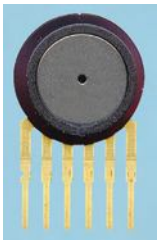
RL Re-reeling available

Sensors - Capacitive/Touch/Pressure

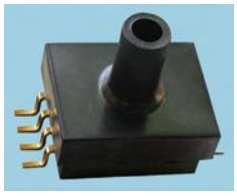
Image Detector, Manifold & Piezoresistive Pressure Sensors

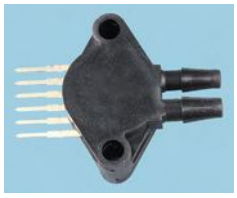
freescale semiconductor

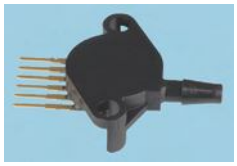
New

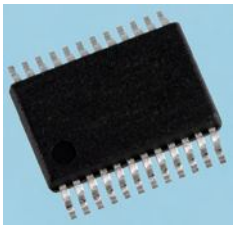

6 pin 867-08


8 pin 482A-01

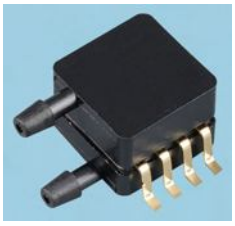

5 pin 1320A-02


6 pin 867C-05


6 pin 867B-04


24 pin WSOIC


4 pin 344C-01


8 pin 1351-01


4 pin 344B-01

- The Electric Field Image Detector MC34940 is intended for cost-sensitive applications where non-contact sensing of objects is desired. When connected to external electrodes, an electric field is created which is used detect objects within the field. This device can support seven electrodes and 28 touch pad sensors.
- The Manifold Absolute Pressure sensors are used for engine control. It is designed to sense absolute air pressure within the intake manifold. This measurement can be used to compute the amount of fuel required for each cylinder.
- The Piezoresistive transducers are monolithic silicon pressure sensors designed for a wide range of applications, but particularly those employing a microcontroller or microprocessor with A/D inputs. This transducer combines advanced micromachining techniques, thin-film metallization, and bipolar processing to provide an accurate, high level analogue output signal that is proportional to the applied pressure.

502047

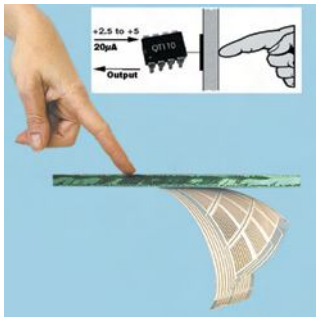
Sensitivity	Pins/Package	Pressure Range (kPa)	O/P Voltage	Op Temp. Min/Max (°C)	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
Electric Field Image Detector									
-	24/WSOIC	-	-	0/90	MC34940EG	SMD 155-5599	2.44	2.09	1.63
Manifold Pressure Detector							1+	10+	100+
20mV/kPa	6/867-08	20-250	-	-40/125	MPX4250A	155-5603	18.47	15.83	12.31
20mV/kPa	8/482A-01	20-250	0.2-4.9V	-40/125	MPXA4250AC6U	SMD 155-5609	17.76	15.22	11.85
25.5mV/kPa	6/867-08	20-200	0.3-4.9V	-40/125	MPX4200A	139-1621	18.44	13.56	11.92
54mV/kPa	6/867-08	20-105	-	-40/125	MPX4100A	155-5602	20.94	17.94	13.96
54mV/kPa	8/482A-01	0-102	0.25-4.95V	-40/125	MPXA4101AC6U	SMD 156-6183	14.36	12.92	11.74
54mV/kPa	8/1317-04	15-102	0.25-4.95V	-40/125	MPXH6101A6U/6T1	SMD 139-1620	16.37	14.58	12.19
Piezoresistive Pressure Detector							1+	10+	100+
5.0µV/V/mmHg	4/423A	0-40	3.006mV	15/40	MPX2300DT1	145-7142	7.32	5.71	5.13
0.2mV/kPa	5/1320A-02	0-200	40mV FSD	-40/125	MPXM2202AS	SMD 155-5612	12.79	9.13	7.11
0.2mV/kPa	5/1320A-02	0-200	40mV FSD	-40/125	MPXM2202GS	SMD 155-5614	12.79	9.13	7.11
0.2mV/kPa	4/344B-01	0-200	40mV FSD	-40/125	MPX2202GP.	156-6173	14.06	12.50	10.22
0.2mV/kPa	4/344B-01	0-200	40mV FSD	-40/125	MPX2200AP	145-7149	8.58	7.11	6.93
0.4mV/kPa	8/1369-01	0-100	40mV FSD	-40/125	MPX2102GP	SMD 139-1615	10.00	7.81	6.82
0.4mV/kPa	4/344-15	0-100	40mV FSD	-40/125	MPX2202A	139-1617	14.23	12.40	10.60
0.4mV/kPa	4/344C-01	0-100	40mV FSD	-40/125	MPX2102D	139-1618	14.75	11.34	9.97
0.4mV/kPa	4/344B	0-100	40mV FSD	-40/125	MPX2100AP	145-7146	8.58	6.67	6.27
0.4mV/kPa	4/344C	0-100	40mV FSD	-40/125	MPX2100DP	145-7148	8.53	6.51	6.34
0.4mV/kPa	5/1320A-02	0-100	40mV FSD	-40/125	MPXM2102AS	SMD 145-7164	6.55	5.12	4.47
0.8mV/kPa	4/344C-01	0-50	40mV FSD	-40/125	MPX2053DP	156-6171	10.59	9.42	7.69
0.8mV/kPa	4/344B-01	0-50	40mV FSD	-40/125	MPX2053GP.	156-6172	14.06	12.50	10.22
0.8mV/kPa	5/1320A-02	0-50	40mV FSD	-40/125	MPXM2053GS	SMD 145-7167	6.55	4.67	4.04
0.8mV/kPa	8/1369-01	0-50	40mV FSD	-40/125	MPXV2053GP	SMD 160-8914	8.29	7.47	6.79
0.8mV/kPa	8/1351-01	0-50	40mV FSD	-40/125	MPXV2053DP	SMD 160-8917	8.29	7.47	6.79
1.2mV/kPa	4/344C-01	0-50	60mV FSD	-40/125	MPX53DP	156-6178	10.49	9.33	7.63
2.5mV/kPa	4/344B-01	0-10	25mV FSD	-40/125	MPX2010GP	145-7145	8.53	6.43	6.27
2.5mV/kPa	5/1320A-02	0-10	25mV FSD	-40/125	MPXM2010GS	SMD 155-5611	12.79	9.13	7.11
2.5mV/kPa	4/344C-01	0-10	25mV FSD	-40/125	MPX2010DP.	160-8910	10.51	9.47	8.60
2.5mV/kPa	8/1369-01	0-10	25mV FSD	-40/125	MPXV2010GP	SMD 160-8913	8.29	7.47	6.79
2.5mV/kPa	8/1351-01	0-10	25mV FSD	-40/125	MPXV2010DP	SMD 160-8916	8.29	7.47	6.79
2.5mV/kPa	4/423A-03	0-10	25mV FSD	15/40	MPXC2011DT1	160-8920	7.11	6.39	5.81
3.5mV/kPa	4/344B-01	0-10	35mV FSD	-40/125	MPX10GP	145-7158	8.33	5.94	5.13
3.5mV/kPa	4/344C-01	0-10	35mV FSD	-40/125	MPX10DP	145-7144	8.33	6.51	5.68
4.5mV/kPa	6/867-08	0-1000	0.2-4.7V	-40/125	MPX5999D	156-6182	12.59	11.20	9.15
5.5mV/kPa	4/344C-01	0-10	55mV FSD	-40/125	MPX12DP	156-6169	9.33	7.63	6.78
5.5mV/kPa	4/344B-01	0-10	55mV FSD	-40/125	MPX12GP	156-6170	9.33	7.63	6.78
6.4mV/kPa	6/867C-05	0-700	0.2-4.7V	-40/125	MPX5700DP	155-5600	18.47	15.83	12.31
6.4mV/kPa	6/867-08	0-700	0.2-4.7V	-40/125	MPX5700D	139-1622	11.91	8.49	7.34
6.4mV/kPa	6/867B-04	0-700	0.2-4.7V	-40/125	MPX5700GP	145-7140	11.91	9.31	8.12
6.4mV/kPa	6/867E-03	0-700	0.2-4.7V	-40/125	MPX5700GS	145-7141	13.83	10.77	9.70
6.4mV/kPa	6/867B-04	15-700	0.2-4.7V	-40/125	MPX5700AP	139-1623	17.64	13.56	11.92
6.4mV/kPa	6/867-08	15-700	0.2-4.7V	-40/125	MPX5700A	145-7168	11.91	9.31	8.12
6.4mV/kPa	6/867E-03	15-700	0.2-4.7V	-40/125	MPX5700AS	145-7174	13.53	10.52	9.48
9.0mV/kPa	6/867-08	0-500	0.2-4.7V	-40/125	MPX5500D	156-6181	12.59	11.20	9.15
9.0mV/kPa	6/867C-05	0-500	0.2-4.7V	-40/125	MPX5500DP	145-7143	13.83	10.77	9.70
16.2mV/kPa	8/1317-04	20-304	0.3-4.9V	-40/125	MPXH6300A6U	SMD 145-7171	12.80	10.00	8.26
18.8mV/kPa	6/867C-05	0-250	0.2-4.9V	-40/125	MPX4250DP	155-5608	18.47	15.83	12.31
18.8mV/kPa	6/867B-04	0-250	0.2-4.9V	-40/125	MPX4250GP	155-5610	15.83	13.85	12.31
20mV/kPa	6/867B-04	20-250	0.2-4.9V	-40/125	MPX4250AP	145-7153	11.10	8.67	7.57
20.4mV/kPa	8/1317-04	15-700	0.3-4.9V	-40/125	MPXH6250A6U/6T1	SMD 139-1624	15.47	13.03	11.47
38.26mV/kPa	8/482-01	-115-0	0.2-4.6V	-40/125	MPXV4115V6U	SMD 145-7166	15.63	14.86	13.37
45mV/kPa	6/867-08	0-100	0.2-4.7V	-40/125	MPX5100D	155-5607	18.47	15.83	12.31
45mV/kPa	6/867B-04	0-100	0.2-4.7V	-40/125	MPX5100GP	156-6177	12.59	11.20	9.15
45mV/kPa	6/867C-05	0-100	0.2-4.7V	-40/125	MPX5100DP	145-7157	13.83	10.77	9.70
45mV/kPa	8/482A-01	0-100	0.2-4.7V	-40/125	MPXV5100GC6U	SMD 160-8911	11.85	10.66	9.69
45mV/kPa	8/1351-01	0-100	0.2-4.7V	-40/125	MPXV5100DP	SMD 160-8912	11.85	10.66	9.69
45mV/kPa	6/867-08	15-115	0.2-4.7V	-40/125	MPX5100A	145-7155	11.91	9.31	8.12
45mV/kPa	6/867B-04	15-115	0.2-4.7V	-40/125	MPX5100AP	145-7156	11.91	9.31	8.12
45.9mV/kPa	8/482A-01	15-115	0.2-4.8V	-40/125	MPXA6115AC6U	SMD 145-7181	12.80	10.00	8.26

RL Re-reeling available

Sensitivity	Pins/Package	Pressure Range (kPa)	O/P Voltage	Op Temp. Min/Max (°C)	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
Electric Field Image Detector									
45.9mV/kPa	8/1317-04	15-115	0.2-4.8V	-40/125	MPXH6115A6U	SMD 145-7169	12.80	10.00	8.26
45.9mV/kPa	8/1317A-03	15-115	0.2-4.8V	-40/125	MPXH6115AC6U	SMD 145-7170	12.80	10.00	8.26
45.9mV/kPa	6/867	15-115	0.2-4.8V	-40/125	MPX4115A	145-7150	11.10	8.67	7.57
45.9mV/kPa	6/867B	15-115	0.2-4.8V	-40/125	MPX4115AP	145-7151	11.10	7.91	6.83
45.9mV/kPa	6/867E	15-115	0.2-4.8V	-40/125	MPX4115AS	145-7152	18.44	14.37	12.93
45.9mV/kPa	8/482	15-115	0.2-4.8V	-40/125	MPXA4115A6U	SMD 145-7162	17.06	12.69	11.01
45.9mV/kPa	8/482A	15-115	0.2-4.8V	-40/125	MPXA4115AC6U	SMD 145-7163	15.36	11.96	10.77
51mV/kPa	6/867-08	0-105	0.3-4.9V	-40/125	MPX4105A	156-6175	14.93	12.20	10.84
54mV/kPa	6/867-08	0-80	0.58-4.9V	-40/105	MPX4080D	156-6174	14.93	12.20	10.84
54mV/kPa	8/482	20-105	0.3-4.9V	-40/125	MPXA4100A6U	SMD 145-7161	17.06	12.69	11.01
90mV/kPa	8/1369-01	0-50	0.2-4.7V	-40/125	MPXV5050GP	SMD 160-5502	13.43	12.20	11.20
90mV/kPa	6/867C-05	0-50	0.2-4.7V	-40/125	MPX5050DP	155-5606	18.47	15.83	12.31
90mV/kPa	6/867B-04	0-50	0.2-4.7V	-40/125	MPX5050GP	145-7154	11.91	9.31	8.12
450mV/kPa	6/867-05	0-10	0.2-4.7V	-40/125	MPX5010DP	155-5605	18.47	15.83	12.31
450mV/kPa	6/867B-04	0-10	0.2-4.7V	-40/125	MPX5010GP	156-6176	12.59	11.20	9.15
766mV/kPa	8/1351-01	0-6	0.2-4.7V	-10/60	MPXV4006DP	SMD 155-5615	15.83	13.85	12.31
766mV/kPa	8/1369-01	0-6	0.2-4.7V	-10/60	MPXV4006GP	SMD 160-8922	10.76	9.69	8.81
1.0V/kPa	8/1351-01	0-3.92	1.0-4.9V	0/85	MPXV5004DP	SMD 145-7165	13.83	10.77	9.70
1.0V/kPa	8/482C-03	0-3.92	1.0-4.9V	0/85	MPXV5004GC7U	145-7173	10.76	7.68	6.63
1.0V/kPa	8/482A-01	0-3.92	1.0-4.9V	-30/100	MPXV5004GC6U	SMD 160-8918	12.31	11.08	10.08
1.0V/kPa	8/1369-01	0-3.92	1.0-4.9V	-30/100	MPXV5004GP	SMD 160-8919	12.31	11.08	10.08
1.0V/kPa	8/1368-01	0-3.92	1.0-4.9V	0/85	MPXV5004GVP	SMD 160-8921	11.20	10.08	9.15

QProx™ Charge-Transfer Capacitance Sensor ICs

QTouch



This is a proximity sensing technology utilising the minute changes in capacitance when a target sensing area is approached.
The technology allows for touch or proximity sensing through almost any dielectric which offers an almost limitless number of applications where normal mechanical switches are used. The range of devices includes variants which have enhanced properties, such as matrix sensors in which keyboards may be fabricated behind sealed glass or perspex, level sensors to detect the presence of liquids, extended range sensing to detect through a dielectric such as glass, plastic, stone or ceramic up to thicknesses of 5cm or more.

Features:
- Less expensive than many mechanical switches
- Touch or proximity sensing through any dielectric
- 100% autocal for life - no adjustments required
- QT11x series features 2.5V to 5V, low current single supply operation
- Active high or active low output variants
- Turn metal-bearing objects into intrinsic sensors

Applications:
- Pushbutton replacement
- Machine controls
- Lighting controls
- Moisture detection
- Level sensing
- Security sensing
- Robotic touch sensors
- Vandal resistant controls

228798

	Pins	Description	Mftrs. List No.	Order Code	Price Each 1+	25+	100+
110	8/DIP	Charge Transfer touch Sensor, auto calibration, piezo sounder feedback, pulse or toggle O/P, 2.5V to 5.0V operation @ 20µA.	QT110-DG	977-5722	2.26	1.33	1.23
6684	8/SOIC	Charge Transfer touch Sensor, auto calibration, piezo sounder feedback, pulse or toggle O/P, 2.5V to 5.0V operation @ 20µA.	MAX6684ESA+	SMD 138-0015	2.31	1.70	1.44
110	8/SOIC	SMD version of the QT110, -40 to +85°C	QT110-ISG	SMD 977-5889	2.44	1.42	1.32
113	8/SOIC	SMD version of the QT113, -40 to +85°C	QT113-ISG	SMD 977-5900	2.44	1.42	1.32
1115	8/SOIC	SMD version of the QT115, -40 to +85°C	QT115-ISG	SMD 977-5919	2.31	1.44	1.32
118	8/DIP	Charge Transfer touch Sensor, variable gain with piezo beeper drive, toggle & pulse output mode.	QT118H-DG	977-5927	3.08	2.56	2.21
118	8/SOIC	SMD version of the QT118, -40 to +85°C	QT118H-ISG	SMD 977-5935	2.33	1.37	1.26
140	28/SSOP	SMD Charge Transfer touch Sensor, Four channels, 4v to 5v operation, -40 to +85°C	QT140-ASG	SMD 977-5811	3.68	3.30	3.14
150	28/SSOP	SMD Charge Transfer touch Sensor, Five channels, 4v to 5v operation, -40 to +85°C	QT150-ASG	SMD 977-5838	3.65	2.74	2.36
—	—	Evaluation board for the QT140/150/160 sensor IC with 6 backlighted keys	E160	121-7210	50.07	– –	– –
300	8/SOIC	SMD version of the QT300	QT300-ISG	SMD 120-8553	4.24	3.16	2.72
310	8/SOIC	SMD version of the QT310	QT310-ISG	SMD 120-8551	2.05	1.54	1.32
320	8/SOIC	SMD version of the QT320	QT320-ISG	SMD 120-8552	2.71	1.59	1.47
—	—	Evaluation board for the QT310 and QT320	E3B	121-8892	13.36	– –	– –
29002	8/ODFN	SMD version of the QT60040	ISL29002IROZ	136-0985	1.58	1.38	1.23
29003	6/ODFN	SMD version of the QT60040	ISL29003IROZ-T7	SMD 136-0986	1.74	1.49	1.38
60161	44/TQFP	QMatrixTM touch sensor to create 16 keys through any dielectric, SPI, UART and Parallel interface, AKS™ Adjacent key supression, individual sensitivity setting of each key, panel thicknesses of upto 5cm	QT60161B-ASG	SMD 977-5862	4.46	4.03	3.57
60326	44/TQFP	QMatrixTM touch sensor to create 16 keys through any dielectric, SPI, UART and Parallel interface, AKS™ Adjacent key supression, individual sensitivity setting of each key, panel thicknesses of upto 5cm	QT60326-ASG	SMD 977-5870	8.18	7.32	6.61
—	—	Evaluation board for the QT60161 IC with serial PC interface, includes sample 4x4 matrix panel, cables, QmBtn software for windows 95/98/NT	E616	121-7211	120.16	– –	– –

E6248 Evaluation Kit

QTouch



The E6248 Evaluation Kit is designed for the evaluation and develpment of the QT60248 and QT60168-based behind-the-panel touch matrix circuits. All the required circuitry and materials are included to make a fully-functioning, 24 key matrix touch control. The board has a virtual RS232 serial interface via the USB port that allows connection to a PC for function setup and data viewing. In 'Standalone Board Mode' a 24 key matrix panel is integrated into the E6248 together with LED key indicators. A PC running Windows 2000, XP or upwards, with a free USB socket is required.
A 14-pin header allows connection to an external power matrix if required. The board is operated by connection to a live USB socket.

Kit Includes:
- 1x E6248 eval board
- 1x USB cable
- 1x SPI cable for direct connection to the QT60248
- 1x CD-ROM with software and drivers
- 1x User guide
- 2x QT60248 samples

423037

		Order Code	Price Each
E6248	Evaluation Board for the QT60168 (16 Key) & QT60248 (24 Key) mAtrix Chips	109-9145	144.44

Evaluation Kit For QT100

QTouch



The E100S evaluation board demonstrates the QT100 chip in a typical application; a simple through-panel single-switch. The E100S illustrates how a QTouch solution requires only a very simple circuit design and a minimum of external components The kit includes the board and 2 additional QT100 ICs.

493085

Mftrs. List No.	Order Code	Price Each 1+
E100S KIT	132-6145	11.48

RL Re-reeling available

Sensors - Capacitive/Touch/Pressure - continued

Touch Sensors, Matrix Chips & Sliders

QTouch

423039

	Pins	Pkg	Description	Mftrs. List No.	Order Code	1+	Price Each 10+	100+
100	6	WSON	Charge-Transfer QTouch™ IC	QT100A-ISG	NEW SMD 160-8963●	1.26	1.00	0.84
100	10	MSOP	Charge-Transfer QTouch™ IC	QT100A-ISMG	NEW SMD 160-8965●	1.08	0.86	0.72
110	8	SOIC	QTouch™ Sensor IC	QT110A-ISG	NEW SMD 160-8966●	1.93	1.54	1.28
113	8	SOIC	Charge-Transfer Touch Sensor IC	QT113A-ISG	NEW SMD 160-8967●	1.93	1.54	1.28
118	8	SOIC	Charge-Transfer Touch Sensor IC	QT118HA-ISG	NEW SMD 160-8968●	1.93	1.54	1.28
220	20	SSOP	2 Key QTouch Sensor IC	QT220-ISSG	SMD 109-9134●	2.75	2.13	1.80
240	20	SSOP	4 Key QTouch Sensor IC	QT240-ISSG	SMD 109-9135●	3.08	2.39	2.04
–	–	–	Evaluation Board for the QT220 (2 Key) & QT240 (4 Key) Touch Sensors	E240B	109-9141●	20.60	– –	– –
511	14	TSSOP	QWheel Touch Sensor IC	QT511-ISSG	SMD 109-9150●	10.80	6.99	5.94
1081	32	QFN	8 Key QTouchSensor IC	QT1081-ISG	SMD 136-1791●	2.88	1.78	1.51
1100	48	SSOP	10 Key QTouch Sensor IC	QT1100A-ISG	SMD 109-9138●	5.60	4.56	4.06
1101	32	QFN	10 Key QTouch Sensor IC	QT1101-ISG	SMD 109-9137●	4.47	2.84	2.53
1103	32	QFN	10 Key QTouchSensor IC	QT1103-ISG	SMD 136-1792●	2.94	1.72	1.47
1106	32	QFN	QTouch self-contained charge-transfer capacitive controller	QT1106-ISG	SMD 127-5992●	3.42	2.67	2.16
60160	32	MLF	16 KEY QMATRIX™ TOUCH SENSOR IC	QT60160-ISG	SMD 132-3409●	4.05	2.09	2.03
60168	32	TQFP	16 Key QmAtrix IC	QT60168-ASG	SMD 109-9146●	4.87	4.02	3.46
60240	32	MLF	24 KEY QMATRIX™ TOUCH SENSOR IC	QT60240-ISG	SMD 132-3410●	4.36	2.47	2.41
60248	32	TQFP	24 Key QmAtrix IC	QT60248-ASG	SMD 109-9147●	6.22	5.20	4.58
60486	44	TQFP	48 Key QmAtrix IC	QT60486-ASG	SMD 109-9148●	9.22	7.63	6.86

E6486 Evaluation Board

QTouch



The E6486 Evaluation Board allows the development of control panels using the QT60486 Qmatrix™ Sensing Chip. The chip is a matrix touch controller and can sense upto 48 keys using a patented scanned capacitive matrix. The PCB is is single sided and can be warped to be fitted inside curved or small control panels if necessary. The E6486 evaluation board is compatible with a PC and comes with QmBtn™ software which allows alteration of internal parameters in order to suit the desired application. The signal can be viewed in real time. The E6486 comes with a sensing foil, this can be adhered to the back of a control panel of any shape depending on the application, the sensitivity can be adjusted on a key to key basis and the touch sensor is not affected by moisture. Possible uses for this touch sensitive equipment include kitchen appliances and other domestic equipment as well as industrial use.

372197

Mftrs. List No.	Order Code	Price Each
E6486	121-2966●	152.60

QWHEEL/QSLIDE + 7 KEY Evaluation Kit

QTouch



This kit is designed for the evaluation and development of applications using theQT60160/QT60240 IC. The kit includes an evaluation assembly, cables and QmBtn software. Each E6240 assembly has a serial (USB) interface allowing connection to a computer for control and data viewing via QmBtn computer software.
This unique IC allows designers to create controls for various applications such as mobile phones, remote controls and MP3 players, amongst others.

Kit Includes:

- 1 x E6240 assembly (fitted with a QT60240 IC)
- 1 x USB-computer cable
- 2 x sample QT60240 ICs
- 1 x CD-ROM containing QmBtn software version 3.29 or later, User Manual and other information

451883

Mftrs. List No.	Order Code	Price Each 1+
E1106 KIT	129-5475●	118.46

16 and 24 Key Matrix Evaluation Kit

QTouch



QT1106 charge-transfer (QT) QTouchTM IC is a self-contained, patented charge-transfer capacitive controller capable of detecting near-proximity or touch on up to seven electrodes and a wheel. It allows electrodes to project sense fields through any dielectric such as glass or plastic. These electrodes are laid out as a scroller (e.g. a wheel or slider) plus seven additional independent keys. Each key channel can be tuned for a unique sensitivity level by simply changing a corresponding external Cs capacitor, whereas the wheel/slider's sensitivity can be changed dynamically through SPI commands.
The wheel/slider uses a simple, inexpensive sensing element between three connection points. The QT1106 can report a single rapid touch anywhere along the sense elements, or it can track a finger moving along the wheel/slider's surface in real time. The device is designed specifically for human interfaces, like control panels, appliances, gaming devices, lighting controls, remote controls, or anywhere a mechanical wheel, slider, or switch may be found.

- Patented charge-transfer (QT) design
- Wheel or Slider plus seven extra keys
- QMagic™ proximity effect for approach on function
- Fast thermal drift tracking
- 2.8V ~ 5.0V single supply operation
- 100% autocal for life - no adjustments required
- Spread-spectrum bursts for superior noise rejection

451897

Mftrs. List No.	Order Code	Price Each 1+
E6240 KIT	129-5474●	72.14

E102 Evaluation Kit

QTouch

New



This kit is designed for the evaluation and development of applications using the QT102-ISG Integrated Circuit. It demonstrates the device in an example through-panel, toggle mode application. Bond pads, located on the evaluation board, provide a convenient method to connect external sensors or to control applications using the on-board sensor.

Kit Contents:

- 1x E102 Evaluation Board
- 1x CR2032 Battery
- 2x QT102-ISG ICs Samples
- 1x E102 User Guide
- Example Ct (47nF, 100nF) & Rt (51kΩ, 150kΩ) Components

500452

Mftrs. List No.	Description	Order Code	Price Each
E102 KIT	E102 Evaluation Kit	154-7417●	14.00

E1081 KIT

QTouch



This evaluation kit is designed for the evaluation and development of applications using the QT1081-ISG 8-Key QTOUCH™ Sensor IC.

Kit Contents

- 1 x E1081 Evaluation Assembly (E1081 Main PCB and E1081 Keyboard)
- 1 x CR2032 Battery, 3V, 235mAh
- 2 x sample QT1081-ISG ICs
- 1 x E1081 User Manual

475926

Mftrs. List No.	Order Code	Price Each
E1081 KIT	134-1259●	40.18

E1103 Evaluation Kit

QTouch

New



The E1103 evaluation kit contains a motherboard and a removable ten-button keypad. The boards illustrate the capabilities of the QT1103 IC, including ten-channel touch control, auto recalibration, stuck key detect and Adjacent Key Suppression (AKS™).

Kit Contents:
- 1x E1103 Evaluation Assembly (E1103 Main PCB and E1103 Keyboard PCB)
- 1x CR2032 Battery, 3V, 235mAh
- 2x sample QT1103-ISG ICs
- 1x E1103 User Guide

500453

Mftrs. List No.	Description	Order Code	Price Each
E1103 KIT	E1103 Evaluation Kit for QT1103	**154-7418●**	23.34

Capacitance to Digital Converters & Controllers

ANALOG DEVICES

422928

	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
7142	32	LFCSP	Programmable Controller for Capacitance Touch Sensors	AD7142ACPZ	NEW SMD-**149-8724●**	2.18	1.59	1.25
7143	16	LFCSP	Programmable Controller for Capacitance Touch Sensors	AD7143ACPZ	NEW SMD-**149-8725●**	2.40	1.71	1.27
7150	10	MSOP	Dual Channel Capacitance Converter 0 to 13 pF for Proximity Sensing Applications	AD7150BRMZ	NEW SMD-**156-3482●**	2.55	2.23	1.80
7745	16	TSSOP	24-Bit, 1-Channel Capacitance to Digital Converter	AD7745ARUZ	SMD-**107-8333●**	8.11	6.22	5.27
7746	16	TSSOP	24-Bit, 2-Channel Capacitance to Digital Converter	AD7746ARUZ	SMD-**107-8332●**	8.73	6.74	5.72
7747	16	TSSOP	24-Bit Capacitance-to-Digital Converter with Temperature Sensor	AD7747ARUZ	NEW SMD-**149-8726●**	8.11	6.22	5.27

FirstTouch™ Kit

CYPRESS PERFORM



The PSoC® FirstTouch™ Kit allows the user to run touch sensing demonstration projects. These include CapSense Touch Sensing, Temperature Sensing, Light Sensing and CapSense Proximity Sensing.

The kit includes a USB interface dongle (FTPC bridge), and a multifunction expansion card (FTMF Expansion Card).The FTMF Expansion Card contains a CY8C21434 PSoC that acts as the host for various demonstrations.The FTPC bridge portion of the kit contains a programmed Cypress CY8C24894 PSoC that performs all of the USB and expansion card interface functions. The firmware that is run by this PSoC performs the primary functions listed.

Primary Functions:
- Functions as a USB physical and logical interface
- Provides PSoC MiniProg emulation for In System Serial Programming (ISSP™) of the expansion cards
- Provides communications with the PSoC programming utility
- Performs HID data channel communications
- Performs expansion card I2C communications
- Performs expansion card SPI communications

The FTMF Expansion Card supports the following PSoC powered peripheral applications:
- CapSense Touch Button
- CapSense 7-Element Touch Slider
- CapSense Non-Touch / Proximity Detection
- Ambient light-level detection
- Thermistor-based temperature measurement

480054

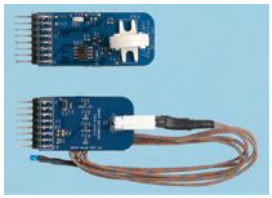
Mftrs. List No.	Order Code	Price Each 1+
CY3270	**143-1701●**	22.76

PSoC FirstTouch Starter Kit & Environmental Sensing Kit

CYPRESS PERFORM



CY3271



CY3271-EXP1

New

The **CY3271** Starter Kit allows evaluation of the PSoC programmable system-on-chip and CyFi low-power RF in CapSense™ touch-sensing, proximity-sensing, temperature-sensing, and light-sensing applications. It includes a PC dongle with RF, an RF expansion card with power amplification for long-range applications, a multifunction expansion card, and two battery packs (2xAAA and CR2032). It also features the PSoC Designer IDE and Cypress's Sense and Control Dashboard software.

The **CY3271-EXP1** is an expansion kit for the CY3271 PSoC FirstTouch Starter Kit. Included in the kit are two boards; the Weather Station Expansion Board (atmospheric pressure, humidity, temperature, and ambient light) and the Pigtail Thermistor Expansion Board. The Sense & Control Dashboard (SCD) from the CY3271 Kit lets users quickly setup and monitor a wired or wireless sensor network through an intuitive visual dashboard. Easily demonstrate features such as data logging, data aggregation, alarms, and sensor calibration for nearly any type of sensor.

526320

Mftrs. List No.	Description	Order Code	Price Each
CY3271	PSoC FirstTouch Starter Kit	**167-2996●**	48.64
CY3271-EXP1	Environmental Sensing Kit	**167-2997●**	69.49

Universal PSoC® CapSense™ Controller Development Kit

CYPRESS PERFORM



New

The CY3280-BK1 Universal PSoC® CapSense™ Controller Kit is designed for easy development and debugging of any CapSense design. It includes pre-defined control circuitry and plug-in hardware, along with controller boards for both the CY8C20x34 and CY8C21x34 PSoC devices. It also offers a breadboard module and a module for implementing up to five buttons and a slider with sample overlays to encompass a wide variety of designs.

The kit works with both PSoC Designer™ and PSoC Express™, and allows for monitoring and tuning of CapSense designs via an I2C-to-USB bridge that is included in the kit. Cypress is unique in offering real-time monitoring and tuning, which can significantly reduce development cycles. The kit supports both the CapSense Successive Approximation (CSA) and Sigma-Delta (CSD) capacitive sensing methods. CSA offers outstanding interference immunity and low power consumption, making it ideal for portable consumer applications. CSD delivers flawless operation in wet conditions, and offers superb temperature response, ideal for white goods and other moisture-sensitive systems.

525318

Mftrs. List No.	Description	Order Code	Price Each
CY3280-BK1	Universal CapSense Controller Kit	**166-4740●**	128.84

CapSense Express Evaluation Kits

CYPRESS PERFORM



New

These CapSense Express evaluation kits enables designers to replace mechanical buttons or sliders (dependant on kit) by implementing touch sensing designs in minutes with the newest CapSense Touch Sensing Family, CapSense Express. With the PSoC Express™ visual embedded system design tool and CapSense Express configuration tool, designers configure, monitor, and tune I/Os for buttons or sliders, LEDs, and other general purpose I/Os over I2C in a real time using a graphical user interface.

Features:
CY3218-CAPEXP1:
- Up to 10 I/O for Buttons
- 3 CapSense buttons with Monitoring and Tuning for Sensitivity Adjustments
- 3 Backlighting LEDs
- 3 Status LEDs
- 1 Mechanical button

CY3218-CAPEXP2:
- Up to 10 I/O for Sliders
- 5 Segment CapSense Slider with Monitoring and Tuning for Sensitivity Adjustments
- 4 Status LEDs
- 1 Mechanical button

CY3218-CAPEXP3:
- Up to 4 I/O for Buttons
- 2 CapSense buttons with Monitoring and Tuning for Sensitivity Adjustments
- 2 Status LEDs

510419

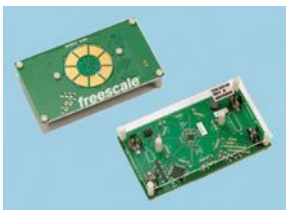
Mftrs. List No.	Description	Order Code	Price Each
CY3218-CAPEXP1	CY3218-CAPEXP1 CapSense Express™ Kit	**160-1047▲**	28.86
CY3218-CAPEXP2	CY3218-CAPEXP2 CapSense Express™ Kit	**160-1048▲**	28.86
CY3218-CAPEXP3	CY3218-CAPEXP3 CapSense Express™ Kit	**160-1049▲**	28.86

Sensors - Capacitive/Touch/Pressure - continued

MPR083 8-Position Rotary Sensor Controller



KITMPR083EVM



DEMOMPR083

The 8-position rotary proximity sensor controllers are Inter-Integrated Circuit Communication (I2C) driven Capacitive Touch Sensor Controllers, optimized to manage an 8-position rotary shaped capacitive array. The device can accommodate a wide range of implementations through 3 output mechanisms, and many configurable options.
The evaluation kit allows designers to easily evaluate the proximity sensor controller in any application, specifically capacitive touch sensing. The connector offers access to all electrodes, enabling you to connect the touch pad board or any other electrode design of your choosing.
The demonstration board is a stand-alone board that offers a simple demonstration of the capability of the 8-position rotary proximity sensor controller using an example configuration of 8 touchpads.

Evaluation kit and demonstration board features:
- Sample electrode board demonstrates rotational sliders
- Machined plastic cover for front panel non-contact touch evaluation
- Access to all 8 electrodes
- A Graphical User Interface that gives the user the ability to set many operational parameters (evaluation kit only)
- USB Connectivity (evaluation kit only)

Evaluation kit contents:
- MPR083 Proximity Sensor Controller
- Sample rotary pads
- Standard 15 pin header
- LEDs - 1 for PWR, 1per Pad
- Resistors - for each electrode
- Processor - MC68HC908JB8JDW
- 8 pad Rotary - Reference design
- USB connectivity for power and PC access
- USB cable

MPR083 features:
- 25 μA low power mode
- Variable low power mode response time (10 ms - 10 s)
- Rejects unwanted multi-key detections from EMI events such as PA bursts or user handling
- Ongoing pad analysis and detection is not reset by EMI events
- Data is buffered in a FIFO for shortest access time
- IRQ output advises when FIFO has data
- System can set interrupt behavior as immediate after event, or program a minimum time between successive interrupts
- Current rotary position is always available on demand for polling-based systems
- Sounder output can be enabled to generate key-click sound when rotary is touched
- Two hardware selectable I2C addresses allowing two devices on a single I2C bus
- Configurable real-time auto calibration

519572

Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
8-Position Rotary Proximity Capacitive Touch Sensor Controller	MPR083EJ	SMD 160-5433	1.64	1.37	1.18
8-Position Rotary Proximity Capacitive Touch Sensor Controller	MPR083Q	SMD 160-5435	1.64	1.37	1.18
MPR083 Evaluation Board	KITMPR083EVM	160-5431	81.18	– –	– –
Demonstration Board for MPR083	DEMOMPR083	160-5432	20.55	– –	– –

MPR084 8-Pad Touch Sensor Controller



KITMPR084EVM

The MPR084 is an Inter-Integrated Circuit Communication (I2C) driven Capacitive Touch Sensor Controller, optimized to manage an 8-touch pad capacitive array. The device can accommodate a wide range of implementations through 3 output mechanisms, and many configurable options.
The evaluation kit allows designers to easily evaluate the touch sensor controller in any application, specifically capacitive touch sensing. The connector offers access to all electrodes, enabling you to connect the touch pad board or any other electrode design of your choosing.

Evaluation kit contents:
- MPR084 Proximity Sensor Controller
- Sample key pads
- Standard 15 pin header
- LEDs - 1 for PWR, 1per Pad
- Resistors - for each electrode
- Processor - MC68HC908JB8JDW
- 8 key pad - Reference design
- USB connectivity for power and PC access
- USB cable

Evaluation kit features:
- Sample electrode board demonstrates rotational sliders
- Machined plastic cover for front panel non-contact touch evaluation
- Access to all 8 electrodes
- A Graphical User Interface that gives the user the ability to set many operational parameters (evaluation kit only)
- USB Connectivity (evaluation kit only)

MPR084 features:
- 25 μA low power mode
- Variable low power mode response time (10 ms - 10 s)
- Rejects unwanted multi-key detections from EMI events such as PA bursts or user handling
- Ongoing pad analysis and detection is not reset by EMI events
- Data is buffered in a FIFO for shortest access time
- IRQ output advises when FIFO has data
- System can set interrupt behavior as immediate after event, or program a minimum time between successive interrupts
- Current rotary position is always available on demand for polling-based systems
- Sounder output can be enabled to generate key-click sound when rotary is touched
- Two hardware selectable I2C addresses allowing two devices on a single I2C bus
- Configurable real-time auto calibration

519614

Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
8-Pad Touch Sensor Controller Proximity Capacitive Touch Sensor Controller	MPR084EJ	SMD 160-5437	1.64	1.37	1.18
8-Pad Touch Sensor Controller Proximity Capacitive Touch Sensor Controller	MPR084Q	SMD 160-5438	1.64	1.37	1.18
MPR084 Evaluation Board	KITMPR084EVM	160-5436	81.18	– –	– –

DEMO1985MC34940E Demonstration Kit

For the MC34940 E-field Sensing Device

This demo Kit features the MC34940 e-field sensing device that is intended for applications where non-contact sensing of objects is desired. It contains circuitry necessary to generate a low-level electric field and measure the field loading caused by objects moving into the field. The kit allows for designers to easily evaluate the MC34940 in any application. The connector offers access to all electrodes, enabling you to connect your own touch pad design or any other electrode arrangement of your choosing.

Features:
- Supports up to 7 Electrodes
- Shield Driver for Driving Remote Electrodes Through Coaxial
- High-Purity Sine Wave Generator Tunable with External Resistor
- Response Time Tunable with External Capacitor
- Can support up to 28 touch pad sensors

527779

Mftrs. List No	Description	Order Code	Price Each
DEMO1985MC34940E	Demonstration Kit for MC34940 E-field Sensing Device	157-9743	51.27

KITMC33941EVM Evaluation Kit



This evaluation kit features the MC33941 proximity sensor that is intended for applications where non-contact sensing of objects is desired. It contains circuitry necessary to generate a low-level electric field and measure the field loading caused by objects moving into the field. The kit allows for designers to easily evaluate the MC33941 in any application, specifically capacitive touch sensing. The connector offers access to all electrodes, enabling you to connect the included touch pad board or any other electrode design of your choosing.

Features:
- Sample electrode board demonstrates keys, linear and rotational sliders, and proximity pad
- Machined plastic cover for front panel non-contact touch evaluation
- Access to all 7 electrodes and shield drive through easy-to-use connector
- Adjustable sensitivity through jumpers (tunable frequency)
- Adjustable response time through jumpers

527750

Mftrs. List No	Description	Order Code	Price Each
KITMC33941EVM	Evaluation Kit for the MC33941	157-9751●	70.13

AccessTouch

Touch Sensitive Keyed Access Controller



AccessTouch is an integrated combination key access controller using capacitive touch sensing technology and featuring tough-sensitive keys for vandal-proof operation. The PCB keyboard shown can be overlaid by a non-metallic covering. It automatically calculates signal averages to compensate for track capacitance, water splashes, etc. A buzzer output provides audio feedback as buttons are pressed.

The unpopulated board includes provision for:
- 20-pin, 28-pin and 40-pin DIL USB devices
- Type B socket, suitable for standard USB cables
- Type A plug, suitable for USB extension cables
- Prototyping area
- RS232 line driver, 9-pin sockets in DTE and DCE configurations
- RS485 line driver
- Coin cell battery
- SPI serial memory
- 28-pin DIL host processor
- 3 active low LEDs
- 3 active high LEDs
- 3 jumpers
- Photodiode
- Thermistor

525828

Mftrs List No.	Description	Order Code	Price Each
ACCESS-TOUCH	Pre-Programmed 20-Pin SSOP	SMD 167-0841●	6.64
ACCESS-TOUCH-EVAL	Evaluation Board	167-0842●	71.43

Proximity EFID sensor



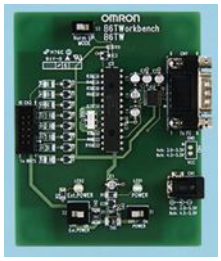
The MC33794 is an Electric Field Imaging Device, intended for use in detecting objects in an electric field, when connected to external electrodes. The IC generates a low-frequency sine wave with very low harmonic content to reduce harmonic interference. It is adjustable by using an external resistor and is optimized for 120 kHz. It also contains support circuits for a MCU to allow the construction of a two-chip E-field system.

- Supports up to 9 electrodes and 2 references or electrodes for measurement
- Shield driver for driving remote electrodes through coaxial cables
- The sensor has a +5.0 V regulator to power external circuit
- The device connects to an ISO-9141 bus to allow remote communications
- Lamp driver output
- Watchdog and power-on reset timer
- Critical internal nodes scaled and selectable for measurement
- High-purity sine wave generator tunable with external resistor

477003

Pins/Package	Description	Mftrs.List No.	Order Code	Price Each
54/SOICW-EP	Proximity EFID sensor	MC33794EK	SMD 139-1639●	5.13

B6TW Workbench



- Runs on Windows PCs (Windows XP and 2000 recommended)
- Connects with a PC via serial communication
- Parameter setting function
- Operation monitor function
- Capacitance calculation function
- Comes with an evaluation board for four or eight channels for immediate evaluation:
  Four channels: B6TW-S04LT
  Eight channels: B6TW-S08NF

Contents:
- B6TS I/F Board (B6TW)
- Serial communication cable (Dsub 9pin cross)
- CD-ROM
- Sample board (B6TY-S04LT or B6TY-S08NF)
- Flat cable

477670

	Mftrs. List No.	Order Code	Price Each
Cap Touch Sensor, 4 Channel	B6TS-04LT-002 DEFAULT	SMD 133-3845●	3.88
Cap Touch Sensor, 8 Channel	B6TS-08NF-003 DEFAULT	SMD 133-3846●	3.55
Design Kit For 4 Channel Sensor	B6TW-S04LT	133-3848●	139.20
Design Kit For 8 Channel Sensor	B6TW-S08NF	133-3849●	134.71

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See our pick of the hottest products and latest technologies in '**What's New?**' at **www.farnell.co.uk**

Touch Memory/ID

210454

	PinsPkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+
1973	Button	4KBit EEprom iButton With unique 48-Bit serial number, 8-Bit CRC and 8-Bit family code. (F5MICROCAN)	DS1973+F5	SMD 972-5300●	4.64	3.48	2.79	– –
1982	Button	1KBit Add-Only Memory With unique 48-Bit serial number, 8-Bit CRC and 8-Bit family code. 1K-Bit EPROM is user programAble, partitioned into four 256-Bit pages, each can be permAnently write-protected. (F5MICROCAN)	DS1982+F5	SMD 972-4788●	3.05	2.29	2.01	– –
1990	Button	Touch Memory button With unique 48-Bit serial number, 8-Bit family code, 8-Bit CRC tester (IND TEMP)	DS1990A-F5+	SMD 128-5410●	3.31	2.49	2.01	– –
1992	Button	Touch Memory button With serial number and internal 128 bytes of Non-Volatile RAM organized in 4 areas of 32 bytes each and a scratchpad of 32 bytes	DS1992L+F5	SMD 972-6497●	6.16	4.63	4.13	3.77
1994	Button	Touch Memory button	DS1994L-F5+	SMD 130-6350●	11.89	8.41	8.20	7.98
1996	Button	Touch Memory Button	DS1996L-F5+	NEW SMD 160-6349●	13.15	9.55	7.52	7.00
2401	TO-92	Silicon serial number, 64-Bit ROM includes unique 48-Bit serial number, 8-Bit CRC and 8-Bit Family Code. Data transferred serially via 1-Wire protocol	DS2401+	972-6187●	1.66	1.06	0.73	– –
2401	6 / TSOC	Silicon serial number, 64-Bit ROM includes unique 48-Bit serial number, 8-Bit CRC and 8-Bit Family Code. Data transferred serially via 1-Wire protocol	DS2401P+	SMD 972-5318●	1.80	1.15	0.79	– –
2401	4 / SOT-223	Silicon serial number, 64-Bit ROM includes unique 48-Bit serial number, 8-Bit CRC and 8-Bit Family Code. Data transferred serially via 1-Wire protocol	DS2401Z+	SMD 972-6195●	2.03	1.31	1.05	– –
2405	3 / TO-92	Addressable Switch for assigning electronically readable identification to a particular node controlled by open drain N-channel MOSFET switched by mAtching 64-Bit registration number	DS2405+	118-8025●	1.84	1.37	1.33	– –
2405	4 / SOT-223	Addressable Switch for assigning electronically readable identification to a particular node controlled by open drain N-channel MOSFET switched by mAtching 64-Bit registration number	DS2405Z+	SMD 129-0862●	3.08	3.00	2.92	– –
2502	3 / TO-92	1K-Bit Add-Only Memory consists of registration number With unique 48-Bit serial number, 8-Bit CRC and 8-Bit Family Code. 1K-Bit EPROM is user Programmable	DS2502+	118-8026●	3.38	2.17	1.48	– –
9092	2	Touch Memory Probe to provide data transfer to and from Touch Memory button	DS9092+	SMD 972-6438●	7.70	5.77	4.64	– –
9093	–	MicroCan holder for the Touch Memory button - Black	DS9093A+	128-5402●	1.17	0.84	0.67	– –
9093	–	MicroCan holder for the Touch Memory button - Blue	DS9093AB	315-3332▲	0.65	0.56	0.55	– –
9093	–	MicroCan holder for the Touch Memory button - Green	DS9093AG	315-3344▲	1.11	0.84	0.68	– –
9093	–	MicroCan holder for the Touch Memory button - Red	DS9093AR	315-3356▲	1.01	0.76	0.62	– –
9093	–	MicroCan holder for the Touch Memory button - Red	DS9093AR+	130-6326●	1.17	0.84	0.67	– –
9094	–	MicroCan holder for the Touch Memory button	DS9094F+	130-6334●	2.34	1.71	1.36	– –

£ € 40,000 PRICES REDUCED

RL Re-reeling available

Sensors - Capacitive/Touch/Pressure - continued

Pressure Sensors

freescale semiconductor



The MPX series devices are a silicon piezoresistive pressuresensor providing a highly accurate and linear voltage output directly proportional tothe applied pressure. The sensor is a single, monolithic silicon diaphragm with the strain gauge and a thin-film resistor network integrated on-chip. The chip is laser trimmed for precise span and offset calibration and temperature compensation.
Within the MPX series MPX4 are dedicacted Manifold Absolute Pressure sensor for the engine, designed to sense absolute air pressure within the intake manifold. This measurement can be used to compute the amount of fuel required for each cylinder.

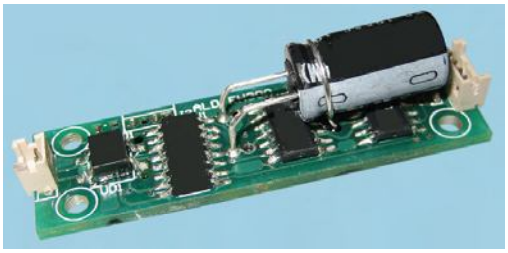
476989

Base No	Pins/Package	Description	Mftrs.List No.	Order Code	Price Each
2102	4/344-15	Pressure Sensor	MPX2202A	139-1617	14.23
2102	8/1369-01	Pressure Sensor	MPX2102GP	SMD 139-1615	10.00
2102	4/344C-01	Pressure Sensor	MPX2102D	139-1618	14.75
4101	6/867-08	Manifold Pressure Sensor	MPX4101A	139-1619	18.44
4200	6/867-08	Manifold Pressure Sensor	MPX4200A	139-1621	18.44
5700	6/867B-04	Pressure Sensor	MPX5700AP	139-1623	17.64
5700	6/867-08	Pressure Sensor	MPX5700D	139-1622	11.91
6101	8/1317-04	Manifold Pressure Sensor	MPXH6101A6U/6T1	SMD 139-1620	16.37
6250	8/1317-04	Pressure Sensor	MPXH6250A6U/6T1	SMD 139-1624	15.47
8020	8/SSOP	Tire Pressure Monitoring Sensor Temperature Compensated & Calibrated	MPXY8020A6U	SMD 129-6225	13.00

Special Function ICs & Support Tools

Energy Harvesting Modules

ADVANCED LINEAR DEVICES, INC.



The EPAD® ENERGY HARVESTING™ Modules can accept energy from many types of electrical energy sources. It then stores this energy to power conventional 3.3V and 5.0V electrical circuits and systems. These modules can work with instantaneous input voltages ranging from 0.0V to ±500V AC or DC and input currents from 200nA to 400mA from energy harvesting sources that produce electrical energy in a steady or intermittent/irregular manner.

Features
- Compatible energy harvesting sources:
  - PZT, piezo electric fibre composite
  - Solar photo voltaic cells
  - Thermoelectric generators
- Compatible with most wireless sensor networks (WSN)
- Self-Contained onboard energy source
- No calibration or setup required
- CMOS logic compatible

481407

V_Low	V_High	Useful Energy Output	Output On-Time Rating	Description	Mftrs. List No.	Order Code	Price Each
1.8V	3.6V	4.6mJ	68msec@25mA	Energy Harvesting Module	EH300	143-9945	37.21
1.8V	3.6V	30mJ	75msec@150mA	Energy Harvesting Module	EH300A	143-9946	43.69
3.1V	5.2V	8.3mJ	80msec@25mA	Energy Harvesting Module	EH301	143-9948	37.21
3.1V	5.2V	55mJ	88msec@150mA	Energy Harvesting Module	EH301A	143-9949	43.69
-	-	-	-	Input Cable for EH300/EH301	EHJ1C	143-9950	2.45
-	-	-	-	Output Cable for EH300/EH301	EHJ2C	143-9951	4.91
-	-	-	-	EH300/300A Evaluation Kit with Cables	EH300KIT	143-9952	89.61

Energy Measurement

MICROCHIP

These energy measurement ICs support the IEC 62053 international energy metering specification. The 16-Bit ADCs enable small shunt meter designs for measuring a wide range of Ib and Imax currents.

- 16-bit delta-sigma ADCs
- On-chip voltage reference temp drift 15ppm/°C

The output of both these devices include a frequency proportional to the average active (real) power at the inputs as well as:

- **MCP3905A/6A** - Higher frequency output proportional to the instantaneous power for meter calibration. On-board fixed-function DSP for active (real) power calculation.
- **MCP3909** - Simultaneous SPI interface, with 16-bit ADC output and 20-bit multiplier output data at up to 14 kHz

488560

Pins/Pkg	ADC Gain	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
24/SSOP	up to 16	MCP3905A-I/SS	SMD 143-9398	1.70	0.94	0.81
24/SSOP	up to 32	MCP3906A-I/SS	SMD 143-9399	1.83	1.01	0.89
24/SSOP	up to 16	MCP3909-I/SS	SMD 143-9402	1.89	1.05	0.91

Energy Metering

ANALOG DEVICES

Surpass **IEC62053-21** standard accuracy requirements.

The **ADE7752B** and **ADE7762** are polyphase ICs that provide watt-hour information using pulse outputs that can directly drive a stepper motor counter. They're optimized for 3-phase, 3-wire applications with no-load threshold and REVP indication based on the sum of the phases. To ensure that energy is billed properly under miswiring or tampering conditions, they can be set to accumulate based on the sum of the absolute value in each phase. The active power accumulation is signed by default.

The **ADE7762** has four additional logic output pins. These four pins drive six LEDs for prioritized indication of phase dropout and phase sequence error as well as reverse polarity per phase.

The **ADE7761A** detects two common tampering conditions: fault" condition (when loads are grounded to earth instead of connected to neutral wire or when the meter is bypassed with external wires) and missing neutral" condition (when the voltage input and return current are missing). It iincorporates a novel tampering detection scheme which indicates the fault or missing neutral conditions and allows the meter to continue accurate billing by continuous monitoring of the phase and neutral (return) currents. It also includes a power-supply monitoring circuit which ensures that the voltage and current channels are matched, eliminating creep effects in the meter.

493248

Pins/Pkg	Meter Type	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
24/SOIC	Polyphase	ADE7752BARWZ	SMD 149-8676	6.15	4.47	3.51
20/SSOP	Single Phase	ADE7761AARSZ	SMD 149-8677	3.43	2.49	1.95
28/SOIC	Polyphase	ADE7762ARWZ	SMD 149-8679	6.30	4.60	3.61

Power Measurement

ANALOG DEVICES

- Meet accuracy spec for **IEC**, **ANSI** and **JIS**.
- Energy data linearity: +0.1% of reading over 1000:1 dynamic range
- Instantaneous Voltage, Current and Power IRMS and VRMS, Active, Reactive and Apparent Power
- Energy-to-pulse conversion
- Temperature sensor
- On-chip 2.5 V reference (25 ppm/°C typ)
- Simple 3-wire digital serial interface

493261

Pins/Pkg	Channels	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
24/SSOP	2	CS5463-ISZ	SMD 150-6323	3.69	2.51	2.02
28/SSOP	3	CS5464-ISZ	SMD 150-6324	4.79	3.26	2.63
28/SSOP	4	CS5467-ISZ	SMD 150-6325	5.98	4.08	3.29

FRAM Event Data Recorder

RAMTRON

New

This event data recorder with FRAM provides an integrated solution for digital events monitoring. It provides simple device settings and data retrieval allowing easy system integration.

528704

Mftrs. List No.	Pkg	Pins	Event Memory	Interface	Operating Voltage	Order Code	Price Each 1+	10+	100+
FM6124-QG	QFP	44	1000 to 4000 events	I2C	3V to 3.6V	SMD 168-8895●	26.96	20.10	16.37

USB-DAQ™

Driver-Free USB Data Logger

New

USB-DAQ is a low cost data logging system. In normal operation it is powered by a battery cell and logs data as required. It has analogue, digital, comparator and counter inputs.
When plugged into a USB port, USB-DAQ appears on the PC like a removable disk. The user can specify data logging requirements in a text file, and access logged data from a CSV file. No software or firmware programming is required. If the battery cell is rechargeable, it can be recharged while plugged in.
USB-DAQ uses the Mass Storage Device (MSD) USB profile. It does not require USB driver installation, and so is immediately compatible with present and futureWindows, Linux and Mac operating systems.

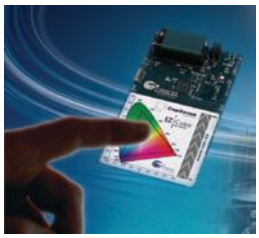
Features:

- Two chip solution (microcontroller + memory)
- True MSD plug and play - No drivers required
- USB 2.0 compatible
- 32kHz real time clock
- 10-bit, up to 14-channel analog-to-digital with internal 1.2V fixed voltage reference channel
- Dual analog comparators
- Counter input
- Digital inputs

525851

Mftrs List No.	Description	Order Code	Price Each
USB-DAQ-DIL	Pre-Programmed 28-Pin DIL	167-0834●	8.10
USB-DAQ-SS	Pre-Programmed 20-Pin SSOP	SMD 167-0835●	5.82

CY3269N Lighting Starter Demonstration Kit



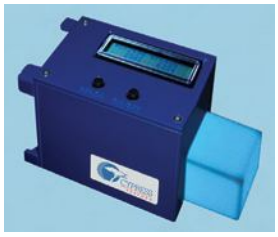
New

The CY3269N Lighting Starter Demonstration Kit showcases the: EZ-Color and CapSense, which enable tunable white light control, color mixing, and capacitive touch sensing. At the simple touch of a finger, users can illuminate anything from an entire room to a large architectural lighting display with warm, neutral, or cool white light of variable color temperature. Users can create rich and vibrant colored light to set moods, accents, and customize the overall feel of any venue with little effort.

525308

Mftrs. List No.	Description	Order Code	Price Each
CY3218-CAPEXP1	CY3218-CAPEXP1 CapSense Express™ Kit	160-1047▲	28.86

CY33265x RGB Evaluation Kits



New

The CY3265x-RGB evaluation board demonstrates the ability of the EZ-Color device to use real-time temperature feedback to control three primary, high brightness LEDs and create accurate, mixed-color output. The three LEDs on the CY3265O-RGB evaluation board use the primary colors red, green, and blue, although any color LEDs can be used in a design, depending upon the application and the desired color gamut.

The CY3265x-RGB evaluation kits are available with the following LEDs:

- Nichia Power LEDs - **CY3265N-RGB**
- OSRAM DRAGON LEDs - C**Y3265O-RGB**
- Cree XLamp LEDs - **CY3265C-RGB**

525317

Mftrs. List No.	Description	Order Code	Price Each
CY3265N-RGB	Eval Kit w/ Nichia Power LEDs	166-4508●	130.49
CY3265O-RGB	Eval Kit w/ OSRAM Dragon LEDs	166-4509●	130.49
CY3265C-RGB	Eval Kit w/ Cree XLamp LEDs	166-4510●	130.49

Rotary and Linear Encoders

SMD

austriamicrosystems

New

The **AS5030** is a contactless magnetic rotary encoder for accurate angular measurement over a full turn of 360°. It is a system-on-chip, combining integrated Hall elements, analog front end and digital signal processing in a single device.
The **AS5035** is a contactless magnetic incremental encoder with 64 quadrature pulses per revolution (8-bit resolution) and index output. Only a simple two-pole magnet, rotating over the center of the chip is required. The magnet may be placed above or below the IC.
The **AS5040** is a system-on-chip, combining integrated Hall elements, analog front end and digital signal processing in a single device. It provides incremental output signals and the absolute angular position of a magnet that is placed above or below the device.
The **AS5045** is a contactless magnetic rotary encoder for accurate angular measurement over a full turn of 360°. It is a system-on-chip, combining integrated Hall elements, analog front end and digital signal processing in a single device.
The **AS5130** is a contactless magnetic rotary encoder for accurate angular measurement over a full turn of 360°. It is a system-on-chip, combining integrated Hall elements, analog front end and digital signal processing in a single device.
The **AS5134** is a contactless magnetic rotary encoder for accurate angular measurement over a full turn of 360°. It is a system-on-chip, combining integrated Hall elements, analog front end and digital signal processing in a single device.
The **AS5140H** is a contactless magnetic rotary encoder for accurate angular measurement over a full turn of 360° and over an extended ambient temperature range.
The **AS5304** & **AS5306** are single-chip ICs with integrated Hall elements for measuring linear or rotary motion using multi-pole magnetic strips or rings.

Device	Resolution	Outputs	Operating Temp.
AS5030	8-bit	Absolute Serial, PWM	-40°C to +125°C
AS5035	8-bit	Incremental	-40°C to +125°C
AS5040	10-bit Absolute 7, 8, 9 or 10-bit Incremental	Absolute Serial, PWM, Incremental, BLDC	-40°C to +125°C
AS5045	12-bit	Absolute Serial, PWM	-40°C to +125°C
AS5130	8-bit	Absolute Serial, PWM	-40°C to +125°C
AS5134	8.5-bit	SSI, PWM, Quadratur A/B/Index, BLDC U, V, W	-40°C to +140°C
AS5140	10-bit Absolute 7, 8, 9 or 10-bit Incremental	Absolute Serial, PWM, Incremental, BLDC, Quadratur A/B/Index	-40°C to +150°C
AS5304	25µm	Incremental A & B Quadrature Outputs, Index Pulse	-40°C to +125°C
AS5306	15µm	Incremental A & B Quadrature Outputs, Index Pulse	-40°C to +125°C

519250

Pins/Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
On-Axis Magnetic Rotary Encoders								
16/TSSOP	High-Speed Absolute Magnetic Rotary Encoder	AS5030-ATSU	SMD 163-0797●	3.40	2.71	2.27	2.09	1.95
16/SSOP	Programmable Incremental Magnetic Rotary Encoder	AS5035-ASSU	SMD 163-0798●	4.32	3.46	2.88	2.66	2.47
16/SSOP	Programmable Magnetic Rotary Encoder	AS5040-ASSU	SMD 163-0800●	6.17	4.94	4.11	3.80	3.53
16/SSOP	Programmable Magnetic Rotary Encoder	AS5045-ASSU	SMD 163-0801●	6.88	5.51	4.60	4.24	3.93
Automotive Rotary Encoders								
16/SSOP	Contactless Magnetic Rotary Encoder	AS5130-ASSU	SMD 163-0802●	3.71	2.96	2.47	2.28	1.98
20/SSOP	360° Programmable High Speed BLDC Magnetic Rotary Encoder	AS5134-ASSU	SMD 163-0803●	4.28	3.43	2.86	2.63	2.29
16/SSOP	360° Programmable Magnetic Rotary Encoder	AS5140H-ASSU	SMD 163-0804●	6.72	5.38	4.48	4.14	3.59
Magnetic Linear Position Encoders								
20/TSSOP	Fixed Resolution Encoder Sensor	AS5304A-ATSU	SMD 163-0806●	5.65	4.52	3.77	3.48	3.23
20/TSSOP	Fixed Resolution Encoder Sensor	AS5306A-ATSU	SMD 163-0807●	5.65	4.52	3.77	3.48	3.23

228413

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
1	ADI	38	DIP	Programmable, Isolated Voltage to Current converter	1B22AN	NEW 318-1960▲	111.460	92.870	79.420	68.230	– –
1	ADI	28	DIP	Wide Bandwidth Strain Guage Signal Conditioner	1B31AN	318-1972▲	209.640	– –	– –	– –	– –
2	TI	6	SON	2-Channel ESD-Protection Array for High-Speed Data Interfaces	TPD2E001DRSR	NEW SMD 160-3426●	0.360	0.280	0.240	0.194	0.182
3	TI	5	SOT	3-Channel ESD-Protection Array for High-Speed Data Interfaces	TPD3E001DRLR	NEW SMD 160-3422●	0.290	0.220	0.182	0.157	0.146
3	TI	6	SON	3-Channel ESD-Protection Array for High-Speed Data Interfaces	TPD3E001DRSR	NEW SMD 160-3427●	0.390	0.310	0.260	0.220	0.194
4	TI	6	SON	4-Channel ESD-Protection Array for High-Speed Data Interfaces	TPD4E001DRSR	NEW SMD 160-3428●	0.450	0.340	0.280	0.240	0.220

RL Re-reeling available

Special Function ICs & Support Tools - continued

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
6	TI	12	QFN	6-Channel ESD-Protection Array for High-Speed Data Interfaces	TPD6E001RSFR	NEW SMD 160-3423 ●	0.480	0.370	0.300	0.260	0.250
74	TI	24	TSSOP	10bit Voltage Clamp	SN74TVC3010PW	SMD 123-6478 ●	1.250	0.830	0.670	0.610	0.570
100	ZET	8	SOIC	Security Siren Driver Circuit	ZSD100N8.	SMD 789-276 ▲	0.840	0.680	0.450	0.360	0.350
108	TI	20	TSSOP	8-Bit Bidirectional Voltage-Level Translator with Auto Direction Sensing and ±15-kV ESD Protect	TXB0108PWR	SMD 149-4945 ●	1.490	1.190	0.860	0.800	0.740
138	TI	5	SOT-23	High-Side Measurement Current Shunt Monitor, Current Output	INA138NA/3KG4	123-5012 ●	1.600	1.120	0.860	0.800	0.760
139	TI	5	SOT-23	High Side Current Shunt Monitor	INA139NA/250G4	SMD 120-6901 ●	1.490	1.230	1.070	– –	– –
150	TI	12	SOIC	OP Amp, Isolation, Dual Data	ISO150AUG4	SMD 120-6917 ●	12.110	10.090	8.490	– –	– –
168	TI	5	SOT-23	Current Shunt Monitor	INA168NA/250G4	SMD 123-4639 ●	2.440	2.040	1.750	1.530	1.370
169	TI	5	SOT-23	High Side Current Shunt Monitor	INA169NA/250	SMD 120-6908 ●	1.400	1.160	0.980	– –	– –
169	TI	5	SOT-23	High-Side Measurement Current Shunt Monitor, Current Output	INA169NA/250G4	SMD 123-4749 ●	2.440	1.850	1.440	1.320	1.210
170	TI	8	VSSOP	Current Shunt Monitor	INA170EA	SMD 121-2420 ●	1.300	1.080	0.930	– –	– –
170	TI	8	VSSOP	High-Side Measurement Current Shunt Monitor, Current Output	INA170EA/250G4	SMD 123-4851 ●	1.750	1.340	1.210	1.180	1.150
200	FUJ	80	TSOP	Solid State Fingerprint Sensor	MBF200PFW-IKENDI	SMD 136-6946 ●	59.970	52.140	46.120	41.360	37.960
243	ROHM	4	RPI-234	0.4mm x 2.0mm Slit Optical Sensor	RPI243	NEW 160-3636 ●	0.400	0.320	0.260	0.230	0.210
244	ST	16	LGA	MEMS motion sensor 2-axis - ±2g Ultracompact Analog Output Accelerometer	LIS244AL	SMD 143-5585 ●	6.150	4.570	3.640	– –	– –
302	ST	14	LGA	MEMS motion sensor 3-axis ±2g/±8g smart digital output 'piccolo' accelerometer	LIS302DL	SMD 143-5588 ●	5.700	4.710	4.590	– –	– –
309	TI	16	TSSOP	PGA309 Voltage OUTPUT Programmable SENSOR CONDITIONER	PGA309AIPWTG4	SMD 123-4897 ●	4.920	4.200	3.670	3.260	2.940
320	ADI	16	LFCSP	Accelerometer, 2 Axis, ±5g	ADXL320JCP	SMD 133-6919 ●	7.510	5.760	4.890	4.680	4.380
321	ADI	16	LFCSP	Accelerometer, 2 Axis, ±18g	ADXL321JCP	SMD 133-6918 ●	7.510	5.760	4.890	4.680	4.380
322	ADI	16	LFCSP	Accelerometer, 2 Axis, ±2g	ADXL322JCP	SMD 133-6917 ●	7.510	5.760	4.890	4.680	4.380
330	ADI	16	LFCSP	Low Power, 3-axis ±3g iMEMS® Accelerometer With AnaLog Output	ADXL330KCPZ	SMD 127-4125 ●	10.440	8.000	6.790	6.510	6.090
352	ROHM	4	RPI-352	3.0mm Emitter/Detector Gap Photo Interrupter	RPI-352	NEW 160-3638 ●	0.350	0.270	0.220	0.210	0.186
420	TI	16	PDIP	Current Loop Receiver, 4-20mA	RCV420JP	121-2342 ●	5.550	4.620	3.760	– –	– –
579	ROHM	4	RPI-579N1	5.0mm Emitter/Detector Gap Photo Interrupter	RPI-579N1	NEW 160-3639 ●	0.430	0.340	0.280	0.260	0.230
598	ADI	20	DIP	LVDT Signal Conditioner. Linearity 0.05%. Drift 50PPM/°C. Single Chip Solution DC O/P Proportional to LVDT position. 20Hz to 20kHz Freq. Range. (Cerdip)	AD598AD	318-2277 ▲	47.910	38.090	33.840	33.190	– –
598	ADI	20	WSOIC	LVDT Signal Conditioner, Linearity 0.05%, Output ±11 V, Drift 50 ppm/°C, Freq Range 20Hz to 20kHz	AD598JRZ	SMD 143-8416 ●	31.000	24.640	21.890	– –	– –
698	ADI	28	PLCC	Universal LVDT Signal Conditioner	AD698APZ.	NEW SMD 165-1285 ●	25.140	20.670	16.920	15.510	14.850
800	INF	8	SOIC	Programmable Single/Dual/Triple Tone Gong	SAE800G	SMD 147-2783 ●	3.540	2.950	2.360	– –	– –
1009	ZET	3	SOT-23	High-side Current Monitor	ZXCT1009F	SMD 113-2757 ● RL	1.200	0.980	0.710	– –	– –
1010	ZET	5	SOT-23-5	Enhanced High-side Current Monitor	ZXCT1010E5	SMD 113-2758 ●	1.340	1.110	0.780	– –	– –
1043	LT	18	DIP	Dual Precision Capacitor Building Block	LTC1043CN	476-7469 ▲	2.650	2.260	1.840	– –	– –
1043	LT	18	DIP	Dual Precision Capacitor Building Block	LTC1043CN#PBF	956-0726 ●	5.390	3.050	2.270	– –	– –
1051	ZET	5	SOT-23-5	Precision wide Input range Current monitor	ZXCT1051E5TA	SMD 120-8110 ●	0.900	0.680	0.560	– –	– –
1232	MCHIP	8	SOIC	Monitor, Microprocessor	TC1232COA	SMD 119-6813 ●	0.780	0.660	0.570	– –	– –
1232	MCHIP	8	DIP	Monitor, Microprocessor	TC1232CPA	119-6814 ●	0.620	0.530	0.460	– –	– –
1232	MCHIP	8	SOIC	IC-SM Monitor, Microprocessor	TC1232EOA	SMD 976-2558 ●	0.780	0.660	0.570	– –	– –
1402	MAX		Blue Dot Receptor to RJ11	2.4m Single Wire Network Cables Serial or USB with Male RJ-11 Plug to Blue Dot iButtons	DS1402D-DR8+	NEW 160-6600 ●	7.770	6.220	5.650	5.170	4.320
1452	MAX	16	SSOP	Analogue Sensor with 16Bit Signal Processor	MAX1452AAE+	NEW SMD 160-6618 ●	13.050	10.440	9.490	8.700	7.240
1602	MAX	16	QSOP	MOSFET DC Power Switcher 1A 0.25Ω 3.3V/5V for CardBus/PCMCIA	MAX1602EEE+	NEW 160-6619 ●	3.310	2.660	2.410	2.230	1.840
1815	NSC	14	DIP	Adaptive sense Amp. for motor control applications	LM1815N	949-3913 ●	3.190	2.610	2.400	2.330	2.180
1815	NSC	14	DIP	Adaptive sense Amp. for motor control applications	LM1815N.	704-519	3.360	2.410	1.860	1.160	1.040
2016	MAX	28	TQFN-EP	2.5GHz Dual Logarithmic Detector/Controller for Power, Gain & VSWR Measurement	MAX2016ETI+	NEW SMD 160-6629 ●	16.190	12.960	11.780	10.800	8.990
2017	AV	16	PDIP	Quadrature Decoder/Counter Interface ICs	HCTL-2017-A00	131-7845 ●	17.800	15.390	12.490	– –	– –
2101	TI	24	SOIC	Dual Switched Integrator	ACF2101BUE4	SMD 120-6857 ●	20.390	17.000	13.920	– –	– –
2409	MAX	6	TSOC	DS2409P MicroLAN coupler for networking	DS2409P+	SMD 118-7932 ●	3.990	3.000	2.410	– –	– –
2425	TI	8	SOIC	Virtual Ground Reference	TLE2425CD	SMD 845-4795 ●	0.950	0.870	0.620	– –	– –
2425	TI	8	SOIC	Precision VIRTUAL GROUND	TLE2425IDG4	SMD 123-4831 ●	0.570	0.460	0.400	0.390	0.380
2426	TI	8	SOIC	Virtual Ground Reference	TLE2426CD	SMD 845-4809 ●	0.810	0.680	0.570	– –	– –
2426	TI	3	LP	Virtual Ground Reference	TLE2426CLPE3	SMD 120-7287 ●	0.760	0.640	0.530	– –	– –
2426	TI	8	PDIP	Virtual Ground Reference	TLE2426CP	845-4825 ●	1.110	0.790	0.570	– –	– –
2426	TI	8	SOIC	Virtual Ground Reference	TLE2426ID	SMD 845-4833 ●	1.070	0.790	0.570	– –	– –
2426	TI	3	LP	Virtual Ground Reference	TLE2426ILP	SMD 121-2372 ●	0.570	0.490	0.380	– –	– –
2426	TI	3	LP	Virtual Ground Reference	TLE2426ILP.	SMD 845-4841	0.610	0.510	0.440	– –	– –
2426	TI	8	PDIP	Virtual Ground Reference	TLE2426IP	845-4850 ●	1.110	0.790	0.570	– –	– –
2531	NSC	36	LLP	High Performance Frequency Synthesizer System with Integrated VCO from the PowerWise® Family	LMX2531LQ1742	SMD 147-1253 ●	7.840	6.260	5.230	5.100	4.970
3272	MAX	20	TQFN	Wide Range of I/P & Constant-level O/P Voltage 2.5Gbps Amplifier	MAX3272AETP+	NEW SMD 160-6635 ●	6.520	5.240	4.750	4.360	3.630
3308	ADI	20	TSSOP	Low Voltage 1.15 - 5V, 8-Channel BidirectionalLogic Level Translator	ADG3308BRUZ	SMD 945-3083 ●	3.690	2.690	2.000	– –	– –
3645	MAX	16	QSOP	Wide Range of I/P & Constant-level O/P Voltage 200Mbps Amplifier	MAX3645EEE+	NEW SMD 160-6640 ●	2.590	2.070	1.880	1.730	1.440
4220	NXP	6	SSOT	Dual USB 2.0 integrated ESD protection to IEC 61000-4-2 level 4	IP4220CZ6	SMD 150-6629 ●	0.300	0.250	0.200	0.170	0.157
4352	LT	12	DFN	Low Voltage Ideal Diode Controller with Monitoring	LTC4352CDD#PBF	NEW SMD 164-7756 ●	4.140	3.220	2.630	2.420	2.070
4352	LT	12	MSOP	Low Voltage Ideal Diode Controller with Monitoring	LTC4352CMS#PBF	NEW SMD 164-7758 ●	4.140	3.220	2.630	2.420	2.070
4352	LT	12	DFN	Low Voltage Ideal Diode Controller with Monitoring	LTC4352IDD#PBF	NEW SMD 164-7759 ●	4.670	3.720	3.050	2.790	2.400
4352	LT	12	MSOP	Low Voltage Ideal Diode Controller with Monitoring	LTC4352IMS#PBF	NEW SMD 164-7760 ●	4.670	3.720	3.050	2.790	2.400
5100	ROHM	4	RPI-5100	Actuator Photo Interrupter	RPI5100	NEW 160-3637 ●	0.540	0.420	0.340	0.320	0.290
5113	CAT	8	SOIC	100-Tap Digitally Programmable Potentiometer (DPP)	CAT5113V-10	SMD 880-3188 ●	1.960	1.660	1.330	– –	– –
7232	LSI	8	DIP	Touch Control Dimmer Switch and A.C. Motor Speed Controller	LS7232	121-9012 ●	4.070	3.280	2.730	– –	– –
7534	LSI	8	DIP	Continuous Dimmer Light Switch With separate Up/Down controls	LS7534	121-9015 ●	4.620	3.320	2.620	– –	– –
7534	LSI	8	DIP	Continuous Dimmer Light Switch With separate Up/Down controls	LS7534.	703-280	2.560	1.840	1.480	– –	– –
8159	ADI	100	TQFP	Xstream 3.2 Gbps Quad Buffer Mux/Demux	AD8159ASVZ	SMD 111-7893 ●	19.010	17.390	15.930	14.570	10.960
8575	TI	24	SSOP	Remote 16-Bit I2C and SMBus I/O Expander With Interrupt Output	PCF8575CDBE4	SMD 105-3571 ●	1.480	0.990	0.890	– –	– –
8575	TI	24	SOIC	Remote 16-Bit I2C and SMBus I/O Expander With Interrupt Output	PCF8575CDWE4	SMD 105-3562 ●	1.550	1.030	0.920	– –	– –
8575	TI	24	TSSOP	Remote 16-Bit I2C and SMBus I/O Expander With Interrupt Output	PCF8575CPW	SMD 105-3558 ●	1.410	0.940	0.840	– –	– –
8575	TI	24	TSSOP	Remote 16-Bit I2C and SMBus I/O Expander With Interrupt Output	PCF8575PWE4	SMD 105-3546 ●	1.550	1.030	0.920	– –	– –
9092	MAX	4	iButton	iButton Probe with LED Connected by 30cm Lead	DS9092L+	NEW 160-6616 ●	8.880	7.100	6.460	5.920	4.940
9241	SLX	8	SOIC	Single-Ended Bus Driver	SI9241EY	SMD 107-7083 ●	1.970	1.190	0.990	0.560	0.500
16003	ADI	12	LGA	Dual Axis ±1.7g Accelerometer With SPI Interface	ADIS16003CCCZ	SMD 127-4172 ●	29.230	23.390	20.770	20.370	19.070
16201	ADI	16	LGA	Programmable Dual Axis Inclinometer / Accelerometer	ADIS16201CCCZ	SMD 127-4171 ●	38.890	31.130	27.650	27.120	25.380
29000	INTS	5	ODFN	Ambient Light Photo Detector IC	ISL29000IROZ-T7	SMD 122-6249 ●	1.010	0.830	0.750	0.600	0.510
41010	MCHIP	8	SOIC	IC-SM Potentiometer, 10K Single Digital With SPI Interface	MCP41010-I/SN	SMD 975-8607 ●	0.980	0.670	0.580	– –	– –
42010	MCHIP	14	DIP	IC Potentiometer, 10K Dual Digital With SPI Interface	MCP42010-I/P	975-8615 ●	1.790	1.000	0.870	– –	– –
65220	TI	6	SOT-23	USB Port Suppressor	SN65220DBVT	SMD 845-1990 ●	0.540	0.430	0.360	– –	– –
65240	TI	8	PDIP	USB Port Suppressor, Dual	SN65240P	845-2008 ●	0.700	0.590	0.480	– –	– –
65240	TI	8	TSSOP	USB Port Suppressor, Dual	SN65240PWG4	SMD 120-7266 ●	0.450	0.380	0.320	– –	– –
145012	FSL	16	PDIP	Photoelectric Smoke Detector IC with I/O and Temporal Pattern Horn Driver	MC145012ED	SMD 129-6196 ●	1.500	0.850	0.740	0.660	0.580

RL Re-reeling available

Impedance Converter, Network Analyzer

ANALOG DEVICES

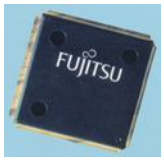
The AD5933 is a high precision impedance converter system solution which combines an on-board frequency generator with a 12-bit, 1 MSPS, analog-to-digital converter (ADC). The frequency generator allows an external complex impedance to be excited with a known frequency. The response signal from the impedance is sampled by the on-board ADC and a discrete Fourier transform (DFT) is processed by an on-board DSP engine. The DFT algorithm returns a real (R) and imaginary (I) data-word at each output frequency.

492318

Pins/Pkg	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
16/SSOP	AD5933YRSZ	SMD 143-8950●	22.33	17.88	15.88

MB86/87 Graphic Device Controllers

FUJITSU





MB87P2040A (Jasmine) is a 2D graphics acceleration chip incorporating 8Mbit of embedded SDRAM, eliminating the need for external memory devices. The device is optimized to work as a companion chip for Fujitsu's 32-Bit MB91F36x family RISC devices.
It has a number of features which give a designer more flexibility in their application area:
The video input interface was developed to allow the input of several formats (including YUV) and is compatible to a wide range of video decoder chips. A programmable converter matrix (YUV to RGB) allows an application to write YUV format data directly to layers and to convert the data back to RGB for scanning.
In addition, a gamma correction table allows a system designer to adjust the picture characteristics according to the requirements of the display connected in conjunction with an extended color look-up table which can hold up to 512 entries.

- CMOS 0.25μm technology
- Flexible display controller for almost all standard LCD panels
- 4 layers of overlay display (out of 16 logical layers)
- RGB analog output (DAC)
- RGB digital output
- Includes 2D graphic acceleration functions
- Gamma correction
- Embedded SDRAM graphic memory 8Mbit (1MByte)
- Digital video input (RGB and YUV formats)
- CPU interface for FR series
- Supply voltage 3.3V (I/O), 2.5V (Internal)

MB86276 (Lime) is a new extension to Fujitsu's graphics controller device family for 2D applications.
One of its unique features is its dual display mode capability. The device can simultaneously drive two individual displays that are connected. This functionality makes it possible to duplicate contents (such as a video picture) but also to have two individual pictures on two displays.
The external video input accepts data that is compliant to the following standards: RBT-ITU656, RBT-ITU601 and RGB666.

- CMOS 0.18μm technology
- Display resolutions up to 1280x768
- Alpha Plane
- Video Scaler (up/down scaling)
- I2C interface
- RGB digital output (8bit x 3)
- Built-in alpha blending, anti-aliasing and chroma-keying
- External 32-bit 133MHz SDRAM/FCRAM interface for up to 64MB graphic memory
- Host interface 32/16 bit
- GPIO inputs/outputs
- Serial interface
- Supply voltage 3.3V (I/O), 1.8V (Internal)
- Temperature range -40 to +85 °C

494376

Pins	Package	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
208	QFP	2D Graphics Acceleration Chip, 8Mbit of embedded SDRAM	MB87P2040PMT-G-BND-DLE1	SMD 136-6937●	29.59	25.73	22.76	20.40	18.73
320	BGA	Graphics Display Controller, External 32-bit SDRAM interface	MB86276PB-GS-ZE1	SMD 136-6939●	26.04	22.64	20.02	17.95	16.48

Graphics Controllers

FUJITSU

New



The **MB86277** 'Mint' is a solid option for various types of low-end 2D graphic applications in the industrial market segment. It operates internally at 100 MHz and has a 32-bit MCU interface and a 64/32-bit SDRAM memory interface. The video input unit is capable of accepting TV tuner, DVD player or camera signals in PAL or NTSC video formats (ITU656 format). Interlaced video pictures with various resolutions and frame frequency rates can be grabbed, scaled down and displayed picture-in-picture.

MINT Features:

- CMOS 0.18 μm technology
- Internal and memory clock frequency: 100 MHz (generated by on-chip PLL)
- Base clock for display clock: 400.9 MHz (generated by on-chip PLL)
- Power consumption < 1.0 W (estimated)
- Display resolutions typically from 320 x 240 up to 1280 x 768
- 6 layers of overlay display (windows)
- Alpha plane and constant alpha value for each layer
- RGB888 and RGB analog display output
- Digital video input (ITU656)
- Video input downscaling
- Rendering engine for 2D graphic acceleration functions
- Geometry processor supporting floating point transformations
- Texture mapping unit (up to 4096 x 4096)
- Bit BLT Unit for transfers up to 4096 x 4096 surfaces
- Alpha Bit BLT and ROP2 functions
- External 64/32 bit SDRAM interface (100MHz) for graphic memory (up to 64Mbytes)
- Parallel host interface (FR, SH3, SH4, V850, SparcLite etc.)
- Internal and external DMA support
- I2C interface
- Temperature range -40 to +85 °C

525286

Pins/Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
256/LQFP	MINT Graphics Controller	MB86277PMC-GS-BNDE1	SMD 166-0621●	13.73	12.54	9.19

Evaluation & Reference Design Kits for g-Select Accelerometers

freescale semiconductor



KIT3109MMA6270QE



KIT3109MMA7260QE



KIT3109MMA7261QE



KIT3109MMA6280QE

New

The g-Select multi-axis low g acceleration sensors have selectable sensitivity of 1.5g, 2g, 2.5g, 3.3g, 4g, 6g, 6.7g and 10g. These g-Select accelerometers can be used for a variety of multifunctional applications for the sensing functions of fall, tilt, motion, positioning, shock and vibration. The KIT3109MMAx2x0Q evaluation boards can interface to a 3.3 volt power source or battery. They are intended to be used for evaluating the MMA7260Q, MMA7261Q, MMA6270Q and MMA6280Q and developing prototypes quickly without requiring a PCB to be designed to accommodate for the small profile QFN package.

RL Re-reeling available

Farnell

Special Function ICs & Support Tools - continued

Evaluation & Reference Design Kits for g-Select Accelerometers - continued

The RD3112MMA7260Q reference design is a single 3-axis accelerometer solution which is achieved by using the single package MMA7260Q X-, Y- and Z-axis device. The MMA7260Q includes a g-select feature that ranges from 1.5 to 6g.

514889

		Order Code	Price Each
KIT3109MMA6270QE	Accelerometer Evaluation Kit for MMA6270QE	157-9750●	26.57
KIT3109MMA7260QE	Accelerometer Evaluation Kit for MMA7260Q	157-9752●	26.57
KIT3109MMA7261QE	Accelerometer Evaluation Kit for MMA7261QE	157-9773●	26.57
KIT3109MMA6280QE	Accelerometer Evaluation Kit for MMA6280QE	157-9900●	26.57
RD3112MMA7260QE	Sensing Triple Axis Reference Design (STAR)	157-9892●	43.76

Accelerometer ICs & Demo Board



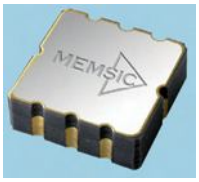
The MMA series are low power, low profile SMD capacitive micromachined accelerometer featuring signal conditioning. With low pass filter, temperature compensation and self test. Also a 0g-detect which detects linear freefall, when any of the axis are at 0g. Zero-g offset and sensitivity are factory set and require no external devices. Some of the MM series includes a sleep mode that makes it ideal for handheld battery powered electronics. The ZSTAR2 small portable demo board has the capability to demonstrate and evaluate various accelerometer applications that accommodate the low-cost low-power wireless connection. The sensor board includes two PCB 2.4 GHz antennas, CR2032 lithium battery holder and the three pushbuttons. The board size is 56 mm x 27 mm, which has a 14-pin LGA analog output triple axis accelerometer. The sensitivity is 800mV/g and a g-select range of 1.5g to 6g. There is a sleep mode for power cycling options. The MA7360L accelerometer has a lower current consumption at 400µA in normal mode and 3µA in sleep mode. The internal 32kΩ resistor on the MMA7360L has been shunted out and an external 10kΩ resistor has been added with a 320nF capacitor to complete a 50Hz low pass filter on the X, Y and Z outputs.
The ADIS16XXX are dual axis sensors, which can detect acceleration and inclination.

ZSTAR2 Demo Board

477002

Mftrs.	Operating Voltage Min/Max	Pins/Package	Description	Mftrs.List No.	Order Code	Price Each
FSL	4.75/5.25	16/SOIC	X Axis ±100g Accelerometer	MMA2204EG.	NEW SMD 156-6160●	9.70
FSL	4.75/5.25	16/SOIC	X Axis ±200g Accelerometer	MMA2301EG.	NEW SMD 156-6161●	9.70
FSL	4.75/5.25	16/SOIC	Z Axis ±1.5g Accelerometer	MMA1260D	SMD 139-1626▲	14.20
FSL	4.75/5.25	16/SOIC	Z Axis ±5g Accelerometer	MMA1250EG	NEW SMD 156-6159●	9.70
FSL	4.75/5.25	16/SOIC	Z Axis ±100g Accelerometer	MMA1210EG.	NEW SMD 156-6157●	9.70
FSL	4.75/5.25	20/SOIC	Z Axis ±100g Accelerometer	MMA3221EG	NEW SMD 156-6165●	9.70
FSL	4.75/5.25	16/SOIC	Z Axis ±200g Accelerometer	MMA1212EG.	NEW SMD 156-6158●	9.70
FSL	4.75/5.25	16/SOIC	Z Axis ±200g Accelerometer	MMA1212D	SMD 139-1625▲	13.58
ADI	/	8/CLCC	Dual Axis High-g iMEMS® Accelerometer With Analog Output	AD22285-R2	NEW SMD 166-1083●	16.02
FSL	2.2/3.6	16/QFN	X-Y Axis Selectable ±1.5/2/4/6 g Accelerometer	MMA6270QT.	NEW SMD 156-6166●	8.48
FSL	2.2/3.6	16/QFN	X-Y Axis Selectable ±2.5g/3.3g/6.7g/10g Accelerometer	MMA6271QT	SMD 139-1634●	6.37
FSL	4.75/5.25	20/SOIC	X-Y Axis ±40g Accelerometer	MMA3201EG	NEW SMD 156-6162●	9.70
FSL	4.75/5.25	20/SOIC	X-Y Axis ±100-30 g Accelerometer	MMA3204EG.	NEW SMD 156-6164●	9.70
FSL	4.75/5.25	20/SOIC	X-Y Axis ±100-50 g Accelerometer	MMA3202EG.	NEW SMD 156-6163●	9.70
FSL	2.2/3.6	16/QFN	X-Z Axis Selectable ±1.5/2/4/6 g Accelerometer	MMA6280QT.	NEW SMD 156-6168●	7.69
FSL	2.2/3.6	16/QFN	X-Z Axis Selectable ±2.5g/3.3g/6.7g/10g Accelerometer	MMA6281QT	SMD 139-1635●	6.44
FSL	/	14/LGA	X-Y-Z Axis ±1.5g Accelerometer	MMA7368LT	NEW SMD 165-9490●	4.36
FSL	/	14/LGA	X-Y-Z Axis Selectable ±4g/12g Accelerometer	MMA7330LT	NEW SMD 165-9487●	3.07
FSL	/	14/LGA	X-Y-Z Axis Selectable ±4g/12g Accelerometer	MMA7331LT	NEW SMD 165-9488●	3.73
FSL	/	14/LGA	X-Y-Z Axis Selectable ±3g/11g Accelerometer	MMA7341LT	NEW SMD 165-9489●	3.73
FSL	/	14/LGA	X-Y-Z Axis Selectable ±2g/4g/8g Accelerometer	MMA7455LT	NEW SMD 165-9491●	3.64
FSL	/	14/LGA	X-Y-Z Axis Selectable ±2g/4g/8g Accelerometer	MMA7456LT	NEW SMD 165-9493●	4.98
FSL	2.2/3.6	14/LGA	X-Y-Z Axis Selectable ±1.5g/6g Accelerometer	MMA7360LT	NEW SMD 139-1638●	5.76
FSL	2.4/3.6	14/LGA	X-Y-Z Axis Selectable ±2/4/8 g Accelerometer	MMA7455LR1	NEW SMD 160-5506●	5.38
FSL	2.2/3.6	16/QFN	X-Y-Z Axis Selectable ±2.5g/3.3g/6.7g/10g Accelerometer	MMA7261QT	SMD 139-1636●	6.38
FSL	2.2/3.6	14/LGA	X-Y-Z Axis Selectable ±3g/12g Accelerometer	MMA7340LT	SMD 139-1637●	5.62
FSL	–	–	MMA7360L ZSTAR2 Demo Board for Accelerometer Applications	RD3473MMA7360L	NEW 160-5507●	85.82
ADI	3/5.25	12/LGA	X-Y Axis ±5g Accelerometer with SPI Interface	ADIS16006CCCZ	NEW SMD 160-7242●	28.94
ADI	3/3.6	16/LGA	X-Y Axis ±70g-±37g Selectable Digital Impact Sensor & Recorder	ADIS16204BCCZ	NEW SMD 160-7243●	33.21
ADI	3.0/3.6	16/LGA	X-Y Axis Digital Inclinometer & ±1.7g Accelerometer with Serial O/P	ADIS16209CCCZ	NEW SMD 160-7244●	57.91

Dual/Tri Axis Accelerometer



- No moving parts for better reliability
- 50,000g shock survival rating
- Single sensing CMOS chip incorporating mixed mode signal processing
- Resolution better than 1mg
- Measures both static and dynamic acceleration
- Can also be used for tilt application

Mftr.	No. of	Accel. Limits		Supply Voltage	Operating Temp.	
List No.	Axis	+/- g	Pins/Pkg	Min./Max V	°C	Output
MXA2500ML	2	1.7	8 / LCC	3.0 / 5.25	-40 - 105	Absolute
MXA2300JV	2	1.5	8 / LCC	2.7 / 5.25	-10 - 70	Absolute
MXC62020JV	2	2	8 / LCC	2.7 / 3.6	-10 - 70	With I2C Interface
MXC62020MP	2	2	8 / LCC	2.7 / 3.6	-40 - 85	With I2C Interface
MXD2020EL	2	1	8 / LCC	3.0 / 5.25	-40 - 105	Digital
MXD2020ML	2	1.7	8 / LCC	3.0 / 5.25	-40 - 105	Digital
MXD6125QB	2	1	8 / LCC	2.7 / 3.6	-40 - 105	Digital
MXR2312ML	2	2	8 / LCC	3.0 / 5.25	-40 - 105	Ratiometric
MXR6999MP	2	1.0	8 / LCC	2.7 / 3.6	-40 - 85	Ratiometric
MXR7202ML	2	2	8 / LCC	2.7 / 5.25	-40 - 105	Ratiometric Analog
MXR7210ML	2	10	8 / LCC	2.7 / 5.25	-40 - 105	Ratiometric Analog
MXR9500MZ	3	1.5	16 / LCC	2.7 / 3.6	-40 - 85	Ratiometric
MXA6500MP	2	1.0	8 / LCC	2.7 / 3.6	-40 - 85	Absolute Analog

476894

Mftrs. List No.	Order Code	Price Each 1+	25+	100+
MXA2500ML	SMD 136-5600●	7.95	6.62	5.30
MXA2300JV	SMD 136-5601●	3.40	2.84	2.27
MXC62020JV	SMD 136-5602●	3.40	2.84	2.27
MXC62020MP	SMD 136-5603●	8.49	7.08	5.66
MXD2020EL	SMD 136-5604●	7.95	6.62	5.30
MXD2020ML	SMD 136-5606●	7.95	6.62	5.30
MXD6125QB	SMD 136-5607●	9.56	7.97	6.38
MXR2312ML	SMD 136-5608●	7.95	6.62	5.30
MXR6999MP	SMD 136-5609●	12.42	10.35	8.28
MXR7202ML	SMD 136-5610●	12.42	10.35	8.28
MXR7210ML	SMD 136-5611●	12.42	10.35	8.28
MXR9500MZ	SMD 136-5612●	11.18	9.32	7.45
MXA6500MP	SMD 136-5613●	8.49	7.08	5.66

BU Series Accelerometers



The BU Series piezo-ceramic accelerometer has an output from 20 Hz to above 10 kHz. It is used primarily as a contact microphone for high noise environments, it can also be used as an accelerometer with lightweight structures.

Features:
- High vibration sensitivity
- Integral FET amplifier
- High resistance to mechanical shock
- Quiescent Current Drain (@ Vs=1.3VDC)
- Output Impedance @ 1kHz: 4.4k (nominal)
- Small size (7.92mm x 5.59mm x 4.14mm)

Sensitivity in dB Relative to 1.0V/g

RL Re-reeling available

Mftrs. List No.	Frequency (Hz)	Min	Nom	Max
BU23173	300	–	-39.0	–
	1000	-43.5	-39.0	-34.5
	3000	–	-37.5	–
BU21771	300	–	-45.0	–
	1000	-49.5	-45.0	-40.5
	3000	–	-44.5	–

492801

Mftrs. List No.	Order Code	Price Each 1+	10+	100+
BU23173	132-6386●	29.28	26.14	23.60
BU21771	132-6388●	26.66	23.81	21.50

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Logic Level Translators

ANALOG DEVICES

422929

	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
3300	20	TSSOP	Low Voltage 1.15 V to 5.5 V, 8-Channel, BidirectionalLogic Level Translator	ADG3300BRUZ	SMD 107-8229●	2.53	2.07	1.70
3304	14	TSSOP	Low Voltage 1.15 V to 5.5 V, 4-Channel, BidirectionalLogic Level Translator	ADG3304BRUZ	SMD 107-8228●	2.38	1.61	1.20
3308	20	TSSOP	Low Voltage 1.15 - 5V, 8-Channel BidirectionalLogic Level Translator	ADG3308BRUZ	SMD 945-3083●	3.69	2.69	2.00

FXL series are designed to translate up or down, for logic in the range of 1.0 V to 3.3 V. Utilizing space and power conserving technologies, these are ideal for use in ultra portables such as cell phones and digital cameras.

FAIRCHILD SEMICONDUCTOR

488544

Mftrs. List No.	Mftr.	Pins	Pkg	Function	Order Code	Price Each 1+	10+	100+
						MIXED QUANTITY PRICING		
FXLH1T45L6X	FCH	6	MicroPak	1-Bit Bi-directional Translator, Bushold Inputs	SMD 149-5485● RL	0.34	0.25	0.23
FXL2TD245L10X	FCH	10	MicroPak	Dual Supply 2-Bit Translator, Configurable Vsupp, 3-STATE Outputs, Independent Direction Controls	SMD 149-5482● RL	0.73	0.51	0.47
FXL4TD245BQX	FCH	16	DQFN	Dual Supply 2-Bit Translator, Configurable Vsupp, 3-STATE Outputs, Independent Direction Controls	SMD 149-5484● RL	0.73	0.52	0.49

Analogue Front Ends for Imaging Applications

ANALOG DEVICES

The AD98xx/99xx series are complete analogue signal processors for digital still cameras and other CCD imaging applications.

The internal registers are programmed through a 3-wire serial digital interface. Programmable features include gain adjustment, black level adjustment, input configuration, and power-down modes.

The 99xx parts have an integrated timing generator.

487058

Mftrs. List No.	Pins/ Package	Res (Bits)	Fs Max (MSPS)	DNL typ (LSB)	SNR typ (dB)1	Power (mW)	Input Range (Vp-p)	PGA Gain (dB)3	PxGA™	Black Level Adj. (LSB)	Prog V-clock	Prog H-clock/ H-drivers	H-Driver Voltage (V)	Integrated V-Driver Channels	Order Code	Price Each 1+	10+	100+
AD9824KCPZ	48/LFCSP	14	30	±0.5	78	153	1	0 - 34	Yes	0 - 1020	No	No	–	–	SMD 143-8598●	21.24	16.89	15.00
AD9927BBCZ	128/CSPBGA	14	40	±0.5	78	316	1	6 - 42	No	0 - 255	Yes	Yes	3	18	SMD 143-8956●	15.93	12.67	11.25
AD9948KCPZ	40/LFCSP	10	25	±0.4	74	220	1	0 - 36	Yes	0 - 64	No	Yes	3	–	SMD 143-8957●	11.34	9.27	7.61
AD9949KCPZ	40/LFCSP	12	36	±0.5	74	320	1	0 - 36	Yes	0 - 255	No	Yes	3	–	SMD 143-8958●	12.16	9.90	8.14
AD9970BCPZ	32/LFCSP	14	65	±0.5	78	150	1	6 - 42	No	0 - 255	No	Yes	3	–	SMD 143-8959●	15.87	12.92	11.45
AD9974BBCZ	100/CSPBGA	14	65	±0.5	78	300	1	6 - 42	No	0 - 255	No	Yes	3	–	SMD 143-8961●	72.03	58.70	48.23
AD9978BCPZ	40/LFCSP	14	55	±0.5	78	190	1.4	6 - 42	No	0 - 255	No	No	–	–	SMD 143-8962●	35.12	28.62	23.51
AD9979BCPZ	48/LFCSP	14	65	±0.5	78	150	1	6 - 42	No	0 - 255	No	Yes	3	–	SMD 143-8963●	18.02	14.68	12.06
AD9992BBCZ	105/CSPBGA	12	40	±0.5	78	316	1	6 - 42	No	0 - 255	Yes	Yes	3	–	SMD 143-8964●	13.49	11.00	9.03

Dynamics Processor

THAT Corporation

Combines in a single IC all the active circuitry needed to construct a wide range of dynamics processors. The 4301 includes a high-performance, exponentially-controlled Blackmer® VCA, a log-responding RMS-level sensor and three general-purpose opamps.

The Blackmer VCA provides two opposing- polarity, voltage- sensitive control ports. Dynamic range exceeds 115 dB, and THD is typically 0.003% at 0 dB gain.
The RMS detector provides accurate rms-to-dc conversion over an 80 dB dynamic range for signals with crest factors up to 10. One opamp is dedicated as a current-to-voltage converter for the VCA, while the other two may be used for the signal path or control voltage processing.

The combination of exponential VCA gain control and logarithmic detector response - "decibel-linear" response - simplifies the mathematics of designing the control paths of dynamics processors. This makes it easy to design audio compressors, limiters, gates, expanders, de-essers, duckers, noise reduction systems and the like. The high level of integration ensures excellent temperature tracking between the VCA and the detector, while minimizing the external parts count.

467583

Mftrs. List No.	Pins	Pkg	Order Code	Price Each 1+	10+	100+	250+	500+
THAT4301P20-I	20	DIP	135-4170●	5.54	4.43	3.70	3.17	2.96

Temperature Controllers and Transducers

224016

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
01	ADI	8	DIP	Low Power, Programmable Temperature Controller	TMP01FPZ	107-9406●	5.130	3.500	2.820	– –	– –
01	ADI	8	SOIC	Temperature Controller, Low Power Programmable	TMP01FSZ	SMD 107-9393●	5.170	3.530	2.620	– –	– –
3	FSL	28	SOIC	Monolithic Intelligent Motor Controller	MC3PHACVDWE	SMD 114-8373●	7.020	4.950	4.320	3.880	– –
3	FSL	28	DIP	Monolithic Intelligent Motor Controller	MC3PHACVPE	114-8374●	7.020	4.950	4.320	3.900	– –
4	ADI	8	SOIC	CMOS/TTL Temperature Sensor Serial Digital Output Thermometer	TMP04FSZ	NEW SMD 165-1318●	5.310	4.120	3.380	3.100	2.660
4	ADI	3	TO-92	Serial Digital Output Thermometer CMOS/TTL Comp. -40°C to +100°C	TMP04FT9Z	143-8759●	5.620	3.830	3.090	– –	– –
5	ADI	5	SC-70	Complete Temperature Monitoring System	TMP05AKSZ-500RL7	NEW SMD 165-1315●	1.160	0.890	0.730	0.670	0.650
5	ADI	5	SOT-23	Complete Temperature Monitoring System	TMP05BRTZ-500RL7	NEW SMD 165-1317●	1.640	1.280	1.030	0.950	0.930
05	ADI	5	SOT-23	±2°C Accurate PWM Temperature Sensor	TMP05ARTZ	SMD 146-1535●	1.730	1.200	0.860	0.800	0.750
05	ADI	5	SOT-23	±1°C Accurate PWM Temperature Sensor	TMP05BRTZ	SMD 146-1536●	2.230	1.520	1.130	1.070	1.020
17	ADI	8	SOIC	Current Output Temperature Transducer 4 V to 30 V 1 µA/K	TMP17FSZ	SMD 143-9058●	3.300	2.660	2.100	– –	– –
18	MAX	3	TO-92	Programmable resolution, One-wire Digital Thermometer (-55°C to +120°C)	DS18B20+	118-7948●	4.500	2.880	1.660	– –	– –
18	MAX	3	TO-92	High Precision, One-wire Digital Thermometer (±0.5°C acc. -10°C to +85°C)	DS18S20+	972-4761●	4.500	2.880	1.660	– –	– –
18	MAX	8	SOIC	High Precision, One-wire Digital Thermometer (±0.5°C acc. -10°C to +85°C)	DS18S20Z+	SMD 972-4770●	4.500	2.880	1.660	– –	– –
19	NSC	3	TO-92	Precision Temp. Sensor, -11mV/°C output, acc ±2.5°C @ 30°C, -55°C to +130°C	LM19CIZ	948-9649●	0.530	0.310	0.250	– –	– –
20	ST	4	UDFN	Ultra-low current 2.4V precision analog temperature sensor	STLM20DD9F	SMD 139-1130●	0.740	0.550	0.460	0.410	0.390
20	ST	5	SC-70	Ultra-low current 2.4V precision analog temperature sensor	STLM20W87F	SMD 139-1131●	0.670	0.500	0.370	0.340	0.330
20	NSC	5	SC-70	Precision Centigrade Temp. Sensor, sensor Gain -11.7mV/°C, acc. ±2.5°C @ 30°C, -55°C to +130°C	LM20BIM7	SMD 977-9264● RL	0.820	0.550	0.450	– –	– –
20	ST	4	UDFN	Ultra-low current 2.4V precision analog temperature sensor	STLM20DD9F	SMD 139-1130●	0.740	0.550	0.460	0.410	0.390

RL Re-reeling available

Temperature Controllers and Transducers - continued

Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
20 ST	5	SC-70	Ultra-low current 2.4V precision analog temperature sensor	STLM20W87F	SMD 139-1131	0.670	0.500	0.370	0.340	0.330
26 NSC	5	SOT-23	±3°C Accurate, Factory Preset Thermostat	LM26CIM5-DPB	NEW SMD 166-2999	1.110	0.840	0.670	0.610	0.560
26 NSC	5	SOT-23	±3°C Accurate, Factory Preset Thermostat	LM26CIM5-YPE	NEW SMD 166-3003	1.140	0.860	0.680	0.620	0.570
26 NSC	6	LLP	Preset Temperature Switch & Temperature Sensor	LM26LVCISD/NOPB	NEW SMD 168-5536	1.270	0.980	0.810	0.740	0.660
26 NSC	5	SOT-23	Thermostat, Factory Preset, +- 3°C	LM26CIM5-NPA	SMD 442-6113	1.000	0.680	0.550	– –	– –
26 NSC	5	SOT-23	Precision digital-output, Low Power thermostat With internal Reference, DAC, sensor and comparator. 85°C trip, ±3°C Acc.	LM26CIM5-TPA	SMD 977-9124	1.170	0.820	0.670	– –	– –
26 NSC	5	SOT-23	Precision digital-output, Low-Power thermostat With internal Reference, DAC, sensor and comparator. 105°C trip, ±3°C Acc.	LM26CIM5-XPA	SMD 119-7403	0.780	0.540	0.450	– –	– –
26 NSC	5	SOT-23	SOT-23, ±3°C Accurate, Factory Preset Thermostat @ 45°C	LM26CIM5-PHA	SMD 131-2672	0.490	0.400	0.350	0.310	0.290
26 NSC	5	SOT-23	SOT-23, ±3°C Accurate, Factory Preset Thermostat @ 65°C	LM26CIM5-RPA	SMD 131-2673	0.970	0.750	0.590	0.530	0.500
26 NSC	5	SOT-23	SOT-23, ±3°C Accurate, Factory Preset Thermostat @ 70°C	LM26CIM5-SHA	SMD 131-2675	0.640	0.480	0.390	0.360	0.310
26 NSC	5	SOT-23	SOT-23, ±3°C Accurate, Factory Preset Thermostat @ 75°C	LM26CIM5-SPA	SMD 131-2676	0.990	0.760	0.600	0.550	0.500
26 NSC	5	SOT-23	SOT-23, ±3°C Accurate, Factory Preset Thermostat @ 90°C	LM26CIM5-VHA	SMD 131-2677	0.640	0.480	0.390	0.360	0.310
26 NSC	5	SOT-23	SOT-23, ±3°C Accurate, Factory Preset Thermostat @ 95°C	LM26CIM5-VPA	SMD 131-2678	0.970	0.750	0.590	0.530	0.500
26 NSC	5	SOT-23	SOT-23, ±3°C Accurate, Factory Preset Thermostat @ 110°C	LM26CIM5-YHA	SMD 131-2679	0.490	0.400	0.350	0.310	0.300
26 NSC	5	SOT-23	Low-Power Thermostat, 0°C trip	LM26CIM5-HHD	SMD 134-2333	0.630	0.520	0.460	0.390	0.350
27 NSC	5	SOT-23	SOT-23, ±3°C Accurate, 120°C-150°C Factory Preset Thermostat.	LM27CIM5-1HJ	SMD 131-2685	1.790	1.350	1.090	0.980	0.880
27 NSC	5	SOT-23	SOT-23, ±3°C Accurate, 120°C-150°C Factory Preset Thermostat.	LM27CIM5-ZHJ	SMD 131-3869	1.100	0.870	0.770	0.640	0.630
28 MAX	8	SOP	1-Wire Digital Thermometer with Sequence Detect and PIO	DS28EA00U+	SMD 143-3253	3.710	2.990	2.280	2.250	2.160
32 NSC	8	TSSOP	Dual ThermAl Diode Temperature Sensor With SensorPath Bus	LM32CIMT	SMD 818-1780	2.310	1.960	1.570	– –	– –
34 NSC	3	TO-92	Precision Fahrenheit Temp. Sensor, -40°F to +230°F	LM34CZ	121-5187	5.790	3.970	3.290	2.940	2.820
35 NSC	3	TO-46	Precision Centigrade Temp. Sensor, 10mV/°C output, acc. ±0.5°C @25°C, -40°C to +110°C ext. temp	LM35CAH	121-5189	16.050	11.700	9.560	9.020	8.360
35 NSC	3	TO-92	Precision Centigrade Temp. Sensor, 10mV/°C output, acc. 0.5°C @25°C, -10°C to +100°C	LM35CAZ	949-4529	4.440	2.740	2.180	– –	– –
35 NSC	3	TO-92	Precision Centigrade Temp. Sensor, 10mV/°C output, acc. ±1.0°C @25°C, -40°C to +110°C ext. temp	LM35CZ	948-8197	4.500	2.670	2.120	1.830	1.630
35 NSC	3	TO-46	Precision Centigrade Temp. Sensor, 10mV/°C output, acc. ±1.0°C @25°C, 0°C to +100°C	LM35DH	121-6166	10.210	6.910	5.250	5.140	4.940
35 NSC	8	SOIC	Precision Centigrade Temp. Sensor, 10mV/°C output, acc. ±1.0°C @25°C, 0°C to +100°C	LM35DM	SMD 949-3930	1.570	1.040	0.760	0.490	0.470
35 NSC	3	TO-92	Precision Centigrade Temp. Sensor, 10mV/°C output, acc. ±1.0°C @25°C, 0°C to +100°C	LM35DZ	948-8200	1.200	0.710	0.560	0.480	0.430
36 ADI	5	SOT-23	Voltage Output Temperature Sensor	TMP36GRTZ-REEL7	NEW SMD 166-1084	0.890	0.700	0.570	0.520	0.430
36 ADI	8	SOIC	Voltage Output Temperature Sensor	TMP36GSZ	NEW SMD 166-1086	0.890	0.700	0.570	0.520	0.430
36 ADI	3	TO-92	Voltage Output Temperature Sensor -40°C to +125°C, 10 mV/°C, ±3.0°C @ 25°C	TMP36GT9Z	143-8760	1.200	0.850	0.650	0.490	0.440
36 ADI	8	SOIC	Voltage Output Temperature Sensor +2.7 V to +5.5 V 10 mV/8°C.	TMP36FSZ	SMD 143-9059	1.470	1.000	0.720	– –	– –
40 NSC	14	TSSOP	Hardware Monitor With Dual ThermAl Diodes and SensorPath Bus	LM40CIMT	SMD 818-1799	2.240	1.900	1.540	– –	– –
41 NSC	14	TSSOP	Hardware Monitor With ThermAl Diode Inputs and SensorPath Bus	LM41CIMT	SMD 818-1594	2.120	1.800	1.450	– –	– –
45 NSC	3	SOT-23	Precision Centigrade Temp. Sensor, 10mV/°C output, acc. ±3.0°C @25°C, -40°C to +125°C ext. temp	LM45BIM3	SMD 977-9876	1.380	1.180	1.080	– –	– –
45 NSC	3	SOT-23	Precision Centigrade Temp. Sensor, 10mV/°C output, acc. ±3.0°C @25°C, -40°C to +125°C ext. temp	LM45CIM3	SMD 977-9310	0.580	0.350	0.280	0.230	0.210
50 FCH	3	SOT-23	CMOS Analogue Temperature Sensor O/P 10mV/°C.	FM50S3X	NEW SMD 156-4479	0.560	0.420	0.340	0.290	0.240
50 NSC	3	SOT-23	Precision Centigrade Temp. Sensor, 10mV/°C output, acc. ±2.0°C @25°C, -40°C to +125°C ext. temp	LM50BIM3	SMD 977-9884 RL	1.110	0.660	0.530	– –	– –
50 NSC	3	SOT-23	Single-Supply Centigrade Temp. Sensor, 10mV/°C output, acc.±3.0°C @ 25°C, -40°C to 125°C ext. temp	LM50CIM3	SMD 977-9620	0.620	0.370	0.300	0.250	0.220
56 NSC	8	SOIC	Dual Output Low Power Thermostat, trip point acc. ±2°C (SOP)	LM56BIM	SMD 949-4227	1.540	1.250	1.160	1.120	1.050
56 NSC	8	MSOP	Dual Output Low Power Thermostat, trip point acc. ±2°C (MSOP)	LM56BIMM	SMD 977-8489	2.470	1.800	1.180	– –	– –
56 NSC	8	SOIC	Dual Output Low Power Thermostat, trip point acc. ±3°C	LM56CIM	SMD 949-4197	1.230	1.000	0.910	0.890	0.840
56 NSC	8	SOIC	Dual Output Low Power Thermostat, trip point acc. ±3°C	LM56CIM.	SMD 791-787	1.170	0.730	0.610	0.410	0.400
60 MAX	3	SOT-23	Micro-Centigrade Temperature Sensor, 6.25mV/°C output, acc. ±2°C -40°C to 125°C, functionally compatible With LM60.	DS60R+	SMD 972-4842	2.040	1.720	1.190	– –	– –
60 NSC	3	SOT-23	Precision Centigrade Temp Sensor, 6.25mV/°C output, acc ±2°C @ 25°C, -40°C to +125°C ext temp.	LM60BIM3	SMD 977-9132 RL	0.930	0.710	0.550	– –	– –
60 NSC	3	TO-92	Precision Centigrade Temp Sensor, 6.25mV/°C output, acc ±2°C @ 25°C, -40°C to +125°C ext temp.	LM60BIZ	948-9657	0.590	0.420	0.340	– –	– –
60 NSC	3	SOT-23	Precision Centigrade Temp. Sensor, 6.25mV/°C output, acc. ±3.0°C@ 25°C, -40°C to +125°C ext. temp	LM60CIM3	SMD 977-9698 RL	1.600	1.030	0.730	0.440	0.390
60 NSC	3	TO-92	Precision Centigrade Temp Sensor, 6.25mV/°C output, acc ±3°C @ 25°C, -40°C to +125°C ext temp.	LM60CIZ	948-9665	0.450	0.370	0.330	– –	– –
61 NSC	3	SOT-23	Temperature Sensor -30°C to 100°C	LM61BIM3/NOPB	NEW SMD 156-4759	0.700	0.550	0.440	0.390	0.370
61 NSC	3	TO-92	2.7V Temperature Sensor	LM61BIZ/NOPB	NEW 156-4767	0.640	0.510	0.400	0.370	0.330
61 NSC	3	SOT-23	Precision Centigrade Temp. Sensor, 10mV/°C output, acc. ±2°C @25°C, -30°C to +100°C, +2.7V Single supply.	LM61BIM3	SMD 119-7387	1.770	0.950	0.720	– –	– –
61 NSC	3	SOT-23	Precision Centigrade Temp. Sensor, 10mV/°C output, acc. ±3°C @25°C, -30°C to +100°C, +2.7V Single supply.	LM61CIM3	SMD 119-7388	0.630	0.430	0.350	– –	– –
63 NSC	8	SOIC	±1°C Accurate Remote Diode Digital Temperature Sensor with Integrated Fan Control	LM63CIMA	SMD 128-6926	2.280	1.710	1.390	1.240	1.110
63 NSC	8	SOIC	±3°C Accurate Remote Diode Digital Temperature Sensor with Integrated Fan Control	LM63DIMA	SMD 128-6925	1.390	1.040	0.840	0.770	0.700
64 NSC	24	LLP	+-1°C Remote Diode Temperature Sensor With PWM Fan Control and 5 GPIO's.	LM64CILQ-F	SMD 818-1802	2.090	1.780	1.430	– –	– –
70 NSC	8	SOIC	Temp Sensor With 10-Bit + sign resolution, SPI and Microwire compatible interface. acc. +3.5°C/-2°C, -55°C to +150°C ext temp.	LM70CIMM-5	SMD 977-9230	1.550	0.940	0.770	– –	– –
70 NSC	8	Mini SOIC	SPI/MICROWIRE™10-Bit plus Sign Digital Temperature Sensor	LM70CIMM-3	SMD 131-2795	1.500	1.130	0.910	0.830	0.770
71 NSC	8	Mini SOIC	SPI/MICROWIRE™ 13-Bit Plus Sign Temperature Sensor.	LM71CIMF	SMD 131-2796	1.740	1.170	0.970	0.910	0.840
73 NSC	6	SOT-23	2.7V, SOT-23, 11-to-14 Bit Digital Temperature Sensor with 2-Wire Interface.	LM73CIMK-0	SMD 131-2598	1.320	0.900	0.730	0.690	0.640
73 NSC	6	SOT-23	2.7V, SOT-23, 11-to-14 Bit Digital Temperature Sensor with 2-Wire Interface.	LM73CIMK-1	SMD 131-2599	1.190	0.900	0.750	0.650	0.600
74 NSC	8	SOIC	12Bit ADC with Sign Temperature Sensor Serial Interface.	LM74CIM-3/NOPB.	NEW SMD 168-5507	1.140	0.890	0.730	0.660	0.590
74 MCHIP	5	TO-220	Thermal Sensor, Digital	TC74A5-5.0VAT	133-2318	0.950	0.790	0.520	– –	– –
74 MCHIP	5	SOT-23A	Serial Digital Thermal Sensor (IND TEMP)	TC74A0-5.0VCTTR	SMD 976-2671	0.810	0.580	0.480	– –	– –
74 MCHIP	5	TO-220	Thermal Sensor, Digital	TC74A0-5.0VAT	133-2317	1.020	0.750	0.560	– –	– –
74 NSC	8	SOIC	13 Bit Temperature Sensor 0.0625°C Temp Resolution	LM74CIM-3/NOPB	NEW SMD 156-4734	1.270	0.990	0.800	0.720	0.670
74 MCHIP	5	TO-220	Tiny Serial Digital Thermal Sensor	TC74A3-5.0VAT	NEW SMD 162-7189	1.320	1.000	0.790	– –	– –
74 MCHIP	5	TO-220	5V Tiny Serial Digital Thermal Sensor.	TC74A2-5.0VAT	NEW SMD 162-7206	1.320	1.000	0.790	– –	– –
75 MCHIP	8	MSOP	2-Wire Serial Temperature Sensor	TCN75AVUA.	NEW SMD 162-7191	0.660	0.500	0.390	– –	– –
75 NSC	8	SOIC	Digital Temperature Sensor & Thermal Watchdog with I2C	LM75CIM-5/NOPB	NEW SMD 156-4753	1.390	1.100	0.890	0.800	0.730
75 MCHIP	8	SOIC	-40°C to 125°C Range Temperature to 12 Bit Digital Converter with Serial Interface.	TCN75AV0A.	NEW SMD 160-5585	0.660	0.500	0.390	– –	– –
75 MAX	8	SOIC	Thermometer & thermostat	DS75LVS+	SMD 143-3206	1.800	1.150	0.720	0.690	0.670
75 MAX	8	µMAX	Thermometer & thermostat	DS75LVU+	SMD 143-3207	1.800	1.150	0.720	0.690	0.670
75 MAX	8	SOIC	Digital Thermometer and Thermostat	DS75LXS+	SMD 143-3208	1.080	0.980	0.900	0.830	0.620
75 MAX	8	µSOP	Digital Thermometer and Thermostat	DS75LXU+	SMD 143-3211	1.080	0.980	0.900	0.830	0.620
75 ADI	8	SOIC	±2°C Accurate, 12-Bit Digital Temperature Sensor	ADT75ARZ	SMD 111-7116	1.740	1.200	0.860	0.800	0.740
75 MAX	8	SOIC	2-wire thermAl Watchdog, 9/12 Bit resolution, 3 address lines, alarm output, -40°C to +125°C,acc. ±2°C. Pin/software compatible With LM75CIM-x	DS75S+	SMD 972-4850	1.800	1.150	0.720	– –	– –

RL Re-reeling available

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
75	NSC	8	SOIC	Temp. Sensor With I2C interface, 9-Bit Delta-SigmA ADC and digital over-temperature detector, acc. ±2°C @ 25°C, -55°C to 125°C ext. temp., 3V operation	LM75CIM-3	SMD 121-5196●	1.780	1.210	0.990	0.920	0.860
75	NSC	8	SOIC	Temp. Sensor With I2C interface, 9-Bit Delta-SigmA ADC and digital over-temperature detector, acc. ±2°C @ 25°C, -55°C to 125°C ext. temp., 5V operation	LM75CIM-5	SMD 949-3867●	1.500	1.230	1.120	1.100	1.030
75	MCHIP	8	SOIC	2-wire Serial Temperature Sensor and ThermAl Monitor	TCN75-5.0MOA	SMD 121-2686●	1.070	0.600	0.520	– –	– –
75	TI	8	SOIC	Temperature Sensor	TMP75AIDR	SMD 845-5970● RL	0.850	0.610	0.490	– –	– –
76	NSC	8	SOIC	Digital temperature sensor With thermal window comparator, serial two-wire interface, cascadeable to four devices on a Single Bus, Sense range -10°C to +45°C Acc.± 1.0°C	LM76CHM-5	SMD 948-6542●	2.050	1.680	1.540	– –	– –
77	NSC	8	SOIC	Digital Temperature Sensor and Thermal Window Comparator	LM77CIM-3/NOPB	NEW SMD 168-5499●	1.520	1.180	0.960	0.880	0.790
77	NSC	8	MSOP	Digital Temperature Sensor with Thermal Window Comparator	LM77CIMM-3/NOPB	NEW SMD 156-4720●	1.390	1.100	0.890	0.800	0.730
77	MCHIP	8	SOIC	3.3V Thermal Sensor with SPI™ Interface ±1°C@25°C	TC77-3.3MOA	SMD 143-9513●	0.830	0.450	0.400	– –	– –
77	MCHIP	5	SOT-23A	-55°C to 125°C Range Temperature to 13 Bit Digital Converter with Serial Interface	TC77-3.3MCTTR	NEW SMD 160-5583●	0.960	0.730	0.570	– –	– –
77	MCHIP	8	SOIC	5V Thermal Sensor with SPI™ Interface ±1°C@25°C	TC77-5.0MOA	SMD 143-9514●	0.830	0.450	0.400	– –	– –
77	NSC	8	SOIC	Digital temperature sensor With thermal window comparator, serial two-wire interface, cascadable to four devices on a Single Bus, sense range -55°C to + 125°C Acc. ±3°C.	LM77CIM-5	SMD 948-9630●	1.150	0.850	0.660	– –	– –
77	MCHIP	5	SOT-23	Thermal Sensor with SPI Interface	TC77-5.0MCTTR	SMD 129-2291●	0.910	0.640	0.540	– –	– –
80	NSC	24	TSSOP	Serial I/P ACPI-Compatible Micropro. System Hardware Monitor	LM80CIMT-5/NOPB	NEW SMD 168-5660●	5.820	4.780	3.910	3.590	3.210
82	NSC	16	QSOP	Remote Diode and Local Digital Temperature Sensor with Two-Wire Interface	LM82CIMQA/NOPB	NEW SMD 168-5662●	3.220	2.650	2.170	1.990	1.780
83	NSC	16	QSOP	Triple-Diode Input and Local Digital Temperature Sensor	LM83CIMQA/NOPB	NEW SMD 168-5494●	5.300	4.120	3.370	3.100	2.760
83	NSC	16	QSOP	Triple-Diode Input with Local Digital Temperature Sensor & Two-Wire Interface	LM83CIMQA/NOPB.	NEW SMD 156-4668●	4.440	3.670	3.100	2.800	2.430
84	NSC	16	QSOP-16	Diode Input Digital Temperature Sensor with Two-Wire Interface.	LM84BIMQA.	SMD 128-6931●	2.360	2.230	2.090	1.800	1.540
87	NSC	24	TSSOP	Serial Interface System Hardware Monitor with Remote Diode Temperature Sensing	LM87CIMT.	SMD 128-6932●	4.180	3.720	3.400	3.050	2.610
90	NSC	8	Mini SOIC	±3°C Accurate, Remote Diode and Local Digital Temperature Sensor with Two-Wire Interface	LM90CIMM	SMD 131-2798●	1.050	0.800	0.630	0.570	0.530
92	NSC	8	SOIC	Temp Sensor With I²C interface, 12-Bit sign output, acc. ±0.33°C, -55°C to +150°C ext temp.	LM92CIM	SMD 948-9711●	3.190	2.610	2.400	– –	– –
94	NSC	56	TSSOP	LM94 - TruTherm Hardware Monitor with PI Loop Fan Control for Server Management	LM94CIMT	SMD 128-6934●	11.070	8.380	6.660	5.520	4.370
99	NSC	8	Mini SOIC	±1°C Accurate, High Temperature, Remote Diode Temperature Sensor with Two-Wire Interface	LM99-1CIMM	SMD 131-2804●	1.850	1.400	1.120	1.020	0.920
99	NSC	8	Mini SOIC	±1°C Accurate, High Temperature, Remote Diode Temperature Sensor with Two-Wire Interface	LM99CIMM	SMD 131-2805●	1.900	1.420	1.150	1.030	0.920
100	TI	6	SOT-23	Digital Temperature Sensor	TMP100NA/250G4	SMD 123-4659●	1.300	1.040	0.820	0.700	0.640
101	ZMD	3	E-Line	Rapid Response, Low-Cost Temperature Sensor IC With Voltage output.	TSIC101WEB	128-6348●	3.710	3.110	2.620	2.300	1.890
101	ZMD	8	SOP	Rapid Response, Low-Cost Temperature Sensor IC With Voltage output.	TSIC101WST	SMD 128-6235●	1.780	1.460	1.250	1.090	0.900
101	TI	14	CDIP SB	Precision, Low Drift 4-20mA Two-Wire Transmitter	XTR101BG	146-1139●	61.730	53.310	48.870	45.060	43.220
105	TI	14	SOIC	Current Loop Transmitter	XTR105U	SMD 121-2353●	8.330	6.390	5.420	– –	– –
105	BB	14	SOIC	Current transmitter With sensor excitation and linearisation.	XTR105UA	SMD 109-7399●	7.190	5.280	4.150	– –	– –
106	ZMD	3	E-Line	Rapid Response, Low-Cost Temperature Sensor IC With digital output.	TSIC106WEB	128-6355●	3.550	2.950	2.510	2.180	1.810
106	ZMD	8	SOP	Rapid Response, Low-Cost Temperature Sensor IC With digital output.	TSIC106WST	SMD 128-6354●	1.600	1.320	1.120	0.980	0.810
106	TI	14	PDIP	4-20mA Current Transmitter with Bridge Excitation And Linearisation	XTR106P	146-1142●	8.320	6.380	5.410	5.180	4.850
110	TI	16	CDIP SB	Precision Voltage-To-Current Converter/Transmitter	XTR110BG	146-1144●	53.480	46.170	41.410	40.310	39.280
111	TI	10	SON	Precision Voltage-to-Current Converter/Transmitter	XTR111AIDRCTG4	SMD 139-0693●	2.350	1.890	1.560	1.340	1.270
112	TI	14	SOIC	4-20mA Current Transmitter with Bridge Excitation And Linearisation	XTR112UA	SMD 146-1146●	7.130	4.860	3.920	3.780	3.520
115	TI	8	SOIC	Current Loop Transmitter	XTR115U	SMD 121-2354●	2.480	1.780	1.320	– –	– –
115	BB	8	SOIC	Precision 4mA to 20mA Current Transmitter With 2.5Vref sensor excitation. (IND TEMP).	XTR115UA	SMD 109-7503●	2.190	1.490	1.110	– –	– –
116	BB	8	SOIC	Precision 4mA to 20mA Current Transmitter With 4.096Vref sensor excitation. (IND TEMP).	XTR116UA	SMD 109-7504●	2.360	1.710	1.370	– –	– –
117	TI	8	SON	4-20mA Current Loop Transmitter	XTR117AIDRBTG4	SMD 139-0694●	1.640	1.290	1.080	0.920	0.860
117	TI	8	SON	Current Transmitter 4-20mA	XTR117AIDRBT	SMD 118-0131●	2.170	1.500	1.080	0.940	0.780
125	TI	6	SOT-23	2C Accurate Digital Temperature Sensor With SPI Interface	TMP125AIDBVT	SMD 996-9136●	1.200	1.000	0.860	– –	– –
135	NSC	3	TO-46	Temp. Sensor, -55°C to +150°C, directly calibrated in °Kelvin	LM135H	121-6167●	12.560	8.510	6.950	6.560	6.080
141	TI	8	MSOP	Digital Out Temperature Sensor With SensorPath™ Bus	TMP141AIDGKTG4	SMD 996-9144●	0.720	0.600	0.490	0.440	– –
175	TI	8	SOIC	Temperature Sensor	TMP175AID	SMD 845-5961●	1.270	1.080	0.900	– –	– –
201	ZMD	3	E-Line	Precise, Rapid Response, Low-Cost Temperature Sensor IC With Voltage output	TSIC201WEB	128-6350●	2.980	2.480	2.100	1.840	1.520
206	ZMD	3	E-Line	Precise, Rapid Response, Low-Cost Temperature Sensor IC With digital output	TSIC206WEB	128-6357●	3.020	2.520	2.140	1.860	1.540
206	ZMD	8	SOP	Precise, Rapid Response, Low-Cost Temperature Sensor IC With digital output	TSIC206WST	SMD 128-6356●	2.220	1.850	1.570	1.370	1.130
300	TI	20	QFN	Industrial Analog Current/Voltage Output Driver	XTR300AIRGWTG4	SMD 139-0692●	4.430	3.550	2.910	2.480	2.410
300	TI	6	SC70	Temperature Switch Resistor-Programmable & Temperature Senor with Analogue O/P	TMP300AIDCKT	NEW SMD 156-0646●	1.670	1.460	1.070	0.970	0.830
301	ZMD	8	SOP	High-Precision, Rapid Response Temperature Sensor IC With Voltage output	TSIC301WST	SMD 128-6351●	3.340	3.040	2.750	2.530	2.200
306	ZMD	3	E-Line	High-Precision, Rapid Response Temperature Sensor IC With digital output	TSIC306WEB	128-6359●	3.570	3.260	2.950	2.720	2.360
306	ZMD	8	SOP	High-Precision, Rapid Response Temperature Sensor IC With digital output	TSIC306WST	SMD 128-6358●	5.860	4.890	4.130	3.610	2.980
316	ADI	16	QSOP	±0.5°C Accurate Digital Temperature Sensor and Quad Voltage Output 12-Bit DAC	ADT7316ARQZ	SMD 143-9052●	10.980	8.480	7.190	– –	– –
355	NSC	3	TO-92	Precision Temperature Sensor	LM335Z/NOPB	NEW 156-4652●	0.660	0.530	0.410	0.380	0.350
355	ST	3	TO-92	Precision Temperature Sensor -40°C to 100°C	LM335AZ	NEW 156-4358●	0.870	0.680	0.630	0.510	0.430
335	ST	8	SOIC	Temp. Sensor, -40°C to +100°C, directly calibrated in °Kelvin	LM335D	SMD 109-4250●	1.260	0.860	0.620	0.590	0.580
335	NSC	3	TO-46	Temp. Sensor, -40°C to +100°C, directly calibrated in °Kelvin	LM335H	121-6169●	7.050	5.900	4.930	4.600	4.310
335	ST	3	TO-92	Temp. Sensor, -40°C to +100°C, directly calibrated in °Kelvin	LM335Z	109-4251●	1.230	0.830	0.670	0.600	0.530
335	NSC	3	TO-92	Temp. Sensor, -40°C to +100°C, directly calibrated in °Kelvin	LM335Z	948-8219●	0.850	0.800	0.790	0.760	0.740
400	TI	16	SSOP	12 Bits ±1°C Remote & Local Temperature Sensor	TMP400AIDBQT	NEW SMD 156-0643●	3.040	2.670	1.940	1.780	1.500
411	ADI	16	QSOP	SPI-/I2C-Compatible, 10-Bit Digital Temperature Sensor and 8-Channel A/D Converter	ADT7411ARQZ	SMD 143-9053●	4.550	3.100	2.500	– –	– –
413	INTS	16	DIP	Quad SPST CMOS Analogue Switch.	DG413DJZ	966-3541●	1.580	0.900	0.590	– –	– –
420	TI	16	DIP	Precision 4mA to 20mA Current Loop Receiver, converts to a 0-5V output.	RCV420KPG4	121-9421●	10.060	8.110	6.920	– –	– –
422	TI	8	SOT-23	12 Bits ±1°C Remote & Local Temperature Sensor	TMP422AIDCNT	NEW SMD 156-0644●	3.430	3.010	2.180	2.010	1.690
506	ZMD	3	E-Line	High-Resolution, High-Precision, Rapid Response Temperature Sensor IC With digital output	TSIC506FEB	128-6361●	5.370	4.870	4.410	4.070	3.530
506	ZMD	8	SOP	High-Resolution, High-Precision, Rapid Response Temperature Sensor IC With digital output	TSIC506FST	SMD 128-6360●	6.850	6.230	5.640	5.210	4.510
590	ADI	2	Flatpack	Temp. Transducer - acc. ±3°C mAx., range -55°C to +150°C.	AD590JF	SMD 318-2198▲	14.430	11.070	9.390	– –	– –
590	ADI	3	TO-52	Temp. Transducer - acc. ±5°C mAx., range -55°C to +150°C.	AD590JH	409-157▲	7.110	4.850	3.910	– –	– –
590	ADI	2	Flatpack	Temp. Transducer - acc. ±2°C mAx., range -55°C to +150°C.	AD590KF	SMD 318-2204▲	15.770	12.090	10.250	9.830	– –
590	ADI	3	TO-52	Temp. Transducer - acc. ±1.6°C mAx., range -55°C to +150°C	AD590LH	318-2228▲	17.980	14.290	12.690	12.450	– –
590	ADI	2	Flatpack	Temp. Transducer - acc. ±1°C mAx., range -55°C to +150°C.	AD590MF	SMD 318-2230▲	64.870	51.580	45.810	44.930	– –
590	ADI	3	TO-52	Temp. Transducer - acc. ±1°C mAx., range -55°C to +150°C.	AD590MH	318-2241▲	42.800	34.020	30.220	29.640	– –
592	ADI	3	TO-92	Temp. Transducer - acc. ±2.5°C mAx., range -25°C to +105°C	AD592ANZ	960-5428●	4.290	2.920	2.180	– –	– –
592	ADI	3	TO-92	Temp. Transducer - acc. ±0.5°C mAx., range -25°C to +105°C	AD592CNZ	960-3948●	13.160	10.100	8.570	8.210	– –
594	ADI	14	DIP	Monolithic Thermocouple Amp. Calibrated for type J thermocouples (Ceramic) -55°C to +125°C	AD594AQ	409-182▲	10.480	8.040	6.820	– –	– –
595	ADI	14	DIP	Thermocouple Amp. for type K thermocouples. O/P 10mV°C	AD595AD	318-2265▲	22.220	19.000	16.840	15.730	– –
595	ADI	14	DIP	Monolithic Thermocouple Amp. Calibrated for type K thermocouples (Ceramic) -55°C to +125°C	AD595AQ	409-194▲	12.970	8.960	6.820	– –	– –
595	ADI	14	DIP	Monolithic Thermocouple Amp. Calibrated for type K thermocouples(Ceramic) -55°C to +125°C	AD595CQ	102-052▲	17.050	13.550	12.030	– –	– –

RL Re-reeling available

Temperature Controllers and Transducers - continued

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
596	ADI	10	TO-100	Thermocouple Conditioner and Setpoint Controller for Type J Thermocouple 10 mV/°C	AD596AHZ	143-8951●	11.640	8.930	7.570	– –	– –
597	ADI	10	TO-100	Thermocouple Conditioner and Setpoint Controller for Type KThermocouple 10 mV/°C	AD597AHZ	143-8952●	11.640	8.930	7.570	– –	– –
597	ADI	8	SOIC	Thermocouple Conditioner and Setpoint Controller Operates with Type K Thermocouple 10 mV/°C	AD597ARZ	SMC 143-8419●	5.180	3.530	2.850	– –	– –
693	ADI	20	DIP	Loop-Powered 4mA to 20mA Sensor Transmitter (Cerdip)	AD693AQ	409-212▲	14.220	10.910	9.250	– –	– –
694	ADI	16	DIP	4mA to 20mA Transmitter	AD694AQ	633-136▲	12.400	9.880	8.360	– –	– –
694	ADI	16	SOIC	4mA to 20mA Transmitter (IND TEMP)	AD694ARZ	SMC 960-5460●	8.950	6.870	5.820	– –	– –
694	ADI	16	DIP	4mA to 20mA Transmitter	AD694JNZ	960-3670●	9.720	7.460	6.330	– –	– –
1020	ROHM	5	HVSOF	Analogue Output Temperature Sensor ±2.0°C	BD1020HFV-TR	NEW SMC 160-3635●	0.270	0.210	0.175	0.151	0.140
1025	LT	8	DIP	MicroPower Thermocouple Cold Junction Compensator	LT1025CN#PBF	955-9442●	4.400	3.300	2.500	– –	– –
1046	MCHIP	3	SOT-23B	Linear output Temperature-to- Voltage Converter. (-40°C to +125°C).	TC1046VNBTR	SMC 121-2685●	0.530	0.370	0.310	– –	– –
1046	MCHIP	3	SOT-23B	Linear output Temperature-to- Voltage Converter. (-40°C to +125°C).	TC1046VNBTR.	SMC 396-8923	0.310	0.220	0.184	– –	– –
1047	MCHIP	3	SOT-23B	Precision Linear Temperature to VoltageConverter	TC1047VNBTR	NEW SMC 155-7425●	0.610	0.460	0.360	– –	– –
1047	MCHIP	3	SOT-23B	Linear output Temperature-to-Voltage Converter. (-40°C to +125°C).	TC1047AVNBTR	SMC 976-2531●	0.560	0.390	0.330	– –	– –
1617	MAX	16	QSOP	Remote or local Temperature Sensor With 2-wire serial Interface, ±3°C Remote accuracy. (QSSOP)	MAX1617MEE+	SMC 972-4109●	9.020	5.800	3.910	– –	– –
1620	MAX	8	DIP	Digital Thermometer and Thermostat	DS1620+	118-7998●	6.210	3.990	2.450	– –	– –
1620	MAX	8	SOIC	Digital Thermometer and Thermostat	DS1620S+	SMC 972-6276●	6.210	3.990	2.690	– –	– –
1621	MAX	8	DIP	Digital Thermometer and Thermostat With 2-wire serial CPU controlled interface.	DS1621+	118-8024●	4.100	2.640	1.520	– –	– –
1621	MAX	8	SOIC	Digital Thermometer and Thermostat With 2-wire serial CPU controlled interface.	DS1621S+	SMC 972-5261●	4.100	2.640	2.210	– –	– –
1624	MAX	8	SOIC	Digital Thermometer With 256bytes of EEprom providing 13-Bit temperature reading, 2-wire interface	DS1624S+	SMC 972-5270●	8.060	5.180	2.970	– –	– –
1626	MAX	8	SOIC	3-Wire Digital Thermometer/Thermostat with EEPROM	DS1626S+	NEW SMC 156-9965●	2.690	2.400	1.960	1.660	1.530
1629	MAX	8	SOIC	Digital Thermometer and Real-time Clock With Thermostatic and time alarms, 2-wire serial interface ±2°C acc. (-55°C to +125°C).	DS1629S+	SMC 972-4745●	6.670	4.450	2.630	– –	– –
1726	MAX	8	microSOIC	3-Wire Digital Thermometer/Thermostat with EEPROM	DS1726U+	NEW SMC 156-9966●	2.610	2.310	1.880	1.610	1.490
1721	MAX	8	SOIC	2-Wire Digital Thermometer and Thermostat	DS1721S+	SMC 972-3862●	3.880	2.920	2.350	– –	– –
1722	MAX	8	SOIC	Digital Thermometer With 3-wire SPI interface, ±2°C acc. (-55°C to +120°C).	DS1722S+	SMC 972-4753●	2.320	1.490	0.860	– –	– –
1821	MAX	8	SOIC	Programmable NV Digital Thermostat or 8Bit Thermometer with a 1-Wire Digital Interface	DS1821S+	NEW SMC 160-6609●	4.240	3.390	3.090	2.830	2.360
1821	MAX	3	TO-92	Programmable Digital Thermostat	DS1821+	972-6330●	5.620	3.610	2.070	– –	– –
1859	MAX	16	TSSOP	Dual Linear Temperature-Controlled NV 50kΩ 256 Positions Resistors & 3 Analogue I/P Monitors	DS1859E-050+	NEW SMC 160-6611●	4.030	3.230	2.930	2.690	2.250
3100	TI	48	LQFP	CCD/CIS Signal Processor, 14-Bit	VSP3100YG4	SMC 120-7255●	6.190	5.160	4.790	– –	– –
6501	MCHIP	5	SOT-23A	Temperature Switch with Pin Selectable Hysteresis, Open Drain, Active Low 45°C	TC6501P045VCTTR	SMC 143-9491●	0.540	0.380	0.310	– –	– –
6501	MCHIP	5	SOT-23A	Temperature Switch with Pin Selectable Hysteresis, Open Drain, Active Low 55°C	TC6501P055VCTTR	SMC 143-9493●	0.540	0.380	0.310	– –	– –
6501	MCHIP	5	SOT-23A	Temperature Switch with Pin Selectable Hysteresis, Open Drain, Active Low 65°C	TC6501P065VCTTR	SMC 143-9494●	0.540	0.380	0.310	– –	– –
6501	MCHIP	5	SOT-23A	Temperature Switch with Pin Selectable Hysteresis, Open Drain, Active Low 75°C	TC6501P075VCTTR	SMC 143-9495●	0.540	0.380	0.310	– –	– –
6501	MCHIP	5	SOT-23A	Temperature Switch with Pin Selectable Hysteresis, Open Drain, Active Low 85°C	TC6501P085VCTTR	SMC 143-9496●	0.540	0.380	0.310	– –	– –
6501	MCHIP	5	SOT-23A	Temperature Switch with Pin Selectable Hysteresis, Open Drain, Active Low 105°C	TC6501P105VCTTR	SMC 143-9497●	0.540	0.380	0.310	– –	– –
6501	MCHIP	5	SOT-23A	Temperature Switch with Pin Selectable Hysteresis, Open Drain, Active Low 115°C	TC6501P115VCTTR	SMC 143-9498●	0.540	0.380	0.310	– –	– –
6501	MCHIP	5	SOT-23A	Temperature Switch with Pin Selectable Hysteresis, Open Drain, Active Low 120°C	TC6501P120VCTTR	SMC 143-9499●	0.540	0.380	0.310	– –	– –
6501	MCHIP	5	SOT-23A	Temperature Switch with Pin Selectable Hysteresis, Open Drain, Active Low 125°C	TC6501P125VCTRT	SMC 143-9500●	0.540	0.380	0.310	– –	– –
6501	MCHIP	5	SOT-23A	Temperature Switch with Pin Selectable Hysteresis, Open Drain, Active Low 125°C	TC6501P125VCTTR	SMC 143-9501●	0.540	0.380	0.310	– –	– –
6502	MCHIP	5	SOT-23A	Temperature Switch with Pin Selectable Hysteresis, CMOS, Active High 45°C.	TC6502P045VCTTR	SMC 143-9502●	0.540	0.380	0.310	– –	– –
6502	MCHIP	5	SOT-23A	Temperature Switch with Pin Selectable Hysteresis, CMOS, Active High 55°C.	TC6502P055VCTTR	SMC 143-9503●	0.540	0.380	0.310	– –	– –
6502	MCHIP	5	SOT-23A	Temperature Switch with Pin Selectable Hysteresis, CMOS, Active High 65°C.	TC6502P065VCTTR	SMC 143-9504●	0.540	0.380	0.310	– –	– –
6502	MCHIP	5	SOT-23A	Temperature Switch with Pin Selectable Hysteresis, CMOS, Active High 75°C.	TC6502P075VCTTR	SMC 143-9505●	0.540	0.380	0.310	– –	– –
6502	MCHIP	5	SOT-23A	Temperature Switch with Pin Selectable Hysteresis, CMOS, Active High 85°C.	TC6502P085VCTTR	SMC 143-9506●	0.540	0.380	0.310	– –	– –
6502	MCHIP	5	SOT-23A	Temperature Switch with Pin Selectable Hysteresis, CMOS, Active High 95°C.	TC6502P095VCTTR	SMC 143-9507●	0.540	0.380	0.310	– –	– –
6502	MCHIP	5	SOT-23A	Temperature Switch with Pin Selectable Hysteresis, CMOS, Active High 105°C.	TC6502P105VCTTR	SMC 143-9508●	0.540	0.380	0.310	– –	– –
6502	MCHIP	5	SOT-23A	Temperature Switch with Pin Selectable Hysteresis, CMOS, Active High 115°C.	TC6502P115VCTTR	SMC 143-9511●	0.640	0.450	0.360	– –	– –
6502	MCHIP	5	SOT-23A	Temperature Switch with Pin Selectable Hysteresis, CMOS, Active High 125°C.	TC6502P125VCTTR	SMC 143-9512●	0.540	0.380	0.310	– –	– –
6610	MAX	6	SOT-23	Analogue Temperature Sensors with 2.560V Reference O/P	MAX6610AUT+T	NEW SMC 156-9959●	3.300	2.930	2.400	2.040	1.880
6612	MAX	5	SC70	1.2°C Accuracy AnalogueTemperature Sensor	MAX6612MXK+	NEW SMC 156-9962●	3.300	2.930	2.400	2.040	1.880
6613	MAX	5	SC70	1.3°C Accuracy AnalogueTemperature Sensor	MAX6613MXK+T	NEW 156-9961●	3.300	2.930	2.400	2.040	1.880
6648	MAX	8	UMAX	Remote/Local Temperature Sensors with Overtemperature Alarm	MAX6648MUA+	NEW SMC 167-3135●	3.480	2.490	1.940	1.740	1.590
6673	MAX	5	SC70	1.4kHz PWM Output Temperature Sensor.	MAX6673AXK+T	NEW SMC 156-9964●	5.650	5.010	4.110	3.470	3.230
6676	MAX	6	SOT-23	1.5°C Accuracy 1.8kHz PWM O/P Temperature Sensor	MAX6676AUT3+T	NEW SMC 156-9963●	5.650	5.010	4.110	3.470	3.230
6689	MAX	20	TSSOP	7-Channel Precision Temperature Monitor, Supports SMBus™ Protocols	MAX6689UP9A+	SMC 143-3254●	5.530	4.430	3.390	3.340	3.230
6692	MAX	8	UMAX	Remote/Local Temperature Sensors with Overtemperature Alarm	MAX6692MUA+	NEW SMC 167-3136●	3.480	2.490	1.940	1.740	1.590
6699	MAX	16	TSSOP	5-Channel Precision Temperature Monitor, Supports SMBus™ Protocols, Slave ID: 0011 010	MAX6699UE34+	SMC 143-3255●	6.910	5.540	4.240	4.180	4.030
6699	MAX	16	TSSOP	5-Channel Precision Temperature Monitor, Supports SMBus™ Protocols, Slave ID: 0011 100	MAX6699UE38+	SMC 143-3256●	6.260	5.010	3.850	3.780	3.650
7301	ADI	8	MSOP	MicroPower Digital Temperature Sensor.	ADT7301ARMZ	SMC 111-7856●	2.790	1.910	1.420	1.350	1.260
7302	ADI	8	MSOP	Remote ThermAl Controller and Voltage Monitor	ADT7302ARMZ	SMC 111-7855●	1.810	1.230	0.880	0.820	0.760
7314	ADI	8	MSOP	10-Bit Low Voltage, Digital Temp. Sensor	AD7314ARMZ	SMC 942-6345●	1.110	0.920	0.800	– –	– –
7414	ADI	6	SOT-23	SMBus/I2C Digital Temperature Sensor with SMBus Alert and Over Temperature Pin	AD7414ARTZ-0500RL7.	NEW SMC 165-1313●	1.670	1.300	1.060	0.980	0.930
7415	ADI	5	SOT-23	Digital Output Temperature Sensor	AD7415ARTZ-0500RL7.	NEW SMC 165-1312●	1.670	1.300	1.060	0.980	0.930
7416	ADI	8	SOIC	Temp. Sensor With I²C interface, 10-Bit ADC and Over Temperature Indicator, acc. ±2°C @ 25°C, -55°C to +125°C ext. temp. (Enhanced LM75)	AD7416ARZ	SMC 942-5560●	2.250	1.680	1.140	– –	– –
7417	ADI	16	SOIC	4-channel Temp. Sensor With I²C interface, 10-Bit ADC and Over Temperature Indicator, acc. ±2°C @ 25°C, -55°C to +125°C ext. temp.	AD7417ARZ	SMC 107-9321●	6.210	4.260	3.440	– –	– –
7418	ADI	8	SOIC	Temp. Sensor With I²C interface, 10-Bit ADC, Single Input channel, Reference Input and Over Temperature Indicator, acc. ±2°C @ 25°C, -55°C to +125°C ext. temp	AD7418ARZ	SMC 960-3832●	5.280	3.590	2.900	– –	– –
7470	ADI	16	QSOP	Temperature Sensor Hub and Fan Controller.	ADT7470ARQZ	SMC 111-7852●	5.000	3.430	2.550	2.420	2.260
7505	MAX	8	SOIC	High-Precision Digital Thermometer and Thermostat	DS7505S+	NEW SMC 167-3131●	3.280	2.350	1.830	1.640	1.490
7516	ADI	16	QSOP	SPI/I2C Compatible,Temperature Sensor, 4-Channel ADC and Quad Voltage Output DAC	ADT7516ARQZ	SMC 143-8683●	13.150	10.160	8.610	– –	– –
7519	ADI	16	QSOP	SPI/I2C Compatible, Temperature Sensor, 4-Channel ADC and Quad Voltage Output DAC	ADT7519ARQZ	SMC 111-7846●	7.280	4.990	4.030	3.880	3.620
7814	ADI	6	SOT-23	10Bit Temperature Sensor	AD7814ARTZ-500RL7	NEW SMC 165-1314●	1.640	1.280	1.030	0.950	0.910
9700	MCHIP	3	SOT-23	Linear Temperature Sensor with 10.0mV/°C O/P	MCP9700AT-E/TT	NEW SMC 160-5577●	0.300	0.230	0.181	– –	– –
9700	MCHIP	5	SC-70	Thermistor, Linear 10Mv/C	MCP9700AT-E/LT	SMC 133-2165●	0.240	0.196	0.127	– –	– –
9700	MCHIP	3	TO-92	Thermistor, Linear 10Mv/C	MCP9700-E/TO	133-2166●	0.220	0.127	0.110	– –	– –

RL Re-reeling available

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
9700	MCHIP	3	TO-92	Thermistor, Linear 10Mv/C	MCP9700A-E/TO	133-2164	0.240	0.196	0.127	– –	– –
9700	MCHIP	3	SOT-23	Low-Power Linear Active Thermistor	MCP9700T-E/TT	NEW SMD 162-7188	0.230	0.176	0.138	– –	– –
9701	MCHIP	5	SC70	Low-Power Linear Active Thermistor	MCP9701AT-E/LT	NEW SMD 162-7203	0.300	0.230	0.181	– –	– –
9701	MCHIP	3	TO-92	Low-Power Linear Active Thermistor ±2°C	MCP9701A-E/TO	143-9484	0.290	0.161	0.132	– –	– –
9701	MCHIP	3	TO-92	Low-Power Linear Active Thermistor ±4°C	MCP9701-E/TO	143-9483	0.220	0.127	0.110	– –	– –
9800	MCHIP	5	SOT-23A	2-Wire Temperature Sensor ±0.5°C@25°C	MCP9800A0T-M/OT	SMD 143-9485	1.030	0.730	0.580	– –	– –
9801	MCHIP	8	MSOP	-55°C to 125°C Range Temperature to 12 Bit Digital Converter	MCP9801-M/MS	NEW SMD 160-5578	1.050	0.800	0.630	– –	– –
9801	MCHIP	8	SOIC	2-Wire Temperature Sensor ±0.5°C@25°C	MCP9801-M/SN	SMD 143-9486	0.810	0.580	0.450	– –	– –
9802	MCHIP	5	SOT-23A	2-Wire Temperature Sensor ±0.5°C@25°C	MCP9802A0T-M/OT	SMD 143-9487	0.910	0.650	0.520	– –	– –
9803	MCHIP	8	SOIC	2-Wire Temperature Sensor ±0.5°C@25°C	MCP9803-M/SN	SMD 143-9488	0.860	0.610	0.480	– –	– –
9803	MCHIP	8	MSOP	2-Wire, High Accuracy Temperature Sensor	MCP9803-M/MSG	SMD 941-3944	0.860	0.640	0.550	– –	– –
9803	MCHIP	8	SOIC	2-Wire, High Accuracy Temperature Sensor	MCP9803-M/SNG	SMD 941-3952	0.860	0.640	0.550	– –	– –
9805	MCHIP	8	TSSOP	Memory Module Digital Temperature Sensor	MCP9805-BE/ST	SMD 143-9489	0.890	0.520	0.460	– –	– –
22100	ADI	3	TO-92	Temp. Sensor With Signal Conditioning, 22.5mV/°C, -50°C to +150°Cext. temp	AD22100KTZ	960-5320	3.460	2.360	1.760	– –	– –
22100	ADI	3	TO-92	Temperature Sensor with Signal Conditioning, 22.5 mV/°C, --40°C to +85°C, acc 2%	AD22100ATZ	143-8411	5.200	3.550	2.860	– –	– –
22100	ADI	8	SOIC	Temperature Sensor with Signal Conditioning, 22.5 mV/°C, -0°C to +100°C, acc 2%	AD22100KRZ	SMD 143-8412	2.510	2.000	1.530	– –	– –
22100	ADI	3	TO-92	Temperature Sensor with Signal Conditioning, 22.5 mV/°C, --50°C to +150°C, acc 2%	AD22100STZ	143-8413	5.740	3.910	3.160	– –	– –
22103	ADI	3	TO-92	3.3 V Temperature Sensor with Signal Conditioning, 28 mV/°C, 0°C to +100°C, acc 2.5%	AD22103KTZ	143-8415	2.890	1.970	1.460	– –	– –
22103	ADI	8	SOIC	Voltage Output 3.3 V Temperature Sensor with Signal Conditioning	AD22103KRZ	SMD 143-8949	3.020	2.060	1.540	– –	– –
22105	ADI	8	SOIC	Low Voltage, resistor Programmable Thermostatic Switch, 2°C set-point accuracy, -50°C to +150°C	AD22105ARZ	SMD 942-5659	3.050	2.090	1.560	– –	– –
33129	FSL	14	SOIC	High Performance Current Mode Controller	MC33129EFR2	114-8368	0.780	0.650	0.560	0.520	– –
34129	FSL	14	SOIC	High Performance Current Mode Controller	MC34129EF	114-8372	1.370	1.140	0.970	0.910	– –
94021	NSC	5	SC-70	Multi-Gain AnaLogue Temperature Sensor	LM94021BIMG	SMD 104-7766	1.000	0.680	0.550	– –	– –
94022	NSC	5	SC-70	1.5V, SC70, Multi-Gain Analog Temperature Sensor with Class-AB Output	LM94022BIMG	SMD 131-2600	0.740	0.610	0.560	0.550	0.500
94023	NSC	4	BGA	Dual-Gain Analog Temperature Sensor with Class AB Output	LM94023BITME/NOPB	NEW SMD 168-5789	0.700	0.570	0.470	0.440	0.390
95071	NSC	5	SOET-23	SPI/MICROWIRE™ 13-Bit Plus Sign Temperature Sensor	LM95071CIMF	SMD 100-8035	1.740	1.170	0.970	– –	– –
95214	NSC	14	LLP	Temp. Sensor, 2-Diode, 2-WIRE I/F	LM95213CISD	SMD 134-2334	1.420	1.180	1.030	0.890	0.800
95214	NSC	14	LLP	Temp. Sensor, 4-Diode, 2-WIRE I/F	LM95214CISD	SMD 134-2335	1.080	0.910	0.780	0.680	0.650
95221	NSC	8	Mini SOIC	Dual Remote Diode Digital Temperature Sensor with SMBus Interface	LM95221CIMM	SMD 143-3171	1.720	1.380	1.160	0.970	0.890
95231	NSC	8	Mini SOIC	Precision Dual Remote Diode Temperature Sensor with SMBus Interface and TruTherm™ Technology	LM95231CIMM	SMD 131-2799	1.550	1.160	0.950	0.850	0.780
95231	NSC	8	Mini SOIC	Precision Dual Remote Diode Temperature Sensor with SMBus Interface and TruTherm™ Technology	LM95231CIMM-1	SMD 131-2800	1.600	1.210	0.980	0.880	0.780
95231	NSC	8	Mini SOIC	Precision Dual Remote Diode Temperature Sensor with SMBus Interface and TruTherm™ Technology	LM95231CIMM-2	SMD 131-2801	1.640	1.240	1.000	0.900	0.800
95235	NSC	8	Mini SOIC	Precision Remote Diode Temperature Sensor with SMBus Interface and TruTherm™ Technology	LM95235CIMM	SMD 131-2802	1.280	0.970	0.770	0.700	0.650
95235	NSC	8	Mini SOIC	Precision Remote Diode Temperature Sensor with SMBus Interface and TruTherm™ Technology	LM95235DIMM	SMD 131-2803	3.170	2.400	1.890	1.670	1.590
95235	NSC	8	MSOP	Temperature Sensor Remote Diode	LM95235CIMM.	SMD 128-6991	1.220	0.920	0.730	0.660	0.610
96000	NSC	24	TSSOP	Hardware Monitor with Integrated Fan Control	LM96000CIMT/NOPB	NEW SMD 168-5663	3.900	3.200	2.620	2.400	2.150
145010	FSL	16	DIP	Photoelectric Smoke Detector IC With I/O	MC145010ED	114-8366	1.600	1.320	1.160	0.890	– –
145012	FSL	16	SOIC	Photoelectric Smoke Detector IC With I/O and Temporal Pattern Horn Driver	MC145012EG	114-8367	1.240	1.010	0.890	0.680	– –

Temperature Controller

MAXIM

493372

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	25+	50+	100+	250+
1978	MAX	48	TQFN	Integrated Temperature Controllers for Peltier Modules	MAX1978ETM+	SMD 137-9716	14.83	11.88	9.72	8.96	– –
1631	MAX	8	MSOP	High-Precision Digital Thermometer and Thermostat	DS1631U+	SMD 137-9815	2.46	2.02	1.83	1.59	– –
1631	MAX	8	SOIC	High-Precision Digital Thermometer and Thermostat	DS1631Z+	SMD 137-9816	2.46	2.02	1.83	1.59	– –
18	MAX	8	SOIC	Programmable Resolution 1-Wire Digital Thermometer	DS18B20Z+	SMD 137-9772	4.50	2.88	1.66	1.61	– –
18	MAX	8	MSOP	Programmable Resolution 1-Wire Digital Thermometer	DS18B20U+	SMD 137-9725	4.50	2.88	1.66	1.61	– –
600	MAX	8	MicroSOP	Analog Temperature Sensor	DS600U+	SMD 142-2277	3.42	2.88	1.66	1.59	1.55
1668	MAX	16	QSOP	Multichannel Remote/Local Temperature Sensors	MAX1668MEE+	SMD 137-9863	8.79	5.65	3.81	3.17	– –

TMP122EVM Evaluation Module

TEXAS INSTRUMENTS



Watch the functionality of the TMP122 at the register level. This board makes designing with this part effortless. It is possible to watch the interface bit stream at the test points provided. This small board is powered from the RS232 interface lines. Included software runs on Win98.

Contents:

- Full documentation on CD Rom
- Support software

492379

		Order Code	Price Each
TMP122EVM	Temp. Sensor Evaluation Module for TMP122	122-0983	48.28

11Bit Single/Dual/Quad Temperature Sensors

National Semiconductor

New

- Supply voltage 3.0V to 3.6V
- TruTherm BJT beta compensation technology
- Programmable conversion rate for best power consumption
- 2 Wire SMBus 2.0 compatible interface, supports TIMEOUT
- Three-level address pin

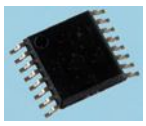
Features	LM95233	LM95234	LM95235
Remote Temp. Range	-128°C to +127.875°C	-128°C to +127.875°C	-128°C to +127.875°C
Remote Temp. Range	0°C to +225°C	0°C to +225°C	0 to +255.875°C
Local Temp. Range	-40°C to +125°C	-40°C to +125°C	25°C to +100°C
Temp Accuracy Local Max.	±2.0°C	±2.0°C	±0.5°C
Temp Accuracy Remote Max.	±0.875°C	±0.875°C	±1.5°C
No. Remote Sensors	2	4	1

515158

Pins/Package	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+
14 / LLP	LM95233CISD	SMD 155-4778	2.18	1.64	1.34	1.19
14 / LLP	LM95234CISD	SMD 155-4779	2.37	1.79	1.44	1.31
8 / MSOP	LM95245CIMM	SMD 155-4780	1.99	1.53	1.23	1.09

Temperature Controllers & Sensors

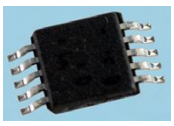
MAXIM



16 pins QSOP



48 pins TQFN



10 pins MSOP



20 pins TSSOP



16 pins TSSOP

- Interface 2-Wire SMBus Interface
- Temperature range MAX1668/6656 -55 to +125°C
- Temperature range MAX1978 -40 to +85°C
- Temperature range MAX6652/6689/6699 -40 to +125°C

RL Re-reeling available

Farnell

Temperature Controllers and Transducers - continued

Temperature Controllers & Sensors - continued

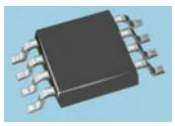
Function	Temp. Stability ±°C	No. Channels	Additional Features	Mftrs. List No.
Temp. Sensor	3.0	4 Remote & 1 Local Temp.	Programmable Under/Over Temp. Alarm	MAX1668MEE+
Temp. Controller	0.001	1 Temp.	Controller for Peltier Module, Output State Indicated by the amount of Current	MAX1978ETM+
Temp. & Voltage Sensor	2.0	4 Voltage & 1 Local Temp.	Built in 8-bit ADC for Voltage & Temp & User-Programmable Voltage and Temp. Thresholds	MAX6652AUB+
Temp. & Voltage Sensor	1.0	1 Supply & 3 Ex.Voltage, 1 Local & 2 Remote Temp.	Multiple Temp. Thresholds & 2 Alarm Outputs	MAX6656MEE+
Temp. Sensor	1.0	6 Remote & 1 Local Temp.	Programmable Under/Over Temp. Alarm	MAX6689UP9A+
Temp. Sensor	1.0	4 Remote & 1 Local Temp.	Programmable Under/Over Temp. Alarm	MAX6699UE34+

485342

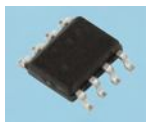
Pins/Package	Mftrs. List No.	Order Code	Price Each 1+	25+	100+	250+
16 / QSOP	MAX1668MEE+	SMD 137-9863●	8.79	5.65	3.81	3.17
48 / TQFN	MAX1978ETM+	SMD 137-9716●	14.83	11.88	9.72	8.96
10 / MSOP	MAX6652AUB+	SMD 138-0012●	3.86	3.02	2.55	2.24
16 / QSOP	MAX6656MEE+	SMD 138-0013●	6.01	4.70	3.97	3.46
20 / TSSOP	MAX6689UP9A+	SMD 143-3254●	5.53	4.43	3.39	3.34
16 / TSSOP	MAX6699UE34+	SMD 143-3255●	6.91	5.54	4.24	4.18

Digital Thermometer & Thermostat

MAXIM



8 pins µMAX



8 pins SOIC



8 pins MSOP

Features	DS75	DS18B20
Supply Voltage	1.7V to 3.7V	3.0V to 5.5V
Measured Temperature Range	-55°C to +125°C	-55°C to +125°C
Temperature Accuracy (Range °C)	±2.0 °C(-25 to +100°C)	±0.5°C(-10 to +85°C)
Bits / Conversion Time	9 bit / 25msec	12 bit / 750msec
Interface Type	2 Wire Serial	1 Wire Bus Protocol
Sensor Type	Digital Thermometer & Thermostat	Digital Thermometer
Temperature Threshold	Programmable	Programmable non-volatile
Temperature Resolution	Selectable 9 to 12 bits	Selectable 9 to 12 bits
Max. device per bus	LX=27 & LV=8	64

485343

Pins/Package	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+
8 / MSOP	DS18B20U+	SMD 137-9725●	4.50	2.88	1.66	1.61
8 / SOIC	DS18B20Z+	SMD 137-9772●	4.50	2.88	1.66	1.61
8 / SOIC	DS75LVS+	SMD 143-3206●	1.80	1.15	0.72	0.69
8 / µMAX	DS75LVU+	SMD 143-3207●	1.80	1.15	0.72	0.69
8 / SOIC	DS75LXS+	SMD 143-3208●	1.08	0.98	0.90	0.83
8 / µSOP	DS75LXU+	SMD 143-3211●	1.08	0.98	0.90	0.83

Digital Temperature Sensors

SMARTEC

The Smartec sensors represent a significant development in transducer technology. Having a single wire digital output and being fully calibrated during manufacture means it can be directly connected to processor circuitry without A/D conversion circuitry.

The sensor is a three terminal device with integrated sensor circuitry. A duty cycle modulated square wave is available from one terminal, the other two being power input and ground. At the heart of the product is a bipolar temperature sensor with precision circuitry calibrated during manufacture.

210619

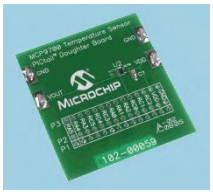
Features:-

- Range of package styles
- Operating temperature -45°C to +130°C
- TTL/CMOS compatible
- 200µ A supply current
- Absolute accuracy ±0.7 ²C
- Linear output within 0.2 ²C
- 200µ A supply current

Package	Mftr. List No.	Order Code	Price Each 1+	10+	100+	250+
3 / TO-18	SMT-160-30-18	120-9513●	11.87	8.49	6.92	4.85
3 / TO-92	SMT-160-30-92	120-9514●	9.28	6.37	5.18	3.72
3 / TO-220	SMT-160-30-220	120-9515●	9.49	6.84	5.62	4.03

MCP9700 Linear Active Thermistor

MICROCHIP



Linear Active Thermistor™ ICs are sensors whose output voltage is directly proportional to measured temperature. The output of the MCP9700 is calibrated to a slope of 10mV/°C and has a DC offset of 500mV. The offset allows reading negative temperatures without the need for a negative supply. A PICtail Demonstration board is also available, which illustrates how to interface the MCP9700 thermistor IC to a microcontroller.

Features:

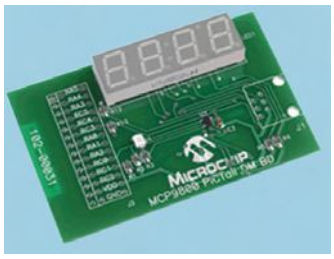
- Linear Temperature Slope, Optimised for ADCs
  - **-MCP700**: 10mV/°C(typ.)
  - **-MCP701**: 19.5mV/°C(typ.)
- ±4°C Accuracy from 0°C to +70°C
- -4°C/+6°C Accuracy from -40°C to +125°C
- Very low Operating Current: 12µA (max)
- Wide Operating Voltage Range
  - **-MCP700**: Vdd = 2.5 to 5.5V
  - **-MCP701**: Vdd = 3.1 to 5.5V

423046

Package	Mftr. List No.	Order Code	Price Each 1+	10+	100+
5/SC-70	MCP9700T-E/LT	SMD 108-4621●	0.22	0.19	0.16
5/SC-70	MCP9701T-E/LT	SMD 108-4622●	0.22	0.19	0.16
MCP9700 Thermal Sensor PICtail Demonstration Board					
	MCP9700DM-PCTL	108-4623	5.04		

MCP9800 Temperature Sensor PICtail Demo Board

MICROCHIP



The MCP9800 Thermal Sensor PICtail™ Demo Board demonstrates how to interface the MCP9800 to a PICmicro microcontroller using the PICkit™ 1 Flash Starter Kit as a platform.
The MCP9800 Thermal Sensor PICtail Demo Board can also be used as a stand-alone module to quickly add thermal sensing capability to any existing application. This basic sensor functionality is implemented on a small Printed Circuit Board (PCB) and an interface via a standard 100 mil header.

Features:

- Standard 100 mil 14-pin header (J2) for easy interface to PICkit ™1 Flash Starter Kit or custom application
- 7-segment LED display to display temperature in °C or °F
- Temperature Alert indicating LED

450885

		Order Code	Price Each
MCP9800DM-PCTL	MCP9800 ThermAl Sensor PICtail™ Demo Board	111-2733	12.60

Serial Digital Thermal Sensor

MICROCHIP



The TC74 is a serially accessible, digital temperature sensor. Temperature data is converted from the onboard thermal sensing element and madeavailable as an 8-bit digital word. Communication with the TC74 is accomplished via a 2-wire SMBus/I2C compatible serial port. Temperature resolution is 1°C. Conversion rate is a nominal 8 samples/sec.

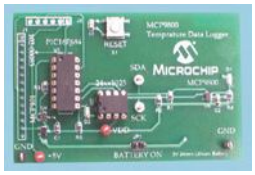
Pins/Pkg	5/SOT-23A	Supply Voltage	2.7 to 5.5V
Supply Current (Max)	350µA	Operating Temperature Range	-40°C to 125°C

495186

List No.	Order Code	Price Each 1+
TC74A5-5.0VCTTR	SMD 133-2319●	0.63

MCP9800 Temperature Data Logger Demo Board

MICROCHIP



The MCP9800 Temperature Data Logger Demo Board demonstrates how to use the MCP9800 and features an on-board EEPROM to log temperature data. It allows users to store up to 128000 temperature readings from the MCP9800 sensor to the 24LC1025, Microchip's 1024Kbit EEPROM.
The MCP9800 Temperature Data Logger Demo Board can be powered using an external supply, the PICkit™ 1 Flash Starter Kit, or a 24 mm Lithium Battery. The battery allows for stand-alone operations.

Features:

- MCP9800 Sensor with 0.0625°C/LSb resolution and 128Kbyte EEPROM
- Standard 100 mil 14-pin header (P1) for easy interface to PICkit1™ Flash Starter Kit or custom application
- PIC16F6784 PICmicro® Microcontroller
- Temperature Alert indicating LED and measurement indicating LED

RL Re-reeling available

Farnell

Kit Includes:
- MCP9800 Temperature Data Logger Demo Board
- PIC16F684 Firmware
- User Guide
- MCP9800/1/2/3, 24XX1025, PIC16F684 Datasheets

495027

Mftrs. List No.	Description	Order Code	Price Each 1+
MCP9800DM-DL	MCP9800 Temp Logger Demo Board	133-2167●	17.64

TC77 Thermal Sensor PICtail Demo Board



The TC77 Thermal Sensor PICtail Demo Board demonstrates how to interface the TC77 Thermal Sensor device to a microcontroller. This board can connect directly to the PICkit 1 Flash Starter Kit, providing a platform for code development and evaluation. The system designer will be able to use this design as an example of how to integrate a digital temperature sensor in their system.

Features:
- Available F/W routine transmits TC77 temperature data via SPI serial bus to a PIC microcontroller
- Performs conversions to °F and °C
- Standard 100-mill header for easy interface to PICkit 1 Flash Starter Kit or custom application
- Small PCB layout

450888

		Order Code	Price Each
TC77DM-PICTL	TC77 ThermAl Sensor PICtail Demo Board	111-2742	6.10

TC1047A Temperature-to-Voltage Converter PICtail™ Demo Board



The TC1047A Temperature to Voltage Converter PICtail Demo Board demonstrates how to interface the TC1047A Temperature to Voltage Sensor device to a microcontroller. This board can connect directly to the PICkit 1 Flash Starter Kit, providing a platform for code development and evaluation.

495157

Mftrs. List No.	Description	Order Code	Price Each 1+
TC1047ADM-PICTL	Temp-to-Voltage Converter Demo Board	133-2301●	5.04

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TSic LABkit™ - Temparature Sensor Evaluation Dev Kit



The TSic LABkit™ is a "plug&play" tool designed for evaluating the TSic™ family of temperature sensor ICs. The TSic LABkit™ offers efficient development for fast temperature sensing applications. Its software allows simultaneous display of up to four temperature signals in real time with data recording (minimum, maximum, and average) in a text file that can be imported by other applications such as Excel®.

Features:
- High precision temperature measurement with up to four sensors in parallel per TSic LABkit™ (TSic™ 306 e-line package) .
- User-friendly software for temperature data display, customer-specific sensor configura-tions, measurement interval selection, and data recording
- Simple connections - the TSic LABkit™ in-terfaces with your PC via a USB cable and can measure application-specific tempera-ture data from up to four TSic™ 306 e-line precision sensors wired to the TSic LABkit™
- Fast application development for TSic™ family sensors
- Compatible with your own sensor package wired to the TSic LABkit™ without time-consuming hardware or software development
- Expedites evaluation and comparison of different models of the TSic™ sensors

Contents:
- TSic LABkit™ USB Adapter for up to four temperature sensors - includes USB cable-Four TSic™ 306 e-line sensor ICs (accuracy: +/- 0.3°C) with 1m (3 ft.) cableLABkit™ Recorder data acquisition, display and recording software for PC/Windows®.Technical Documentation

448593

Description	Mftrs. List No.	Order Code	Price Each 1+	10+
Temperature Sensor Development Kit	TSIC LABKIT	128-6362●	151.22	141.14

Sensor Signal Conditioner Kits



The ZMD Sensor Signal Conditioner Kits provide support for newcomers and experienced users in evaluating ZMD Sensor Signal Conditioner ICs (SSCs). Self-explaining graphical user interfaces allow to control the following functions:

- IC configuration including adjustment of gain-factor, zero-point-shift, temperature compensation reference, signal resolution, sample rate, output options, measurement regime, clamp limits, etc.
- Reading and programming of EEPROM and CMC (calibration micro controller) registers
- Display of the unconditioned and of the conditioned bridge sensor and temperature sensor signals
- Simulation of a real bridge sensor element by a Sensor Dummy (real sensor alternatively connectable)
- Experimental semi-automatic calibration covering measurements, calibration coefficients calculation and EEPROM programming
- All kits include an USB cable, 5 IC samples, a SSC Test Board and a CD-ROM containing software and documentation.

448594

Description	Mftrs. List No.	Order Code	Price Each 1+	10+
Sensor Signal Conditioning Development Kit	ZMD31010KIT	128-6364●	134.27	125.32
Sensor Signal Conditioning Development Kit	ZMD31050KIT	128-6370●	151.22	141.14

Sensor Signal Conditioner

448595

	Pins	Operating temperature range (°C) min	max	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
31010	8/SOP	-50	150	Low-Cost Sensor Signal Conditioner	ZMD31010AAG1-T	SMD 128-6363●	4.16	3.47	2.93	2.56	2.12
31050	16/SSOP	0	70	Advanced Sensor Signal Conditioner	ZMD31050DCG1-T	128-6366●	4.59	4.17	3.83	3.53	3.06
31050	16/SSOP	-25	85	Advanced Sensor Signal Conditioner	ZMD31050DIG1-T	SMD 128-6367●	5.65	5.14	4.66	4.30	3.74
31050	16/SSOP	-40	125	Advanced Sensor Signal Conditioner	ZMD31050DAG1-T	SMD 128-6368●	5.92	5.38	4.88	4.50	3.89
31050	16/SSOP	-40	150	Advanced Sensor Signal Conditioner	ZMD31050DEG1-T	SMD 128-6369●	5.18	4.72	4.26	3.94	3.41

Timers

210458

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
82	INTS	24	PDIP	8MHz 16Bit Triple CMOS Programmable Intervel Timer	IP82C54Z	NEW 156-2042●	12.050	9.040	7.220	6.030	5.160
551	TI	8	SOIC	LINCMOS Timer/Linear	TLC551CD	SMD 845-4388●	0.680	0.460	0.420	– –	– –
551	TI	8	PDIP	LINCMOS Timer/Linear	TLC551CP	845-4396●	0.680	0.610	0.540	– –	– –
555	TI	8	PDIP	Precision Timer	SE555P.	NEW 164-8765●	0.430	0.340	0.280	0.270	0.250
555	NSC	8	MDIP	Astable and Monostable Timer	LM555CN/NOPB	NEW 156-4692●	0.590	0.440	0.340	0.310	0.300
555	NSC	8	MSOIC	Timer	LM555CMM/NOPB	NEW SMD 156-4760●	0.370	0.330	0.290	0.250	0.210
555	TI	8	SOIC	2.1MHz Low Power Timer CMOS, TTL & MOS O/P	TLC555ID	NEW SMD 156-4978●	0.490	0.390	0.350	0.290	0.250

RL Re-reeling available

Timers - continued

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
555	FCH	8	SOIC	Single Timer	KA555D.	SMD 347-7009▲	0.138	0.109	0.095	– –	– –
555	NSC	8	DIP	Single Timer	LM555CN	948-8235●	0.630	0.550	0.540	0.530	0.500
555	NSC	8	SOIC	CMOS Low Power Timer	LMC555CM	SMD 949-3972●	0.730	0.430	0.340	0.310	0.300
555	NSC	8	MSOP	CMOS Low Power Timer .(IND TEMP)	LMC555CMM	SMD 977-9302●	1.180	1.020	0.950	– –	– –
555	NSC	8	DIP	CMOS Single Timer	LMC555CN	948-8243●	0.820	0.680	0.620	0.610	0.570
555	TI	8	SOIC	Single Precision Timer	NE555D	SMD 958-9880●	0.370	0.200	0.139	– –	– –
555	TI	8	DIP	Single Precision Timer	NE555P	958-9899●	0.390	0.270	0.175	– –	– –
555	TI	8	SOIC	Precision Timer	SA555D	SMD 958-9945●	0.450	0.300	0.220	– –	– –
555	TI	8	DIP	Precision Timer	SA555PG4	958-9953●	0.470	0.330	0.260	– –	– –
555	TI	8	SOIC	CMOS Low Power Timer	TLC555CD	SMD 110-6128●	0.610	0.390	0.280	0.210	0.165
555	TI	8	SOIC	LINCMOS, Single High-Speed Timer	TLC555CDR	SMD 845-4426●	0.610	0.390	0.280	– –	– –
555	TI	8	DIP	CMOS Low Power Timer	TLC555CP	110-3036●	0.610	0.390	0.280	– –	– –
555	TI	8	SOIC	Low Power Timer	TLC555IDG4	SMD 123-4633●	0.540	0.380	0.300	0.200	0.184
555	TI	8	PDIP	LINCMOS, Single High-Speed Timer	TLC555IP	845-4434●	0.680	0.430	0.310	– –	– –
555	ST	8	DIP	CMOS Low Power Timer	TS555CN	109-4382●	0.680	0.450	0.370	0.340	0.270
556	ST	14	PDIP	2.7MHz Dual CMOS Timer	TS556IN	NEW 156-4359●	0.520	0.420	0.370	0.310	0.270
556	NSC	14	SOIC	Dual Timer	LM556CM	SMD 948-8251●	0.780	0.640	0.590	0.570	0.540
556	NSC	14	DIP	Dual Timer	LM556CN	948-8260●	1.070	0.720	0.590	– –	– –
556	TI	14	SOIC	Dual Precision Timer	NE556D	SMD 958-9902●	0.450	0.300	0.220	– –	– –
556	ST	14	DIP	Dual Timer	NE556N	109-4320●	0.580	0.430	0.350	0.220	0.210
556	TI	14	DIP	Dual Precision Timer	NE556NG4	958-9910●	0.240	0.195	0.147	– –	– –
556	TI	14	SOIC	CMOS Low Power Dual Timer	TLC556CD	SMD 110-3187●	0.850	0.630	0.490	0.370	0.330
556	TI	14	DIP	CMOS Low Power Dual Timer	TLC556CN	110-3038●	0.850	0.630	0.490	– –	– –
556	TI	14	SOIC	Dual Timer	TLC556IDG4	SMD 123-4656●	0.810	0.580	0.470	0.350	0.310
556	TI	14	PDIP	LINCMOS, Dual High-Speed Timer	TLC556IN	845-4442●	0.990	0.700	0.540	– –	– –
556	ST	14	DIP	CMOS Low Power Dual Timer	TS556CN	975-6019●	0.960	0.780	0.560	0.380	0.360
556	ST	14	DIP	CMOS Low Power Dual Timer	TS556CN.	409-480▲	0.510	0.380	0.300	0.200	0.196
1381	HOLTEK	8	SOP	Serial Timekeeper IC	HT1381-8SOPLF	SMD 142-0865●	1.030	0.820	0.680	0.630	0.540
1455	ON	8	DIP	Timer for accurate delays or oscillation With intervals from microseconds to hours	MC1455P1G	966-4394●	0.630	0.430	0.310	– –	– –
7210	LSI	14	DIP	Programmable digital delay timer, 6ms to infinity	LS7210	121-9013●	4.390	3.150	2.510	– –	– –
7240	MAX	16	DIP	CMOS 8-Bit Binary Programmable Timer/Counter	ICM7240IPE+	118-7988●	6.000	4.430	3.730	2.500	2.140
7242	INTS	8	DIP	CMOS Long Range Fixed Timer/Counter	ICM7242IPAZ	121-6113●	1.360	1.180	0.960	0.800	0.680
7250	MAX	16	DIP	CMOS 2-digit BCD Programmable Timer/Counter	ICM7250IPE+	129-0855●	4.820	3.100	2.370	1.980	1.920
7555	INTS	8	SOIC	1MHz CMOS RC Timers	ICM7555CBAZ	NEW SMD 156-1939●	0.340	0.260	0.210	0.178	0.155
7555	INTS	8	SOIC	CMOS Low Power Timer	ICM7555IBAZ	SMD 966-3754●	0.290	0.220	0.181	0.169	0.138
7555	INTS	8	DIP	CMOS Low Power Timer	ICM7555IPAZ	966-3762●	0.740	0.310	0.174	0.139	0.136
7555	MAX	8	SOIC	General Purpose Single CMOS Timer. (IND TEMP)	ICM7555ISA+	SMD 972-4702●	1.870	1.250	1.040	– –	– –
7556	INTS	14	DIP	CMOS Low Power Dual Timer	ICM7556IPDZ	966-3770●	0.430	0.380	0.350	0.320	0.290
88011	INTS	5	SOT-23	Voltage Monitoring Timer	ISL88011IH522Z	SMD 136-1018●	1.360	0.910	0.800	0.690	0.640
88012	INTS	5	SOT-23	Voltage Monitoring Timer	ISL88012IH522Z	SMD 136-1019●	1.110	0.770	0.680	0.600	0.560
88013	INTS	5	SOT-23	Voltage Monitoring Timer	ISL88013IH522Z	SMD 136-1020●	1.280	0.900	0.770	0.660	0.620

Transistor Arrays/Darlington Drivers

210459

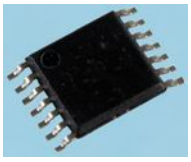
	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
4	ADI	14	PDIP	Matched Monolithic Quad Transistor, Low Noise, 400 Current Gain, 200uV Offset voltage	MAT04FPZ	143-8762●	6.790	4.630	3.730	– –	– –
216	ADI	16	PDIP	Quad Voltage Controlled Amplifier 0.02% THD	SSM2164PZ	143-8744●	5.350	3.640	2.940	– –	– –
394	NSC	6	TO-5	SupermAtch Transistor Pair	LM394CH	121-6171●	12.560	8.510	6.950	6.560	6.080
394	NSC	6	TO-5	SupermAtch Transistor Pair	LM394H	121-6172●	15.560	10.980	8.180	6.300	5.450
395	NSC	3	TO-220	Power Transistor	LM395T	948-8278●	2.430	1.730	1.450	1.050	1.010
395	NSC	3	TO-92	Power Transistor	LP395Z	948-8286●	1.130	0.920	0.850	0.700	0.610
1413	ON	16	SOIC	Transistor Array -7 NPN Darlingtons (ULN2003 compatible)	MC1413DG	SMD 966-4378●	0.580	0.400	0.280	– –	– –
1413	ON	16	DIP	Transistor Array -7 NPN Darlingtons (ULN2003 compatible)	MC1413PG	966-4386●	0.340	0.290	0.260	– –	– –
1513	ADI	48	LFCSP	Class-D Audio Power Stage	ADAU1513ACPZ	SMD 149-8682●	5.860	4.230	3.410	– –	– –
1592	ADI	48	TQFP-EP	Class-D Audio Power Amplifier	ADAU1592ASVZ	SMD 149-8683●	5.710	4.160	3.260	– –	– –
2001	ST	16	DIP	7 Darlington Arrays	E-ULN2001A	107-7210●	0.570	0.450	0.320	0.240	0.210
2001	ST	16	DIP	Transistor Array - 7 NPN Darlingtons, 500mA, 50V (DTL, TTL, PMOS, CMOS)	ULN2001A	109-4419●	0.850	0.570	0.410	0.350	0.270
2002	ST	16	DIP	Transistor Array - 7 NPN Darlingtons, 14V to 25V Input, 500mA, 50V (PMOS)	ULN2002A	109-4420●	0.800	0.560	0.460	0.430	0.340
2003	NSC	16	SOIC	Transistor Array - 7 NPN Darlingtons (ULN2003 compatible)	DS2003CM	SMD 949-3956●	0.760	0.620	0.570	0.550	0.510
2003	NSC	16	DIP	Transistor Array - 7 NPN Darlingtons (ULN2003 compatible)	DS2003CN	949-3948●	0.780	0.640	0.590	0.570	0.540
2003	ST	16	DIP	7 Darlington Arrays	E-ULN2003A	107-7215●	0.610	0.400	0.330	0.280	0.250
2003	ST	16	DIP	7 Darlington Arrays	E-ULQ2003A	107-7231●	0.910	0.670	0.490	0.410	0.310
2003	ST	16	SOIC	7 Darlington Arrays	E-ULQ2003D1	SMD 107-7232●	0.930	0.720	0.530	0.430	0.340
2003	ST	16	DIP	Transistor Array - 7 NPN Darlingtons, +5V Input, 500mA, 50V (TTL/CMOS)	ULN2003A	109-4421●	0.610	0.400	0.330	0.300	0.220
2003	TI	16	SOIC	Transistor Array - 7 NPN Darlingtons, +5V Input, 500mA, 50V (TTL/CMOS)	ULN2003ADE4	SMD 112-5398●	0.470	0.320	0.230	– –	– –
2003	TOSH	16	SOIC	Transistor Array - 7 NPN Darlingtons, +5V Input, 500mA, 50V (TTL/CMOS)	ULN2003AFWG	SMD 104-7755●	0.570	0.360	0.260	– –	– –
2003	TI	16	SOIC	High Voltage, High Current Darlington Transistor Array	ULN2003AIDG4	SMD 149-4948●	0.490	0.370	0.280	0.200	0.166
2003	TI	16	DIP	Transistor Array - 7 NPN Darlingtons, +5V Input, 500mA, 50V (TTL/CMOS)	ULN2003ANE4	121-0973●	0.490	0.330	0.240	– –	– –
2003	TOSH	16	DIP	Transistor Array - 7 NPN Darlingtons, +5V Input, 500mA, 50V (TTL/CMOS)	ULN2003APG	104-7756●	0.490	0.330	0.240	– –	– –
2003	ST	16	PDIP	Seven Darlington Array O/P 50V 0.5A per Driver	ULQ2003A	NEW 156-4363●	0.440	0.360	0.310	0.270	0.220
2004	ST	16	SOIC	Seven Darlington Array O/P 50V 0.5A per Driver	ULN2004D1013TR	NEW SMD 156-4361●	0.340	0.280	0.260	0.195	0.168
2004	ST	16	DIP	7 Darlington Arrays	E-ULN2004A	107-7217●	0.570	0.450	0.320	0.240	0.210
2004	ST	16	DIP	7 Darlington Arrays	E-ULQ2004A	107-7233●	0.810	0.700	0.510	0.380	0.330
2004	ST	16	DIP	Transistor Array - 7 NPN Darlingtons, 6V to 15V Input, 500mA, 50V (CMOS)	ULN2004A	109-4423●	0.670	0.510	0.370	0.310	0.240
2004	TI	16	SOIC	Transistor Array - 7 NPN Darlingtons, 6V to 15V Input, 500mA, 50V (CMOS)	ULN2004ADE4	SMD 121-0974●	0.750	0.510	0.340	– –	– –
2004	TI	16	SOIC	High Voltage, High Current Darlington Transistor Array	ULN2004ADRE4	SMD 123-6608●	0.400	0.280	0.210	0.173	0.154
2004	TOSH	16	SOIC	Transistor Array - 7 NPN Darlingtons, 6V to 15V Input, 500mA, 50V (CMOS)	ULN2004AFWG	SMD 104-7757●	0.490	0.330	0.240	– –	– –
2004	TI	16	DIP	Transistor Array - 7 NPN Darlingtons, 6V to 15V Input, 500mA, 50V (CMOS)	ULN2004AN	110-3041●	0.490	0.330	0.240	– –	– –
2004	TOSH	16	DIP	Transistor Array - 7 NPN Darlingtons, 6V to 15V Input, 500mA, 50V (CMOS)	ULN2004APG	104-7758●	0.420	0.290	0.188	– –	– –
2064	ST	16	DIP	50V, 1.5A Quad Darlington Switch	E-ULN2064B	107-7219●	1.690	1.460	1.290	1.150	1.030
2064	ST	16	DIP	Quad Darlington Driver, 1.5A 50V, With common emitters.	ULN2064B	109-4424●	2.660	2.160	1.740	1.500	1.470

RL Re-reeling available

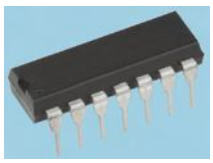
	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
2065	ST	16	DIP	80V, 1.5A Quad Darlington Switch	E-ULN2065B	107-7220	2.390	1.940	1.640	1.420	1.330
2068	ST	16	DIP	50V, 1.5A Quad Darlington Switch	E-ULN2068B	107-7224	2.390	1.940	1.610	1.360	1.230
2068	ST	16	DIP	Quad Darlington Driver, 1.5A 50V, With common emitters.	ULN2068B	109-4425	3.050	2.250	1.810	1.510	1.450
2069	ST	16	DIP	80V, 1.5A Quad Darlington Switch	E-ULN2069B	107-7225	2.340	1.930	1.620	1.400	1.310
2210	ADI	8	DIP	Precision NPN Transistor Pair optimized for use in Audio applications...	SSM2210PZ	960-5088	4.010	2.840	2.110	– –	– –
2220	ADI	8	DIP	Precision PNP Transistor Pair optimized for use in Audio applications...	SSM2220PZ	960-5096	5.230	3.560	2.870	– –	– –
2220	ADI	8	SOIC	Audio Dual Matched PNP Transistor	SSM2220SZ	SMD 143-8745	5.230	3.560	2.870	– –	– –
2801	ST	18	DIP	8 Darlington Arrays	E-ULN2801A	107-7228	0.870	0.780	0.550		
2801	ST	18	DIP	Transistor Array, 8 NPN Darlingtons, +5V Input (Without RIN), 500mA 50V (CMOS)	ULN2801A	109-4426	0.930	0.690	0.510		
2802	ST	18	PDIP	Eight Darlington Array O/P 50V 0.5A per Driver	ULN2802A	NEW 156-4362	0.630	0.510	0.440	0.360	0.310
2802	ST	18	DIP	8 Darlington Arrays	E-ULN2802A	107-7229	0.870	0.780	0.550	0.430	0.360
2803	ST	18	DIP	8 Darlington Arrays	E-ULN2803A	107-7230	0.870	0.780	0.550	0.430	0.350
2803	ST	18	DIP	Transistor Array, 8 NPN Darlingtons, +5V Input, 500mA 50V (TTL/CMOS).	ULN2803A	109-4428	1.070	0.720	0.590	0.510	0.390
2803	TOSH	18	SOIC	8-Channel Darlington Sink Driver, 50V, 0.5A (Input Base Resistance = 2.7k[ILLEGAL CHAR:U+3a9])	ULN2803AFWG	SMD 104-2086	0.620	0.470	0.340	0.250	0.200
2803	TOSH	18	DIP	Transistor Array, 8 NPN Darlingtons, +5V Input, 500mA 50V (TTL/CMOS).	ULN2803APG	104-7761	0.610	0.410	0.290	– –	– –
2803	TOSH	18	SOIC	8-Channel Darlington Sink Driver, 50V, 0.5A (Input Base Resistance = 10.5k[ILLEGAL CHAR:U+3a9])	ULN2804AFWG	SMD 104-2088	0.620	0.470	0.340	0.250	0.200
2804	ST	18	DIP	Transistor Array, 8 NPN Darlingtons, 6V to 15V Input, 500mA 50V (CMOS).	ULN2804A	109-4429	1.070	0.720	0.590	0.510	0.390
2804	TOSH	18	DIP	Transistor Array, 8 NPN Darlingtons, 6V to 15V Input, 500mA 50V (CMOS).	ULN2804APG	104-7762	0.570	0.420	0.310	– –	– –
3046	NSC	14	SOIC	Transistor Array	LM3046M	SMD 759-2644	0.530	0.470	0.380	– –	– –
3083	INTS	16	DIP	Transistor Array - 5 NPN General Purpose Transistors	CA3083Z	120-1540	0.820	0.510	0.430	0.410	– –
4853	ADI	14	TSSOP	Triple, Low Power, Rail-to-Rail Output, Video Op Amp with Ultralow Power Disable	ADA4853-3YRUZ	SMD 149-8692	1.820	1.320	1.040	– –	– –
5800	MICR	14	DIP	High Speed BIMOS Darlington Array (4 latches). UCN5800A compatible.	MIC5800YN	121-3484	2.130	1.580	1.480	1.440	– –
5801	ALEG	22	DIP	High Speed BIMOS Darlington Array (8 latches)	A6801SA-T	120-2817	5.710	2.640	2.090	1.700	– –
5801	MICR	22	DIP	High Speed BIMOS Darlington Array (8 latches). UCN5801A compatible.	MIC5801YN	121-3485	3.130	2.130	1.670	– –	– –
5821	ALEG	16	DIP	BIMOS 8-Bit Serial-Input Latched Driver	A6821SA-T	120-2818	2.930	1.450	1.160	1.010	– –
5841	ALEG	18	DIP	BIMOS 8-Bit Serial-Input Latched Driver With protection diodes.	A6841SA-T	120-2821	6.240	3.270	2.620	2.130	– –
6800	ALEG	14	DIP	High Speed BIMOS Darlington Array (4 latches)	A6800SA-T	120-2816	2.020	1.530	1.270	– –	– –
7180	ADI	64	LQFP	10-Bit, 4× Oversampling SDTV Video Decoder.	ADV7180BSTZ	SMD 143-9009	12.340	9.530	8.080	– –	– –
7343	ADI	64	LQFP	Multiformat Video Encoder with Six, 11-Bit, 297 MHz DACs	ADV7343BSTZ	SMD 143-9010	11.300	8.850	7.260	– –	– –
7391	ADI	32	LFCSP	Low Power, Chip Scale 10-Bit SD/HD Video Encoder	ADV7391BCPZ	SMD 143-9011	7.840	6.140	5.030	– –	– –
7393	ADI	40	LFCSP	Low Power, Chip Scale 10-Bit SD/HD Video Encoder	ADV7393BCPZ	SMD 143-9012	9.410	7.260	6.160	– –	– –
75468	TI	16	SOIC	High Voltage, High Current Darlington Transistor Array	SN75468D	SMD 959-3004	0.510	0.420	0.330	– –	– –
75469	TI	16	SOIC	High-Voltage, High-Current Darlington Transistor Arrays	SN75469DE4	SMD 123-6492	0.400	0.290	0.250	0.220	0.210

Low-Noise Matched Transistor Array

THAT Corporation



14 pin SO



14 pin DIP

The THAT 300 series are large-geometry, 4-transistor, monolithic NPN and/or PNP arrays. The 300 series are suited for low-noise amplifier input stages with typical base-spreading resistances of 25 ohms for the PNP devices (30 ohms for the NPNs) and low voltage noise of under 1 nV/Hz½.

Fabricated in a dielectrically isolated, complementary bipolar process, each transistor is electrically insulated from the others by a layer of insulating oxide (and not the reverse-biased PN junctions used in conventional arrays) and exhibit inter-device crosstalk and DC isolation similar to that expected from discrete transistors. The resulting low collector-to-substrate capacitance produces a typical NPN fT of 350MHz (325 MHz for the PNPs). Substrate biasing is not required for normal operation, though the substrate should be grounded to optimize speed and minimize crosstalk.

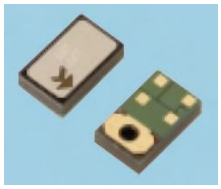
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Pins	Pkg	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
4 Matched NPN Transistors								
14	SO	THAT300S14-U	SMD 135-4174	3.91	3.13	2.61	2.24	2.09
14	DIP	THAT300P14-U	135-4175	3.96	3.17	2.64	2.27	2.11
4 Matched PNP Transistors								
14	SO	THAT320S14-U	SMD 135-4177	3.91	3.13	2.61	2.24	2.09
14	DIP	THAT320P14-U	135-4178	3.96	3.17	2.64	2.27	2.11
2 Matched NPN & PNP Transistors								
14	SO	THAT340S14-U	SMD 135-4179	3.91	3.13	2.61	2.24	2.09
14	DIP	THAT340P14-U	135-4180	3.96	3.17	2.64	2.27	2.11

Video/Audio ICs

Zero-Height™ Silicon Microphone

KNOWLES ACOUSTICS



The Zero-Height™ silicon microphone is an expansion of the SiSonic™ product line. This was the worlds first range of surface mounted silicon microphones. The zero-height device now allows the microphone to be mounted under the PCB and therefore achieves virtual 'zero-height'. This devices is particularly suitable for mobile phones or other products where there is very little room to one side of the PCB. The Zero-Height device also has a solder connection between the PCB and the microphone, giving an acoustic seal around the port hole. This means a reduction in design cost, due to the simplicity of the mechanical and acoustic design.

The image below shows how the Zero-Height SMD microphone fits onto the PCB. The Standard Mount figure shows a standard top-mounting configuration. The Zero Height figure shows the microphone mounted on the opposite side of the board and ported through the PCB, meaning if will fit into a much more compact space.



Features:

- Total harmonic distortion of less than 1% at 100 dB SPL
- Nominal sensitivity of -42dB at 1kHz
- Supply voltage range of 1.5V to 5V
- Integrated EMI/RFI protection
- Rated up to 100°C

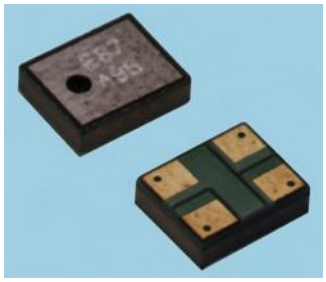
	SP0102BE3
Directivity:	Omni-directional
Frequency Range:	100Hz to 10kHz
Sensitivity:	-42 dB (0dB = 1V/Pa @ 1kHz)
Maximum Input Sound Level:	115dB SPL for 10% distortion
Supply Current (Max):	0.250mA
Supply Voltage:	1.5V to 5.5V
Electrical Connections	+ve, -ve and output
Dimensions (WxHxD):	6.15 x 1.75 x 3.75mm
Operating Temperature:	-40°C to 100°C
Storage Temperature:	-40°C to 100°C

383316

Pins	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	1K+	5K+
4	SP0102BE3	SMD 870-8550	4.34	3.82	3.20	2.81	2.51

SiSonic™ Silicon Microphone

KNOWLES ACOUSTICS



The SiSonic™ Silicon Microphone is a low-cost, high performance alternative to traditional ECMs. It is a robust microphone which yields a high degree of repeatability, stable acoustic performance, and flexibility for future design enhancements. The SiSonic Microphones incorporate a very small package size without this leading to a lack of performance or the embedding of additional components such as an integrated amplifier.

Features:

- Silicon structure gives high degree of manufacturing repeatability and acoustic performance

RL Re-reeling available

Farnell

Video/Audio ICs - continued

SiSonic™ Silicon Microphone - continued

- "Free-floating" diaphragm is immune to stress variations that impact acoustic performance
- Low mass and small diaphragm produce excellent vibration sensitivity performance
- Excellent RF and EMI suppression
- Versitile configuration and sound porting options for future microphone enhancements
- Small amount of board space required
- Low profile height
- Pick-and-place via standard automated equipment
- Ideal for Mobile Phones, Laptops, PDA's and other electronic products

	SPM0102ND3
Description:	Mini Standard
Directivity:	Omni-directional
Sensitivity:	-42 (0dB = 1V/Pa @ 1kHz)
SNR:	59 (0dB = 1V/Pa @ 1kHz)
Max Impedance:	100Ω
Maximum Input Sound Level:	115dB SPL for 10% distortion
Supply Current (Max):	0.25mA
Supply Voltage:	1.5V to 5.5V
Dimensions (WxHxD):	4.72 x 3.76 x 1.50mm
Operating Temperature:	-40°C to 100°C
Storage Temperature:	-40°C to 100°C

415970

Pins	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	500+	1K+
4	SPM0102ND3	SMD 101-2152●	6.92	6.24	5.56	5.06	4.74

Mini SiSonic™ Microphones



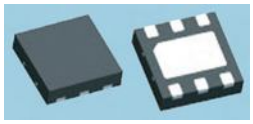
The SiSonic™ microphone series support high-performance, high-density innovation in hand held telecommunication device applications.

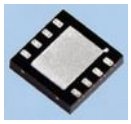
	SPM0204HE5	SPM0208HE5	SPM0204HD5	SPM0208HD5
Description:	Mini SiSonic Microphone, RF Protected	Amplified Mini SiSonic Microphone, RF Protected	Mini SiSonic Microphone	Amplified Mini SiSonic Microphone
Directivity:	Omni-directional	Omni-directional	Omni-directional	Omni-directional
Sensitivity (Nom):	-42 (0dB = 1V/Pa @ 1kHz)	-22 (0dB = 1V/Pa @ 1kHz)	-42 (0dB = 1V/Pa @ 1kHz)	-22 (0dB = 1V/Pa @ 1kHz)
Max Output Impedance:	300Ω	100Ω	300Ω	300Ω
Max Current Consumption:	0.25 mA	0.35mA	0.25 mA	0.35mA
SNR:	59 (0dB = 1V/Pa @ 1kHz)	59 (0dB = 1V/Pa @ 1kHz)	59 (0dB = 1V/Pa @ 1kHz)	59 (0dB = 1V/Pa @ 1kHz)
Supply Voltage:	1.5V to 3.6V	1.5V to 3.6V	1.5V to 3.6V	1.5V to 3.6V
Dimensions (WxHxD):	4.72 x 3.76 x 1.25mm	4.72 x 3.76 x 1.25mm	4.72 x 3.76 x 1.25mm	4.72 x 3.76 x 1.25mm
Operating Temperature:	-40°C to 100°C	-40°C to 100°C	-40°C to 100°C	-40°C to 100°C

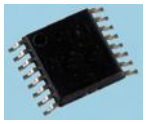
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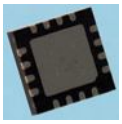
Mftrs. List No.	Order Code	Price Each 1+	10+	100+	500+	1K+
SPM0204HE5	SMD 132-6389●	4.14	3.54	3.04	2.48	2.09
SPM0208HE5	SMD 132-6390●	4.30	3.81	3.25	2.72	2.29
SPM0204HD5	SMD 132-6391●	3.81	3.22	2.76	2.24	1.91
SPM0208HD5	SMD 132-6392●	4.14	3.54	3.04	2.48	2.09

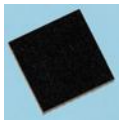
Audio & Video Amplifiers


6 pin MicroDFN


8 pin TDFN


16 pin QSP


16 pin TQFN


32 pin TQFN


56 pin TQFN

No. Channel	Gain	Low Current Shutdown Mode (nA)	Supply Volatge (V) Min.	Max.	Passband (MHz)	Attenuation	Mftrs. List No.
1	+12dB	10	2.5	3.6	5.5	55dB @ 27MHz	MAX9502MELT+T
1	+6dB	10	2.7	3.6	5.5	50dB @ 27MHz	MAX9503GEEE+
1	+6dB	10	2.7	3.6	5.5	50dB @ 27MHz	MAX9505ETE+
1	8dB	10	1.8	2.5	8.1	46dB @ 27MHz	MAX9509ATA+T
2	22/25/ 29.5/36dB	–	10	22	–	–	MAX9709ETN+D
2	13/16/19.1/22.1dB	200	10	25	–	–	MAX9714ETJ+
2	Adjustable	100	2.7	5.5	–	–	MAX9719AETE+

515049

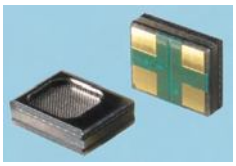
Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
6	microDFN	2.5V Video Amplifier with Reconstruction Filter	MAX9502MELT+T	SMD 155-0499●	0.71	0.56	0.52	0.44	0.40
16	QSOP	DirectDrive Video Amplifier with Reconstruction Filter	MAX9503GEEE+	SMD 155-0502●	0.92	0.71	0.58	0.54	0.50
16	TQFN	Dual Channel DirectDrive Video Amplifier with Reconstruction Filter and Analog Switch	MAX9505ETE+	SMD 155-0504●	1.23	0.95	0.78	0.72	0.66
8	TDFN	1.8V, Ultra-Low Power, DirectDrive Video Filter Amplifier	MAX9509ATA+T	SMD 155-0506●	0.71	0.56	0.52	0.44	0.40
56	TQFN	25W/50W, Filterless, Spread-Spectrum, Stereo/Mono, Class D Amplifier	MAX9709ETN+D	SMD 155-0508●	6.05	4.71	4.23	3.54	3.02
32	TQFN	6W, Filterless, Spread-Spectrum Mono/Stereo Class D Dual Channel Amplifiers	MAX9714ETJ+	SMD 155-0510●	2.39	2.14	1.95	1.79	1.53
16	TQFN	Mono/Stereo, 1.4W Differential Audio Power Amplifiers Dual Channel	MAX9719AETE+	SMD 155-0514●	0.83	0.64	0.53	0.49	0.44

Speech Synthesis ICs

210490

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
2532	ISD	28	DIP	Single-chip voice record/playback device - 32 seconds duration	ISD2532PY	120-9606●	9.87	8.11	6.68

Wide-Band Ultrasonic Acoustic Sensor



The Ultrasonic Acoustic Sensor is used to detect ultrasonic sound in air. It enables the ability to detect multiple frequencies within a single sensing element. Compared to conventional Ultrasonic Sensors that have a narrow frequency range, this sensor is ideal for capturing a wide frequency range.

Directivity:	Omni-directional	Supply Voltage:	1.5V to 3.6V
Freq. Range:	10k to 65kHz	Dimensions (HxLxW):	1.15 x 4.72 x 3.76mm
Sensitivity:	-47(0dB = 1V/Pa @ 1kHz)	Operating Temperature:	-40°C to 100°C
SNR:	59 (0dB = 1V/Pa @ 1kHz)		

481941

Pins	Mftrs. List No	Order Code	Price Each 1+	10+	100+	250+	500+
4	SPM0204UD5	SMD 136-7846●	9.19	7.86	5.51	5.18	4.84

Low Noise, High Performance Audio Preamplifiers

Audio preamplifiers suitable for microphone preamp and bus summing applications.
Gain adjustable via one external resistor, making it possible to control gain over a wide range with a single-gang potentiometer.
The 1510 gain equation is identical to that of the SSM2019, reaching 6dB gain with a 10kR resistor. The 1512 reaches 0dB gain with a 10kR resistor.

Noise	1 nV/z input noise (60dB gain) 34 nV/Hz input noise (0dB gain) (1512)
THD + N (full audio bandwidth)	0.0005% ≤40dB gain 0.005% @ 60dB gain
Current	6mA typ.
Bandwidth	7MHz @ G=100
Slew Rate	19 V/µs
Output Swing	±13.3V on ±15V supplies

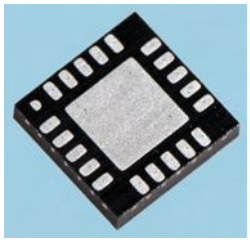
Pin compatible with the SSM2019 and SSM2017, and the INA217 and INA163.

467538

Mftrs. List No.	Pins	Pkg	Order Code	1+	10+	100+	250+	500+
				Price Each				
THAT1510P08-U	8	DIP	135-4159●	2.53	2.02	1.69	1.44	1.35
THAT1510S08-U	8	SO	SMD 135-4160●	2.53	2.02	1.69	1.44	1.35
THAT1510S14-U	14	SO	SMD 135-4165●	2.67	2.13	1.78	1.53	1.43
THAT1510W16-U	16	WSO	SMD 135-4161●	2.67	2.13	1.78	1.53	1.43
THAT1512P08-U	8	DIP	135-4162●	3.03	2.42	2.02	1.74	1.62
THAT1512S08-U	8	SO	SMD 135-4163●	3.03	2.42	2.02	1.74	1.62

Integrated Audio Amplifiers

intersil



This family of integrated audio power amplifier have a class A BTL amplifiers in a single package. These ampliers can be used to multiplex & mix single and dual channel stereo input sources. These devices contain one class AB BTL type power amplifier for driving an 8Ω mono speaker and two class AB headphone amplifiers for driving 16Ω or 32Ω headphone speakers. Typical applications include battery powered, handheld, and portable equipment such as laptops, mobiles phones, toys and games.

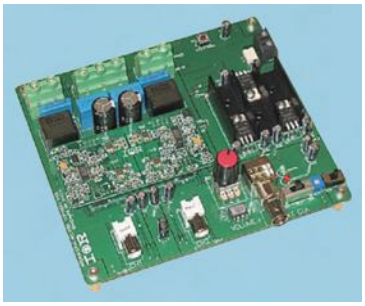
- Single supply operation of 2.7V to 5.5V
- -40°C to +85°C
- Class AB Stereo BTL speaker amplifiers
- Package 20 Pin TQFN
- Low power shutdown
- Thermal shutdown protection
- Click and pop suppression circuitry
- TTL Logic-compatible

480868

Mftrs. List No.	Inputs	Outputs	Order Code	1+	10+	100+	250+	500+
				Price Each				
ISL54000IRTZ	Stereo Input	Class AB 941mW Stereo BTL Speaker Amp	SMD 143-9861●	1.45	1.08	1.02	0.88	0.81
ISL54001IRTZ	2:1 Stereo Input Multiplexed	Class AB 941mW Stereo BTL Speaker Amp	SMD 143-9863●	1.77	1.38	1.24	1.06	0.97
ISL54002IRTZ	2:1 Stereo Input Multiplexed & Mixed	Class AB 941mW Stereo BTL Speaker Amp	SMD 143-9864●	2.03	1.58	1.42	1.23	1.11
ISL54003IRTZ	Stereo Input	Class AB 94mW Headphone Amp & 941mW MonoBTL Speaker Amp	SMD 143-9865●	1.66	1.30	1.16	0.99	0.92
ISL54004IRTZ	2:1 Stereo Input Multiplexed	Class AB 94mW Headphone Amp & 941mW Mono BTL Speaker Amp	SMD 143-9866●	1.97	1.54	1.38	1.19	1.08
ISL54005IRTZ	2:1 Stereo Input Multiplexed	Class AB 94mW Headphone Amp & 941mW Mono BTL Speaker Amp	SMD 143-9867●	1.92	1.49	1.34	1.14	1.00
ISL54006IRTZ	2:1 Stereo Input Multiplexed & Mixed	Class AB 94mW Headphone Amp & 941mW Mono BTL Speaker Amp	SMD 143-9869●	2.17	1.69	1.52	1.29	1.16

IRAUDAMP4

International IOR Rectifier



Features:

- Two channel 120W half-bridge class-D ausio power amplifier
- 120W x 2 channels (THD=1%, 1kHz)
- 52µV distortion, IHF-A weighted, AES-17 filter
- 96% efficiency @ 120W, 4Ω - single channel driven, class-D stage
- OCP, OVP, UVP, DC protection & OTP
- self-oscillating half-bridge topology with optional clock synchronisation
- featuring IRS20955S gate driver and IRF6645 DirectFET MOSFETs

Contents:

- assembled and tested demo board
- application notes
- schematic
- bill of materials
- datasheet

495194

Mftrs. List No.	Order Code	Price Each
IRAUDAMP4	143-6890●	466.01

BOB-4 Video On Screen Display (OSD) Module

DECADE ENGINEERING



The Module OSD BOB-4 enables a microcontroller or a PC display text and vector graphics on standard a TV monitor. With huge user-definable character sets, BOB-4 also supports bitmap graphics and multiple languages. The module generates background video on-board, or automatically genlocks to the video source and superimposes characters over the image. Printable characters and commands control BOB-4 through a fast RS-232 style data link. Both NTSC and PAL video standards are supported.

Key Features:

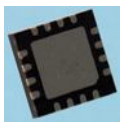
- Requires DC power, serial data, and video connections
- Prints plain ASCII text in default configuration
- Display density; up to 480x240 (NTSC) or 480x288 (PAL)
- Industry-standard ANSI control protocol (ECMA-048)
- Automatic vertical scrolling
- Text crawl (single-line smooth horizontal scroll)
- Async, Synchronous, and SPI host communication options
- Automatic video mode control (local/genlock)
- 5 software-controlled digital outputs
- Consumes 500 mW @ +5VDC
- Firmware can be upgraded in the field

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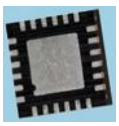
Mftrs. List No.		Order Code	Price Each
BOB-4 OSD	BOB-4 Video OSD Module	126-3883●	83.55

Class D Audio Power Amplifiers

MAXIM



16 pin TQFN



24 pin TQFN

No. Channel	Speaker Amp. Fixed Gain Min/Max	SNR (dB) A-Weighted	Supply Volatge (V) Min. / Max	Power O/P (W) into 8Ω	Mftrs. List No.
2	1/ 8	88.5	2.5 / 5.5	1.3 @ 1% THD+N (W)	MAX9701ETG+
2	2.8 / 3.4	93	4.5 / 5.5	1.4 @ 1% THD+N (W)	MAX9715ETE+
2	Externally Adjustable	93	20 / 5.5	20.5 @ 10% THD+N (W)	MAX9742ETX+
1	2 / 16	96	3 / 5.5	1.8 @ 10% THD+N (W)	MAX9759ETE+
1	Externally Adjustable	97	4.5 / 5.5	10 @ 10% THD+N (W)	MAX9768BETG+
1	Externally Adjustable	97	2.7	10 @ 10% THD+N (W)	MAX9768ETG+

518679

Pins	Pkg	Description	Mftrs. List No.	Order Code	1+	10+	100+	250+	500+
					Price Each				
24	TQFN-EP	1.3W Filterless Stereo Class D Audio Power Amplifier	MAX9701ETG+	SMD 159-3402●	1.11	0.87	0.78	0.64	0.56
16	TQFN-EP	2.8W Stereo Filterless Class D Audio Amplifier	MAX9715ETE+	SMD 159-3403●	1.72	1.34	1.20	0.99	0.87
36	TQFN-EP	16W Stereo Class D Amplifier with Differential Inputs & Single/Dual Supply	MAX9742ETX+	SMD 159-3404●	2.63	2.05	1.84	1.53	1.31
16	TQFN-EP	3.2W Mono Filterless Class D Audio Amplifier	MAX9759ETE+	SMD 159-3405●	1.48	1.15	1.04	0.87	0.75
24	TQFN-EP	10W Mono Class D Speaker Amplifier with Volume Control	MAX9768BETG+	SMD 159-3406●	2.24	1.73	1.55	1.30	1.11
24	TQFN-EP	10W Mono Class D Speaker Amplifier with Volume Control	MAX9768ETG+	SMD 159-3408●	2.24	1.73	1.55	1.30	1.11

RL Re-reeling available

Farnell

Video/Audio ICs - continued

210460

	Mftr.	Pins	Pins	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+
3	TI	16	SOIC	Quad Spdt Wide Bandwidth Video Switch With Low On-State Resistance	TS3V330D	SMD 123-6586	0.400000	0.350000	0.290000	0.250000
3	TI	16	SSOP	Quad Spdt Wide Bandwidth Video Switch With Low On-State Resistance	TS3V330DBQR	SMD 123-6587	0.530000	0.390000	0.290000	0.220000
3	TI	16	TSSOP	Quad SPDT High-Bandwidth Video Switch With Low and Flat On-State Resistance	TS3V340PWE4	SMD 105-3244	0.820000	0.550000	0.490000	– –
5	TI	6	DSBGA	SPDT ANALog SWITCH	TS5A3159AYZPR	SMD 123-6588	0.430000	0.310000	0.250000	0.168000
5	TI	16	SOIC	Quad SPDT Wide Bandwidth Video Switch With Low On-State Resistance	TS5V330D	SMD 105-3216	0.390000	0.310000	0.280000	– –
5	TI	16	SOIC	Quad SPDT Wide Bandwidth Video Switch With Low On-State Resistance	TS5V330DE4	SMD 105-3213	0.360000	0.280000	0.260000	– –
6	NSC	8	SOIC	Serial Digital Cable Driver With Adjustable Outputs	CLC006AJE.	SMD 705-056	5.820000	4.490000	3.860000	3.290000
14	NSC	14	NSOIC	Adaptive Cable Equalizer for High Speed Data Recovery	CLC014AJE	SMD 149-5093	21.050000	12.500000	9.970000	8.260000
16	NSC	48	LLP	Video Equalizer (3D+C) for DVI, HDMI Source/Repeater/Sink	DS16EV5110ASQE	NEW SMD 167-9686	8.220000	6.480000	5.340000	4.680000
16	NSC	48	LLP	Video Equalizer 3D+C for DVI, HDMI Sink-Side	DS16EV5110SQ/NOPB	NEW SMD 168-5755	9.610000	7.890000	6.460000	5.920000
16	NSC	28	PLCC	Data Retiming PLL	CLC016AJQ.	SMD 128-6815	21.820000	17.970000	15.280000	14.710000
16	NSC	28	TSSOP	Data Retiming PLL	CLC016MTC	SMD 128-6814	19.590000	16.060000	13.600000	13.250000
20	NSC	28	PLCC	DIgital Video Serializer w/integrated cable driver	CLC020BCQ	SMD 822-1855	40.350000	33.670000	27.520000	– –
21	NSC	44	PQFP	SMPTE 259M Digital Video Serializer with EDH Generation/Insertion	CLC021AVGZ-5.0	SMD 149-5092	58.420000	43.780000	35.780000	33.400000
30	NSC	64	TQFP	SMPTE 292M/259M Digital Video Serializer With Video and Anciliary Data FIFOs and Integrated Cable Driver	CLC030VEC	SMD 823-8588	43.240000	36.760000	29.410000	– –
30	NSC	64	TQFP	SMPTE 292M / 259M Digital Video Serializer with Ancilliary Data FIFO and Integrated Cable Driver	LMH0030VS	SMD 149-5081	53.610000	40.240000	32.890000	30.650000
31	NSC	64	TQFP	SMPTE 292M/259M Digital Video Deserializer / Descrambler with Video and Ancillary Data FIFOs	LMH0031VS	SMD 149-5080	53.610000	40.240000	32.890000	30.650000
44	FSL	16	SOIC	VHF Audio/Video Modulator	MC44BC375UEF	SMD 114-8375	1.410000	1.050000	0.900000	0.850000
122	TI	8	SOIC	150 MW Stereo Audio Power Amplifier	TPA122D	SMD 128-7666	0.960000	0.680000	0.520000	0.390000
122	TI	8	SOIC	150 MW Stereo Audio Power Amplifier	TPA122DG4	SMD 128-7668	0.570000	0.500000	0.370000	0.310000
134	TI	8	PDIP	OP Amp, Differential Audio Line Driver	DRV134PAG4	120-6893	2.850000	2.380000	1.940000	– –
134	TI	16	SOIC	OP Amp, Differential Audio Line Driver	DRV134UAE4	SMD 120-6894	2.940000	2.440000	1.940000	– –
134	BB	8	DIP	Audio Differential Line Receiver With on-chip High Performance Amp and Precision resistors. 0dB Gain	INA134PA	109-7403	2.110000	1.440000	1.070000	– –
134	TI	8	DIP	Op Amp, Audio	OPA134PAG4	117-8437	1.220000	1.030000	0.910000	– –
134	BB	8	SOIC	Low Noise, Low Distortion Audio Amp (IND TEMP)	OPA134UA	SMD 109-7514	1.400000	1.190000	0.920000	– –
135	TI	8	SOIC	OP Amp, Differential Audio Line Driver	DRV135UA	SMD 121-2389	3.920000	2.660000	1.980000	– –
137	BB	8	DIP	Audio Differential Line Receiver With on-chip High Performance Amp and Precision resistors. ±6dB Gain	INA137PA	109-7405	1.680000	1.370000	1.170000	– –
152	TI	8	SOIC	Power Amp, Audio	TPA152D	SMD 845-6399	0.760000	0.630000	0.540000	– –
172	TI	24	HTSSOP	Power Amp, Audio CLASS AB	TPA0172PWPG4	SMD 120-7307	3.660000	3.040000	2.750000	– –
211	ADI	8	SOIC	Low Distortion, 1.5 Watt Audio Power Amplifier	SSM2211SZ	SMD 999-4440	0.850000	0.560000	0.440000	– –
211	TI	8	HTSSOP	Power Amp, Audio CLASS AB	TPA0211DGNG4	SMD 120-7308	1.070000	0.890000	0.800000	– –
212	TI	24	HTSSOP	Power Amp, Audio CLASS AB	TPA0212PWP	SMD 121-2375	1.360000	1.000000	0.770000	– –
275	ADI	8	DIP	Op Amp, Audio	OP275GPZ	960-3760	2.120000	1.440000	1.040000	– –
301	TI	8	SOIC	Power Amp, Audio	TPA301D	SMD 845-6518	0.470000	0.450000	0.410000	– –
311	TI	8	SOIC	350-MW MONO CLASS-AB Audio Amplifier	TPA311DG4	SMD 123-5039	0.530000	0.400000	0.310000	0.280000
320	TI	48	TQFP	Low-Power Mono Voice Band Codec	TLV320AIC10IPFBG4	SMD 123-4984	4.050000	2.830000	2.220000	2.170000
320	TI	30	TSSOP	Low-Power Mono Voice Band Codec	TLV320AIC14IDBTG4	SMD 123-5038	4.240000	3.410000	2.950000	2.830000
320	TI	28	TSSOP	Codec, Audio	TLV320AIC23BIPW	SMD 121-2374	4.880000	4.020000	3.480000	– –
320	TI	28	TSSOP	Codec, Audio	TLV320AIC23BPWG4	SMD 120-7297	4.420000	3.560000	3.060000	– –
320	TI	28	SOIC	Low-Power STEREO CODEC With HP Amplifier	TLV320AIC23PW	SMD 128-7664	5.390000	3.670000	2.960000	2.850000
320	TI	32	QFN	Codec, Audio	TLV320AIC26IRHBG4	SMD 120-7298	4.450000	3.580000	3.090000	– –
320	TI	32	QFN	Low-Power Stereo CODEC with 6 Inputs, 6 Outputs, Headphone Amplifier, Enhanced Digital Effects,and P	TLV320AIC3104IRHBT	SMD 149-4889	5.700000	3.960000	3.300000	2.960000
320	TI	32	QFN	Low-Power Stereo CODEC with 6 Inputs, 6 Outputs, HP/Speaker Amplifier and 3D Effects	TLV320AIC32IRHBTG4	SMD 134-4376	5.060000	4.020000	3.220000	– –
332	FCH	14	TSSOP	Quad Video Switch With IndiviDual Enables	FSAV332MTC	SMD 124-1892	0.910000	0.760000	0.650000	0.550000
332	FCH	16	QSOP	Quad Video Switch With IndiviDual Enables	FSAV332QSC	SMD 124-1893	0.910000	0.760000	0.650000	0.550000
340	ST	8	SOIC	Video Buffer, Single Supply Low Input/Output Rail	TSH340ID	SMD 108-6944	1.990000	1.620000	1.380000	1.290000
343	ST	8	SOIC	280MHz single-supply triple video buffer	TSH343ID	SMD 137-4145	2.390000	1.830000	1.460000	1.230000
344	ST	8	SOIC	340MHz single-supply triple video buffer	TSH344ID	SMD 137-4146	2.390000	1.830000	1.460000	1.230000
380	NSC	14	DIP	2 watt Audio Power Amp	LM380N	948-8308	1.120000	0.920000	0.850000	0.830000
380	NSC	8	DIP	0.6 watt Audio Amp	LM380N-8	948-8294	1.160000	0.780000	0.640000	0.610000
384	NSC	14	DIP	5 watt Audio Power Amp	LM384N	948-8316	1.630000	1.200000	0.870000	0.830000
386	NSC	8	SOIC	Low Voltage Audio Power Amplifier	LM386M-1/NOPB	NEW SMD 156-4701	0.490000	0.390000	0.340000	0.310000
386	NSC	8	SOIC	Low Voltage Audio Power Amp. 0.25 watt	LM386M-1	SMD 948-8324	0.530000	0.440000	0.400000	0.390000
386	NSC	8	DIP	Low Voltage Audio Power Amp. 0.25 watt	LM386N-1	948-8332	0.570000	0.460000	0.430000	0.420000
386	NSC	8	DIP	Low Voltage Audio Power Amp. 0.5 watt	LM386N-3	948-8340	0.570000	0.460000	0.430000	0.410000
386	NSC	8	DIP	Low Voltage Audio Power Amp. 0.7 watt	LM386N-4	948-8359	0.550000	0.450000	0.420000	0.410000
430	FCH	16	TSSOP	Low Voltage 1.1GHz 4 Channel 2:1 Video Switch	FSAV430MTC	SMD 124-1894	1.650000	1.410000	1.210000	1.070000
430	FCH	16	QSOP	Low Voltage 1.1GHz 4 Channel 2:1 Video Switch	FSAV430QSC	SMD 124-1895	1.650000	1.410000	1.210000	1.070000
433	FCH	20	TSSOP	High Bandwidth (550MHz) 3 Channel 3:1 Video Switch	FSAV433MTC	SMD 122-8243	1.700000	1.240000	1.080000	– –
450	FCH	16	TSSOP	800MHz 4 Channel 2:1 Video Switch	FSAV450MTC	SMD 124-1897	1.450000	1.240000	1.060000	0.920000
450	FCH	16	QSOP	800MHz 4 Channel 2:1 Video Switch	FSAV450QSC	SMD 124-1900	1.450000	1.240000	1.060000	0.920000
452	MAX	8	DIP	50MHz, CMOS Unity-Gain stable Video Amp	MAX452CPA+	118-8053	3.590000	2.520000	2.080000	2.030000
457	MAX	8	DIP	Dual, 70MHz, CMOS Unity-Gain stable Video Amp	MAX457CPA+	118-8058	8.400000	6.200000	4.740000	4.020000
535	SLX	28	DIP	16-Channel Wideband/Video Multiplexer, 200MHz	DG535DJ-E3	107-7112	9.830000	6.290000	5.000000	3.790000
538	SLX	28	DIP	8-Channel/Dual 4-Channel Wideband/Video Multiplexer, 500MHz	DG538ADJ-E3	107-7129	7.690000	5.610000	4.410000	3.640000
541	SLX	16	DIP	Quad Monolithic SPST Wideband/Video Switch, 350MHz	DG541DJ-E3	107-7126	3.940000	2.550000	2.000000	1.750000
542	SLX	16	DIP	Dual Monolithic SPDT Wideband/Video Switch, 500MHz	DG542DJ-E3	107-7117	3.610000	2.330000	1.850000	1.660000
567	NSC	8	SOIC	LMCMOS Low Power Tone Decoder	LMC567CM/NOPB	NEW SMD 156-4712	1.130000	0.890000	0.730000	0.630000
567	NSC	8	DIP	Tone Decoder	LM567CN	948-8367	1.090000	0.890000	0.810000	0.790000
567	NSC	8	DIP	CMOS Low Power Tone Decoder	LMC567CN	948-8375	1.590000	1.080000	0.880000	0.840000
600	ADI	16	DIP	Dual, Low Noise, 35MHz Variable Gain Amp	AD600JNZ	107-9410	21.360000	16.980000	15.080000	– –
601	TI	20	QFN	Stereo Line Driver with Adjustable Gain	DRV601RTJT	NEW SMD 163-2100	1.640000	1.190000	0.890000	0.770000
603	ADI	8	DIP	Low Noise, 90MHz Variable-Gain Amp	AD603AQ	563-109▲	8.590000	6.580000	5.580000	– –
604	TI	8	SOIC	OP Amp, FET-I/P, Audio	OPA604AU	SMD 121-2317	2.090000	1.440000	1.070000	– –
611	ADI	120	LQFP	Closed Circuit TV Digital Video Codec	ADV611JSTZ	SMD 143-8742	54.080000	44.830000	37.160000	– –
724	ADI	16	SOIC	RGB to NTSC/PAL Encoder	AD724JRZ	NEW SMD 166-1053	11.090000	9.130000	7.470000	6.850000
725	ADI	16	SOIC	RGB to NTSC/ PAL Encoder	AD725ARZ	NEW SMD 166-1055	9.400000	7.730000	6.330000	5.810000
733	TI	14	SOIC	Differential Video Amplifier	UA733CD	SMD 959-3810	0.350000	0.290000	0.240000	– –
751	TI	8	SON	700mW Mono, Differential Input, Class AB Audio Amplifier with Active Low Shutdown	TPA751DGN	SMD 128-7681	0.800000	0.660000	0.530000	0.450000
797	ADI	8	DIP	Op Amp, Audio Pre-Amp	AD797ANZ	960-3778	7.450000	5.080000	4.100000	3.950000
797	ADI	8	SOIC	Op Amp, Audio Pre-Amp	AD797ARZ	SMD 942-6450	7.450000	5.080000	4.100000	3.950000
801	ADI	64	LQFP	Audio Codec for Recordable DVD	ADAV801ASTZ	SMD 143-8741	12.500000	9.590000	8.130000	– –
810	ADI	8	SOIC	Low Power Video Op Amp with Disable	AD810ARZ	NEW SMD 165-1272	3.770000	2.930000	2.400000	2.190000
810	ADI	8	DIP	Low Power, Current-Feedback Video Amp. With Disable	AD810ANZ	960-3794	4.500000	3.060000	2.280000	– –
811	ADI	8	DIP	Op Amp, Video, WBW	AD811ANZ	960-3786	6.890000	4.720000	3.810000	– –
811	ADI	8	SOIC	High Performance, Wideband, Current-Feedback Video Amp	AD811JRZ	SMD 942-6485	6.890000	4.720000	3.810000	3.670000
813	ADI	14	DIP	Low Power, Triple Video Amp	AD813ANZ	107-9403	10.960000	7.480000	5.210000	4.380000
818	ADI	8	DIP	Low Power Video Amp. (IND TEMP)	AD818ANZ	960-5630	4.020000	2.750000	2.040000	1.940000
820	ST	8	DIP	1.2 watt Low frequency class 'B' Audio Power Amp	TBA820M	109-4339	0.920000	0.720000	0.590000	0.470000
828	ADI	8	SOIC	Dual Low Power Video Op Amp	AD828ARZ	NEW SMD 165-1292	4.180000	3.250000	2.670000	2.440000
828	ADI	8	DIP	Dual, Low Power Video Amp	AD828ANZ	107-9417	5.000000	3.400000	2.530000	– –
829	ADI	8	SOIC	High Speed Low Noise Video Op Amp	AD829JRZ	NEW SMD 165-1321	5.310000	4.120000	3.380000	3.100000

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	Mftr.	Pins	Pins	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+
829	ADI	8	SOIC	High Speed Low Noise Video Op Amp	AD829ARZ	NEW SMD 165-1322	4.490000	3.500000	2.860000	2.620000
829	ADI	8	PDIP	High Speed, Low Noise Video Op Amp	AD829JNZ	143-8584	5.620000	3.830000	3.090000	– –
830	ADI	8	DIP	High Speed, Video Difference Amp. (IND TEMP)	AD830ANZ	107-9432	5.410000	3.690000	2.980000	2.870000
833	ST	8	SOIC	Dual Op Amp, Audio	LM833D	SMD 975-6507	0.640000	0.530000	0.460000	0.330000
833	NSC	8	DIP	Low Noise, Dual Audio Operational Amp	LM833N	948-8383	0.650000	0.450000	0.360000	0.340000
833	ST	8	DIP	Dual Op Amp, Audio	LM833N	975-6493	0.740000	0.490000	0.400000	0.380000
833	NSC	8	DIP	Dual Audio Op Amp	LM833N.	410-391	0.460000	0.380000	0.280000	0.192000
833	ON SEMI	8	DIP	Low Noise, Dual Audio Operational Amp	LM833NG	121-4467	0.300000	0.220000	0.200000	0.181000
837	NSC	14	DIP	Low Noise, Quad Audio Operational Amp.	LM837N	948-8391	1.160000	1.010000	0.830000	0.800000
837	NSC	14	DIP	Quad Audio Op Amp	LM837N.	410-408	1.930000	1.670000	1.240000	0.790000
847	ADI	8	SOIC	High Speed, Low Power Video Amp.	AD847JRZ	SMD 942-6477	6.620000	4.510000	3.640000	3.490000
900	TI	28	TSSOP	Digital Audio Receiver, 96kHz	DIR9001PW.	SMD 139-0699	2.708332	– –	– –	– –
1010	LT	8	DIP	Fast ±150mA Power Buffer	LT1010CN8#PBF	NEW 166-3326	4.540000	3.410000	2.720000	2.270000
1011	LT	5	TO-220	Fast ±150mA Power Buffer	LT1010CT#PBF	NEW 166-3327	5.200000	3.900000	3.120000	2.600000
1012	NSC	4	BGA	Pre-Amplified IC's for High Gain 2-Wire Microphones	LMV1012UP-20	SMD 823-8790	0.650000	0.550000	0.450000	– –
1012	NSC	4	BGA	Pre-Amplified IC's for High Gain 2-Wire Microphones	LMV1012UP-25	SMD 823-8804	0.430000	0.360000	0.300000	– –
1012	NSC	4	BGA	Amplifiers for 3 Wire AnaLog Electret Microphones	LMV1032UP-15	SMD 823-8820	0.830000	0.720000	0.560000	– –
1013	NXP	9	SIL9MPF	4 W audio power amplifier with DC volume control	TDA1013B/N2	150-6618	0.660000	0.530000	0.440000	0.380000
1020	TI	48	SOIC	Stereo USB Audio Interface	TAS1020BPFBG4	SMD 128-7626	5.060000	4.650000	4.250000	3.910000
1064	NXP	24	DIP	4 Digit LED Driver wi th I2C Bus Interface	SAA1064/N2,112	NEW 162-7002	2.300000	1.880000	1.720000	1.480000
1089	NSC	36	Bump	Dual Input Microphone Amplifier	LMV1089RL	NEW SMD 166-7419	16.950000	13.180000	10.780000	9.130000
1193	LT	8	DIP	Video Difference Amp	LT1193CN8#PBF	956-0297	5.200000	2.950000	2.270000	– –
1233	TI	20	PDIP	Video PREAmplifier SYSTEM	TLS1233NE4	123-4891	0.770000	0.710000	0.650000	0.590000
1235	ADI	8	SOIC	Dual Single-Supply Audio Operational Amplifier	SSM2135SZ	SMD 999-4475	4.830000	3.430000	2.540000	– –
1251	NSC	24	TSSOP	YPBPR/RGB Video Converter Switch	LMH1251MT	SMD 128-6773	5.120000	4.340000	3.750000	3.310000
1269	NSC	24	DIP	110MHz I2C Compatible RGB Video Amplifier with OSD & DAC	LM1269NA/NOPB	NEW 168-5376	1.710000	1.340000	1.090000	1.010000
1328	ADI	48	LQFP	2 ADC/8 DAC With PLL, 192 kHz, 24-Bit Codec.	ADAU1328BSTZ	SMD 127-4188	9.570000	6.520000	5.260000	5.070000
1516	NXP	13	DBS13P	24 W BTL or 2 x 12 watt stereo car radio power amplifier	TDA1516BQ/N2	150-6619	2.760000	2.200000	1.840000	1.580000
1517	NXP	9	SIL9MPF	2 x 6 W stereo power amplifier	TDA1517/N3	150-6620	0.660000	0.530000	0.440000	0.380000
1517	TI	20	HSOP	Power Amp, CLASS-A Audio	TPA1517DWP	SMD 121-2376	1.580000	1.080000	0.770000	– –
1519	NXP	9	SIL9MPF	12 W BTL or 2 x 6 W stereo car radio power amplifier	TDA1519B/N2	150-6621	1.950000	1.550000	1.300000	1.110000
1560	NXP	17	DBS17P	Car Radio Audio Amp	TDA1560Q/N4	702-420	7.440000	5.430000	4.100000	– –
1875	NSC	5	TO-220	20 watt Audio Power Amp.	LM1875T	948-8405	2.790000	1.660000	1.320000	1.130000
1876	NSC	15	TO-200	Dual 20 Watt Audio Power Amp. With Mute, Standby and SPiKe Protection	LM1876TF	949-3590	5.090000	4.160000	3.820000	3.730000
1877	NSC	14	MDIL	2W/Channel Dual Audio Power Amplifier	LM1877N-9/NOPB	NEW 156-4681	1.250000	1.020000	0.900000	0.800000
1877	NSC	14	SOIC	Dual Audio Power Amplifier	LM1877M-9/NOPB	NEW SMD 168-5321	1.060000	0.820000	0.670000	0.620000
1881	NSC	8	MDIP	Video Sync Separator	LM1881N/NOPB	NEW 156-4700	2.170000	1.710000	1.420000	1.200000
1881	NSC	8	SOIC	Video Sync. Separator	LM1881M	SMD 949-3468	2.500000	1.480000	1.180000	0.930000
1881	NSC	8	DIP	Video Sync. Separator	LM1881N	948-8413	2.570000	2.090000	1.930000	1.470000
1883	INTS	8	SOIC	Sync Separator with Horizontal Output	EL1883ISZ	NEW SMD 156-1942	1.810000	1.420000	1.150000	0.970000
1885	ADI	48	LQFP	AC'97 SoundMAX Codec	AD1885JSTZ	NEW SMD 166-1054	5.790000	4.490000	3.680000	3.380000
1905	ST	16	DIP	5 watt Audio Amp. With mute	TDA1905	109-4340	1.900000	1.670000	1.420000	1.240000
1941	ADI	48	LQFP	SigmADSP Multichannel 28-Bit Audio Processor	AD1941YSTZ	SMD 107-8403	9.350000	8.680000	7.430000	– –
1970	ADI	48	LQFP	Complete MTS (BTSC) TV Stereo Encoder	AD1970JSTZ	SMD 107-8402	7.120000	5.810000	4.760000	– –
1971	NSC	8	SOIC	1-Channel 62dB Audio Attenuator With Mute	LM1971M	SMD 949-4073	2.150000	1.760000	1.620000	1.570000
1981	NSC	14	TSSOP	Multi-Format Video Sync Separator	LMH1981MT	SMD 134-2329	6.790000	5.590000	4.740000	4.120000
1990	ADI	64	LFCSP	Class-D Audio Power Amplifier - 2 × 5W	AD1990ACPZ	SMD 127-4281	7.330000	5.220000	4.210000	4.060000
1992	ADI	64	LFCSP	Class-D Audio Power Amplifier - 2 × 10W	AD1992ACPZ	SMD 127-4280	11.190000	8.590000	7.280000	6.980000
1994	ADI	64	LFCSP	Class-D Audio Power Amplifier - 2 × 25W	AD1994ACPZ	SMD 127-4279	11.920000	8.130000	6.560000	6.310000
2000	TI	16	TSSOP	Power Amp, CLASS-D Audio	TPA2000D1PWG4	SMD 120-7309	1.540000	1.280000	1.170000	– –
2000	TI	20	TSSOP	PROG Touch Screen Controller	TSC2000IPWG4	SMD 120-7360	3.040000	2.460000	2.140000	– –
2001	TI	16	TSSOP	Mono Filter Free Class D Audio Amplifier	TPA2001D1PW.	NEW SMD 164-8679	1.140000	0.910000	0.760000	0.690000
2005	TI	8	SON	1.4W Mono Fully Differential Filter-Free Class D Audio Amplifier	TPA2005D1DRBR.	NEW SMD 164-8680	0.670000	0.540000	0.450000	0.400000
2003	ST	5	Pentawatt	10 watt Car Radio Audio Amp	E-TDA2003V	115-9698	1.910000	1.500000	1.250000	1.060000
2003	TI	16	TSSOP	Touch Screen Controller	TSC2003IPWG4	SMD 120-7361	2.920000	2.360000	2.050000	– –
2005	TI	15	BGA	1.4-w mono, fully differential, filter-free class-d Audio Amplifier	TPA2005D1ZQYR	SMD 128-7683	1.130000	0.830000	0.630000	0.480000
2010	TI	9	DSBGA	Power Amp, Audio	TPA2010D1YZFT	SMD 845-6437	1.070000	0.760000	0.580000	– –
2011	IR	8	SOIC	High and Low Side Driver	IRS2011SPBF	SMD 108-0636	1.700000	1.130000	0.960000	– –
2012	TI	20	QFN	2.1-W Stereo Class-D Audio Power Amplifier.	TPA2012D2RTJTG4	SMD 139-0712	1.550000	1.240000	1.030000	0.880000
2016	TI	16	DSBGA	1.7W/Channel Stereo Class-D Audio Amplifier with DRC & AGC	TPA2016D2YZHT	NEW SMD 163-2101	4.100000	2.960000	2.220000	1.900000
2018	ADI	16	DIP	Voltage-Controlled Amp./OVCE	SSM2018PZ	107-9399	5.180000	3.530000	2.850000	– –
2018	ADI	16	DIP	Trimless Voltage Controlled Amp./OVCE	SSM2018TPZ	107-9412	4.460000	3.600000	3.010000	– –
2019	ADI	8	PDIP	Self-Contained Audio Preamplifier	SSM2019BNZ	143-8685	4.130000	2.830000	2.100000	– –
2030	ST	5	Pentawatt	14 watt Hi-Fi Audio Power Amp.	TDA2030H	109-4342	3.020000	2.240000	1.820000	1.460000
2030	ST	5	Pentawatt	14 watt Hi-Fi Audio Power Amp.	TDA2030V	109-4343	3.460000	2.580000	1.900000	1.670000
2031	TI	16	DSBGA	2.7W Constant Output Power Mono Class-D Audio Amplifier	TPA2013D1YZHR	NEW SMD 163-2095	3.180000	2.300000	1.730000	1.480000
2033	TI	9	DSBGA	2.75W Gain of 3 Mono Class D Power Amp.	TPA2033D1YZF	NEW SMD 162-4396	1.180000	0.890000	0.670000	0.600000
2040	ST	5	Pentawatt	22 watt Hi-Fi Audio Power Amp.	TDA2040V	109-4344	3.560000	2.750000	1.940000	1.690000
2046	TI	16	TSSOP	4-WIRE Touch Screen Controller	TSC2046IPWG4	SMD 120-7363	2.100000	1.710000	1.480000	– –
2050	ST	5	Pentawatt	25 watt Hi-Fi Audio Power Amp.	TDA2050V	109-4345	4.580000	3.400000	2.550000	2.130000
2100	TI	32	TSSOP	Programmable Touch Screen Controller With Integrated Stereo Audio Codec & Headphone/Speaker Amp.	TSC2100IDAG4	SMD 932-4208	3.760000	3.020000	2.830000	– –
2134	TI	8	DIP	Dual Op Amp, Audio	OPA2134PA.	109-7574	2.160000	1.470000	1.060000	0.990000
2141	ADI	8	DIP	High Common-Mode Rejection Differential Line Receiver	SSM2141PZ	107-9397	3.190000	2.170000	1.620000	– –
2142	ADI	8	DIP	Balanced Line Driver.	SSM2142PZ	107-9398	4.860000	3.310000	2.460000	– –
2143	ADI	8	SOIC	-6 dB Differential Line Receiver	SSM2143SZ	SMD 138-9175	3.050000	2.080000	1.550000	1.470000
2143	ADI	8	DIP	-6dB Differential Line Receiver.	SSM2143PZ	107-9316	3.050000	2.080000	1.550000	– –
2166	ADI	14	NSOIC	Complete Microphone Conditioner With Variable Compression & Noise Gating	SSM2166SZ	SMD 999-4459	4.990000	3.520000	2.840000	– –
2200	TI	28	TSSOP	PROG Touch Screen Controller	TSC2200IPWG4	SMD 120-7364	3.090000	2.510000	2.180000	– –
2210	ADI	8	DIP	Precision NPN Transistor Pair optimized for use in Audio applications.	SSM2210PZ	960-5088	4.010000	2.840000	2.110000	– –
2210	ADI	8	SOIC	Audio Dual mAtched NPN Transistor	SSM2210SZ	SMD 999-4467	4.660000	3.300000	2.450000	– –
2220	ADI	8	DIP	Precision PNP Transistor Pair optimized for use in Audio applications.	SSM2220PZ	960-5096	5.230000	3.560000	2.870000	– –
2310	TI	16	PDIP	Stereo Audio Volume Control	PGA2310PA	121-2339	14.770000	11.330000	9.610000	– –
2310	TI	16	SOIC	Stereo Audio Volume Control	PGA2310UAG4	SMD 120-7095	15.480000	12.800000	10.540000	– –
2311	TI	16	SOIC	±5V Stereo Audio Volume Control	PGA2311UA.	NEW SMD 164-8764	5.730000	4.960000	4.300000	3.890000
2311	TI	16	PDIP	Stereo Audio Volume Control	PGA2311PA	121-2340	7.970000	5.430000	4.380000	– –
2402	ADI	14	DIP	Dual SPST Audio Analogue Switch	SSM2402PZ	107-9428	4.670000	3.730000	2.930000	– –
2500	TI	28	SSOP	Digitally Controlled Microphone PreAmplifier	PGA2500IDBG4	SMD 118-0156	16.560000	14.170000	12.390000	11.000000
2611	NXP	9	SIL9MPF	5 watt Audio Power Amp.	TDA2611A/N5	410-743	0.610000	0.440000	0.340000	0.300000
2615	NXP	9	SIL9MPF	2x6 watt Hi-Fi Audio Power Amp	TDA2615/N1	571-507	1.230000	0.910000	0.680000	0.600000
2820	ON	9	FLIP CHIP	2.65W PWR Audio Class D Amp	NCP2820FCT2G	NEW SMD 136-9733	0.870000	0.710000	0.630000	0.580000
2822	ST	8	DIP	1 watt+1 watt Stereo Audio Amp., for cassette players/radios.	TDA2822M	121-8171	1.290000	0.960000	0.730000	0.630000
2900	TI	28	SSOP	Audio Codec With USB	PCM2900EG4	SMD 120-7086	6.380000	5.600000	4.970000	4.490000
2902	TI	28	SSOP	Audio Codec With USB	PCM2902EG4	SMD 120-7089	5.330000	4.830000	4.420000	4.080000
2904	TI	28	SSOP	Audio Codec With USB	PCM2904DBG4	SMD 120-7091	6.380000	5.600000	4.970000	4.490000
2912	TI	32	TQFP	USB Mono Microphone to Stereo Headphone Audio CODEC.	PCM2912PJT	NEW SMD 163-2098	10.110000	7.340000	5.510000	4.720000
3001	TI	24	HTSSOP	Power Amp, CLASS-D Audio	TPA3001D1PWPG4	SMD 120-7310	4.160000	3.490000	2.930000	– –
3004	TI	48	HTQFP	Power Amp, Audio	TPA3004D2PHPG4	SMD 120-7314	5.240000	4.350000	3.820000	– –
3010	TI	24	SSOP	Stereo Audio Codec.	PCM3010DB	SMD 843-4794	4.560000	4.130000	3.780000	3.480000
3052	TI	32	QFN	24-Bit Stereo Audo Codec with Mic amp, Bias, MUX and PGA	PCM3052ARTFG4	SMD 139-0704	3.670000	3.050000	2.520000	2.180000
3054	NSC	16	DIP	Enhanced Serial Interface CODEC/Filter	TP3054N/NOPB	NEW 168-5564	4.920000	3.830000	3.130000	2.870000
3060	TI	28	TSSOP	24-Bit Asynchronous Stereo Audio Codec, 96/192kHz.	PCM3060PW	SMD 139-0706	3.900000	2.660000	1.980000	1.880000
3070	NSC	28	PLCC	Programmable PCM CODEC/Filter	TP3070V-G/NOPB	NEW SMD 168-5554	9.080000	7.060000	5.780000	5.300000
3094	NSC	44	PLCC	Quad PCM Codec/Filter	TP3094V/NOPB	NEW SMD 168-5754	9.040000	7.430000	6.080000	5.580000

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Video/Audio ICs - continued

	Mftr.	Pins	Pins	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+
3100	TI	48	HTQFP	20W/Channel Class D Audio Power Amp	TPA3100D2PHP	NEW SMD 163-2094	6.050000	5.050000	3.790000	3.240000
3103	TI	38	TSSOP	Dig Processor, Audio	TAS3103DBTG4	SMD 120-7276	5.110000	4.560000	3.950000	– –
3120	TI	24	HTSSOP	25-W Stereo Class-D Audio Power Amplifier	TPA3120D2PWPG4	SMD 139-0713	5.140000	4.140000	3.420000	2.940000
3123	TI	24	HTSSOP	25W/Channel Stereo Class D Audio Power Amp	TPA3123D2PWP	NEW SMD 163-2099	6.540000	4.750000	3.560000	3.040000
3308	CIR	48	LQFP	123 dB 8-Channel Analog Volume Control, I2C, SPI	CS3308-CQZ	SMD 150-6251	15.310000	11.130000	8.750000	– –
3318	CIR	48	LQFP	127 dB 8-Channel Analog Volume Control, I2C, SPI	CS3318-CQZ	SMD 150-6252	11.920000	9.480000	9.040000	– –
3350	FCH	14	TSSOP	Triple, high-performance, voltage-feedback amplifier designed for video applications	FHP3350IMTC14X	SMD 149-5447	0.770000	0.550000	0.510000	0.440000
3430	FCH	14	TSSOP	Quad, High Speed, 2.7V to 12V, Rail to Rail Amplifier, low differential gain and phase (0.008% /0.01°) and 0.1dB gain flatness	FHP3430IMTC14X	SMD 149-5448	1.430000	0.970000	0.700000	0.650000
3450	FCH	14	TSSOP	Quad, high-performance, voltage-feedback amplifier designed for video applications	FHP3450IMTC14X	SMD 149-5449	1.010000	0.720000	0.660000	0.560000
3500	TI	24	SSOP	Single Audio Codec	PCM3500EG4	SMD 120-7092	3.130000	2.840000	2.600000	2.310000
3815	MAX	48	TQFP-EP	DVI/HDMI Cable TMDS Digital Video Equalizer	MAX3815CCM+D	NEW SMD 159-3367	7.790000	6.060000	5.460000	4.540000
3818	FCH	48	LQFP	180MHz Triple Video 8-Bit D/A Converter	FMS3818KRC	SMD 149-5486	10.910000	7.940000	7.280000	6.230000
3876	NSC	11	SIL	High Performance 100 watt Audio Power Amp. With mute and Spike Protection	LM3876T	948-6143	4.310000	3.520000	3.230000	3.160000
3876	NSC	11	SIL-11	Audio Power Amp, 100W	LM3876T.	295-553	2.610000	2.140000	1.780000	1.600000
3886	NSC	11	TO-220	High Performance 68 watt Audio Power Amp. With mute and Spike Protection	LM3886T	949-3603	5.270000	3.130000	2.790000	2.710000
3886	NSC	11	TO-220	Hi-Performance 68W Audio Power Amp With mute	LM3886TF	948-9681	5.600000	4.580000	4.210000	– –
4093	INTS	16	SOIC	300MHz DC-Restored Video Amplifier	EL4093CSZ	NEW SMD 156-1955	8.190000	6.380000	5.210000	4.400000
4096	TI	28	TSSOP	96kHz Digital Audio Transmitter	DIT4096IPW.	NEW SMD 164-8766	2.310000	1.900000	1.580000	1.430000
4112	MAX	8	SOIC	500MHz, Low Power, Current-Mode Feedback Amp. for Video applications	MAX4112ESA+	SMD 118-8064	3.150000	2.580000	2.110000	1.790000
4190	TI	28	SSOP	Sample Rate Converter, Audio	SRC4190IDB	SMD 845-2733	7.630000	5.200000	4.200000	– –
4192	TI	28	SSOP	Sample Rate Converter, Audio	SRC4192IDB	SMD 845-2741	10.580000	8.120000	6.890000	– –
4192	TI	48	TQFP	Digital Audio Interface Transceiver	DIX4192IPFBG4	SMD 139-0700	7.260000	5.850000	4.830000	4.130000
4193	TI	28	SSOP	Sample Rate Converter, Audio	SRC4193IDB	SMD 845-2750	11.950000	9.200000	7.800000	– –
4311	TI	28	SOIC	4-Channel Audio Volume Control	PGA4311U	SMD 121-2341	8.870000	7.350000	6.200000	– –
4392	TI	48	TQFP	Dual Channel Asynchronous Sample Rate Converter	SRC4392IPFB	NEW SMD 162-4400	14.320000	12.900000	10.750000	9.200000
4410	MAX	14	TSSOP	80mW/Channel DirectDrive Stereo Headphone Driver	MAX4410EUD+	NEW SMD 159-3370	0.860000	0.660000	0.600000	0.510000
4411	ADI	24	QSOP	Integrated Triple Video Filter and Buffer	ADA4411-3ARQZ	SMD 107-8234	2.810000	2.160000	1.830000	– –
4412	ADI	20	QSOP	Integrated Triple Video Filter With Selectable Cutoff Frequencies for RGB, HD/SD	ADA4412-3ARQZ	SMD 111-7875	3.040000	2.250000	1.680000	1.590000
4412	CIR	48	QFN	30 W Quad Half-Bridge Digital Amplifier Power Stage	CS4412A-CNZ	SMD 150-6245	5.240000	3.820000	2.980000	– –
4417	ADI	10	MSOP	Integrated Triple Video Filter for High Definition Video	ADA4417-3ARMZ	SMD 133-1018	2.790000	1.910000	1.420000	1.350000
4501	INTS	24	QSOP	100MHz Video Front End Processor Slew Rate 200V/microsec	EL4501IUZ	NEW SMD 156-2017	6.660000	5.830000	4.660000	3.880000
4501	INTS	24	QSOP	100MHz Video Front End Processor Slew Rate 200V/microsec	EL4501IUZ	NEW SMD 156-2017	6.660000	5.830000	4.660000	3.880000
4511	INTS	24	QSOP	Super Sync Separator	EL4511CUZ	NEW SMD 156-1957	6.660000	5.180000	4.240000	3.590000
4525	CIR	48	QFN	30 W Digital Audio Amplifier with Integrated ADC	CS4525-CNZ	SMD 150-6246	8.340000	6.060000	4.750000	– –
4545	MAX	20	SSOP	Quad, Low Voltage, Bidirectional RF/Video Switches	MAX4545CAP+	SMD 118-7994	5.000000	3.600000	2.910000	2.570000
4549	NSC	48	LQFP	AC '97 Rev 2.1 Codec with Sample Rate Conversion & National 3D Sound	LM4549BVH/NOPB	NEW SMD 168-5555	6.880000	5.350000	4.380000	4.010000
4550	NSC	48	LQFP	Multi-Channel Audio Codec with Stereo Headphone Amplifier	LM4550BVH/NOPB	NEW SMD 168-5761	6.510000	5.350000	4.380000	4.010000
4562	NSC	8	TO-99	Dual Audio Op Amp	LM4562HA/NOPB	NEW 168-5364	20.300000	15.790000	12.920000	11.850000
4581	INTS	8	SOIC	Video Sync Seperator, 50% Slice, Sample and Hold, Filter	EL4581CSZ	SMD 905-3280	4.380000	3.840000	3.400000	– –
4584	ELAN	16	DIP	Horizontal Genlock	EL4584CN	559-118	9.860000	6.830000	4.310000	– –
4600	INTS	8	SOIC	480MHz Unity Gain Video Buffer with Output Disable	HA4600CBZ	NEW SMD 156-2061	1.350000	1.010000	0.810000	0.670000
4663	NSC	24	TSSOP	2 watt stereo class 'D' Audio Power Amplifier With stereo headphone Amplifier	LM4663MT	SMD 977-8969	2.010000	1.570000	1.260000	– –
4664	NSC	9	Bump Micro SMD	Filterless High Efficiency 1.1W Switching Audio Amp	LM4664ITL	SMD 823-8863	0.400000	0.340000	0.300000	– –
4665	NSC	9	Micro Bump	1W Audio Amplifier Switch	LM4665ITL	SMD 128-6896	1.480000	1.150000	0.880000	0.810000
4665	NSC	10	MSOP	Filterless High Efficiency 1W Switching Audio Amplifier	LM4665MM	SMD 131-2766	1.700000	1.410000	1.160000	1.030000
4667	NSC	10	MSOP	Filterless High Efficiency 1.3W Switching Audio Amp	LM4667MM	SMD 818-1080	0.810000	0.680000	0.540000	– –
4668	NSC	14	LD	10W High-Efficiency Mono BTL Audio Power Amp	LM4668LD	SMD 823-8669	3.420000	2.890000	2.200000	– –
4670	NSC	9	Micro Bump	Audio Amp, Class D, 3W	LM4670ITL	SMD 128-6809	0.640000	0.490000	0.430000	0.420000
4670	NSC	8	LLP	Filterless High Efficiency 3W Switching Audio Amplifier	LM4670SD	SMD 131-2668	1.080000	0.850000	0.680000	0.600000
4673	NSC	9	Micro Bump	Mono Audio Amplifier, Class D	LM4673TM	SMD 128-6897	1.700000	1.340000	1.000000	0.830000
4673	NSC	8	LLP	Filterless, 2.65W, Mono, Class D Audio Power Amplifier	LM4673SD	SMD 131-2767	1.490000	1.010000	0.830000	0.780000
4674	NSC	16	LLP	Filterless 2.5W Stereo Class D Audio Power Amplifier	LM4674SQ/NOPB	NEW SMD 168-5324	2.110000	1.650000	1.350000	1.230000
4680	NSC	14	LLP	10W High-Efficiency Mono BTL Audio Power Amplifier	LM4680SD	SMD 100-8017	5.590000	3.960000	3.230000	– –
4702	NSC	15	TO-220	Audio Power Amplifier Stereo High Fidelity 200Volt Driver with Mute	LM4702BTA/NOPB	NEW 168-5367	15.490000	12.050000	9.860000	9.040000
4702	NSC	15	TO-220	Audio Stereo Driver	LM4702CTA	128-6760	7.830000	5.000000	3.630000	– –
4731	NSC	15	TO-220	Stereo 25W Audio Power Amplifier	LM4731TA/NOPB	NEW 168-5377	6.430000	5.000000	4.090000	3.750000
4755	NSC	9	TO-263	Stereo 11W Audio Power Amplifier with Mute	LM4755TS/NOPB	NEW 168-5378	1.900000	1.470000	1.200000	1.110000
4755	NSC	9	TO-220	Stereo 11W/Channel Audio Power Amplifier with Mute	LM4755T/NOPB	NEW 156-4691	1.750000	1.440000	1.260000	1.130000
4765	NSC	15	TO-220	Dual 30W/Channel Audio Power Amplifier	LM4765T/NOPB	NEW 168-5341	6.340000	4.940000	4.030000	3.700000
4766	NSC	15	TO-220	Dual 40W/Channel Audio Power Amplifier	LM4766TF/NOPB	NEW 168-5379	5.680000	4.410000	3.610000	3.310000
4766	NSC	15	TO-220	Dual, 40 watt Audio Power Amp	LM4766T	948-5864	3.870000	3.020000	2.210000	– –
4780	NSC	27	TO-220	120W Mono/60W Stereo Amp	LM4780TA	949-0620	11.380000	9.500000	7.590000	– –
4802	NSC	28	LQFP	Audio Power Amplifier with Boost Converter to Drive Ceramic Speakers	LM4802BLQ	SMD 131-2768	1.630000	1.280000	1.040000	0.940000
4811	NSC	10	MSOP	Dual 105mW per channel Audio Power Amplifier	LM4811MM	SMD 977-9221	1.270000	0.970000	0.820000	– –
4811	NSC	10	MSOP	Dual 105mW per channel Audio Power Amplifier	LM4811MM.	SMD 412-5381	0.630000	0.430000	0.350000	– –
4838	NSC	36	Micro Bump	Stereo Audio Amplifier, 2.2W	LM4838ITL	SMD 128-6901	2.730000	2.120000	1.610000	1.340000
4838	NSC	28	TSSOP	Stereo Audio Amplifier, 2W	LM4838MT	SMD 128-6898	3.160000	2.480000	1.860000	1.540000
4838	NSC	28	TSSOP	Stereo Audio Amplifier, 2.2W	LM4838MTE	SMD 128-6899	1.330000	1.030000	0.780000	0.690000
4838	NSC	28	LLP	Stereo 2W Audio Power Amplifiers with DC Volume Control and Selectable Gain	LM4838LQ	SMD 131-2769	2.290000	1.790000	1.420000	1.290000
4839	NSC	28	LLP	Stereo 2W Audio Power Amplifiers with DC Volume Control, Bass Boost, and Input Mux	LM4839LQ	SMD 131-2770	2.130000	1.670000	1.340000	1.210000
4839	NSC	28	TSSOP	Stereo Audio Amplifier, 2W	LM4839MT	SMD 128-6902	3.750000	2.920000	2.210000	1.840000
4839	NSC	28	TSSOP	Stereo Audio Amplifier, 2.2W	LM4839MTE	SMD 128-6903	2.640000	2.060000	1.550000	1.360000
4840	NSC	28	TSSOP	Stereo Audio Amplifier, 2W	LM4840MH	SMD 128-6905	2.480000	1.940000	1.450000	1.300000
4840	NSC	28	TSSOP	Stereo Audio Amplifier, 2W	LM4840MT	SMD 128-6906	2.640000	2.060000	1.550000	1.290000
4840	NSC	28	LLP	Stereo 2W Audio Power Amplifiers with Digital Volume Control and Input Mux	LM4840LQ	SMD 131-2771	2.520000	2.090000	1.650000	1.450000
4845	NSC	25	Bump Micro SMD	Output Capacitor-less Audio Subsystem With Programmable National 3D	LM4845ITL	SMD 100-8019	3.230000	2.360000	1.880000	– –
4857	NSC	30	Bump Micro SMD	Stereo 1.2W Audio Sub-System With 3D Enhancement	LM4857ITL	SMD 818-1144	3.350000	2.850000	2.290000	– –
4860	NSC	16	SOIC	1 watt Audio Power Amp With Shutdown Mode	LM4860M	SMD 949-0540	1.130000	0.920000	0.850000	0.830000
4861	NSC	8	SOIC	0.5 watt Audio Power Amp With Shutdown Mode	LM4861M	SMD 949-3794	2.670000	1.890000	1.520000	1.080000
4861	TI	8	SOIC	Power Amp, Audio	TPA4861D	SMD 845-6526	0.990000	0.760000	0.540000	– –
4862	NSC	8	NSOIC	675mW Audio Power Amp with Shutdown Mode	LM4862M/NOPB	NEW SMD 156-4793	0.980000	0.820000	0.710000	0.640000
4864	NSC	8	SOIC	Boomer Audio Amplifier, 0.3W	LM4864M.	SMD 128-6907	0.810000	0.630000	0.480000	0.410000
4864	NSC	8	Mini SOIC	725mW Audio Power Amplifier with Shutdown Mode	LM4864MM	SMD 131-2772	0.670000	0.530000	0.420000	0.380000
4865	NSC	8	SOIC	750mW Audio Power Amp. With DC vol. and headphone switch	LM4865M	SMD 948-6356	1.270000	1.040000	0.960000	– –
4866	NSC	20	SSOP	Stereo Audio Amplifier, 2W	LM4866MT	SMD 128-6908	1.380000	1.080000	0.810000	0.730000
4866	NSC	20	TSSOP	Stereo Audio Amplifier, 2W	LM4866MTE	SMD 128-6909	1.470000	1.200000	1.020000	0.880000
4866	NSC	24	LLP	2.2W Stereo Audio Amplifier	LM4866LQ	SMD 131-2773	1.440000	1.180000	0.940000	0.830000
4871	ST	8	SOIC	1W Audio Power Amp with R/R O/P	TS4871ID	NEW SMD 156-4352	1.290000	1.020000	0.920000	0.750000
4871	NSC	8	MSOP	3W Mono Audio Power Amplifier with Shutdown Mode	LM4871MM/NOPB	NEW SMD 168-5342	0.820000	0.640000	0.530000	0.480000

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	Mftr.	Pins	Pins	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+
4872	NSC	8	Bump Micro SMD	1 Watt Audio Power Amplifier in micro SMD package	LM4872ITP	SMD 100-8022	0.910000	0.650000	0.520000	– –
4875	NSC	8	SO	750mW Audio Power Amplifier With DC Volume Control and Headphone Switch	LM4875M	SMD 100-8023	1.170000	0.870000	0.630000	– –
4879	NSC	9	Bump	Boomer Audio Amplifier, 1.1W	LM4879ITL	SMD 128-6913	0.820000	0.640000	0.480000	0.390000
4879	NSC	8	Bump	Boomer Audio Amplifier, 1.1W	LM4879ITP	SMD 128-6914	0.820000	0.640000	0.480000	0.390000
4879	NSC	8	LLP	1.1 Watt Audio Power Amplifier	LM4879SD	SMD 100-8024	1.040000	0.750000	0.560000	– –
4879	NSC	8	LLP	1.1 Watt Audio Power Amplifier	LM4879MM	SMD 131-2774	1.050000	0.820000	0.650000	0.590000
4880	NSC	8	SOIC	Dual 200mW Audio Power Amp. With Shutdown Mode	LM4880M	SMD 949-3921	1.200000	0.820000	0.670000	0.630000
4882	NSC	8	SOIC	250mW Audio Power Amp. With Shutdown Mode	LM4882M	SMD 121-5182	0.650000	0.510000	0.390000	– –
4886	MAX	42	TQFN	High-Speed HDMI / DVI 2:1 Digital Video Switch	MAX4886ETO+	SMD 143-3201	2.820000	2.540000	2.290000	2.060000
4889	NSC	8	Bump	Boomer Audio Amplifier, 1W	LM4889ITL	SMD 128-6915	0.580000	0.450000	0.330000	0.280000
4889	NSC	8	SOIC	Boomer Audio Amplifier, 1W	LM4889MA	SMD 128-6916	0.840000	0.650000	0.490000	0.410000
4889	NSC	8	MSOP	1 Watt Audio Power Amplifier	LM4889MM	SMD 131-2775	0.520000	0.400000	0.330000	0.300000
4890	NSC	8	MSOP	1 Watt Audio Power Amplifier	LM4890MM/NOPB	NEW SMD 168-5380	1.050000	0.810000	0.660000	0.610000
4890	NSC	8	SOIC	1Watt Mono Audio Power Amplifier	LM4890M/NOPB	NEW SMD 168-5322	1.050000	0.810000	0.660000	0.610000
4890	NSC	8	Bump Micro SMD	1 Watt Audio Power Amplifier	LM4890ITP	SMD 100-8025	0.710000	0.530000	0.410000	– –
4893	NSC	9	Bump	Power Audio Amplifier, 1.1W.	LM4893ITL	SMD 128-6917	0.770000	0.600000	0.460000	0.370000
4893	NSC	8	SOIC	Power Audio Amplifier, 1.1W.	LM4893MA	SMD 128-6918	0.750000	0.580000	0.440000	0.390000
4893	NSC	10	LLP	1.1 Watt Audio Power Amplifier	LM4893MM	SMD 131-2776	0.780000	0.610000	0.480000	0.440000
4900	NSC	8	SOIC	Audio Amplifier, 265MW@3.3V	LM4900M	SMD 128-6919	0.630000	0.500000	0.360000	0.330000
4900	NSC	16	LLP	265mW at 3.3V Supply Audio Power Amplifier with Shutdown Mode	LM4900MM	SMD 131-2778	0.850000	0.660000	0.530000	0.480000
4901	NSC	16	LLP	1.6 Watt Audio Power Amplifier with Selectable Shutdown Logic Level.	LM4901MM	SMD 131-2779	0.930000	0.720000	0.580000	0.530000
4902	NSC	16	LLP	265mW at 3.3V Supply Audio Power Amplifier with Shutdown Mode	LM4902MM	SMD 131-2780	0.510000	0.390000	0.320000	0.290000
4903	NSC	28	LLP	1.6 Watt Audio Power Amplifier	LM4903MM	SMD 131-2781	1.490000	1.010000	0.830000	0.780000
4905	NSC	28	LLP	1 Watt Audio Power Amplifier	LM4905LQ	SMD 131-2782	0.820000	0.730000	0.640000	0.550000
4905	NSC	28	LLP	1.1 Watt Audio Power Amplifier	LM4905MM	SMD 131-2783	1.310000	1.010000	0.820000	0.730000
4906	NSC	8	MSOP	1W, Bypass-Capacitor-less Audio Power Amplifier with Internal Selectable Gain	LM4906MM	SMD 131-2784	0.830000	0.690000	0.550000	0.490000
4908	NSC	8	SOIC	10kV ESD Rated, Dual 120 mW Headphone Amplifier	LM4908MA	SMD 818-1152	0.220000	0.195000	0.170000	– –
4908	NSC	8	MSOP	10kV ESD Rated, Dual 120 mW Headphone Amplifier	LM4908MM	SMD 818-1160	0.320000	0.270000	0.200000	– –
4919	NSC	10	MSOP	1.5V, Mono 85mW BTL Output, 14mW Stereo Headphone Audio Amp.	LM4919MM	SMD 818-1187	1.030000	0.850000	0.660000	– –
4938	NSC	28	TSSOP	Stereo 2W Audio Power Amplifiers With DC Volume Control and Selectable Gain	LM4938MH	SMD 100-8027	1.230000	0.900000	0.690000	– –
4941	NSC	9	Bump	1.25 Watt Fully Differential Audio Power Amplifier With RF Suppression and Shutdown	LM4941SD	SMD 132-0976	1.150000	0.930000	0.780000	0.650000
4941	NSC	9	Bump	Differential Audio Amplifier, Class AB.	LM4941TM	SMD 128-6920	1.280000	0.990000	0.750000	0.620000
4947	NSC	25	Bump	Mono Audio Amplifier, Class D	LM4947TL	SMD 128-6921	2.850000	1.920000	1.790000	1.750000
4950	NSC	9	TO-220	7.5W Mono-BTL or 3.1W Stereo Audio Power Amp	LM4950TA	818-1217	2.510000	1.860000	1.520000	– –
4950	NSC	32	LLP	2.5W/Channel Stereo Class D Amp	LM49450SQ/NOPB	NEW SMD 168-5401	15.300000	11.900000	9.730000	8.920000
4950	NSC	9	TO-263 (D2-Pak)	7.5W Mono-BTL or 3.1W Stereo Audio Power Amp	LM4950TS	SMD 818-1225	2.440000	1.860000	1.520000	– –
4951	NSC	10	LLP	Wide Voltage Range 1.8 Watt Audio Power Amplifier	LM4951SD	SMD 131-2786	2.450000	1.920000	1.530000	1.390000
4952	NSC	9	TO-263 (D2-Pak)	3.1W Stereo-SE Audio Power Amplifier With DC Volume Control	LM4952TS	SMD 100-8028	2.400000	1.740000	1.340000	– –
4960	NSC	28	LLP	Piezoelectric Speaker Driver	LM4960SQ	SMD 131-2787	3.710000	2.900000	2.320000	2.090000
4961	NSC	8	Mini SOIC	Ceramic Speaker Driver.	LM4961LQ	SMD 131-2788	3.250000	2.540000	2.020000	1.840000
4980	NSC	10	LLP	2 Cell Battery, 1mA, 42mW Per Channel High Fidelity Stereo Headphone Audio Amplifier	LM4980SD	SMD 131-2588	3.710000	3.050000	2.400000	2.120000
4981	NSC	15	TO-247	200V Audio Power Amplifier Driver with Baker Clamp	LME49810TB	143-3160	10.360000	8.120000	6.640000	5.950000
4990	ST	8	SOIC	1.2W audio power amplifier with active low standby mode.	TS4990ID	SMD 137-4144	0.600000	0.480000	0.360000	0.310000
5150	TI	48	BGA	UltraLow Power NTSC/PAL/SECAM Video Decoder w/RoBust Sync Detector.	TVP5150AM1ZQC	SMD 996-9195	5.300000	5.160000	5.020000	4.900000
5150	TI	32	TQFP	Digital Video Decoder for Funai	TVP5150AM1PBS	SMD 846-2038	8.490000	6.890000	5.970000	– –
5150	TI	32	TQFP	ULTRALow Power NTSC/PAL/SECAM Video Decoder W/ROBusT SYNC Detector	TVP5150APBS	SMD 128-7685	9.400000	7.210000	6.110000	5.860000
5261	TI	36	SSOP	315-W Mono BTL Digital Power Stage.	TAS5261DKD	NEW SMD 156-4920	10.610000	8.760000	7.790000	6.370000
5414	TI	36	SSOP	4-Channel Automotive Digital Amplifier	TAS5414TDKDQ1G4	SMD 139-0714	14.700000	12.120000	9.930000	8.420000
5642	NSC	28	TSSOP	High Voltage, Dual Synchronous Buck Converter With Oscillator Synchronization	LM5642MTC	SMD 818-1772	3.540000	3.170000	2.540000	– –
5706	TI	64	HTQFP	Multi-Channel O/P Digital Audio Power Amplifier with EQ and DRC.	TAS5706PAP	NEW SMD 163-2096	6.140000	4.450000	3.330000	2.870000
6100	TI	8	SOIC	Power Amp, Audio	TPA6100A2D	SMD 845-6569	0.440000	0.350000	0.330000	– –
6111	TI	8	MSOP	Stereo Headphone Audio Amplifier.	TPA6111A2DGN.	NEW SMD 164-8681	0.520000	0.400000	0.340000	0.310000
6111	TI	8	SOIC	Power Amp, Audio	TPA6111A2D	SMD 845-6593	0.380000	0.310000	0.290000	– –
6120	TI	20	HSOP	Power Amp, Audio	TPA6120A2DWPG4	SMD 120-7315	2.840000	2.370000	2.150000	– –
6141	FCH	8	SOIC	Low Cost Single Channel 4th Order Standard Definition Video Filter Driver	FMS6141CS	SMD 149-5487	0.280000	0.200000	0.185000	0.154000
6181	NSC	16	SOIC	100mA, 100MHz Current Feedback Amp	LM6181IM	SMD 948-6488	2.260000	1.650000	1.340000	– –
6181	NSC	16	SOIC	100mA, 100MHz Current Feedback Amp	LM6181IM.	SMD 332-7061	1.900000	1.370000	0.910000	– –
6203	TI	8	PDIP	1.25-W MONO, FULLY DIFFERENTIAL, CLASS-AB Audio Amplifier.	TPA6203A1ZQVR	SMD 128-7674	0.730000	0.540000	0.430000	0.310000
6211	TI	8	HTSSOP	Power Amp, Audio	TPA6211A1DGNG4	SMD 120-7316	0.760000	0.630000	0.570000	– –
6211	NSC	8	Mini SOIC	Low Noise, RRO Operational Amplifier with CMOS Input and 24V Operation	LM6211MF	SMD 131-2794	2.700000	2.020000	1.660000	1.330000
6416	ON	20	SOIC	Video Matrix Switch.	NCS6416DWG	NEW SMD 142-6378	2.170000	1.690000	1.510000	1.380000
6552	LT	8	DFN	3.3V Single Supply Video Difference Amplifier	LT6552CDD#PBF	NEW SMD 166-3589	2.400000	1.860000	1.490000	1.240000
6570	NSC	8	SOIC	2:1 High Speed Video Multiplexer	LMH6570MA	SMD 128-6775	2.910000	2.490000	2.170000	1.930000
6574	NSC	1	SOIC	4:1 High Speed Video Multiplexer	LMH6574MA	SMD 100-8275	4.970000	3.370000	2.750000	– –
6600	LT	8	SOIC	Differential Amplifier and 10MHz Lowpass Filter.	LT6600CS8-2.5#PBF	NEW SMD 166-3590	5.380000	4.180000	3.340000	2.780000
6682	NSC	8	SOIC	Video Dual Amplifier	LMH6682MA	SMD 128-6951	1.640000	1.340000	1.070000	0.900000
6704	NSC	8	SOIC	650 MHz Programmable Gain Buffer With Disable	LMH6704MA	SMD 100-8277	2.770000	2.230000	1.710000	– –
6704	NSC	6	SOT-23	650 MHz Programmable Gain Buffer With Disable	LMH6704MF	SMD 100-8278	1.950000	1.550000	1.180000	– –
6714	NSC	8	SOIC	Single, Wideband Video Op Amp	LMH6714MA	SMD 818-0857	1.370000	1.100000	0.880000	– –
6714	NSC	5	SOT-23	Single, Wideband Video Op Amp	LMH6714MF	SMD 818-0865	2.000000	1.680000	1.360000	– –
6720	NSC	8	SOIC	Single, Wideband Video Op Amp With Shutdown	LMH6720MA	SMD 818-0873	1.840000	1.480000	1.180000	– –
6720	NSC	6	SOT-23	Single, Wideband Video Op Amp With Shutdown	LMH6720MF	SMD 818-0881	2.620000	1.770000	1.450000	– –
6722	NSC	14	SOIC	Quad, Wideband Video Op Amp	LMH6722MA	SMD 818-0890	3.420000	2.930000	2.360000	– –
6722	NSC	14	TSSOP	Quad Amplifier With SD, 400MHz	LMH6722MT	SMD 128-6952	2.460000	1.870000	1.410000	– –
6738	NSC	16	SSOP	Very Wideband, Low Distortion Triple Op Amp	LMH6738MQ	SMD 818-0970	4.500000	3.810000	3.080000	– –
6739	NSC	16	SSOP	750MHz BW Triple Video Buffer.	LMH6739MQ/NOPB	NEW SMD 168-5372	4.880000	3.790000	3.110000	2.850000
7010	NXP	16	SOIC	FM Radio Circuit. RF Input stage, mixer, local oscillator IF Amp/limiter...	TDA7010T/V3	SMD 121-1740	1.050000	0.750000	0.570000	0.510000
7050	NXP	8	SO	Low voltage mono/stereo power amplifier	TDA7050T/N3	SMD 150-6622	0.680000	0.530000	0.450000	0.380000
7052	NXP	8	DIP	1W Audio Power Amp	TDA7052A/N2	526-198	0.630000	0.460000	0.350000	– –
7053	NXP	16	DIP	Stereo BTL audio output amplifier with DC volume control	TDA7053A/N2	150-6623	0.820000	0.650000	0.550000	0.460000
7056	NXP	9	SIL9MPF	3 W BTL mono audio output amplifier with DC volume control	TDA7056A/N2	150-6624	0.790000	0.620000	0.520000	0.450000
7057	NXP	13	DBS13P	2 x 8 W stereo BTL audio output amplifier with DC volume control	TDA7057AQ/N2	150-6625	1.350000	1.080000	0.900000	0.780000
7113	NXP	44	QFP	9 Bit Video Input Processor	SAA7113H/V2,557	NEW SMD 162-7003	9.950000	8.840000	7.230000	6.120000
7114	NXP	100	LQFP	Video Decoder with Adaptive Comb Filter, Slicer and Scaler	SAA7114H/V2,557	NEW SMD 162-7005	13.640000	10.610000	8.680000	7.960000
7115	NXP	100	LQFP	Video Decoder	SAA7115HL/V1,557	NEW SMD 162-7006	15.910000	12.370000	10.130000	9.280000
7121	NXP	44	QFP	Digital Video Encoder	SAA7121H/V2,557	NEW SMD 162-7007	5.240000	4.290000	3.580000	3.310000
7121	NSC	8	SOIC	200MHz, High Speed, Low Power Voltage Feedback Amp	LM7121IM	SMD 949-4120	2.130000	1.750000	1.610000	1.560000
7184	ADI	80	LQFP	10-Bit MultiformAt SDTV Video Decoder With Fast Switch Overlay Support	ADV7184BSTZ	SMD 111-7101	12.480000	9.780000	8.660000	8.430000
7188	ADI	80	LQFP	12-Bit MutliformAt Video Decoder With Fast Switch Overlay Support	ADV7188BSTZ	SMD 111-7100	24.390000	19.120000	16.020000	15.240000
7194	ADI	80	LQFP	Professional Extended-10™ Video Encoder with 54 MHz Oversampling	ADV7194KSTZ	SMD 143-8743	40.230000	32.210000	28.610000	28.060000
7240	ST	7	Heptawatt H	20W Bridge Audio Amplifier.	TDA7240AH	NEW 156-4332	3.030000	2.420000	2.150000	1.760000
7240	ST	7	Heptawatt V	20W Bridge Audio Amplifier.	TDA7240AV	NEW 156-4333	2.760000	2.220000	1.960000	1.600000
7293	ST	15	Multiwatt	120V - 100W DMOS Audio Amplifier with Mute/Stand-by	TDA7293V	136-6582	6.930000	5.580000	4.230000	– –

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Video/Audio ICs - continued

	Mftr.	Pins	Pins	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+
7294	ST	15	Multiwatt	100V - 100W DMOS Audio Amplifier with Mute/Stand-by	TDA7294V	136-6583	10.540000	8.510000	6.440000	– –
7303	TI	20	TSSOP	3 Channel Low Power Video Amplifier	THS7303PWG4	SMD 132-9592	2.690000	2.030000	1.690000	– –
7314	TI	8	SOIC	3-Channel SDTV Video Amp with 5th Order Filter and 6dB Gain	THS7314DG4	SMD 139-0695	0.660000	0.540000	0.450000	0.370000
7315	TI	8	SOIC	3-Channel SDTV Video Amplifier with 5th-Order Filters and 5.2V/V Gain	THS7315D	SMD 149-4888	0.800000	0.630000	0.460000	0.450000
7316	TI	8	SOIC	3-Channel HDTV Video Amp with 5th Order Filters and 6dB Gain	THS7316DG4	SMD 139-0696	0.890000	0.710000	0.600000	0.520000
7353	TI	20	TSSOP	3-Channel Low Power Video Amp with I2C Control, Selectable Filters, 0dB Gain, 2:1 MUX	THS7353PWG4	SMD 139-0698	2.600000	2.100000	1.750000	1.500000
7375	TI	14	TSSOP	4 Channel SDTV Video Amplifier with 6th-Order Filters	THS7375IPW	NEW SMD 167-9768	1.350000	1.010000	0.810000	0.730000
7453	MAX	8	SOIC	Video Reconstruction Filter and Buffer	MAX7453CSA	SMD 143-3220	2.570000	1.880000	1.580000	1.400000
7843	ADI	16	QSOP	12 Bit Touch Screen Digitizer	AD7843ARQZ	SMD 122-6197	1.470000	1.230000	1.050000	– –
8012	ADI	8	SOIC	Dual, 350MHz Low Power Current Feedback Video Amp	AD8012ARZ	SMD 960-3719	4.970000	3.400000	2.530000	– –
8036	ADI	8	DIP	Low Distortion, Wide Bandwidth Voltage Feedback ClAmp Amp	AD8036ANZ	107-9409	9.070000	6.630000	4.390000	– –
8037	ADI	8	DIP	Low Distortion, 240MHz bandwidth ClAmping Amp	AD8037ANZ	107-9416	8.680000	5.960000	4.810000	– –
8055	ADI	8	DIP	300MHz, Voltage Feedback Operational Amp With bandwidth and slew rate typical of Current Feedback Amps	AD8055ANZ	107-9307	1.230000	0.880000	0.650000	– –
8056	ADI	8	DIP	Dual, 300MHz Voltage Feedback Operational Amp With bandwidth and slew rate typical of Current Feedback Amps	AD8056ANZ	107-9308	3.830000	2.620000	1.590000	– –
8057	ADI	8	SOIC	325MHz, High Performance Voltage Feedback Amp	AD8057ARZ	SMD 942-5713	1.960000	1.340000	0.960000	– –
8058	ADI	8	SOIC	325MHz, Dual, High Performance Voltage Feedback Amp	AD8058ARZ	SMD 942-5721	3.310000	2.250000	1.680000	– –
8072	ADI	8	DIP	Dual, Video Amp., Single Supply +5 to +12V, 100MHz -3dB Bandwidth	AD8072JNZ	960-3980	2.730000	2.030000	1.660000	– –
8073	ADI	14	PDIP	Low Cost, Triple Video Amplifier	AD8073JNZ	143-8634	4.550000	3.100000	2.500000	– –
8108	INTS	8	SOIC	Video Distribution Amplifier	EL8108ISZ	SMD 143-9847	2.730000	2.120000	1.910000	1.630000
8108	ADI	80	LQFP	325 MHz, 8 x 8 Buffered Video Crosspoint Switch (Gain = 1)	AD8108ASTZ	SMD 143-8590	29.230000	23.400000	20.780000	20.380000
8109	ADI	80	LQFP	325 MHz, 8 x 8 Buffered Video Crosspoint Switch (Gain = 2)	AD8109ASTZ	SMD 143-8592	25.610000	20.360000	18.080000	– –
8110	ADI	80	LQFP	260 MHz, 16 x 8 Buffered Video Crosspoint Switch (Gain=1)	AD8110ASTZ	SMD 143-8593	51.720000	41.120000	36.530000	35.820000
8111	ADI	80	LQFP	260 MHz, 16 x 8 Buffered Video Crosspoint Switch (Gain=2)	AD8111ASTZ	SMD 143-8594	51.720000	42.880000	37.390000	36.420000
8114	ADI	100	LQFP	225 MHz 16 x 16 Crosspoint Switch, G=+1	AD8114ASTZ	SMD 143-8595	105.180000	84.190000	74.780000	73.340000
8115	ADI	100	LQFP	225 MHz 16 x 16 Crosspoint Switch, G=+2	AD8115ASTZ	SMD 143-8596	105.180000	84.190000	74.780000	73.340000
8273	ADI	14	SOIC	Dual Channel & Dual Gain Audio Difference Amplifier	AD8273ARZ	NEW SMD 158-9547	5.200000	3.800000	3.320000	2.800000
8427	CIR	28	TSSOP	96 kHz Digital Audio Interface Transceiver	CS8427-CZZ	SMD 150-6255	8.280000	6.020000	4.730000	– –
8552	NXP	20	SOIC	2 x 1.4W BTL Audio Amplifier With Digital Volume Control and Headphone Sensing	TDA8552T/N1.112	SMD 880-0480	1.460000	1.050000	0.900000	– –
8559	NXP	16	SO	Low-voltage Stereo Headphone Amplifier	TDA8559T/N1	SMD 150-6628	0.720000	0.580000	0.490000	0.420000
8943	NXP	9	SIL	6W Mono Bridge Tied Load (BTL) Audio Amplifier	TDA8943SF/N1.112	880-0472	0.710000	0.520000	0.390000	– –
9004	ON	9	FLIP CHIP CSP	2.65W PWR Audio Class D Amp	NCP9004FCT1G	NEW SMD 136-9750	0.940000	0.700000	0.610000	0.540000
9100	NSC	25	Micro Array	Mono Class AB Audio Sub-System with a True-Ground Headphone Amplifier from the PowerWise® Family	LM49100GR	SMD 143-3170	5.030000	4.040000	3.360000	2.870000
9406	MAX	48	TQFN-EP	DisplayPort to DVI/HDMI Level Shifter	MAX9406ETM+	NEW SMD 159-3399	2.400000	1.860000	1.690000	1.400000
9546	MAX	8	SOIC-EP	18 MHz BW Differential Video Interface Driver	MAX9546ESA+	NEW SMD 159-3400	1.960000	1.530000	1.380000	1.150000
9547	MAX	8	SOIC-EP	20 MHz BW Differential Video Interface Receiver	MAX9547ESA+	NEW SMD 159-3401	1.960000	1.530000	1.380000	1.150000
9631	ADI	8	DIP	320MHz Ultra Low Distortion Operational Amp	AD9631ANZ	107-9418	9.110000	6.550000	5.040000	– –
9652	MAX	8	SOIC	3.3V HD Triple-Channel Filter Amplifiers with Shutdown	MAX9652ASA+	NEW SMD 167-3110	1.010000	0.730000	0.560000	0.510000
9653	MAX	10	UMAX	3.3V HD Triple-Channel Filter Amplifiers with Shutdown	MAX9653AUB+	NEW SMD 167-3111	1.060000	0.760000	0.580000	0.530000
9654	MAX	10	UMAX	3.3V SD Triple-Channel Filter Amplifiers with Shutdown	MAX9654AUB+	NEW SMD 167-3112	1.280000	0.920000	0.710000	0.640000
9703	MAX	32	TQFN-EP	15W Mono Filterless Class D Amplifier	MAX9703ETJ+	NEW SMD 161-0137	2.710000	2.240000	1.830000	1.540000
9744	MAX	44	TQFN	20W Stereo Class D Amplifier	MAX9744ETH+	NEW SMD 162-8238	3.530000	3.140000	2.570000	2.340000
9877	MAX	20	WLP	Class D audio power amplifier with directdrive headphone amplifier	MAX9877EWP+TG45	NEW SMD 167-3113	2.560000	1.830000	1.420000	1.280000
9882	ADI	100	LQFP	Dual Interface Solution for Flat Panel Displays	AD9882AKSTZ-100	SMD 122-6202	10.110000	8.230000	6.780000	– –
9883	ADI	80	LQFP	Highly Integrated Graphics Interface Chip Includes Three 8-Bit/110 MSPS ADCs	AD9883AKSTZ-110	SMD 143-8635	6.330000	4.470000	3.610000	– –
9884	ADI	128	MQFP	Triple 8-Bit, 140 MSPS ADC, RGB Graphics Digitizer for SXGA LCD Monitors	AD9884AKSZ-140	SMD 143-8636	15.530000	12.350000	10.970000	– –
9887	ADI	160	MQFP	Dual Interface for Flat Panel Display	AD9887AKSZ-170	SMD 143-8637	21.480000	18.390000	16.720000	– –
9888	ADI	128	MQFP	140 MSPS Highly Integrated Graphics Digitizer for UXGA and HDTV Displays	AD9888KSZ-140	SMD 143-8638	14.110000	10.830000	9.180000	– –
9888	ADI	128	MQFP	170 MSPS Highly Integrated Graphics Digitizer for UXGA and HDTV Displays	AD9888KSZ-170	SMD 143-8639	16.940000	13.470000	11.970000	– –
11501	MAX	8	SOIC	3 Channel 5th Order Flat Video Filter 8.6MHz BW	MAX11501USA+	NEW SMD 159-3299	0.980000	0.770000	0.690000	0.580000
11502	MAX	8	SOIC	3 Channel 5th Order HF Boost Video Filter 8.6MHz BW	MAX11502USA+	NEW SMD 159-3300	1.100000	0.860000	0.770000	0.630000
11504	MAX	10	MicroMAX	4 Channel 5th Order Flat Video Filter 8.6MHz BW	MAX11504CUB+	NEW SMD 159-3301	1.180000	0.930000	0.830000	0.690000
12800	TI	24	TSSOP	Reference Voltage Generator	BUF12800AIPWP	SMD 118-0139	2.240000	1.930000	1.680000	1.480000
20124	IR	14	SOIC	Digital Audio Driver With Discrete Dead-Time and Protection, High and Low Side Driver	IRS20124SPBF	SMD 108-0637	3.500000	2.450000	2.000000	– –
33078	ON	8	SOIC	Low Noise, Dual Audio Amp	MC33078DG	SMD 966-5323	0.690000	0.470000	0.340000	0.290000
33078	ST	8	DIP	Low Noise, Dual Audio Amp	MC33078N	975-6361	0.460000	0.350000	0.290000	0.240000
33078	ON	8	DIP	Low Noise, Dual Audio Amp	MC33078PG	966-4980	0.740000	0.500000	0.360000	0.310000
33079	ON	14	SOIC	Low Noise, Quad Audio Amp	MC33079DG	SMD 966-5331	0.900000	0.540000	0.460000	0.350000
33079	ON	14	DIP	Low Noise, Quad Audio Amp	MC33079PG	966-5030	0.960000	0.650000	0.470000	0.400000
34018	FSL	28	DIP	Voice Switched Speakerphone Circuit	MC34018EC	120-8504	6.470000	4.190000	3.620000	3.270000
44600	CIR	64	LQFP	6-Channel Digital Amplifier Controller	CS44600-CQZ	NEW SMD 165-9355	5.920000	4.600000	3.770000	3.450000
44800	CIR	64	LQFP	8-Channel Digital Amplifier Controller	CS44800-CQZ	NEW SMD 165-9356	5.400000	4.320000	3.600000	3.320000
48410	NSC	24	LLP	Low EMI, Filterless, 2.3 Stereo Class D Audio Power Amp	LM48410SQ	SMD 134-2343	1.940000	1.630000	1.390000	1.220000
48411	NSC	16	Bump Micro SMD	2.5W Stereo, Class D Audio Filterless Power Amplifier	LM48411TL/NOPB	NEW SMD 168-5349	2.540000	1.980000	1.610000	1.490000
48511	NSC	24	LLP	3W Filterless, Mono, Class D Audio Power Amp	LM48511SQ/NOPB	NEW SMD 168-5331	3.690000	2.880000	2.350000	2.160000
49600	NSC	5	TO-263	High Fidelity, High Current Audio Buffer	LME49600TS/NOPB	NEW SMD 168-5402	16.620000	12.930000	10.580000	9.700000
49710	NSC	8	TO-99	High Performance, High Fidelity Audio Operational Amplifier	LME49710HA	143-3162	9.890000	8.310000	6.940000	5.870000
49710	NSC	8	NSOIC	High Performance, High Fidelity Audio Operational Amplifier	LME49710MA	SMD 143-3163	2.040000	1.530000	1.270000	1.080000
49720	NSC	8	TO-99	Dual High Performance, High Fidelity Audio Operational Amplifier	LME49720HA	143-3164	16.760000	13.420000	11.180000	9.500000
49720	NSC	8	NSOIC	Dual High Performance, High Fidelity Audio Operational Amplifier	LME49720MA	SMD 143-3166	4.230000	3.410000	2.840000	2.410000
49740	NSC	14	NSOIC	Quad High Performance, High Fidelity Audio Operational Amplifier	LME49740MA	SMD 143-3168	8.100000	6.480000	5.390000	4.590000
49740	NSC	14	MDIP	Quad High Performance, High Fidelity Audio Operational Amplifier	LME49740NA	143-3169	10.010000	8.000000	6.660000	5.660000
49860	NSC	8	NSOIC	44V Dual High Performance, High Fidelity Audio Operational Amplifier	LME49860MA	SMD 143-3161	5.050000	4.050000	3.350000	2.850000
49860	NSC	8	MDIP	44V Dual High Performance, High Fidelity Audio Operational Amplifier	LME49860NA	143-3173	5.930000	4.740000	3.950000	3.350000
48510	NSC	16	LLP	Boosted Class D Audio Power Amplifier	LM48510SD	SMD 132-0974	1.630000	1.310000	1.090000	1.030000
48555	NSC	12	Bump Micro SMD	Audio Power Amplifier	LM48555TL	SMD 134-2328	3.260000	2.730000	2.360000	2.080000
48820	NSC	14	Bump Micro SMD	Stereo Headphone Amplifier Fixed Gain, 95mW	LM48820TM/NOPB	NEW SMD 168-5332	2.010000	1.570000	1.280000	1.180000
48860	NSC	12	MICRO Bump	40mW Fixed Gain Stereo Headphone Amplifier	LM48860TL	NEW SMD 160-9168	1.440000	1.150000	1.050000	0.970000
49270	NSC	28	LLP	Filterless 2.2W Stereo Class D Audio Subsystem	LM49270SQ	SMD 132-0975	4.260000	3.410000	2.860000	2.450000
49350	NSC	36	Bump Micro SMD	Stereo Headphone Amplifier & Class D Loudspeaker Amplifier	LM49350RL/NOPB	NEW SMD 168-5787	14.910000	12.260000	10.030000	9.200000
49350	NSC	36	Bump	Audio Codec Class D Loudspeaker Amplifier	LM49350RL	NEW SMD 166-7423	12.710000	9.880000	8.090000	6.840000
49710	NSC	8	SOIC	High Fidelity Audio Op Amp	LME49710MA/NOPB	NEW SMD 156-4775	2.550000	2.090000	1.840000	1.650000
49720	NSC	8	NSOIC	Dual High Performance, High Fidelity Audio Op Amp	LME49720MA/NOPB	NEW SMD 156-4794	4.670000	3.870000	3.380000	3.030000

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	Mftr.	Pins	Pins	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+
49722	NSC	8	SOIC	Dual High Fidelity Audio Op Amp	LME49722MA/NOPB	NEW SMD 168-5404●	19.270000	14.990000	12.270000	11.240000
49725	NSC	8	NSOIC	40MHz GBWP PowerWise Dual High Fidelity Audio Op Amp	LME49725MA	NEW SMD 158-9526●	1.980000	1.770000	1.450000	1.340000
49743	NSC	14	TSSOP	Quad High Fidelity Audio Op Amp	LME49743MT/NOPB	NEW SMD 168-5406●	20.600000	16.020000	13.100000	12.020000
49811	NSC	15	TO-247	High Fidelity 200 Volt Power Amplifier Input Stage with Shutdown	LME49811TB/NOPB	NEW 168-5355●	7.040000	5.470000	4.480000	4.100000
49870	NSC	8	SOIC	Single 55MHz GBWP High Fidelity Audio Op Amp	LME49870MA/NOPB	NEW SMD 168-5348●	2.340000	1.820000	1.490000	1.360000

Video and Audio Amplifiers

ON Semiconductor

ROHM

492328

	Mftr.	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	25+	50+	100+	250+
592	ON	14	SOIC	Video amp	NE592D14G	SMD 142-6398●	0.570	0.480	0.430	0.390	0.350
592	ON	8	SOIC	Video amp	NE592D8G	SMD 142-6401●	0.530	0.430	0.390	0.340	0.290
592	ON	14	PDIP	Video amp	NE592N14G	142-6403●	0.580	0.490	0.460	0.400	0.330
592	ON	8	PDIP	Video amp	NE592N8G	142-6404●	0.540	0.450	0.400	0.350	0.300
833	ON	8	SOIC	Low noise dual op amp	LM833DG	SMD 142-6409●	0.260	0.210	0.187	0.175	0.140
3541	ROHM	8	SOP	Stereo Headphone Amp. 0.1% Max THD, 2dB Max Voltage Gain	BH3541F-E2	SMD 151-2719▲	0.630	0.540	0.420	0.340	0.320
3544	ROHM	8	SOP	Stereo Headphone Amp. 0.1% Max THD, 8dB Max Voltage Gain	BH3544F-E2	SMD 151-2720●	0.320	0.270	0.210	0.175	0.151
3547	ROHM	8	SOP	Stereo Headphone Amp. 0.3% Max THD, 8dB Max Voltage Gain	BH3547F-E2	SMD 151-2721●	0.260	0.220	0.175	0.140	0.128
5406	ROHM	12	SIP	Stereo Speaker Amp. 5 W x 2 @ 3Ω, 0.3% Typ THD	BA5406	151-2714●	1.310	1.120	0.870	0.710	0.610
5417	ROHM	15	SIP	High Output Dual Power Amp.	BA5417	151-2715●	0.650	0.590	0.550	0.500	0.460
5421	ROHM	44	SSOP	Class D Stereo Power Amp 4-16Ω load impedance, 0.1% Typ THD	BD5421EFS-E2	SMD 151-2722●	3.810	3.270	2.540	2.090	1.910
7824	ROHM	8	MSOP	BTL Mono Speaker Amp, 0.5% Max Distortion, -80dBV Noise Level	BH7824FVM-TR	SMD 151-2712▲	0.780	0.680	0.520	0.430	0.400
7826	ROHM	8	MSOP	BTL Mono Audio Power Amp. 1% Max. Distortion, -80dBV Noise Level.	BH7826FVM-TR	SMD 151-2713●	1.000	0.840	0.640	0.430	0.390
7881	ROHM	24	SSOP	Stereo Speaker/Headphone Amp. 2W + 2W, 1% Max Distortion.	BH7881EFV-E2	SMD 151-2718●	3.230	2.760	2.160	1.760	1.620
7884	ROHM	24	SSOP	Stereo Speaker/Headphone Amp. 1W + 1W	BH7884EFV-E2	SMD 151-2716●	4.110	3.520	2.740	2.240	2.050

Voltage Reference Diodes

416073

	Mftr.	Pins	Pkg	Voltage Ref (V)	Tol (%)	Temp Coeff (ppm/°C)	Operating Temp (°C) Min	Max	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
6650	LT	5	SOT-23	0.4	1.0	30	0	70	LT6650CS5#PBF	SMD 127-3455●	2.200	1.510	1.260	– –	– –
130	ADI	6	TSOT	0.5/1.0	0.35	5	-40	125	ADR130BUJZ	SMD 149-8662●	1.930	1.380	1.150	– –	– –
4436	ST	5	SC-70	0.6	1	150	-40	85	TS4436ICT	SMD 137-4143●	0.700	0.520	0.420	0.350	0.310
510	ADI	5	TSOT-23	1			-40	85	ADR510ARTZ-R2	NEW SMD 166-0956●	1.440	1.120	0.910	0.840	0.700
4140	NSC	8	SOIC	◆ 1.024	0.1	3	0	70	LM4140ACM-1.0	SMD 128-6879●	8.900	5.900	5.070	4.480	3.100
4140	NSC	8	SOIC	◆ 1.024	0.1	6	0	70	LM4140BCM-1.0	SMD 128-6885●	4.420	3.440	3.090	2.730	2.140
4140	NSC	8	SOIC	◆ 1.024	0.1	10	0	70	LM4140CCM-1.0	SMD 128-6890●	3.360	2.230	1.910	1.690	1.590
385	NSC	3	TO-92	1.2					LM385BYZ-1.2/NOPB	NEW 167-3938●	2.270	1.620	1.190	0.980	0.880
385	TI	3	TO-92	1.2	2	20		70	LM385LP-1-2	NEW 162-4417●	0.300	0.220	0.188	0.155	0.133
4041	NSC	3	TO-92	1.2					LM4041CIZ-1.2/NOPB	NEW 167-3945●	0.900	0.650	0.470	0.390	0.350
4041	NSC	3	SOT-23	1.2					LM4041EIM3-1.2/NOPB	NEW SMD 167-3946●	0.650	0.470	0.340	0.290	0.250
1004	TI	8	SOIC	1.2	0.4	20	-40	85	REF1004I-1.2..	NEW SMD 164-8669●	3.510	2.810	2.350	2.120	2.060
1580	ADI	3	SOT-23	1.2	0.1	50	-40	85	AD1580BRTZ-R2	NEW SMD 166-0953●	2.600	2.030	1.650	1.520	1.270
385	NSC	3	TO-92	1.2					LM385BZ-1.2/NOPB	NEW 167-3959●	1.020	0.730	0.530	0.440	0.390
4041	NSC	3	TO-92	1.2					LM4041AIZ-1.2/NOPB	NEW 167-3992●	2.060	1.460	1.070	0.880	0.790
4041	NSC	3	SOT-23	1.2					LM4041CEM3-1.2/NOPB	NEW SMD 167-3995●	0.940	0.670	0.490	0.400	0.370
4041	NSC	5	SC70	1.2					LM4041CIM7-1.2/NOPB	NEW SMD 167-3997●	0.900	0.650	0.470	0.390	0.350
4041	NSC	3	SOT-23	1.2					LM4041DEM3-1.2/NOPB	NEW SMD 167-3999●	0.820	0.590	0.440	0.350	0.320
4041	NSC	3	SOT-23	1.2					LM4041EEM3-1.2/NOPB	NEW SMD 167-4000●	0.770	0.550	0.400	0.330	0.300
4051	NSC	3	SOT-23	1.2					LM4051BEM3-1.2/NOPB	NEW SMD 167-4005●	2.460	1.760	1.280	1.060	0.950
4121	NSC	5	SOT-23	1.2					LM4121AIM5-1.2/NOPB	NEW SMD 167-4008●	2.520	1.810	1.310	1.090	0.970
385	TI	8	SOIC	1.2	1	20	0	70	LM385BD-1-2	SMD 145-9236●	0.720	0.460	0.330	0.240	0.194
4051	NSC	3	SOT-23	◆ 1.2	0.1	50	-40	85	LM4051AIM3-1.2	SMD 977-8560●	2.870	1.940	1.610	– –	– –
4051	NSC	3	SOT-23	◆ 1.2	0.2	50	-40	85	LM4051BIM3-1.2	SMD 977-8586●	1.840	1.240	1.010	– –	– –
4051	NSC	3	SOT-23	◆ 1.2	0.5	50	-40	85	LM4051CIM3-1.2	SMD 977-8608●	1.650	1.120	0.910	– –	– –
1004	LT	8	SOIC	◆ 1.2	0.33	20	0	70	LT1004CS8-1.2	SMD 476-6910▲	1.190	1.010	0.830	– –	– –
1004	LT	8	SOIC	◆ 1.2	0.33	20	0	70	LT1004CS8-1.2#PBF	SMD 955-9191●	3.020	1.710	1.270	– –	– –
6120	MAX	3	SOT-23	◆ 1.2	1.0	30	-40	85	MAX6120EUR+T	SMD 118-8066●	1.580	1.210	1.070	0.920	– –
5010	MP	2	TO-92	◆ 1.22	–	100	0	70	MP5010GN	112-5526●	1.430	1.110	0.850	– –	– –
1004	ZET	3	SOT-23	◆ 1.22	0.5	75	-40	85	ZXRE1004CFTA	SMD 113-2732●	2.400	1.930	1.370	0.930	0.880
1004	ZET	3	SOT-23	◆ 1.22	1.0	75	-40	85	ZXRE1004DFTA	SMD 113-2733●	1.150	0.920	0.640	0.440	0.420
125	ZET	3	SOT-23	◆ 1.22	0.5	90	-40	85	ZXRE125CFTA	SMD 113-2736●	1.930	1.220	0.930	0.700	0.590
125	ZET	3	SOT-23	◆ 1.22	1.0	90	-40	85	ZXRE125DFTA	SMD 113-2737● RL	1.240	0.760	0.580	0.440	0.370
125	ZET	3	SOT-23	◆ 1.22	2.0	90	-40	85	ZXRE125EFTA	SMD 113-2741● RL	1.070	0.640	0.490	0.370	0.310
125	ZET	3	SOT-23	◆ 1.22	3.0	90	-40	85	ZXRE125FFTA	SMD 113-2746● RL	0.960	0.590	0.450	– –	– –
4431	ST	5	SOT-23	1.224	1	100	-40	85	TS4431ILT	SMD 137-4142●	0.660	0.510	0.380	0.340	0.300
4041	NSC	3	SOT-23	◆ 1.225	0.1	150	-40	85	LM4041DIM3-1.2	SMD 977-8349●	0.660	0.510	0.420	0.360	0.320
4041	NSC	3	TO-92	◆ 1.225	0.1	150	-40	85	LM4041DIZ-1.2	948-5988●	0.700	0.530	0.450	0.370	0.320
1034	LT	3	TO-92	◆ 1.225	1.0	20	0	70	LT1034BCZ-1.2	295-887▲	3.010	2.400	1.940	– –	– –
1034	LT	3	TO-92	◆ 1.225	–	20	0	70	LT1034BCZ-1.2#PBF	955-9507●	3.660	2.420	2.100	– –	– –
4041	ZET	3	SOT-23	◆ 1.225	0.5	75	-40	85	ZXRE4041CFTA	SMD 113-2744●	1.130	0.720	0.530	0.400	0.340
4041	ZET	3	SOT-23	◆ 1.225	1.0	75	-40	85	ZXRE4041DFTA	SMD 113-2745●	0.890	0.540	0.420	0.310	0.260
285	ON	3	TO-92	◆ 1.235	1.0	80	-40	85	LM285Z-1.2G	966-5439●	0.760	0.520	0.370	0.320	– –
385	ON	3	TO-92	◆ 1.235	–	80	0	70	LM385BZ-1.2G	966-4521●	0.620	0.420	0.310	– –	– –
385	NSC	8	SOIC	◆ 1.235	0.3	150	0	70	LM385M-1.2	SMD 948-8421●	0.490	0.290	0.230	0.185	0.180
385	NSC	3	SOT-23	1.235	0.3	150	0	70	LM385M3-1.2	SMD 977-8152● RL	1.080	0.830	0.680	– –	– –
385	NSC	3	TO-92	1.235	1.0	150	0	70	LM385Z-1.2	948-8430●	0.630	0.450	0.380	0.250	0.220
385	ON	3	TO-92	1.235	1.0	150	0	70	LM385Z-1.2G	118-2958●	0.680	0.450	0.330	0.280	0.210
1004	LT	3	TO-92	1.235	–	20	0	70	LT1004CZ1.2#PBF	955-9205●	2.460	1.390	1.040	– –	– –
1004	TI	8	SOIC	◆ 1.235	–	20	-40	85	LT1004ID-1-2G4	SMD 958-9708●	1.270	1.070	0.930	– –	– –
6652	LT			1.25					LTC6652BHMS8-1.25#PBF	NEW 162-8778●	2.610	2.320	1.900	1.750	1.490
1790	LT	6	SOT-23	1.25					LT1790BCS6-1.25#TRMPBF	NEW SMD 166-3790●	2.580	2.000	1.600	1.340	1.190
6190	MAX	8	SOIC	1.25					MAX6190AESA+	NEW SMD 167-3173●	4.920	3.520	2.730	2.460	2.240
1389	LT	8	SOIC	1.25	–	20	0	70	LT1389BCS8-1.25#PBF	SMD 127-3436●	6.140	3.470	2.500	– –	– –
1634	LT	8	SOIC	1.25	–	10	0	70	LT1634BCS8-1.25#PBF	SMD 127-3451●	4.440	2.510	1.850	– –	– –
3012	TI	3	SOT-23	◆ 1.25	0.2	20	125	-40	REF3012AIDBZTG4	SMD 123-4836●	1.280	0.970	0.790	0.650	0.580
3112	TI	3	SOT-23	1.25	0.2	20	-40	125	REF3112AIDBZTG4	SMD 118-0183●	1.770	1.570	1.430	1.280	1.140
3312	TI	6	SOT-23	1.25	0.01	20	-40	125	REF3212AIDBVTG4	SMD 118-0175●	4.300	3.300	2.680	2.270	1.960
4140	NSC	8	SOIC	◆ 1.25	0.1	3	0	70	LM4140ACM-1.2	SMD 128-6880●	8.900	5.900	5.070	4.480	3.100
4140	NSC	8	SOIC	◆ 1.25	0.1	6	0	70	LM4140BCM-1.2	SMD 128-6886●	4.140	3.220	2.900	2.560	2.200
4140	NSC	8	SOIC	◆ 1.25	0.1	10	0	70	LM4140CCM-1.2	SMD 128-6891●	3.140	2.450	2.200	1.950	1.540
4120	NSC	5	SOT-23	1.8	–	50	-40	85	LM4120IM5-1.8	SMD 131-2740●	1.410	1.070	0.840	0.750	0.660
4120	NSC	5	SOT-23	1.8	0.2	50	-40	85	LM4120AIM5-1.8	SMD 977-8772●	1.920	1.580	1.330	– –	– –

RL Re-reeling available

Voltage Reference Diodes - continued

	Mftr.	Pins	Pkg	Voltage Ref (V)	Tol (%)	Temp Coeff (ppm/°C)	Operating Temp (°C) Min	Max	Mftrs. List No.	Order Code	1+	10+	100+	250+	500+
4120	NSC	5	SOT-23	2	–	50	-40	85	LM4120IM5-2.0	SMD 131-2743	2.160	1.390	1.060	0.940	0.870
4132	NSC	5	SOT-23	2	–	10			LM4132AMF-2.0	SMD 131-2749	6.950	5.250	4.140	3.670	3.490
4132	NSC	5	SOT-23	2	–	20			LM4132BMF-2.0	SMD 131-2752	4.000	3.020	2.380	2.110	2.000
4132	NSC	5	SOT-23	2	–	20			LM4132CMF-2.0	SMD 131-2756	3.490	2.650	2.080	1.850	1.750
4132	NSC	5	SOT-23	2	–	20			LM4132DMF-2.0	SMD 131-2759	3.090	2.340	1.840	1.640	1.550
4132	NSC	5	SOT-23	2	–	30			LM4132EMF-2.0	SMD 131-2762	2.670	2.020	1.590	1.410	1.340
4040	NSC	5	SC-70	2	–	100	-40	85	LM4040BIM7-2.0	SMD 100-8013	0.770	0.560	0.440	– –	– –
4040	NSC	5	SOT-23	2	–	150	-40	85	LM4040EIM3-2.0	SMD 100-8014	0.440	0.320	0.260	– –	– –
4120	NSC	5	SOT-23	2	0.2	50	-40	85	LM4120AIM5-2.0	SMD 977-8780	2.480	1.680	1.380	– –	– –
4125	NSC	5	SOT-23	2	–	50	-40	85	LM4125AIM5-2.0	SMD 818-0610	2.530	2.130	1.710	– –	– –
6652	LT			2.048					LTC6652BHMS8-2.048#PBF	NEW 162-8779	2.610	2.320	1.900	1.750	1.490
360	ADI	5	TSOT	2.048	–	25	-40	125	ADR360AUJZ-REEL7	SMD 111-7862	0.880	0.860	0.700	0.670	0.660
420	ADI	8	SOIC	2.048	0.15	3	-40	125	ADR420ARZ	SMD 942-6086	4.330	3.800	3.070	– –	– –
440	ADI	8	MSOP	2.048	3.0	10	-40	125	ADR440ARMZ	SMD 127-4163	3.380	3.050	2.370	2.230	2.100
440	ADI	8	SOIC	2.048	3.0	10	-40	125	ADR440ARZ	SMD 127-4162	3.380	3.050	2.370	2.230	2.100
440	ADI	8	SOIC	2.048	1.0	3	-40	125	ADR440BRZ	SMD 127-4161	6.240	4.250	3.430	3.300	3.080
	TI	3	SOT-23	◆ 2.048	–	20	125	-40	REF3020AIDBZTG4	SMD 123-4820	1.280	0.970	0.790	0.650	0.580
3120	TI	3	SOT-23	2.048	0.2	20	-40	125	REF3120AIDBZT	SMD 118-0184	2.500	1.710	1.270	1.130	1.100
3220	TI	6	SOT-23	2.048	0.01	20	-40	125	REF3220AIDBVTG4	SMD 118-0176	3.910	3.000	2.440	2.060	1.790
4140	NSC	8	SOIC	2.048	0.1	3	0	70	LM4140ACM-2.0	SMD 128-6881	8.310	6.480	5.830	5.160	4.050
4140	NSC	8	SOIC	2.048	0.1	6	0	70	LM4140BCM-2.0	SMD 128-6887	5.950	4.630	4.160	3.680	2.900
4140	NSC	8	SOIC	2.048	0.1	10	0	70	LM4140CCM-2.0	SMD 128-6892	3.140	2.450	2.200	1.950	1.540
5020	TI	8	SOIC	2.048	0.05	3	-40	125	REF5020AIDG4	SMD 143-9621	3.150	2.520	2.100	1.800	1.690
5040	ADI	3	SOT-23	2.048	0.2	100	-40	125	ADR5040ARTZ	SMD 149-8668	1.360	0.990	0.790	– –	– –
5040	ADI	3	SOT-23	2.048	0.1	75	-40	125	ADR5040BRTZ	SMD 149-8669	1.850	1.340	1.060	– –	– –
431	TS	8	SOIC	◆ 2.495	1.0	50	-20	85	TS431ACS	SMD 720-8545	0.480	0.400	0.270	– –	– –
431	TS	3	TO-92	2.495	1.0	50	-20	85	TS431ACT	720-8529	0.440	0.360	0.250	– –	– –
431	TS	3	SOT-23	2.495	1.0	50	-20	85	TS431ACX	SMD 720-8561	0.490	0.410	0.280	– –	– –
431	TS	3	TO-92	2.495	0.5	50	-20	85	TS431BCT	720-8537	0.400	0.340	0.220	– –	– –
390	ADI		5-TSOT-23	2.048					AD1582ARTZ-REEL7	NEW SMD 166-0955	1.340	1.050	0.860	0.790	0.650

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416080

	Mftr.	Pins	Pkg	Voltage Ref (V)	Tol (%)	Temp Coeff (ppm/°C)	Operating Temp (°C) Min	Max	Mftrs. List No.	Order Code	1+	10+	100+	250+	500+
03	ADI	8	SOIC	2.5	0.6	50	-40	85	REF03GSZ	SMD 942-5853	2.360	1.610	1.150	– –	– –
43	ADI	8	DIP	2.5	0.1	25	-40	85	REF43GPZ	960-5100	6.740	4.590	3.710	– –	– –
192	ADI	8	DIP	2.5		25	-40	85	REF192GPZ	960-5398	2.460	1.670	1.240	– –	– –
192	ADI	8	SOIC	2.5		5	-40	85	REF192GSZ	SMD 960-5207	2.430	1.670	1.240	– –	– –
250	ZET	3	SOT-23	2.5	1.0	90	-40	85	ZRC250F01TA	SMD 113-2706 RL	0.690	0.630	0.530	– –	– –
250	ZET	3	SOT-23	◆ 2.5	2.0	90	-40	85	ZRC250F02TA	SMD 113-2730 RL	0.570	0.530	0.430	0.320	0.270
250	ZET	3	SOT-23	◆ 2.5	3.0	90	-40	85	ZRC250F03TA	SMD 113-2707	0.890	0.550	0.430	– –	– –
285	NSC	8	SOIC	2.5		150	-40	85	LM285M-2.5/NOPB	NEW SMD 156-4723	0.610	0.500	0.440	0.390	0.330
285	NSC	3	TO-92	2.5					LM285Z-2.5/NOPB	NEW 167-3958	0.860	0.620	0.450	0.370	0.330
4040	NSC	5	SC70	2.5					LM4040CIM7-2.5/NOPB	NEW SMD 167-3987	0.900	0.650	0.470	0.390	0.350
4040	NSC	3	TO-92	2.5					LM4040CIZ-2.5/NOPB	NEW 167-3989	0.900	0.650	0.470	0.390	0.350
4040	NSC	3	SOT-23	2.5					LM4040DEM3-2.5/NOPB	NEW SMD 167-3990	0.820	0.590	0.440	0.350	0.320
4050	NSC	3	SOT-23	2.5					LM4050AEM3-2.5/NOPB	NEW SMD 167-4001	3.530	2.520	1.840	1.520	1.360
4128	NSC	5	SOT-23	2.5					LM4128AMF-2.5/NOPB	NEW SMD 167-3954	2.340	1.670	1.220	1.010	0.900
4030	NSC	5	SOT-23	2.5					LM4030BMF-2.5/NOPB	NEW SMD 167-4016	4.070	2.900	2.110	1.750	1.570
4030	NSC	5	SOT-23	2.5					LM4030CMF-2.5/NOPB	NEW SMD 167-4017	3.640	2.610	1.900	1.580	1.410
285	TI	3	TO-92	2.5					LM285LP-2-5..	NEW 164-8668	0.280	0.240	0.186	0.175	0.168
6029	MAX	8	SOIC	2.5					MAX6029ESA25+	NEW SMD 167-3169	4.190	2.990	2.330	2.090	1.910
6126	MAX	8	SOIC	2.5					MAX6126AASA25+	NEW SMD 167-3170	10.910	7.790	6.060	5.460	4.960
6192	MAX	8	SOIC	2.5					MAX6192AESA+	NEW SMD 167-3174	4.920	3.520	2.730	2.460	2.240
6225	MAX	8	SOIC	2.5					MAX6225AESA+	NEW SMD 167-3175	10.710	7.650	5.950	5.360	4.870
6225	MAX	8	SOIC	2.5					MAX6225BESA+	NEW SMD 167-3176	4.940	3.530	2.740	2.470	2.250
285	NSC	3	TO-92	2.5					LM285BYZ-2.5/NOPB	NEW 167-3935	2.520	1.810	1.310	1.090	0.970
385	NSC	8	SOIC	2.5					LM385BM-2.5/NOPB	NEW SMD 167-3936	1.010	0.720	0.530	0.440	0.390
385	NSC	3	TO-92	2.5					LM385BXZ-2.5/NOPB	NEW 167-3937	2.830	2.020	1.470	1.220	1.100
385	NSC	3	TO-92	2.5					LM385BZ-2.5/NOPB	NEW 167-3939	0.700	0.500	0.370	0.300	0.270
385	NSC	8	SOIC	2.5					LM385M-2.5/NOPB	NEW SMD 167-3940	0.670	0.480	0.350	0.290	0.260
4040	NSC	3	SOT-23	2.5					LM4040EIM3-2.5/NOPB	NEW SMD 167-3943	0.650	0.470	0.340	0.290	0.250
285	ON	3	TO-92	2.5	1.5	80	-40	85	LM285Z-2.5G	966-5447	0.760	0.520	0.370	0.320	– –
336	NSC	8	SOIC	2.5	1.0	54	0	70	LM336M-2.5	SMD 948-8456	0.550	0.450	0.420	0.410	0.370
336	ST	3	TO-92	2.5	1.0	54	0	70	LM336Z	109-4252	1.020	0.770	0.620	0.530	0.480
336	NSC	3	TO-92	◆ 2.5	1.0	54	0	70	LM336Z-2.5	948-8464	0.580	0.470	0.440	0.430	0.350
361	ADI	5	TSOT	2.5		25	-40	125	ADR361AUJZ-REEL7	SMD 111-7861	0.920	0.880	0.690	0.650	0.600
385	TI	8	SOIC	2.5	1.5	20	0	70	LM385BD-2-5	SMD 145-9237	0.720	0.460	0.330	0.240	0.194
385	ON	8	SOIC	◆ 2.5	1.5	150	0	70	LM385D-2.5G	SMD 121-1107	0.570	0.400	0.290	– –	– –
385	NSC	3	SOT-23	◆ 2.5	0.8	150	0	70	LM385M3-2.5	SMD 977-8160 RL	0.970	0.840	0.690	– –	– –
385	NSC	3	TO-92	◆ 2.5	3.0	150	0	70	LM385Z-2.5	948-8472	0.470	0.280	0.220	0.187	0.168
385	ON	3	TO-92	2.5	3.0	150	0	70	LM385Z-2.5G	121-1141	0.680	0.450	0.330	0.280	0.210
421	ADI	8	SOIC	◆ 2.5	0.12	10	-40	125	ADR421ARZ	SMD 942-6094	5.580	3.800	3.070	– –	– –
431	ADI	8	SOIC	2.5	1.2	10	-40	125	ADR431ARZ	SMD 149-8663	5.330	3.860	3.040	– –	– –
431	ADI	8	SOIC	2.5	0.4	3	-40	125	ADR431BRZ	SMD 149-8664	7.950	5.760	4.270	– –	– –
441	ADI	8	MSOP	2.5	3.0	10	-40	125	ADR441ARMZ	SMD 127-4160	3.380	3.050	2.370	2.230	2.100
441	ADI	8	SOIC	2.5	3.0	10	-40	125	ADR441ARZ	SMD 127-4159	3.380	3.050	2.370	2.230	2.100
441	ADI	8	SOIC	2.5	1.0	3	-40	125	ADR441BRZ	SMD 127-4158	5.040	4.550	3.520	3.330	3.120
580	ADI	3	TO-52	2.5	0.4	85	0	70	AD580JH	633-100 ▲	5.490	3.740	2.790	– –	– –
680	ADI	3	TO-92	2.5	0.4	30	0	70	AD680JTZ	107-9389	3.660	2.490	1.850	– –	– –
780	ADI	8	DIP	2.5	–	7	-40	85	AD780ANZ	960-5550	6.980	4.760	3.840	– –	– –
1004	TI	8	SOIC	2.5		20	0	70	LT1004CD-2-5G4	SMD 958-9694	0.540	0.460	0.380	– –	– –
1004	LT	8	SOIC	2.5		20	0	70	LT1004CS8-2.5#PBF	SMD 127-3423	3.020	1.710	1.270	– –	– –
1004	LT	3	TO-92	2.5		20	0	70	LT1004CZ25#PBF	955-9213	2.460	1.390	1.040	– –	– –

RL Re-reeling available

	Mftr.	Pins	Pkg	Voltage Ref (V)	Tol (%)	Temp Coeff (ppm/°C)	Operating Temp (°C) Min	Max	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
1009	LT	8	SOIC	2.5					LT1009IS8#PBF	NEW SMD 166-3325●	4.630	3.470	2.780	2.320	2.080
1009	TI	8	SOIC	2.5	0.2	25	0	70	LT1009CD	SMD 958-9716●	0.950	0.750	0.570	– –	– –
1009	TI	3	TO-92	◆ 2.5	0.2	25	0	70	LT1009CLPG4	958-9724●	1.000	0.840	0.750	– –	– –
1009	LT	8	MSOP	◆ 2.5	–	25	0	70	LT1009CMS8#PBF	SMD 127-3424●	3.550	2.000	1.540	– –	– –
1009	LT	3	TO-92	◆ 2.5	0.2–	25	0	70	LT1009CZ	246-578▲	1.280	1.040	0.890	– –	– –
1009	LT	3	TO-92	◆ 2.5	0.2	25	0	70	LT1009CZ#PBF	955-9256●	2.460	1.390	1.040	– –	– –
1009	TI	8	SOIC	◆ 2.5	0.2	25	-40	85	LT1009ID	SMD 958-9732●	0.660	0.560	0.510	– –	– –
1009	LT	3	TO-92	◆ 2.5	0.2	35	-40	85	LT1009IZ	476-6933▲	1.870	1.710	1.670	– –	– –
1009	LT	3	TO-92	◆ 2.5	0.2	35	-40	85	LT1009IZ#PBF	955-9264●	4.250	2.400	1.810	– –	– –
1009	LT	8	SOIC	◆ 2.5	0.2	25	0	70	LT1009S8#PBF	SMD 955-9272●	3.310	1.870	1.420	– –	– –
1019	LT	8	SOIC	2.5					LT1019ACS8-2.5#PBF	NEW SMD 166-3332●	10.290	7.720	6.170	5.140	4.610
1019	LT	8	DIP	◆ 2.5	0.2	20	0	70	LT1019CN8-2.5#PBF	955-9396●	6.980	3.950	3.000	– –	– –
1019	LT	8	SOIC	◆ 2.5	0.2–	20	0	70	LT1019CS8-2.5#PBF	SMD 955-9426●	8.790	4.970	3.730	– –	– –
1034	LT	3	TO-92	◆ 2.5	–	10	0	70	LT1034BCZ-2.5#PBF	127-3431●	5.200	2.940	2.190	– –	– –
1034	LT	8	SOIC	◆ 2.5	–	20	0	70	LT1034CS8-2.5#PBF	SMD 127-3432●	3.970	2.710	2.260	– –	– –
1389	LT	8	SOIC	2.5		20	0	70	LT1389BCS8-2.5#PBF	SMD 127-3438●	6.140	3.470	2.720	– –	– –
1403	ON	8	SOIC	2.5		10	0	70	MC1403DG	SMD 121-1111●	1.440	1.110	1.090	– –	– –
1460	LT	8	SOIC	2.5					LT1460DCS8-2.5#PBF	NEW SMD 166-3424●	3.780	2.840	2.270	1.900	1.690
1460	LT	8	SOIC	2.5					LT1460EIS8-2.5#PBF	NEW SMD 166-3425●	4.260	3.190	2.550	2.130	1.910
1460	LT	8	SOIC	2.5		10	0	70	LT1460ACS8-2.5#PBF	SMD 127-3441●	5.910	3.340	2.660	– –	– –
1460	LT	8	MSOP	2.5		15	0	70	LT1460CCMS8-2.5#PBF	SMD 127-3443●	5.740	3.920	3.290	– –	– –
1460	LT	8	MSOP	2.5		25	0	70	LT1460FCMS8-2.5#PBF	SMD 127-3445●	3.750	2.570	2.150	– –	– –
1525	MCHIP	3	TO-92	2.5	1.0	50	-40	85	MCP1525-I/TO	129-2235●	0.280	0.173	0.158	– –	– –
1525	MCHIP	3	SOT-23	2.5	1.0	50	-40	85	MCP1525T-I/TT	SMD 975-8500●	0.430	0.330	0.270	– –	– –
1582	ADI		3-SOT-23	2.5					AD1582ARTZ-R2	NEW SMD 166-0954●	1.290	1.000	0.820	0.740	0.630
1634	LT	8	SOIC	2.5		10	0	70	LT1634BCS8-2.5#PBF	SMD 127-3452●	3.860	2.630	2.210	– –	– –
1790	LT	6	SOT-23	2.5					LT1790BCS6-2.5#TRMPBF	NEW SMD 166-3791●	2.580	2.000	1.600	1.340	1.190
2425	TI	3	TO-92	2.5		20	0	70	TLE2425CLP	NEW 156-4931●	1.160	0.940	0.850	0.680	0.580
3025	TI	3	SOT-23	2.5		50	-40	125	REF3025AIDBZTG4	SMD 123-4684●	1.280	0.970	0.790	0.650	0.580
3125	TI	3	SOT-23	2.5	0.2	20	-40	125	REF3125AIDBZTG4	SMD 118-0185●	1.770	1.560	1.410	1.260	1.140
3225	TI	6	SOT-23	2.5	0.01–	20	-40	125	REF3225AIDBVTG4	SMD 118-0177●	2.720	2.380	2.110	1.920	1.720
3325	TI		SC-70	2.5					REF3325AIDCKT	NEW SMD 162-4410●	1.750	1.400	1.120	0.980	0.880
4040	NSC	3	SOT-23	2.5	0.1	100	-40	85	LM4040AIM3-2.5	SMD 335-8513● RL	1.300	1.010	0.800	– –	– –
4040	NSC	5	SC-70	2.5	0.2	100	-40	85	LM4040BIM7-2.5	SMD 977-8934●	1.240	1.010	0.830	– –	– –
4040	NSC	3	SOT-23	2.5	0.1	150	-40	85	LM4040DIM3-2.5	SMD 977-8322● RL	0.640	0.560	0.500	0.380	0.360
4040	NSC	3	TO-92	2.5	0.1	150	-40	85	LM4040DIZ-2.5	948-5961●	0.580	0.470	0.440	0.430	0.400
4050	NSC	3	SOT-23	2.5					LM4050BIM3-2.5/NOPB	NEW SMD 156-4661●	1.440	1.190	1.050	0.930	0.790
4120	NSC	5	SOT-23	2.5	0.2	50	-40	85	LM4120AIM5-2.5	SMD 977-8799●	1.560	1.310	1.090	– –	– –
4125	NSC	5	SOT-23	2.5		50	-40	85	LM4125IM5-2.5	SMD 818-0652●	1.620	1.380	1.100	– –	– –
4128	NSC	5	SOT-23	2.5	0.2	75	-40	125	LM4128BMF-2.5/NOPB	NEW SMD 156-4773●	1.250	1.030	0.910	0.800	0.690
4132	NSC	5	SOT-23	2.5	0.05	10			LM4132AMF-2.5	SMD 131-2750●	7.230	5.550	4.600	3.740	3.160
4132	NSC	5	SOT-23	2.5	0.1	20			LM4132BMF-2.5	SMD 131-2754●	2.700	2.060	1.710	1.470	1.320
4132	NSC	5	SOT-23	2.5	0.4	20			LM4132CMF-2.5	SMD 131-2757●	3.310	2.520	2.090	1.810	1.610
4132	NSC	5	SOT-23	2.5	0.4	20			LM4132DMF-2.5	SMD 131-2760●	2.560	1.950	1.520	1.360	1.260
4132	NSC	5	SOT-23	2.5	0.5	30			LM4132EMF-2.5	SMD 131-2763●	2.200	1.670	1.320	1.160	1.110
4140	NSC	8	SOIC	2.5	0.1	3	0	70	LM4140ACM-2.5	SMD 128-6883●	8.900	5.900	5.070	4.480	3.100
4140	NSC	8	SOIC	2.5	0.1	6	0	70	LM4140BCM-2.5	SMD 128-6888●	6.370	4.220	3.640	3.210	2.420
4140	NSC	8	SOIC	2.5	0.1	10	0	70	LM4140CCM-2.5	SMD 128-6893●	2.340	1.820	1.630	1.450	1.140
4431	NSC	3	SOT-23	2.5	2.0	30	0	70	LM4431M3-2.5	SMD 977-9639●	0.810	0.550	0.450	0.430	0.390
5025	TI	8	SOIC	2.5	0.05	3	-40	125	REF5025AIDG4	SMD 143-9622●	3.150	2.520	2.100	1.800	1.690
6002	MAX	3	SOT-23	2.5		100	-40	85	MAX6002EUR+	SMD 972-4044●	0.860	0.600	0.490	– –	– –
6325	MAX	8	SOIC	2.5	0.2	0.5	0	70	MAX6325CSA+	SMD 118-7996●	13.310	9.410	7.460	6.930	– –
6652	LT	8	MSOP	2.5	0.05	5	-40	125	LTC6652AHMS8-2.5#PBF	NEW SMD 155-6273●	7.400	6.470	5.180	4.320	3.700
6652	LT	8	MSOP	2.5	0.1	10	-40	125	LTC6652BHMS8-2.5#PBF	NEW SMD 155-6276●	3.630	3.170	2.530	2.120	1.820
6660	LT	3	DFN	2.5	0.2	20	0	70	LT6660HCDC-2.5#PBF	SMD 143-2118●	2.230	1.290	1.070	– –	– –
40401	ZET	3	SOT-23	◆ 2.5	1.0	100	-40	85	ZR40401F2.5TA	SMD 113-2788●	1.100	0.790	0.530	0.360	0.310

◆ = Micropower

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	Mftr.	Pins	Pkg	Voltage Ref (V)	Tol (%)	Temp Coeff (ppm/°C)	Operating Temp (°C) Min	Max	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
363	ADI	5	TSOT	3		25	-40	125	ADR363AUJZ-REEL7	SMD 111-7860●	0.920	0.880	0.690	0.650	0.600
423	ADI	8	SOIC	3	0.13	10	-40	125	ADR423ARZ	SMD 143-8991●	5.580	3.800	3.070	– –	– –
431	ST	8	SOIC	3			0	70	TL431ACD	SMD 109-4357●	0.340	0.220	0.140	0.097	0.082
431	ST	3	TO-92	3			0	70	TL431ACZ	975-6450●	0.390	0.280	0.172	0.114	0.100
431	ST	3	TO-92	3			0	70	TL431CZ	975-6469●	0.500	0.310	0.220	0.137	0.123
433	ADI	8	SOIC	3	1.3	10	-40	125	ADR433ARZ	SMD 149-8665●	4.480	3.260	2.550	– –	– –
433	ADI	8	SOIC	3	0.5	3	-40	125	ADR433BRZ	SMD 149-8667●	7.950	5.760	4.520	– –	– –
443	ADI	8	MSOP	3	4.0	10	-40	125	ADR443ARMZ	SMD 127-4157●	3.380	3.050	2.370	2.230	2.100
443	ADI	8	SOIC	3	4.0	10	-40	125	ADR443ARZ	SMD 127-4155●	4.460	3.030	2.260	2.140	2.000
443	ADI	8	SOIC	3	1.2	3	-40	125	ADR443BRZ	SMD 127-4154●	5.980	4.250	3.430	3.300	3.080
1460	LT	5	SOT-23	3					LT1460HCS3-3#TRMPBF	NEW SMD 166-3759●	5.320	4.130	3.300	2.750	2.460
1790	LT	6	SOT-23	3					LT1790BCS6-3#TRMPBF	NEW SMD 166-3792●	2.580	2.000	1.600	1.340	1.190
4132	NSC	5	SOT-23	3					LM4132AMF-3.0/NOPB	NEW SMD 167-3967●	7.950	5.680	4.140	3.430	3.060
1798	LT	8	SOIC	3		40	0	70	LTC1798CS8-3#PBF	SMD 127-3458●	3.640	2.490	2.080	– –	– –
3130	TI	3	SOT-23	3	0.2	20	-40	125	REF3130AIDBZTG4	SMD 118-0187●	1.770	1.560	1.430	1.270	1.130
3230	TI	6	SOT-23	3	0.01	20	-40	125	REF3230AIDBVTG4	SMD 118-0178●	4.300	3.300	2.680	2.270	1.960
4120	NSC	5	SOT-23	3	0.2	50	-40	85	LM4120AIM5-3.0	SMD 977-8802● RL	2.030	1.210	0.960	– –	– –
4120	NSC	5	SOT-23	3	–	50	-40	85	LM4120IM5-3.0	SMD 131-2745●	1.880	1.440	1.170	1.100	0.990
6660	LT	3	DFN	3	0.2	20	0	70	LT6660HCDC-3#PBF	SMD 143-2119●	2.230	1.290	1.070	– –	– –
4040	TI	3	SOT-23	3	1	150	-40	85	LM4040D30IDBZTG4	SMD 149-4903●	0.580	0.490	0.380	0.290	0.280
5030	TI	8	SOIC	3	0.05	3	-40	125	REF5030AIDG4	SMD 143-9623●	3.150	2.520	2.100	1.800	1.690
6652	LT	8	MSOP	3	0.05	5	-40	125	LTC6652AHMS8-3#PBF	NEW SMD 155-6274●	7.400	6.470	5.180	4.320	3.700
3030	TI	3	SOT-23	3.05		20	125	-40	REF3030AIDBZTG4	SMD 123-4945●	1.280	0.970	0.770	0.640	0.580
4132	NSC	5	SOT-23	3.3					LM4132AMF-3.3/NOPB	NEW SMD 167-3969●	7.950	5.680	4.140	3.430	3.060
330	ZET	3	SOT-23	3.3	1.0	50	-40	85	ZRC330F01TA	SMD 113-2712●	1.130	0.700	0.530	– –	– –
330	ZET	3	SOT-23	3.3	3.0	90	-40	85	ZRC330F03TA	SMD 113-2713●	0.960	0.590	0.450	– –	– –
366	ADI	5	TSOT	3.3		25	-40	125	ADR366AUJZ-REEL7	SMD 111-7857●	0.650	0.600	0.570	0.530	0.500
1461	LT	8	SOIC	3.3		12	0	70	LT1461CCS8-3.3#PBF	SMD 127-3447●	2.840	1.600	1.350	– –	– –
1790	LT	6	SOT-23	3.3					LT1790BCS6-3.3#TRMPBF	NEW SMD 166-3794●	2.580	2.000	1.600	1.340	1.190
3133	TI	3	SOT-23	3.3	0.2	20	-40	125	REF3133AIDBZTG4	SMD 118-0188●	1.610	1.440	1.330	1.200	1.040
3233	TI	6	SOT-23	3.3	0.01	20	-40	125	REF3233AIDBVTG4	SMD 118-0179●	4.300	3.300	2.680	2.270	1.960
4120	NSC	5	SOT-23	3.3	0.2	50	-40	85	LM4120AIM5-3.3	SMD 977-8810●	1.560	1.310	1.090	– –	– –
4120	NSC	5	SOT-23	3.3	–	50	-40	85	LM4120IM5-3.3	SMD 131-2746●	1.500	1.140	0.900	0.800	0.710
6652	LT	8	MSOP	3.3	0.05	5	-40	125	LTC6652AHMS8-3.3#PBF	NEW SMD 155-6275●	7.400	6.470	5.180	4.320	3.700
6660	LT	3	DFN	3.3	0.2	20	0	70	LT6660HCDC-3.3#PBF	SMD 143-2120●	2.230	1.290	1.070	– –	– –
040	ZET	3	SOT-223	4	1.0	50	0	70	ZRT040GC1TA	SMD 113-2777● RL	1.850	1.170	0.910	0.690	0.600
434	ADI	8	SOIC	4.069	0.12	10	-40	125	ADR434ARZ	SMD 143-8994●	5.600	3.860	3.120	– –	– –
2940	TI	3	SOT-23	4.096					REF2940AIDBZT....	NEW SMD 164-8670●	0.840	0.670	0.560	0.520	0.490

RL Re-reeling available

Voltage Reference Diodes - continued

	Mftr.	Pins	Pkg		Voltage Ref (V)	Tol (%)	Temp Coeff (ppm/°C)	Operating Temp (°C) Min	Max
1461	LT	8	SOIC		4.096				
6652	LT				4.096				
4030	NSC	5	SOT-23		4.096				
4030	NSC	5	SOT-23		4.096				
4030	NSC	5	SOT-23		4.096				
6141	MAX	8	SOIC		4.096				
6241	MAX	8	SOIC		4.096				
6241	MAX	8	SOIC		4.096				
364	ADI	5	TSOT		4.096		25	-40	125
400	ZET	2	E-Line		4.096	2.0	90	-40	85
444	ADI	8	MSOP		4.096	5.0	10	-40	125
444	ADI	8	SOIC	◆	4.096	5.0	10	-40	125
444	ADI	8	SOIC		4.096	1.6	3	-40	125
1389	LT	8	SOIC		4.096		50	0	70
1541	MCHIP	3	SOT-23		4.096	1.0	50	-40	85
1541	MCHIP	3	TO-92		4.096		50	-40	85
1634	LT	8	SOIC		4.096		10	0	70
5040	TI	8	SOIC		4.096	0.05	3	-40	125
3040	TI	3	SOT-23		4.096		50	125	-40
3140	TI	3	SOT-23		4.096	0.2	20	-40	125
3240	TI	6	SOT-23		4.096	0.2	20	-40	125
4140	NSC	8	SOIC		4.096	0.1	3	0	70
6004	MAX	3	SOT-23		4.096		100	-40	85
6341	MAX	8	SOIC		4.096	0.02	0.5	0	70
400	ZET	3	SOT-23		4.1	1.0	90	-40	85
4040	NSC	3	TO-92		4.1	0.1	150	-40	85
4120	NSC	5	SOT-23		4.1	–	50	-40	85
4120	NSC	5	SOT-23		4.1	0.2	50	-40	85
4125	NSC	5	SOT-23		4.1		50	-40	85
4132	NSC	5	SOT-23		4.1	–	10		
4132	NSC	5	SOT-23		4.1	–	20		
4132	NSC	5	SOT-23		4.1	–	20		
4132	NSC	5	SOT-23		4.1	–	20		
4132	NSC	5	SOT-23		4.1	–	30		
4140	NSC	8	SOIC		4.1		6		
4140	NSC	8	SOIC		4.1		10		
40401	ZET	3	SOT-23		4.1	1.0	90	-40	85
4132	NSC	5	SOT-23		4.1				
4040	NSC	3	TO-92		4.1				
4050	NSC	3	SOT-23		4.1				
4128	NSC	5	SOT-23		4.1				
5045	TI	8	SOIC		4.5	0.05	3	-40	125
194	ADI	8	DIP	◆	4.5		10	-40	85
6145	MAX	3	SOT-23		4.5				
4040	NSC	3	SOT-23		5				
4050	NSC	3	SOT-23		5				
6250	MAX	8	SOIC		5				
6250	MAX	8	SOIC		5				
6250	MAX	8	SOIC		5				
2	TI	8	SOIC	◆	5		10	85	-40
2	ADI	8	SOIC		5	0.3	3	-40	85
02	BB	8	DIP		5	0.2	25	-40	85
02	ADI	8	DIP		5	0.2	65	-40	85
02	MAX	8	SOIC		5	0.2–	10	0	75
02	ADI	8	SOIC		5	0.2–	65	-40	85
02	ADI	8	DIP		5	0.2–	25	0	70
195	ADI	8	PDIP		5	0.04	5	-40	85
336	NSC	8	SOIC		5	1		0	70
336	NSC	8	SOIC	◆	5	1.0	54	0	70
336	NSC	3	TO-92		5	1.0	54	0	70
336	NSC	3	TO-92	◆	5	1.0	54	0	70
365	ADI	5	TSOT	◆	5		25	-40	125
425	ADI	8	SOIC		5	0.12	10	-40	125
435	ADI	8	SOIC		5	0.12	10	-40	125
445	ADI	8	MSOP		5	6.0	10	-40	125
445	ADI	8	SOIC	◆	5	6.0	10	-40	125
445	ADI	8	SOIC		5	2.0	3	-40	125
500	ZET	3	SOT-23	◆	5	1.0	50	-40	85
500	ZET	3	SOT-23	◆	5	2.0	50	-40	85
500	ZET	3	SOT-23		5	3.0	50	-40	85
586	ADI	8	PDIP		5	0.1	15	0	70
586	ADI	8	PDIP		5	0.04	2	0	70
586	ADI	8	DIP	◆	5		25	0	70
586	ADI	8	SOIC	◆	5		25	0	70
1019	LT	8	DIP	◆	5	0.05	5	0	70
1019	LT	8	DIP	◆	5	0.05	5	0	70
1019	LT	8	DIP		5	0.2	20	0	70
1019	LT	8	DIP	◆	5	0.2	20	0	70
1019	LT	8	SOIC	◆	5	–	20	0	70
1021	LT	8	DIP		5				
1021	LT	8	DIP		5		2	0	70
1021	LT	8	SOIC		5		3	0	70
1027	LT	8	DIP		5		3	0	70
1027	LT	8	SOIC		5		3	0	70
1027	LT	8	SOIC	◆	5		3	0	70
1027	LT	8	SOIC		5		3	0	70
1027	LT	8	DIP		5				
1029	LT	3	TO-92		5				
1029	LT	3	TO-92		5		12	0	70
1236	LT	8	SOIC		5				
1236	LT	8	SOIC		5		2	0	70
1236	LT	8	SOIC	◆	5		5	0	70
1236	LT	8	SOIC	◆	5		10	0	70
1389	LT	8	SOIC	◆	5		50	0	70
1460	LT	8	SOIC		5				
1460	LT	8	SOIC		5				
1460	LT	3	TO-92		5				
1460	LT	8	SOIC	◆	5		10	0	70
1460	LT	8	MSOP	◆	5		15	0	70
1460	LT	8	MSOP	◆	5		25	0	70
1461	LT	8	SOIC		5				
1461	LT	8	SOIC		5				

Mftrs. List No.	Order Code			Price Each 1+	10+	100+	250+	500+
LT1461CCS8-4#PBF	NEW	SMD	166-3430●	2.840	2.130	1.700	1.420	1.270
LTC6652BHMS8-4.096#PBF		NEW	162-8780●	2.610	2.320	1.900	1.750	1.490
LM4030AMF-4.096	NEW	SMD	166-3031●	6.250	4.860	3.980	3.640	3.040
LM4030BMF-4.096	NEW	SMD	166-3032●	3.190	2.490	2.030	1.870	1.600
LM4030CMF-4.096	NEW	SMD	166-3034●	2.870	2.230	1.830	1.670	1.440
MAX6141ESA+	NEW	SMD	167-3171●	2.580	1.840	1.430	1.290	1.170
MAX6241AESA+	NEW	SMD	167-3177●	11.660	8.330	6.480	5.830	5.300
MAX6241BESA+	NEW	SMD	167-3179●	5.380	3.850	2.990	2.690	2.450
ADR364AUJZ-REEL7		SMD	111-7859●	0.920	0.880	0.690	0.650	0.600
ZRC400A02			113-2747●	0.760	0.480	0.290	– –	– –
ADR444ARMZ		SMD	127-4153●	4.010	3.200	2.380	2.260	2.110
ADR444ARZ		SMD	127-4152●	4.460	3.030	2.260	2.140	2.000
ADR444BRZ		SMD	127-4151●	6.240	4.250	3.430	3.300	3.080
LT1389BCS8-4.096#PBF		SMD	127-3439●	5.740	3.920	3.290	– –	– –
MCP1541T-I/TT		SMD	108-4310●	0.430	0.330	0.270	– –	– –
MCP1541-I/TO		SMD	133-1478●	0.370	0.230	0.210	– –	– –
LT1634BCS8-4.096#PBF		SMD	127-3453●	4.440	2.510	1.850	– –	– –
REF5040AIDG4		SMD	143-9624●	3.150	2.520	2.100	1.800	1.690
REF3040AIDBZTG4		SMD	123-4727●	1.280	0.970	0.790	0.650	0.580
REF3140AIDBZTG4		SMD	118-0189●	1.770	1.560	1.410	1.260	1.140
REF3240AIDBVTG4		SMD	118-0180●	4.300	3.300	2.680	2.270	1.960
LM4140ACM-4.1		SMD	128-6884●	8.310	6.480	5.830	5.160	4.050
MAX6004EUR+		SMD	972-4052●	0.860	0.600	0.490	– –	– –
MAX6341CSA+		SMD	118-7921●	12.080	8.520	7.200	6.280	– –
ZRC400F01TA		SMD	113-2717● RL	1.220	0.980	0.720	– –	– –
LM4040DIZ-4.1			948-6100●	0.690	0.470	0.390	0.360	0.340
LM4120IM5-4.1		SMD	131-2747●	1.840	1.510	1.230	1.090	0.990
LM4120AIM5-4.1		SMD	977-8829● RL	1.560	1.310	1.110	– –	– –
LM4125AIM5-4.1		SMD	818-0636●	1.750	1.480	1.180	– –	– –
LM4132AMF-4.1		SMD	131-2751●	6.950	5.250	4.140	3.670	3.490
LM4132BMF-4.1		SMD	131-2755●	3.630	2.760	2.300	1.920	1.700
LM4132CMF-4.1		SMD	131-2758●	3.490	2.650	2.080	1.850	1.750
LM4132DMF-4.1		SMD	131-2761●	2.520	1.920	1.580	1.380	1.210
LM4132EMF-4.1		SMD	131-2764●	2.670	2.020	1.590	1.410	1.340
LM4140BCM-4.1		SMD	128-6889●	4.140	3.220	2.900	2.560	2.120
LM4140CCM-4.1		SMD	128-6895●	2.340	1.820	1.630	1.450	1.140
ZR40401F41TA		SMD	113-2720●	0.890	0.540	0.420	0.310	0.260
LM4132AMF-4.1/NOPB	NEW	SMD	167-3971●	6.630	5.230	4.140	3.430	3.060
LM4040BIZ-4.1/NOPB		NEW	167-3985●	1.570	1.120	0.810	0.670	0.610
LM4050CIM3-4.1/NOPB	NEW	SMD	167-4004●	1.660	1.190	0.870	0.720	0.640
LM4128AMF-4.1/NOPB	NEW	SMD	167-3955●	2.340	1.670	1.220	1.010	0.900
REF5045AIDG4		SMD	143-9626●	3.150	2.520	2.100	1.800	1.690
REF194GPZ			960-5592●	3.710	2.540	1.740	– –	– –
MAX6145EUR+T	NEW	SMD	167-3172●	1.940	1.390	1.080	0.970	0.880
LM4040DEM3-5.0/NOPB	NEW	SMD	167-3991●	0.770	0.590	0.440	0.350	0.320
LM4050AEM3-5.0/NOPB	NEW	SMD	167-4002●	3.530	2.520	1.840	1.520	1.360
MAX6250ACSA+	NEW	SMD	167-3181●	10.490	7.490	5.830	5.250	4.770
MAX6250AESA+	NEW	SMD	167-3182●	11.660	8.330	6.480	5.830	5.300
MAX6250BCSA+	NEW	SMD	167-3183●	5.090	3.640	2.830	2.550	2.310
REF02AU/2K5E4		SMD	123-4885●	2.820	2.040	1.580	1.360	1.200
REF02HSZ		SMD	138-9152●	3.010	2.540	1.890	1.800	1.680
REF02APG4			117-8427●	2.960	2.320	1.760	– –	– –
REF02CPZ			107-9390●	2.460	1.670	1.200	– –	– –
REF02CSA+		SMD	118-7943●	3.260	2.300	1.830	– –	– –
REF02CSZ		SMD	942-6159●	2.360	1.610	1.150	– –	– –
REF02HPZ			960-5118●	3.360	2.300	1.710	– –	– –
REF195GPZ			143-8681●	2.210	1.500	1.120	– –	– –
LM336M-5.0/NOPB	NEW	SMD	156-4654●	0.530	0.420	0.380	0.330	0.290
LM336BM-5.0		SMD	948-8480●	1.110	0.760	0.620	0.580	0.540
LM336BZ-5.0			948-8499●	0.960	0.780	0.730	0.700	0.660
LM336Z-5.0			948-8502●	0.540	0.320	0.250	0.220	0.200
ADR365AUJZ-REEL7		SMD	111-7858●	0.920	0.880	0.690	0.650	0.600
ADR425ARZ		SMD	143-8993●	5.540	3.800	3.070	– –	– –
ADR435ARZ		SMD	143-8995●	5.670	3.860	3.120	– –	– –
ADR445ARMZ		SMD	127-4150●	4.700	3.200	2.380	2.260	2.110
ADR445ARZ		SMD	127-4149●	4.460	3.030	2.260	2.140	2.000
ADR445BRZ		SMD	127-4148●	6.240	4.250	3.430	3.300	3.080
ZRB500F01TA		SMD	113-2721● RL	1.130	0.700	0.530	– –	– –
ZRB500F02TA		SMD	113-2728●	0.990	0.810	0.570	0.400	0.390
ZRB500F03TA		SMD	113-2722●	0.960	0.590	0.450	– –	– –
AD586KNZ			143-8332●	6.450	4.400	3.550	– –	– –
AD586MNZ			143-8333●	8.640	6.630	5.620	– –	– –
AD586JNZ			960-5126●	5.020	3.430	2.760	– –	– –
AD586JRZ		SMD	942-6167●	5.310	3.620	2.920	– –	– –
LT1019ACN85			476-6994▲	5.600	4.760	3.880	– –	– –
LT1019ACN85#PBF			955-9388●	11.810	6.680	5.000	– –	– –
LT1019CN8-5#PBF			955-9400●	6.980	3.950	3.000	– –	– –
LT1019CN8-5.0			638-419▲	5.120	4.000	3.270	– –	– –
LT1019CS8-5#PBF		SMD	127-3426●	8.790	4.970	3.730	– –	– –
LT1021DCN8-5#PBF		NEW	166-3334●	5.020	3.760	3.010	2.510	2.250
LT1021BCN8-5#PBF			127-3427●	9.920	5.610	4.230	– –	– –
LT1021DCS8-5#PBF		SMD	127-3428●	6.030	3.420	2.580	– –	– –
LT1027CCN8-5#PBF			955-9450●	7.910	4.490	3.460	– –	– –
LT1027CCS85		SMD	476-7032▲	4.720	3.630	3.540	– –	– –
LT1027CCS85#PBF		SMD	955-9469●	8.980	5.080	3.780	– –	– –
LT1027ECS8-5#PBF		SMD	127-3429●	4.370	2.490	1.850	– –	– –
LT1027ECN8-5#PBF		NEW	166-3337●	6.500	4.880	3.900	3.260	2.920
LT1029ACZ#PBF		NEW	166-3338●	4.730	3.540	2.840	2.360	2.120
LT1029CZ#PBF			127-3430●	2.930	1.660	1.230	– –	– –
LT1236BIS8-5#PBF		NEW	166-3404●	4.850	3.630	2.910	2.420	2.170
LT1236ACS8-5#PBF		SMD	127-3433●	7.330	4.140	3.080	– –	– –
LT1236BCS8-5#PBF		SMD	127-3434●	4.250	2.400	1.770	– –	– –
LT1236CCS8-5#PBF		SMD	127-3435●	3.780	2.140	1.580	– –	– –
LT1389BCS8-5#PBF		SMD	127-3440●	3.960	2.180	2.130	– –	– –
LT1460BIS8-5#PBF		NEW	166-3423●	8.630	6.470	5.180	4.310	3.860
LT1460EIS8-5#PBF		NEW	166-3426●	4.140	3.110	2.490	2.070	1.850
LT1460GIZ-5#PBF		NEW	166-3427●	3.090	2.320	1.850	1.540	1.390
LT1460ACS8-5#PBF		SMD	127-3442●	5.910	3.340	2.660	– –	– –
LT1460CCMS8-5#PBF		SMD	127-3444●	3.340	2.660	2.580	– –	– –
LT1460FCMS8-5#PBF		SMD	127-3446●	4.020	2.270	1.770	– –	– –
LT1461AIS8-5#PBF	NEW	SMD	166-3428●	10.870	8.160	6.530	5.440	4.870
LT1461DHS8-5#PBF	NEW	SMD	166-3431●	2.840	2.130	1.700	1.420	1.270

RL Re-reeling available

	Mftr.	Pins	Pkg	Voltage Ref (V)	Tol (%)	Temp Coeff (ppm/°C)	Operating Temp (°C) Min	Max	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
1461	LT	8	SOIC	5	–	12	0	70	LT1461CCS8-5#PBF	SMD 127-3448	2.840	1.600	1.350	– –	– –
1634	LT	8	SOIC	5	–	10	0	70	LT1634BCS8-5#PBF	SMD 127-3454	3.860	2.630	2.210	– –	– –
1790	LT	6	SOT-23	5					LT1790BCS6-5#TRMPBF	NEW SMD 166-3795	2.580	2.000	1.600	1.340	1.190
1798	LT	8	SOIC	5		40	0	70	LTC1798CS8-5#PBF	SMD 127-3459	3.640	2.490	2.080	– –	– –
4040	NSC	3	TO-92	5	0.1	100	-40	85	LM4040CIZ-5.0/NOPB	NEW 156-4659	0.630	0.530	0.460	0.400	0.340
4040	NSC	3	SOT-23	5	0.1	100	-40	85	LM4040AIM3-5.0	SMD 416-0666 RL	1.290	0.900	0.720	– –	– –
4040	NSC	3	SOT-23	5	1.0	150	-40	85	LM4040DIM3-5.0	SMD 977-8330	0.640	0.560	0.500	0.380	0.360
4040	NSC	3	TO-92	◆5	1.0	150	-40	85	LM4040DIZ-5.0	948-5970	0.690	0.470	0.390	0.360	0.340
4120	NSC	5	SOT-23	◆5	0.2	50	-40	85	LM4120AIM5-5.0	SMD 977-8837	1.920	1.640	1.240	– –	– –
4120	NSC	5	SOT-23	5	–	50	-40	85	LM4120IM5-5.0	SMD 131-2748	2.120	1.440	1.170	1.100	1.020
5050	TI	8	SOIC	5	0.05	3	-40	125	REF5050AIDG4	SMD 143-9628	3.150	2.520	2.100	1.800	1.690
6350	MAX	8	SOIC	5	0.02	1	0	70	MAX6350CSA+	SMD 118-7923	13.050	9.200	7.780	6.790	– –
6652	LT			5					LTC6652BHMS8-5#PBF	NEW 162-8782	2.610	2.320	1.900	1.750	1.490
6660	LT	3	DFN	5	0.2	20	0	70	LT6660HCDC-5#PBF	SMD 143-2121	2.230	1.290	1.070	– –	– –
40401	ZET	3	E-Line	5	1.0–	90	-40	85	ZR40401R5	113-2724	1.020	0.630	0.520	– –	– –
329	NSC	3	TO-92	6.9	5.0	100	0	70	LM329DZ...	948-8510	0.820	0.680	0.620	0.590	0.500
4040	NSC	3	SOT-23	8.2					LM4040AIM3-8.2/NOPB	NEW SMD 167-3983	2.060	1.460	1.070	0.880	0.790
4040	NSC	3	SOT-23	8.2					LM4040CIM3-8.2/NOPB	NEW SMD 167-3986	0.900	0.650	0.470	0.390	0.350
4040	NSC	3	TO-92	10					LM4040AIZ-10.0/NOPB	NEW 167-3984	2.060	1.460	1.070	0.880	0.790
4040	NSC	3	TO-92	10					LM4040CIZ-10.0/NOPB	NEW 167-3988	0.900	0.650	0.470	0.390	0.350
4050	NSC	3	SOT-23	10					LM4050AIM3-10/NOPB	NEW SMD 167-4003	3.140	2.250	1.630	1.360	1.210
1021	LT	8	SOIC	10					LT1021DCS8-10#PBF	NEW SMD 166-3335	6.050	4.540	3.630	3.030	2.710
4040	NSC	3	TO-92	10					LM4040BIZ-10.0/NOPB	NEW 167-3942	1.570	1.120	0.810	0.670	0.610
01	ADI	8	DIP	10	0.3–	65	-40	85	REF01CPZ	960-5134	1.720	1.210	0.870	– –	– –
01	MAX	8	SOIC	10	–	10	0	75	REF01CSA+	SMD 118-7944	3.380	2.170	1.660	– –	– –
01	ADI	8	SOIC	10	0.3–	65	-40	85	REF01CSZ	SMD 960-5142	2.360	1.610	1.150	– –	– –
01	ADI	8	DIP	10	0.3–	25	0	70	REF01HPZ	960-5150	3.360	2.300	1.710	– –	– –
102	BB	8	DIP	10	0.0025–	10	-25	85	REF102AP	109-7429▲	4.810	4.330	4.190	– –	– –
102	BB	8	DIP	10	0.0025	10	-25	85	REF102AP	109-7429▲	4.810	4.330	4.190	– –	– –
581	ADI	3	TO-5	10		30	0	70	AD581JH	633-112▲	7.480	5.160	4.120	– –	– –
584	ADI	3	TO-5	10		30	0	70	AD581KH	441-4640▲	9.790	7.500	6.360	– –	– –
587	ADI	8	DIP	10		20	0	70	AD587JNZ	960-5169	4.670	3.180	2.570	– –	– –
587	ADI	8	SOIC	10		20	0	70	AD587JRZ	SMD 942-6175	5.310	3.620	2.920	– –	– –
1019	LT	8	SOIC	10					LT1019CS8-10#PBF	NEW SMD 166-3333	8.800	6.590	5.280	4.400	3.940
1236	LT	8	SOIC	10					LT1236ACS8-10#PBF	NEW SMD 166-3401	6.040	4.530	3.620	3.020	2.700
1236	LT	8	DIP	10					LT1236BCN8-10#PBF	NEW 166-3403	4.620	3.460	2.770	2.300	2.070
4040	NSC	3	SOT-23	10	0.1	100	-40	85	LM4040CIM3-10.0/NOPB	NEW SMD 156-4658	0.630	0.530	0.460	0.400	0.340
4040	NSC	3	TO-92	10	1.0	150	-40	85	LM4040DIZ-10.0	948-6097	0.690	0.520	0.440	0.370	0.320

◆ = Micropower

Référence de tension fixe programmable

416090

	Mftr.	Pins	Pkg	Voltage Ref (V)	Tol (%)	Temp Coeff (ppm/°C)	Operating Temp (°C) Min	Max	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
130	ADI	6	TSOT	0.5,1	0.35	5	-40	125	ADR130BUJZ	NEW SMD 149-8662	1.93	1.38	1.15	– –	– –
285	NSC	8	SOIC	1.24,1					LM285M/NOPB	NEW SMD 167-3965	0.96	0.69	0.50	0.41	0.37
4041	NSC	3	SOT-23	1.24,1					LM4041CEM3-ADJ/NOPB	NEW SMD 167-3994	0.94	0.67	0.49	0.40	0.37
4041	NSC	5	SC70	1.24,1					LM4041CIM7-ADJ/NOPB	NEW SMD 167-3996	0.90	0.65	0.47	0.39	0.35
4041	NSC	3	TO-92	1.24,1					LM4041CIZ-ADJ/NOPB	NEW 167-3998	0.90	0.65	0.47	0.39	0.35
4121	NSC	5	SOT-23	1.216,1					LM4121AIM5-ADJ/NOPB	NEW SMD 167-4007	2.52	1.81	1.31	1.09	0.97
584	ADI	8	DIP	2.5, 5.0, 7.5, 10	–	30	0	70	AD584JNZ	960-4065	5.55	3.78	3.05	– –	– –
584	ADI	8	PDIP	2.5, 5.0, 7.5, 10	0.14	3	0	70	AD584KNZ	NEW 143-8331	9.09	6.97	5.91	– –	– –
588	ADI	16	DIP	-10,-5,5,10,65 Tracking	–	3	0	70	AD588JQ	411-700▲	19.56	15.55	13.81	– –	– –
780	ADI	8	PDIP	2.5,3.0	0.04	3	-40	85	AD780BNZ	NEW 143-8532	8.40	6.44	5.47	– –	– –

◆ = Micropower

For **Heatsinks** see page 766 and for **Heatsinks for SMD packages** see page 749

Precision Micropower Voltage References

The LM4040 is a family of bandgap circuits designed to achieve precision micro-power voltage references of 2.5V and 5.0V. Excellent performance is maintained over the 60µA to 15mA operating current range.
The LM4041 is a bandgap circuit designed to achieve a precision micro-power voltage reference of 1.225 V. Excellent performance is maintained over the 60µA to 12mA operating current range.

496720

Pins/Pkg	Reverse Breakdown Voltage	Tolerance @ 25°C	Max Temp Coefficient	Operating Temp. Range	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+
3/SOT-23	1.225V	0.5%	100ppm/°C	-40°C to 125°C	LM4041CFTA	SMD 146-1554	0.73	0.55	0.48	0.43
3/SOT-23	1.225V	1%	100ppm/°C	-40°C to 125°C	LM4041DFTA	SMD 146-1555	0.63	0.48	0.41	0.37
3/SOT-23	2.5V	0.5%	100ppm/°C	-40°C to 125°C	LM4040C25FTA	SMD 146-1549	0.73	0.55	0.48	0.43
3/SOT-23	2.5V	1%	100ppm/°C	-40°C to 125°C	LM4040D25FTA	SMD 146-1551	0.63	0.48	0.41	0.37
3/SOT-23	5V	0.5%	100ppm/°C	-40°C to 125°C	LM4040C50FTA	SMD 146-1550	0.73	0.55	0.48	0.43
3/SOT-23	5V	1%	100ppm/°C	-40°C to 125°C	LM4040D50FTA	SMD 146-1553	0.63	0.48	0.41	0.37

Adjustable Voltage Regulators

Shunt Adjustable Voltage Regulators

450426

	Mftr.	Pins/Pkg	Output Voltage Range (V)	Output Tolerance (%)	Output Current (mA)	Typical Vref Drift over Temp Range (mV)	Operating Temp. Range	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+
4041	NSC	3/TO-92	1.225 à 10	1.0	12		-40°C to 85°C	LM4041DIZ-ADJ	948-6119	0.530	0.420	0.340	0.280
385	NSC	3/TO-92	1.235 à 5.3	2			0°C to 70°C	LM385BYZ/NOPB	NEW 156-4790	1.580	1.290	1.170	1.010
4041	NSC	3/SOT-23	1.24 à 10	0.1	12		-40°C to 85°C	LM4041DIM3-ADJ/NOPB	NEW SMD 156-4708	0.550	0.440	0.390	0.340
431	TI	5/SOT-23	1.24 à 6		15		-40°C to 85°C	TLV431IDBVT.	NEW SMD 164-8663	0.430	0.340	0.280	0.270
285	NSC	8/SOIC	1.24 bis 5.3				to	LM285M/NOPB	NEW SMD 167-3965	0.960	0.690	0.500	0.410
4041	NSC	3/SOT-23	1.24 bis 10				to	LM4041CEM3-ADJ/NOPB	NEW SMD 167-3994	0.940	0.670	0.490	0.400
4041	NSC	5/SC70	1.24 bis 10				to	LM4041CIM7-ADJ/NOPB	NEW SMD 167-3996	0.900	0.650	0.470	0.390
4041	NSC	3/TO-92	1.24 bis 10				to	LM4041CIZ-ADJ/NOPB	NEW 167-3998	0.900	0.650	0.470	0.390
4121	NSC	5/SOT-23	1.216 bis 12				to	LM4121AIM5-ADJ/NOPB	NEW SMD 167-4007	2.520	1.810	1.310	1.090
3431	ST	3/SOT-23	1.24 à 24	0.5			-40°C to 125°C	TS3431CILT	SMD 137-4141	0.680	0.440	0.340	0.300
385	NSC	3/TO-92	1.24 to 5.3	2.0	20		0°C to 70°C	LM385BXZ	949-4537	2.710	2.020	1.670	– –

RL Re-reeling available

Farnell

Adjustable Voltage Regulators - continued

Shunt Adjustable Voltage Regulators - continued

	Mftr.	Pins/Pkg	Output Voltage Range (V)	Output Tolerance (%)	Output Current (mA)	Typical Vref Drift over Temp Range (mV)	Operating Temp. Range	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+
385	NSC	8/SOIC	1.24 à 5.3	2.0			0°C to 70°C	LM385M	SMD 121-5208●	0.500	0.410	0.370	– –
385	NSC	3/TO-92	1.24 à 5.3	2.0	20		0°C to 70°C	LM385Z	948-8529●	0.490	0.400	0.360	0.350
588	ADI	16/DIP	1.24 à 5.3		10		0°C to 70°C	AD588JQ	411-700▲	19.560	15.550	13.810	– –
1431	TI	8/SOIC	1.24 à 5.3	0.4	100		0°C to 70°C	TL1431CD	SMD 959-3489●	0.700	0.460	0.330	– –
1431	TI	3/TO-92	1.24 à 5.3	0.4	100		0°C to 70°C	TL1431CLPG4	959-3497●	0.430	0.360	0.280	– –
431	TI	5/SOT-23	1.24 to 6	1	15	4	0°C to 70°C	TLV431ACDBVR	SMD 128-7662●	0.420	0.290	0.210	0.152
431	TI	5/SOT-23	1.24 to 6	1	15	4	0°C to 70°C	TLV431ACDBVRG4	SMD 128-7663●	0.490	0.370	0.280	0.210
431	TI	5/SOT-23	1.24 to 6	1	15	4	0°C to 70°C	TLV431ACDBVTE4	SMD 123-6565●	0.550	0.420	0.340	0.290
431	TI	5/SOT-23	1.24 to 6	1	15	6	-40°C to 85°C	TLV431AIDBVR	SMD 128-7671●	0.360	0.250	0.177	0.171
431	TI	5/SOT-23	1.24 to 6	1	15	6	-40°C to 85°C	TLV431AIDBVRE4	SMD 128-7672●	0.440	0.330	0.250	0.172
431	TI	5/SOT-23	1.24 to 6	0.5	15	4	0°C to 70°C	TLV431BCDBVTE4	SMD 105-3389●	0.370	0.280	0.270	– –
3431	ST	3/SOT-23	1.24 à 5.3		100		-40°C to 125°C	TS3431CILT	SMD 137-4141●	0.680	0.440	0.340	0.300
431	TI	3/SOT-23	1.24 to 6	0.5	15	4	0°C to 70°C	TLV431BCDBZTG4	SMD 105-3385●	0.370	0.300	0.290	– –
431	TI	6/SC-70	1.24 to 6	0.5	15	4	0°C to 70°C	TLV431BCDCKTE4	SMD 105-3380●	0.390	0.310	0.300	– –
431	TI	3/SOT-23	1.24 to 6	0.5	15	6	-40°C to 85°C	TLV431BIDBZTG4	SMD 105-3372●	0.400	0.330	0.310	– –
431	TI	6/SC-70	1.24 to 6	0.5	15	6	-40°C to 85°C	TLV431BIDCKT	SMD 105-3368●	0.450	0.290	0.260	– –
431	TI	5/SOT-23	1.24 to 6	0.5	15	11	-40°C to 125°C	TLV431BQDBVTE4	SMD 105-3363●	0.570	0.470	0.390	– –
431	TI	3/SOT-23	1.24 to 6	0.5	15	11	-40°C to 125°C	TLV431BQDBZTG4	SMD 105-3357●	0.520	0.430	0.350	– –
431	TI	6/SC-70	1.24 to 6	0.5	15	11	-40°C to 125°C	TLV431BQDCKTE4	SMD 105-3353●	0.490	0.430	0.420	– –
431	TI	3/TO-92	1.24 to 6	1.5	15	4	70°C to 0°C	TLV431CLPE3	123-6566●	0.400	0.280	0.210	0.169
4051	NSC	3/SOT-23	1.24 à 10	0.1	12		-40°C to 85°C	LM4051AIM3-ADJ	SMD 977-8551●	2.770	1.870	1.540	– –
4051	NSC	3/SOT-23	1.24 à 10	0.2	12		-40°C to 85°C	LM4051BIM3-ADJ	SMD 977-8578●	1.840	1.240	1.010	– –
4051	NSC	3/SOT-23	1.24 à 10	0.5	12		-40°C to 85°C	LM4051CIM3-ADJ	SMD 977-8594●	1.570	1.160	0.960	– –
431	TI	6/SC-70	1.24 to 18	1	80	4	0°C to 70°C	TLVH431ACDCKTE4	SMD 105-3347●	0.220	0.156	0.137	– –
431	TI	5/SOT-23	1.24 to 18	0.5	80	4	0°C to 70°C	TLVH431BCDBVTE4	SMD 105-3333●	0.300	0.250	0.210	– –
431	TI	3/SOT-23	1.24 to 18	0.5	80	4	0°C to 70°C	TLVH431BCDBZTG4	SMD 105-3329●	0.400	0.350	0.290	– –
431	TI	3/SOT-23	1.24 to 18	0.5	80	6	-40°C to 85°C	TLVH431BIDBZTG4	SMD 105-3318●	0.420	0.340	0.290	– –
431	TI	3/SOT-23	1.24 to 18	0.5	80	11	-40°C to 125°C	TLVH431BQDBZTG4	SMD 105-3304●	0.550	0.450	0.400	– –
431	TI	5/SOT-23	1.24 to 18	1.5	80	4	0°C to 70°C	TLVH431CDBVTE4	SMD 105-3296●	0.270	0.260	0.250	– –
431	TI	6/SC-70	1.24 to 18	1.5	80	4	0°C to 70°C	TLVH431CDCKTE4	SMD 105-3291●	0.300	0.200	0.181	– –
431	TI	6/SC-70	1.24 to 18	1.5	80	6	-40°C to 85°C	TLVH431IDCKTE4	SMD 105-3283●	0.300	0.290	0.280	– –
431	TI	6/SC-70	1.24 to 18	1.5	80	11	-40°C to 125°C	TLVH431QDCKTE4	SMD 105-3273●	0.460	0.400	0.340	– –
431	NSC	5/SOT-23	1.24 to 30	1	100	4	0°C to 70°C	LMV431ACM5	SMD 977-8373●	0.610	0.540	0.470	– –
431	NSC	3/TO-92	1.24 to 30	1	100	4	0°C to 70°C	LMV431ACZ	948-6232●	0.780	0.630	0.470	– –
431	NSC	5/SOT-23	1.24 to 30	1.5	100	4	0°C to 70°C	LMV431CM5	SMD 977-8381●	0.390	0.290	0.250	– –
431	NSC	3/TO-92	1.24 to 30	1.5	100	4	0°C to 70°C	LMV431CZ	948-6240●	0.250	0.158	0.111	– –
431	NSC	3/TO-92	1.24 to 30	1.5	100	4	0°C to 70°C	LMV431CZ.	302-4260	0.320	0.220	0.139	– –
431	NSC	5/SOT-23	1.24 to 30	1.5	100	6	-40°C to 85°C	LMV431IM5	SMD 977-8390●	0.470	0.370	0.290	– –
431	NSC	3/TO-92	1.24 to 30	1.5	100	6	-40°C to 85°C	LMV431IZ	948-6259●	0.410	0.280	0.230	– –
431	ZET	3/TO-92	1.25 to 10	1	25	4	-40°C to 85°C	ZR431LC01	113-2688●	1.090	0.790	0.490	– –
431	ZET	3/SOT-23	1.25 to 10	1	25	4	-40°C to 85°C	ZR431LF01TA	SMD 113-2690●	0.890	0.760	0.490	– –
431	ZET	3/SOT-23	1.25 to 10	2.5	25	4	-40°C to 85°C	ZR431LF02TA	SMD 113-2691●	0.720	0.610	0.430	– –
431	ZET	3/SOT-23	1.25 to 10	2.5	25	4	-40°C to 85°C	ZR431LF02TA.	SMD 302-3904	0.102	– –	– –	– –
431	TI	3/SOT-23	2.495 to 36	1	100	14	-40°C to 85°C	TL431AIDBZTG4	SMD 149-4941●	0.480	0.380	0.300	0.240
431	TI	5/SOP	2.495 to 36	1	100		-40°C to 85°C	TL431AIDBVT	SMD 146-0996●	0.680	0.480	0.360	0.280
431	TI	8/PDIP	2.495 to 36	1	100		-40°C to 85°C	TL431AIP	146-0999●	0.450	0.300	0.220	0.152
1431	TI	8/SOIC	2.5 à 36		100		-40°C to 125°C	TL1431QD....	NEW SMD 164-8665●	0.460	0.360	0.300	0.280
2431	ST	3/SOT-23	2.5 à 5.3		100		-40°C to 105°C	TS2431ILT	SMD 137-4139●	0.290	0.220	0.158	0.124
431	ZET	3/TO-92	2.5 to 20	2	100	8	-40°C to 85°C	ZR431CL	113-2767●	0.510	0.450	0.320	0.210
431	ZET	3/SOT-23	2.5 to 20	2	100	8	-40°C to 85°C	ZR431F	SMD 113-2773● RL	0.550	0.480	0.330	0.260
431	ZET	3/SOT-23	2.5 to 20	0.5	100	8	-40°C to 85°C	ZR431F005TA	SMD 113-2750●	0.490	0.420	0.300	– –
431	ZET	3/SOT-23	2.5 to 20	1	100	8	-40°C to 85°C	ZR431F01TA	SMD 113-2727● RL	0.380	0.350	0.310	0.250
431	NSC	3/TO-92	2.5 à 36	2	100		-40°C to 85°C	LM431AIZ/NOPB	NEW 156-4662●	0.340	0.290	0.260	0.240
431	NSC	8/SOIC	2.5 à 36	2	100		0°C to 70°C	LM431ACM/NOPB	NEW SMD 156-4724●	0.330	0.270	0.250	0.220
431	NSC	3/SOT-23	2.5 à 36	1	100		0°C to 70°C	LM431BCM3/NOPB	NEW SMD 156-4744●	0.350	0.300	0.270	0.240
1431	ST	8/SOIC	2.5 à 36			7	-40°C to 105°C	TL1431ID	SMD 109-4356●	0.780	0.600	0.490	– –
1431	ST	3/TO-92	2.5 à 36			7	-40°C to 85°C	TL1431IZ	975-5861●	0.780	0.600	0.490	– –
431	NSC	3/SOT-23	2.5 to 36	2	100	8	0°C to 70°C	LM431ACM3	SMD 121-5209●	0.370	0.270	0.195	– –
431	NSC	3/TO-92	2.5 to 36	2	100	8	0°C to 70°C	LM431ACZ	948-9339●	0.370	0.340	0.310	0.280
431	NSC	8/SOIC	2.5 to 36	2	100	8	-40°C to 85°C	LM431AIM	SMD 949-4219●	0.360	0.270	0.240	0.182
431	NSC	3/SOT-23	2.5 to 36	2	100	8	-40°C to 85°C	LM431AIM3	SMD 121-5210●	0.380	0.310	0.290	– –
431	NSC	3/SOT-23	2.5 to 36	1	100	8	0°C to 70°C	LM431BCM3	SMD 977-9868●	0.370	0.280	0.260	– –
431	ST	3/TO-92	2.5 to 36	2	100		-40°C to 105°C	TL431AIZT	NEW 156-4349●	0.144	0.117	0.103	0.078
431	ST	8/SOIC	2.5 to 36	1	100	3	0°C to 70°C	TL431ACD	SMD 109-4357●	0.340	0.220	0.140	0.097
431	TI	8/SOIC	2.5 to 36	1	100	6	0°C to 70°C	TL431ACD	SMD 959-3535●	0.240	0.190	0.153	– –
431	TI	5/SOT-23	2.5 to 36	1	100	6	0°C to 70°C	TL431ACDBVRG4	SMD 105-3481●	0.310	0.270	0.210	– –
431	TI	8/SOIC	2.5 to 36	1	100	6	0°C to 70°C	TL431ACDG4	SMD 128-7642●	0.220	0.169	0.125	0.093
431	TI	3/TO-92	2.5 to 36	1	100	6	0°C to 70°C	TL431ACLP	959-3543● RL	0.210	0.170	0.136	– –
431	ST	3/TO-92	2.5 to 36	1	100	3	0°C to 70°C	TL431ACZ	975-6450●	0.390	0.280	0.172	0.114
431	TI	8/SOIC	2.5 to 36	1	100	14	-40°C to 85°C	TL431AID	SMD 959-3551●	0.320	0.220	0.144	– –
431	TI	3/TO-92	2.5 to 36	1	100	14	-40°C to 85°C	TL431AILP	959-3560●	0.310	0.210	0.141	– –
431	TI	3/TO-92	2.5 to 36	1	100	14	-40°C to 85°C	TL431AILPM	123-6523	0.177	0.120	0.092	0.073
431	TI	3/TO-92	2.5 to 36	1	100	14	-40°C to 85°C	TL431AILPME3	123-6524●	0.260	0.181	0.139	0.104
431	TI	5/SOT-23	2.5 to 36	0.5	100	6	0°C to 70°C	TL431BCDBVTE4	SMD 105-3475●	0.370	0.300	0.250	– –
431	TI	3/SOT-23	2.5 to 36	0.5	100	6	0°C to 70°C	TL431BCDBZTG4	SMD 105-3470●	0.340	0.280	0.240	– –
431	TI	6/SC-70	2.5 to 36	0.5	100	6	0°C to 70°C	TL431BCDCKTE4	SMD 105-3466●	0.370	0.290	0.240	– –
431	TI	8/SOIC	2.5 to 36	0.5	100	6	0°C to 70°C	TL431BCDE4	SMD 105-3465●	0.220	0.150	0.139	– –
431	ON	8/SOIC	2.5 to 36	0.4	100	3	0°C to 70°C	TL431BCDG	SMD 121-1128●	0.400	0.280	0.200	– –
431	TI	8/DIP	2.5 to 36	0.5	100	6	0°C to 70°C	TL431BCPE4	105-3460●	0.156	0.104	0.096	– –
431	TI	3/SOT-89	2.5 to 36	0.5	100	6	0°C to 70°C	TL431BCPKG3	SMD 123-6525●	0.260	0.185	0.135	0.106
431	TI	5/SOT-23	2.5 to 36	0.5	100	14	-40°C to 85°C	TL431BIDBVTE4	SMD 105-3447●	0.450	0.350	0.270	– –
431	TI	3/SOT-23	2.5 to 36	0.5	100	14	-40°C to 85°C	TL431BIDBZTG4	SMD 105-3443●	0.450	0.350	0.270	– –
431	TI	6/SC-70	2.5 to 36	0.5	100	14	-40°C to 85°C	TL431BIDCKTE4	SMD 105-3439●	0.450	0.340	0.260	– –
431	TI	8/SOIC	2.5 to 36	0.5	100	14	-40°C to 85°C	TL431BIDE4	SMD 105-3438●	0.270	0.175	0.166	– –
431	TI	3/TO-92	2.5 to 36	0.5	100	14	-40°C to 85°C	TL431BILPE3	123-6526●	0.370	0.270	0.194	0.156
431	TI	8/DIP	2.5 to 36	0.5	100	14	-40°C to 85°C	TL431BIPE4	105-3433●	0.250	0.157	0.149	– –
431	TI	3/SIP	2.5 to 36	0.5	100	14	-40°C to 85°C	TL431BIPKG3	SMD 123-6527●	0.300	0.200	0.154	0.123
431	TI	5/SOT-23	2.5 to 36	0.5	100	14	-40°C to 125°C	TL431BQDBVTE4	SMD 105-3428●	0.340	0.260	0.250	– –
431	TI	3/SOT-23	2.5 to 36	0.5	100	14	-40°C to 125°C	TL431BQDBZTG4	SMD 105-3423●	0.370	0.290	0.280	– –
431	TI	6/SC-70	2.5 to 36	0.5	100	14	-40°C to 125°C	TL431BQDCKTE4	SMD 105-3419●	0.370	0.280	0.270	– –
431	TI	8/SOIC	2.5 to 36	0.5	100	14	-40°C to 125°C	TL431BQDE4	SMD 105-3418●	0.370	0.260	0.220	– –
431	TI	8/SOIC	2.5 to 36	2	100	6	0°C to 70°C	TL431CD	SMD 959-3578●	0.210	0.174	0.138	– –
431	TI	5/SOT-23	2.5 to 36	2	100	6	0°C to 70°C	TL431CDBVRE4	SMD 128-7648●	0.200	0.150	0.116	0.091
431	TI	3/SOT-23	2.5 to 36	2	100	6	0°C to 70°C	TL431CDBZRG4	SMD 105-3415●	0.210	0.199	0.184	– –
431	TI	8/SOIC	2.5 to 36	2	100	6	0°C to 70°C	TL431CDE4	SMD 128-7649●	0.200	0.150	0.116	0.091
431	ON	8/SOIC	2.5 to 36	2.2	100	3	0°C to 70°C	TL431CDG	SMD 110-4704●	0.210	0.164	0.105	– –
431	TI	8/SOIC	2.5 to 36	2	100	6	0°C to 70°C	TL431CDG4	SMD 123-6528●	0.200	0.139	0.111	0.084
431	TI	3/TO-92	2.5 to 36	2	100	6	0°C to 70°C	TL431CLP	110-6038	0.300	0.210	0.143	– –
431	TI	3/TO-92	2.5 to 36	2	100	6	0°C to 70°C	TL431CLP..	411-838	0.168	0.138	0.114	– –
431	ON	3/TO-92	2.5 to 36	2.2	100	3	0°C to 70°C	TL431CLPG	966-6796●	0.350	0.240	0.162	0.122

RL Re-reeling available

	Mftr.	Pins/Pkg	Output Voltage Range (V)	Output Tolerance (%)	Output Current (mA)	Typical Vref Drift over Temp Range (mV)	Operating Temp. Range	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+
431	TI	3/TO-92	2.5 to 36	2	100	6	0°C to 70°C	TL431CLPME3	123-6610●	0.200	0.139	0.111	0.084
431	TI	8/DIP	2.5 to 36	2	100	6	0°C to 70°C	TL431CP	110-6040●	0.290	0.200	0.148	– –
431	TI	3/SOT-89	2.5 to 36	2	100	6	0°C to 70°C	TL431CPKG4	SMD 959-3586●	0.155	0.123	0.103	– –
431	TI	8/SOIC	2.5 to 36	2	100	6	0°C to 70°C	TL431CPSRG4	SMD 105-3414●	0.146	0.100	0.089	– –
431	ST	3/TO-92	2.5 to 36	1	100	3	0°C to 70°C	TL431CZ	975-6469●	0.500	0.310	0.220	0.137
431	TI	8/SOIC	2.5 to 36	2	100	14	-40°C to 85°C	TL431ID	SMD 959-3594●	0.166	0.134	0.108	– –
431	TI	3/SOT-23	2.5 to 36	2	100	14	-40°C to 85°C	TL431IDBZTG4	SMD 123-6529●	0.350	0.290	0.270	0.240
431	TI	3/TO-92	2.5 to 36	2	100	14	-40°C to 85°C	TL431ILP	959-3608● RL	0.300	0.220	0.169	– –
431	TI	3/SIP	2.5 to 36	2	100	14	-40°C to 85°C	TL431IPKG3	SMD 123-6530●	0.194	0.135	0.096	0.074
431	TI	3/SOT-89	2.5 to 36	2	100	14	-40°C to 85°C	TL431IPKG4	SMD 959-3616●	0.220	0.190	0.151	– –
431	TI	5/SOT-23	2.5 to 36	2	100	14	-40°C to 125°C	TL431QDBVT	SMD 123-6531●	0.390	0.340	0.280	0.260
431	TI	3/SOT-23	2.5 to 36	2	100	14	-40°C to 125°C	TL431QDBZTG4	SMD 123-6533●	0.460	0.370	0.310	0.280
432	TI	5/SOT-23	2.5 to 36	1	100	14	-40°C to 85°C	TL432AIDBVR	SMD 123-6534●	0.220	0.150	0.114	0.088
432	TI	3/SOT-23	2.5 to 36	1	100	14	-40°C to 85°C	TL432AIDBZT	SMD 123-6535●	0.450	0.350	0.290	0.260
432	TI	3/SOT-23	2.5 to 36	0.5	100	6	0°C to 70°C	TL432BCDBZTG4	SMD 105-3407●	0.390	0.330	0.310	– –
432	TI	3/SOT-23	2.5 to 36	0.5	100	14	-40°C to 85°C	TL432BIDBZTG4	SMD 105-3400●	0.610	0.490	0.390	– –
432	TI	5/SOT-23	2.5 to 36	2	100	14	-40°C to 85°C	TL432IDBVR	SMD 123-6536●	0.220	0.150	0.114	0.088
1431	ST	8/SOIC	2.5 to 36	0.25	100	7	-40°C to 105°C	TL1431ID	SMD 109-4356●	0.780	0.600	0.490	– –
1431	ST	3/TO-92	2.5 to 36	0.25	100	7	-40°C to 85°C	TL1431IZ	975-5861●	0.780	0.600	0.490	– –

Adjustable Voltage Regulators

448738

Mftr.	Pins/Pkg	Output Voltage Range (V)	Output Tolerance (%)	Input Voltage Range (V)	Dropout Voltage (V)	Operating Temp. Range	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+
1.5 mA												
LT	8/SOIC	1.5 to 5	1	to 22	–	0°C to 70°C	LT1575CS8#PBF	SMD 127-3592●	4.500	2.540	2.080	– –
0.01 A												
MAX	16/TQFN	to 5		to 45	0.9	-40°C to 125°C	MAX5086BATE+	NEW SMD 167-3147●	3.460	2.470	1.920	1.730
0.02 A												
LT	8/DFN	to 60		to 80	0.35	-40°C to 125°C	LT3014EDD#PBF	NEW SMD 166-3546●	2.720	2.110	1.690	1.410
MAX	16/TQFN	to 5		to 45	0.9	-40°C to 125°C	MAX5087BATE+	NEW SMD 167-3148●	3.620	2.580	2.010	1.810
LT	6/DFN	to		to 20	0.28	-40°C to 125°C	LT3009EDC#TRMPBF	NEW SMD 166-3817●	1.830	1.420	1.140	0.940
0.025 A												
MICR	14/SOIC	1.3 to 36		to		-40°C to 85°C	MIC5158YM	NEW SMD 155-6736●	2.940	2.620	2.140	– –
0.04 A												
MAX	8/DIP	-15 to -1.9	5	-16.5 to -2	0.35	0°C to 70°C	MAX664CPA+	118-8022●	2.910	2.190	2.130	2.070
MAX	20/TQFN	to 5		to 72	0.84	-40°C to 125°C	MAX6791TPLD2+T	NEW SMD 167-3149●	3.280	2.350	1.830	1.640
INTS	8/SOIC	1.3 to 16	1	1.6 to 16	–	0°C to 70°C	ICL7663SCBAZA	SMD 966-3789●	1.770	1.520	1.180	1.040
INTS	8/DIP	1.3 to 16	1	1.6 to 16	–	0°C to 70°C	ICL7663SCPAZ	101-8173●	1.280	1.040	0.940	0.830
MAX	8/SOIC	1.9 to 16	5	2 to 16.5	0.9	0°C to 70°C	MAX663CSA+	SMD 118-8015●	3.290	2.660	2.190	1.630
MAX	8/DIP	1.9 to 15	5	2 to 16.5	0.9	0°C to 70°C	MAX666CPA	205-280▲	3.030	2.980	2.610	2.350
MAX	8/SOIC	1.9 to 15	5	2 to 16.5	0.9	0°C to 70°C	MAX666CSA+	SMD 118-8016●	4.280	3.070	2.540	1.880
0.05 A												
LT	16/SSOP	to 5.5		to 38	5	-40°C to 85°C	LTC3851EGN#PBF	NEW SMD 164-7749●	2.820	2.190	1.790	1.630
MAX	20/TQFN	to 3.3		to 72	0.84	-40°C to 125°C	MAX6791TPSD2+T	NEW SMD 167-3150●	3.280	2.350	1.830	1.640
MAX	20/TQFN	to 5		to 72	0.84	-40°C to 125°C	MAX6795TPLD2+T	NEW SMD 167-3151●	2.600	1.860	1.440	1.300
MAX	20/TQFN	to 3.3		to 72	0.42	-40°C to 125°C	MAX6795TPSD2+T	NEW SMD 167-3152●	2.600	1.860	1.440	1.300
MAX	20/TQFN	to 3.3		to 72	0.42	-40°C to 125°C	MAX6796TPSD2+T	NEW SMD 167-3153●	2.600	1.860	1.440	1.300
TI	5/SOT-23	1.2 to 5.5	3	2.7 to 10	0.035	-40°C to 125°C	TPS77001DBVT	SMD 846-1554●	0.540	0.430	0.420	– –
SIP	5/SOT-23	0.9 to 7	2	to 6	0.2	-40°C to 125°C	SP6222EK-L	SMD 131-7819●	0.550	0.430	0.360	0.340
ADI	8/MSOP	1.5 to 10	0.9	2.6 to 12	0.2	-40°C to 85°C	ADP3336ARMZ-REEL	SMD 133-3251●	1.830	1.530	1.250	1.220
LT	8/MSOP	1.275 to 60	–	3 to 80	0.3	-40°C to 125°C	LT3010EMS8E#PBF	SMD 127-3635●	2.960	1.790	1.420	– –
0.075 A												
MAX	10/μMAX	to 3.4		to 3.6	0.2	-40°C to 85°C	MAX8516EUB+	NEW SMD 167-3155●	2.540	1.810	1.410	1.270
0.08 A												
TI	8/SON	1.2 to 15	4	2.5 to 24	0.67	-40°C to 125°C	TPS715A01DRBT	SMD 113-5384●	0.860	0.720	0.620	0.510
0.1 A												
LT	10/DFN	to 20		to 20	0.3	-40°C to 125°C	LT3023EDD#PBF	NEW SMD 166-3548●	3.110	2.410	1.930	1.610
LT	5/SOT-23	to 20		to 20	0.3	-40°C to 125°C	LT1761ES5-BYP#TRMPBF	NEW SMD 166-3782●	1.940	1.500	1.200	1.000
LT	5/SOT-23	to 20		to 20	0.3	-40°C to 125°C	LT1761ES5-SD#TRMPBF	NEW SMD 166-3783●	1.940	1.500	1.200	1.000
NSC	8/NSOIC	-5 to 11	–	1.5 to 5.5	–	-40°C to 85°C	MAX660M/NOPB	NEW SMD 156-4673●	1.040	0.860	0.700	0.580
NSC	8/SOIC	-5.5 to 11	–	1.5 to 5.5	–	-40°C to 85°C	LM2660M/NOPB	NEW SMD 156-4719●	1.350	1.110	0.910	0.740
MICR	8/SOIC	1.24 to 29	1	to 30	0.38	-40°C to 125°C	LP2951-03YM	NEW SMD 155-6704●	0.770	0.560	0.460	– –
TI	8/PDIP	to -5		to 15	1.1	0°C to 70°C	LT1054CP....	NEW 164-8667●	1.570	1.260	1.060	0.950
MAX	16/TQFN	to 3.4		to 3.6	0.1	-40°C to 85°C	MAX8556ETE+	NEW SMD 167-3156●	4.980	3.560	2.770	2.490
NSC	5/TO-263	to 5		to 26	300	to	LM2931CS/NOPB	NEW SMD 168-5505●	1.410	1.090	0.890	0.810
NSC	8/SOIC	-37 to -1.2	–	-40 to -4.2	–	-25°C to 125°C	LM337LM	SMD 948-5945●	0.530	0.330	0.250	0.220
NSC	3/TO-92	-37 to -1.2	–	-40 to -4.2	–	-25°C to 125°C	LM337LZ	948-9347●	0.490	0.300	0.250	0.230
LT	8/MSOP	0.2 to 9.85	–	0.9 to 10	0.15	-40°C to 125°C	LT3020EMS8#PBF	SMD 127-3636●	2.770	1.810	1.520	– –
TI	5/SOT-23	0.7 to 5.5	–	2.7 to 10	0.1	-40°C to 125°C	TPS76201DBVT	SMD 846-1317●	0.470	0.410	0.350	– –
ST	8/SO	1.2 to 37	–	to 41.2	–	-40°C to 125°C	LM217LD	SMD 108-7200●	0.430	0.330	0.270	0.220
ST	3/TO-92	1.2 to 37	–	1.2 to 41.2	–	-40°C to 85°C	LM217LZ	975-6620●	0.930	0.630	0.510	0.340
ST	8/SO	1.2 to 37	–	to 41.2	–	0°C to 125°C	LM317LD	SMD 108-7202●	0.350	0.230	0.190	0.175
ST	3/TO-252 (D-Pak)	1.2 to 37	–	to 41.2	–	0°C to 125°C	LM317MDT	SMD 108-7203●	0.690	0.450	0.370	0.350
TI	8/SOIC	1.2 to 31	–	1.2 to 36	–	0°C to 70°C	TL317CD	SMD 959-3500●	0.340	0.240	0.174	– –
TI	3/TO-92	1.2 to 32	–	1.2 to 36	–	0°C to 70°C	TL317CLP	959-3519●	0.200	0.170	0.138	– –
TI	6/SOT-23	1.2 to 5.5	2	2.7 to 5.5	0.038	-40°C to 125°C	TPS79101DBVT	SMD 846-1740●	0.550	0.470	0.450	– –
LT	10/MSOP	1.22 to 20	1	1.8 to 20	0.3	-40°C to 125°C	LT3027EMSE#PBF	SMD 127-3640●	3.040	1.990	1.650	– –
LT	10/MSOP	1.22 to 20	1	1.8 to 20	0.3	-40°C to 125°C	LT3023EMSE#PBF	SMD 127-3638●	3.020	1.840	1.450	– –
MAX	5/SOT-23	1.25 to 6.5	–	2.5 to 6.5	0.055	-40°C to 85°C	MAX8863SEUK+T	SMD 118-8049●	2.280	1.950	1.690	1.440
NSC	8/SOIC	1.4 to 29	–	-0.3 to 30	0.38	-40°C to 125°C	LP2951ACM	SMD 949-3425●	0.720	0.480	0.400	0.370
NSC	8/DIP	1.4 to 29	–	-0.3 to 30	0.38	-40°C to 125°C	LP2951ACN	948-8553●	0.640	0.510	0.420	0.370
NSC	8/SOIC	1.4 to 29	–	-0.3 to 30	0.38	-40°C to 125°C	LP2951CM	SMD 948-8561●	0.490	0.290	0.230	0.198
NSC	8/DIP	1.4 to 29	–	-0.3 to 30	0.38	-40°C to 125°C	LP2951CN	948-9320●	0.950	0.770	0.700	0.690
NSC	8/LLP	1.4 to 29	–	-0.3 to 30	0.38	-40°C to 125°C	LP2951CSD	SMD 100-8042●	0.650	0.470	0.360	– –
TI	5/SOT-23	2.5 to 5.5	1.5	1.8 to 10	0.06	-40°C to 85°C	REG101NA-A/250	SMD 120-7242●	1.270	1.080	1.000	– –
ON	8/SOIC	2.7 to 29.5	2	3 to 24	0.16	-40°C to 85°C	LM2931CDG	SMD 121-1100●	0.750	0.450	0.340	– –
ON	5/TO-220	2.7 to 29.5	2	3 to 24	0.16	-40°C to 150°C	LM2931CTG	121-1139●	0.970	0.720	0.530	0.440
NSC	8/SOIC	3 to 24	–	3.3 to 26	0.3	-40°C to 85°C	LM2931CM	SMD 949-3417●	0.550	0.460	0.420	0.410
NSC	5/TO-220	3 to 24	–	3.3 to 26	0.3	-40°C to 85°C	LM2931CT	948-9363●	0.920	0.750	0.580	0.530
0.12 A												
MAX	16/TQFN	to 3.4		to 3.6		-40°C to 85°C	MAX8557ETE+	NEW SMD 167-3157●	4.980	3.560	2.770	2.490
0.125 A												
LT	8/DIP	4.2 to 29.6	–	4 to 36	0.2	0°C to 100°C	LT1120CN8#PBF	956-0041●	4.440	2.510	1.850	– –
LT	8/SOIC	3.9 to 35.4	1	4.5 to 36	0.6	0°C to 100°C	LT1120ACS8#PBF	SMD 127-3564●	4.140	2.690	2.420	– –
LT	8/SOIC	3.9 to 35.4	1	4.5 to 36	0.6	0°C to 100°C	LT1120CS8#PBF	SMD 127-3566●	5.200	2.940	2.160	– –
0.15 A												
LT	8/SOIC	to 30		to 20	0.4	-40°C to 125°C	LT1121AHVIS8#PBF	NEW SMD 166-3361●	5.200	3.900	3.120	2.600
LT	8/SOIC	to 30		to 20	0.4	-40°C to 125°C	LT1121IS8#PBF	NEW SMD 166-3366●	3.690	2.770	2.210	1.840
LT	5/SOT-23	to 6		to 6.5	0.135	to	LTC1844ES5-SD#TRMPBF	NEW SMD 166-3868●	2.360	1.830	1.460	1.230

RL Re-reeling available

Farnell

Adjustable Voltage Regulators - continued

Adjustable Voltage Regulators - continued

Mftr.	Pins/Pkg	Output Voltage Range (V)	Output Tolerance (%)	Input Voltage Range (V)	Dropout Voltage (V)	Operating Temp. Range	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+
0.15 A												
LT	8/MSOP	to 36		to 36		-40°C to 125°C	LT3085EMS8E#PBF	NEW SMD 167-3523	3.460	2.630	2.210	1.840
LT	12/MSOP	to 60		to 80		-40°C to 125°C	LT3011EMSE#PBF	NEW SMD 167-3556	3.310	2.530	2.120	1.770
MAX	8/SOIC	to -5.5		to 5.5		-40°C to 85°C	MAX889RESA+	NEW SMD 167-3232	4.980	3.560	2.770	2.490
MAX	8/SOIC	to -5.5		to 5.5		-40°C to 85°C	MAX889SESA+	NEW SMD 167-3234	4.980	3.560	2.770	2.490
MAX	24/TQFN	to 5.2		to 28		-40°C to 85°C	MAX15023ETG+	NEW SMD 167-3104	4.410	3.150	2.450	2.200
TI	5/SOT-23	to		to 5.5		-40°C to 125°C	TPS780270200DDCT	NEW SMD 167-9769	1.710	1.280	1.030	0.940
NSC	8/LLP	to 85		to 95		to	LM5009SDC/NOPB	NEW SMD 168-5578	2.220	1.730	1.420	1.290
LT	8/MSOP	1.22 to 20	1	-20 to 20	0.3	-40°C to 125°C	LT1762EMS8#PBF	SMD 127-3608	2.240	1.270	1.000	– –
SIP	5/SOT-23	0.9 to 7	–	to 6	–	-40°C to 125°C	SP6223EK-L	SMD 131-7820	0.580	0.450	0.380	0.360
TI	14/SOIC	2 to 37	–	5 to 40	–	0°C to 70°C	UA723CD	SMD 146-0965	0.680	0.430	0.310	0.230
TI	5/SOT-23	1.2 to 5.5	1	1.7 to 5.5	0.03	-40°C to 85°C	TPS73101DBVTG4	SMD 120-7340	0.530	0.460	0.410	– –
TI	5/SOT-23	1.5 to 6.5	3	2.7 to 10	0.18	-40°C to 125°C	TPS76301DBVT	SMD 846-1325	0.340	0.280	0.250	– –
TI	8/MSOP	1.5 to 5.5	2	2.7 to 10	0.075	-40°C to 125°C	TPS77201DGK	SMD 110-0942	0.970	0.800	0.640	– –
NSC	10/TO-100	2 to 37	–	9.5 to 40	–	0°C to 70°C	LM723CH	121-5191	5.790	4.470	3.650	3.430
ST	14/DIP	2 to 37	–	9.5 to 40	–	0°C to 70°C	LM723CN	107-7176	0.650	0.430	0.350	0.320
NSC	10/TO-100	2 to 37	–	9.5 to 40	–	-55°C to 150°C	LM723H	121-6174	7.060	4.780	3.920	3.510
ST	14/DIP	2 to 37	–	to 40	–	-55°C to 125°C	LM723N	107-7177	0.880	0.580	0.480	0.450
MAX	10/microMax	2.5 to 5.5	–	1.6 to 5.5	–	-40°C to 85°C	MAX1759EUB+	NEW SMD 159-3325	4.160	3.240	2.910	2.420
LT	8/DIP	3.8 to 29.6	–	3.4 to 30	0.4	0°C to 125°C	LT1121CN8#PBF	113-6637	2.840	1.600	1.190	– –
LT	8/SOIC	3.8 to 29.6	–	3.4 to 30	0.4	0°C to 125°C	LT1121CS8	SMD 386-2045	2.030	1.970	1.920	– –
LT	8/SOIC	3.8 to 29.6	–	3.4 to 30	0.4	0°C to 125°C	LT1121CS8#PBF	SMD 956-0068	3.020	1.710	1.310	– –
LT	8/SOIC	3.8 to 30	1	-30 to 30	0.4	0°C to 125°C	LT1121ACS8#PBF	SMD 127-3567	3.690	2.080	1.540	– –
LT	8/SOIC	3.8 to 30	1	-36 to 30	0.4	0°C to 125°C	LT1121HVCS8#PBF	SMD 127-3571	3.350	2.180	1.830	– –
LT	8/DIP	3.8 to 29.6	–	3.4 to 30	0.4	-40°C to 125°C	LT1121IN8#PBF	113-6613	2.160	1.520	1.130	– –
0.18 A												
FCH	6/SOT-23	1 to 6	–	2.7 to 6	–	-40°C to 125°C	FAN2558SX	NEW SMD 156-4482	0.320	0.240	0.198	0.165
MAX	16/TSSOP	2.7 to 13		2.7 to 5.5		-40°C to 85°C	MAX1779EUE+	NEW SMD 160-6626	4.090	3.260	2.980	2.710
MAX	8/SOIC	to 5		to 11		0°C to 70°C	MAX750ACSA+	NEW SMD 167-3163	4.740	3.380	2.630	2.370
0.2 A												
ADI	6/SOT-23	to 11.75		to 12	0.14	-40°C to 85°C	ADP3331ARTZ-REEL7	NEW SMD 166-1068	1.070	0.840	0.670	0.630
LT	5/SOT-23	to -20		to -20	0.34	-40°C to 125°C	LT1964ES5-BYP#TRMPBF	NEW SMD 166-3815	2.660	2.050	1.650	1.370
LT	5/SOT-23	to -20		to -20	0.34	-40°C to 125°C	LT1964ES5-SD#TRMPBF	NEW SMD 166-3816	2.660	2.050	1.650	1.370
MAX	8/DIP	to 5		to 16		0°C to 70°C	MAX758ACPA+	NEW 167-3164	5.470	3.900	3.040	2.730
MAX	16/SOIC	to 5.1		to 30		0°C to 70°C	MAX797CSE+	NEW SMD 167-3165	8.000	5.720	4.440	4.000
TI	6/SON	-0.3 to 7	3	2.7 to 6.5	0.23	-55°C to 150°C	TPS71933-33DRVTG4	SMD 149-4898	1.190	0.940	0.710	0.660
TI	5/SOT-23	-10 to -1.2	2	-10 to -2.7	0.28	-40°C to 125°C	TPS72301DBVTG4	SMD 120-7336	1.500	1.250	1.110	– –
LT	8/SOIC	-0.3V to 13V	0.4	-0.3 to 13	0.2	0°C to 70°C	LTC1258CS8#PBF	SMD 127-3456	3.640	2.490	2.080	– –
LT	8/SOIC	-0.3V to 13V	0.4	-0.3 to 13	0.2	0°C to 70°C	LTC1798CS8#PBF	SMD 127-3457	3.640	2.490	2.080	– –
TI	5/SOT	1.193 to 6.5	2	2.7 to 6.5	0.09	-40°C to 85°C	TPS79901DDCT	SMD 113-5396	0.450	0.360	0.290	0.260
TI	5/DSBGA	1.193 to 6.5	2	2.7 to 6.5	0.09	-40°C to 85°C	TPS79901YZUT	SMD 113-5397	0.630	0.590	0.520	0.440
TI	6/SOT-23	1.2 to 5.5	2	2.7 to 5.5	0.2	-40°C to 125°C	TPS79301DBVRQ1	SMD 123-6584	0.690	0.490	0.380	0.280
MAX	8/DIP	1.25 to 11	5	2.7 to 11.5	0.32	0°C to 70°C	MAX882CPA	639-254	1.730	1.180	1.150	1.120
MAX	8/SOIC	1.25 to 11	5	2.7 to 11.5	0.32	0°C to 70°C	MAX882CSA+	SMD 118-8007	3.660	2.350	1.590	1.300
MAX	8/DIP	1.25 to 11	5	2.7 to 11.5	0.22	0°C to 70°C	MAX883CPA+	118-8009	2.550	1.400	1.370	1.330
MAX	8/SOIC	1.25 to 11	5	2.7 to 11.5	0.22	0°C to 70°C	MAX883CSA+	SMD 118-8011	3.660	2.350	1.590	1.240
MAX	8/SOIC	1.25 to 11	5	2.7 to 11.5	0.32	0°C to 70°C	MAX884CSA+	SMD 118-8012	2.610	1.430	1.400	1.370
SIP	5/SOT-23	1.5 to 5.5	2	2.5 to 5	0.16	-40°C to 125°C	SP6201EM5-L-ADJ	SMD 938-8206	0.550	0.450	0.380	0.360
TI	6/SOT-23	1.5 to 5.5	2	2.7 to 5.5	0.12	-40°C to 85°C	TPS73001DBVT	SMD 113-5389	0.500	0.420	0.310	0.230
0.25 A												
LT	16/TSSOP	to 60		to 80	0.4	-40°C to 125°C	LT3012BEFE#PBF	NEW SMD 166-3543	4.030	3.120	2.500	2.080
LT	12/DFN	to 60		to 80	0.4	-40°C to 125°C	LT3012EDE#PBF	NEW SMD 166-3544	3.880	2.910	2.330	1.940
LT	16/TSSOP	to 60		to 80	0.4	-40°C to 125°C	LT3013EFE#PBF	NEW SMD 166-3545	4.390	3.410	2.720	2.270
NSC	16/SOIC	to 29		to 30	470	to	LP2953AIM/NOPB	NEW SMD 168-5666	3.850	3.160	2.590	2.380
NSC	16/SOIC	to 29		to 30	470	to	LP2953IM/NOPB	NEW SMD 168-5667	2.130	1.750	1.430	1.310
NSC	16/MDIP	to 29		to 30	470	to	LP2953IN/NOPB	NEW 168-5668	2.130	1.750	1.430	1.310
NSC	8/SOIC	to 29		to 30	470	to	LP2954AIM/NOPB	NEW SMD 168-5669	2.300	1.890	1.540	1.420
NSC	8/SOIC	to 29		to 30	470	to	LP2954IM/NOPB	NEW SMD 168-5670	1.150	0.950	0.780	0.720
MCHIP	/	to		to		to	TC1187VCT713	162-7204	0.430	0.320	0.260	– –
MAX	8/UMAX	to 28		to 5.5		to	MAX1606EUA+	SMD 167-3186	4.060	2.900	2.250	2.030
MAX	16/QSOP	to 3.3		to 5.5		-40°C to 85°C	MAX1677EEE+	SMD 167-3187	7.820	5.590	4.340	3.910
TI	8/SOIC	1.2 to 9.75	2	1 to 10	0.19	-40°C to 125°C	TPS7201QD	SMD 845-8170	1.090	0.910	0.650	– –
TI	5/SOT-23	1.2 to 5.5	2	1.5 to 5.5	0.04	-40°C to 85°C	TPS73201DBVTG4	SMD 120-7342	0.840	0.700	0.600	– –
TI	8/MSOP	1.2 to 5.5	3	2.7 to 5.5	0.145	-40°C to 85°C	TPS79401DGNT	SMD 113-5406	1.570	1.060	0.760	0.650
NSC	16/SOIC	1.23 to 29	–	-20 to 30	0.47	-40°C to 125°C	LP2952IM	SMD 121-5215	1.760	1.440	1.240	– –
NSC	14/DIP	1.23 to 29	–	-20 to 30	0.47	-40°C to 125°C	LP2952IN	948-6011	1.660	1.340	1.070	0.960
TI	8/SOIC	1.25 to 5.5	3	2.7 to 10	0.14	-40°C to 125°C	TPS76601DG4	SMD 120-7347	0.570	0.490	0.450	– –
MAX	8/SOIC	1.3 to 16	4	3.5 to 16.5	0.15	0°C to 70°C	MAX667CSA+	SMD 972-6080	5.100	3.280	2.820	2.090
LT	12/DFN	1.24 to 60	–	4 to 80	0.4	-40°C to 125°C	LT3013EDE#PBF	SMD 132-9371	4.040	2.380	1.930	1.770
0.3 A												
LT	8/MSOP	to 20		to 20	0.27	-40°C to 125°C	LT1962EMS8#PBF	NEW SMD 166-3518	3.200	2.490	1.990	1.660
NSC	8/LLP	to 6		to 6	120	to	LP3982ILD-ADJ/NOPB	NEW SMD 168-5559	0.640	0.500	0.410	0.380
LT	8/DFN	0.4 to 3.6	–	1.7 to 5.5	45	-40°C to 125°C	LTC3035EDDB#PBF	SMD 155-6263	2.610	2.320	2.090	1.750
MAX	16/QSOP	to 5.05		to 5		-40°C to 85°C	MAX1708EEE+	SMD 167-3188	7.050	5.040	3.920	3.530
MAX	16/SOIC	to 5		to 5		to	MAX1709ESE+	SMD 167-3189	8.290	5.920	4.610	4.140
MAX	10/UMAX	to 5		to 20		-40°C to 85°C	MAX1791EUB+	SMD 167-3193	4.830	3.450	2.680	2.410
MAX	8/UMAX	to 5		to 5.5		-40°C to 85°C	MAX1795EUA+	SMD 167-3194	7.580	5.410	4.210	3.790
LT	16/SOIC	1.2 to 20	–	-20 to 20	0.4	0°C to 125°C	LT1579CS#PBF	127-3595	5.240	4.760	3.990	– –
LT	8/SOIC	1.2 to 20	–	-20 to 20	0.4	0°C to 125°C	LT1579CS8#PBF	127-3597	4.720	4.280	3.590	– –
NSC	8/MSOP	1.8 to 2.77	2	2.5 to 6	0.12	-40°C to 85°C	LP3982IMM - ADJ	SMD 119-7407	0.630	0.360	0.290	– –
MAX	8/MicroMax	2.0 to 5.5		1.0 to 5.5		-40°C to 85°C	MAX1796EUA+	NEW SMD 160-6627	5.360	4.290	3.900	3.570
LT	8/SOIC	3.8 to 19.5	–	4.3 to 20	0.5	0°C to 125°C	LT1521CS8	SMD 641-236	2.840	2.300	1.980	– –
LT	8/SOIC	3.8 to 19.5	–	4.3 to 20	0.5	0°C to 125°C	LT1521CS8#PBF	SMD 956-0599	3.900	2.210	1.920	– –
0.35 A												
MAX	10/microMax	to 60		2.7 to 5.5		-40°C to 85°C	MAX1698AEUB+	NEW SMD 159-3324	2.500	1.950	1.750	1.470
NSC	8/eMSOP	0.45 to 27	–	4.5 to 30	–	-40°C to 125°C	LM3407MY	NEW SMD 155-2435	1.690	1.470	1.170	0.990
MAX	8/SOIC	1.25 to 16		2.7 to 16.5		-40°C to 85°C	MAX1658ESA+	NEW SMD 159-3317	3.330	2.590	2.330	1.940
MAX	8/SOIC	1.25 to 16		2.7 to 16.5		-40°C to 85°C	MAX1659ESA+	NEW SMD 159-3318	3.330	2.590	2.330	1.940
MAX	28/TSSOP	to 2.5		to 5.5		-40°C to 85°C	MAX1945REUI+	NEW SMD 167-3195	8.950	6.390	4.970	4.470
0.4 A												
MICR	8/SO	to 5	–	to	350	-40°C to 125°C	MIC29204YM	NEW SMD 155-6709	2.670	1.960	1.600	– –
TI	5/SOT-23	1.2 to 5.5	2	1.7 to 5.5	0.075	-40°C to 85°C	TPS73601DBVTG4	SMD 120-7343	1.100	1.010	0.860	– –
TI	6/SOT-223	1.2 to 5.5	2	1.7 to 5.5	0.075	-40°C to 85°C	TPS73601DCQG4	SMD 120-7344	1.110	0.940	0.840	– –
0.45 A												
MAX	28/QSOP	to 5.05		to 24		-40°C to 85°C	MAX1999EEI+	NEW SMD 167-3196	10.710	7.650	5.950	5.360
0.5 A												

RL Re-reeling available

Mftr.	Pins/Pkg	Output Voltage Range (V)	Output Tolerance (%)	Input Voltage Range (V)	Dropout Voltage (V)	Operating Temp. Range	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+
0.5 A												
LT	16/DFN	to		to 10	0.16	-40°C to 125°C	LT3021EDH#PBF	NEW SMD 166-3547	4.120	3.190	2.550	2.130
ADI	8/SOIC	to 10		to 11	0.2	-40°C to 85°C	ADP3334ARZ	NEW SMD 166-1069	1.650	1.290	1.050	0.960
LT	5/D2PAK	to		to 20	0.5	0°C to 70°C	LT1175CQ#PBF	NEW SMD 166-3389	6.050	4.540	3.630	3.030
TI	14/SOIC	to 30		to 12		to	TL497ACD..	NEW SMD 164-8666	0.680	0.550	0.460	0.410
TI	4/SOT-223	to 37		to 40		to	LM317MDCY.	NEW SMD 164-8658	0.340	0.280	0.240	0.210
NSC	8/SOIC	to 57	–	to 60	–	-40°C to 125°C	LM2594HVM-ADJ/NOPB	NEW 156-4718	3.790	3.100	2.550	2.110
MAX	8/SOIC	to		to 76		-40°C to 125°C	MAX5033DASA+	NEW SMD 167-3197	5.930	4.230	3.300	2.960
MAX	8/SOIC	to 5		to 16.5		-40°C to 85°C	MAX608ESA+	NEW SMD 167-3198	4.360	3.120	2.420	2.180
NSC	8/SOIC	to 3.3		to 40		to	LM2671M-3.3/NOPB	NEW SMD 168-5779	2.750	2.270	1.850	1.700
NSC	8/PSOP	to		to 42		to	LM22674MRE-ADJ/NOPB	NEW SMD 168-5802	3.980	3.270	2.670	2.460
NSC	5/SOT-223	to 9		to 10	250	to	LP38693MP-ADJ/NOPB	NEW SMD 168-5718	1.050	0.860	0.710	0.650
NSC	6/LLP	to		to 10	210	to	LP8345CLD-ADJ/NOPB	NEW SMD 168-5745	0.960	0.790	0.650	0.590
NSC	8/PSOP	to		to 42		to	LM22671MRE-ADJ/NOPB	NEW SMD 168-5795	2.620	2.150	1.760	1.610
NSC	6/LLP	to 9		to 10	250	to	LP38693SD-ADJ/NOPB	NEW SMD 168-5719	1.050	0.860	0.710	0.650
LT	8/SOIC	to	1.5	to 25	0.1	0°C to 125°C	LT1175CS8#PBF	SMD 127-3579	5.480	3.100	2.310	– –
LT	8/DIP	-19.5 to -4.5	0.5	-20 to -5	0.5	0°C to 70°C	LT1175CN8#PBF	956-0220	4.730	2.670	1.960	– –
LT	8/DIP	-19.5 to -4.5	0.5	-20 to -5	0.5	0°C to 125°C	LT1175CN8-ADJ#PBF	956-0238	4.440	3.210	2.550	– –
LT	8/DIP	-19.5 to -4.5	0.5	-20 to -5	0.5	-40°C to 125°C	LT1175IN8#PBF	113-6617	3.920	2.400	2.110	– –
TI	8/SOIC	-15 to -1.25	2.5	-16 to -1.45	0.25	-40°C to 85°C	UCC284DP-ADJ	SMD 110-6066	5.000	3.400	2.740	– –
TI	8/SOIC	-15 to -1.25	2.5	-15 to -3.5	0.25	0°C to 70°C	UCC384DP-ADJG4	SMD 120-7250	2.910	2.420	2.090	– –
NSC	8/PSOP	0.2 to 7	–	6 to 42	–	-40°C to 125°C	LM3402MR/NOPB	NEW SMD 156-4796	2.340	1.910	1.570	1.300
LT	8/SOIC	0.2 to 9.85	–	0.9 to 10	0.16	-40°C to 125°C	LT3021ES8#PBF	SMD 127-3637	4.250	2.580	2.040	– –
MCHIP	5/SOT-223	0.8 to 5	–	to 6	210	-40°C to 125°C	MCP1825T-ADJE/DC	NEW SMD 157-8351	1.180	0.890	0.700	– –
ADI	8/MSOP	0.8 to 5	2	2.5 to 5.5	0.25	-40°C to 125°C	ADP1715ARMZ	SMD 146-1508	1.360	1.130	0.900	0.840
ST	3/TO-252 (D-Pak)	1.2 to 37	–	to 41.2	–	-40°C to 125°C	LM217MDT	SMD 109-5399	0.510	0.480	0.430	0.370
ST	3/TO-220	1.2 to 37	–	to 41.2	–	0°C to 125°C	LM317MT	109-5401	0.750	0.550	0.420	0.340
TI	8/SOIC	1.2 to 9.75	2	2.47 to 10	0.146	-40°C to 125°C	TPS73001QD	SMD 845-8294	2.110	1.440	1.070	– –
TI	6/SOT-223	1.2 to 5.5	3	2.7 to 5.5	0.105	-40°C to 85°C	TPS79501DCQG4	SMD 120-7353	1.500	1.250	1.120	– –
TI	8/SOIC	1.2 to 5.5	2	2.7 to 10	0.169	-40°C to 125°C	TPS77601DG4	SMD 123-5041	1.140	0.920	0.760	0.660
TI	20/HTSSOP	1.2 to 5.5	2	2.7 to 10	0.169	-40°C to 125°C	TPS77601PWPG4	SMD 123-4951	0.800	0.640	0.530	0.500
LT	12/DFN	1.22 to 20	1	-20 to 20	0.3	-40°C to 125°C	LT1763CDE#PBF	SMD 127-3613	3.800	2.490	2.080	– –
LT	8/SOIC	1.22 to 20	1	-20 to 20	0.3	-40°C to 125°C	LT1763CS8#PBF	SMD 127-3614	3.900	2.200	1.590	– –
TI	8/SOIC	1.2 to 9.75	2	1.3 to 11	0.032	-40°C to 125°C	TPS7101QDG4	SMD 123-4710	2.040	1.660	1.360	1.180
LT	16/TSSOP	1.22 to 20	1	1.8 to 20	0.3	-40°C to 125°C	LT3024EFE#PBF	SMD 127-3639	4.630	2.820	2.220	– –
LT	16/TSSOP	1.22 to 20	1	1.8 to 20	0.3	-40°C to 125°C	LT3028EFE#PBF	SMD 127-3641	4.710	3.050	2.570	– –
TI	20/HTSSOP	1.22 to 5.5	2	2.7 to 6	0.17	-40°C to 125°C	TPS70102PWPG4	SMD 123-4841	2.440	1.990	1.590	1.410
NSC	14/WSOIC	1.23 to 57	–	to 60	–	-40°C to 125°C	LM2574HVM-ADJ/NOPB	NEW SMD 156-4787	2.980	2.420	2.000	1.660
MICR	8/SOIC	1.24 to 20	–	to 30	–	-40°C to 125°C	MIC5239YM	NEW SMD 155-6759	1.710	1.370	1.250	– –
NSC	6/LLP	1.25 to 9	–	2.7 to 10	0.25	-40°C to 125°C	LP38691SD-ADJ	SMD 131-2620	1.080	0.830	0.680	0.640
MAX	8/SOIC	1.25 to 11.5	5	2.7 to 11.5	0.48	0°C to 70°C	MAX604CSA+	SMD 118-7941	3.970	2.730	1.840	– –
MAX	8/SOIC	1.25 to 11.5	5	2.7 to 11.5	0.48	-40°C to 85°C	MAX604ESA+	SMD 118-7985	4.140	3.390	2.350	– –
TI	6/SOT-23	1.295 to 5.5	2	2.1 to 15	0.115	-40°C to 85°C	REG103GA-AG4	SMD 120-7256	2.850	2.360	2.150	– –
TI	8/SOIC	1.5 to 5.5	2	2.7 to 10	0.169	-40°C to 125°C	TPS77501D	SMD 846-1619	1.930	1.440	1.040	– –
SIP	5/SOT-23	2.5 to 3.3	2	2.7 to 5.5	0.18	-40°C to 125°C	SP6205EM5-L-ADJ	SMD 938-8346	1.520	1.250	1.040	0.970
SIP	8/DFN	2.5 to 3.3	2	2.7 to 5.5	0.18	-40°C to 125°C	SP6205ER-L-ADJ	SMD 938-8400	1.520	1.250	1.040	0.970
0.525 A												
MAX	8/SOIC	to		to 16.5		0°C to 70°C	MAX630CSA+	NEW SMD 167-3199	6.770	4.840	3.760	3.380
0.6 A												
MAX	8/SOIC	to 5		to 16.5		0°C to 70°C	MAX631ACSA+	NEW SMD 167-3200	6.040	4.310	3.350	3.020
SIP	5/TSOT-23	0.6 to 5	–	2.5 to 5.5	–	-40°C to 85°C	SP6659EK1-L	SMD 131-7827	1.830	1.400	1.170	1.100
0.7 A												
LT	5/D2PAK	to 30		to 20	0.4	-40°C to 125°C	LT1129IQ#PBF	NEW SMD 166-3376	5.450	4.090	3.270	2.720
LT	8/SOIC	to 30		to 20	0.4	-40°C to 125°C	LT1129IS8#PBF	NEW SMD 166-3378	5.310	3.980	3.190	2.660
LT	5/TO-263 (D2-Pak)	3.3 to 5	1	-0.6 to 6.5	0.4	0°C to 125°C	LT1129CQ#PBF	SMD 127-3573	4.600	2.610	1.960	– –
LT	8/SOIC	3.3 to 5	1	-0.6 to 6.5	0.4	0°C to 125°C	LT1129CS8#PBF	SMD 127-3574	4.500	2.550	1.960	– –
LT	5/TO-220	3.8 to 30	–	3.8 to 30	0.015	0°C to 125°C	LT1129CT#PBF	956-0092	4.020	2.270	1.730	– –
0.75 A												
MAX	8/DIP	to 12		to 16.5		0°C to 70°C	MAX632ACPA+	NEW 167-3201	5.840	4.180	3.240	2.920
NSC	6/TSOT	to 16		to 18		to	LM2736XMK/NOPB	NEW SMD 168-5631	2.800	2.310	1.890	1.730
0.8 A												
LT	3/SOT-223	to		to 10	1	0°C to 125°C	LT1117CST#PBF	NEW SMD 166-3354	3.670	2.750	2.200	1.840
NSC	5/SOT-223	to		to 7	240	to	LP3874EMP-ADJ/NOPB	NEW SMD 168-5724	2.020	1.660	1.360	1.250
NSC	8/LLP	to		to 6	475	to	LP3878SD-ADJ/NOPB	NEW SMD 168-5758	1.700	1.410	1.140	1.050
NSC	8/SOP	0.56 to 1.5	1.5	4.5 to 5.5	0.075	-40°C to 125°C	LP38841MR-ADJ	SMD 128-6789	3.380	2.760	2.350	2.120
NSC	8/SOP	1 to 5.5	1	2.5 to 16	0.475	-40°C to 125°C	LP3878MR-ADJ	SMD 128-6784	1.390	1.140	0.970	0.870
LT	3/TO-263 (D2-Pak)	1.2 to 10	1	2.2 to 15	1	0°C to 125°C	LT1117CM#PBF	SMD 127-3562	3.580	2.340	1.950	– –
NSC	5/TO-263 (D2-Pak)	1.216 to 6.76	–	2.5 to 7	0.24	-40°C to 125°C	LP3874ES-ADJ	SMD 818-8700	2.610	1.930	1.580	– –
ST	3/TO-252 (D-Pak)	1.25 to 15	1	2.35 to 15	1.1	0°C to 125°C	LD1117DT	SMD 109-5395	0.610	0.400	0.330	0.290
ST	3/SOT-223	1.25 to 15	1	2.35 to 15	1.1	0°C to 125°C	LD1117S	SMD 113-1999	1.070	0.790	0.640	– –
ST	3/SOT-223	1.25 to 15	1	2.35 to 15	1.1	0°C to 125°C	LD1117STR-E	SMD 120-2824	1.030	0.780	0.630	– –
ST	3/TO-220	1.25 to 15	1	1.25 to 15	1.1	0°C to 125°C	LD1117V	975-5829	1.060	0.790	0.590	– –
NSC	3/TO-252 (D-Pak)	1.25 to 10	1	1.25 to 15	1.2	0°C to 125°C	LM1117DT-ADJ	SMD 948-6267	1.090	0.830	0.680	– –
NSC	3/SOT-223	1.25 to 10	1	1.25 to 15	1.2	0°C to 125°C	LM1117MP-ADJ	SMD 977-8187	0.720	0.550	0.480	– –
NSC	3/TO-263 (D2-Pak)	1.25 to 10	1	1.25 to 15	1.2	0°C to 125°C	LM1117S-ADJ	SMD 822-1910	0.440	0.430	0.420	– –
NSC	3/TO-220	1.25 to 10	1	1.25 to 15	1.2	0°C to 125°C	LM1117T-ADJ	948-5805	1.170	0.970	0.820	– –
BB	3/SOT-223	1.25 to 13.5	1	3.8 to 15	1.2	0°C to 125°C	REG1117	SMD 109-7566	2.280	1.500	1.200	0.770
TI	2/TO-252 (D-Pak)	1.5 to 5.5	–	2.7 to 15	1.3	0°C to 125°C	TLV1117CKTPR	123-6559	0.380	0.260	0.197	0.166
NSC	5/TO-263 (D2-Pak)	1.8 to 5	1.5	2.5 to 7	0.24	-40°C to 85°C	LP3964ES-ADJ	SMD 948-6534	2.570	1.740	1.420	– –
LT	8/SOIC	2.5 to 5	–	3.5 to 15	1	0°C to 70°C	LT1118CS8#PBF	SMD 127-3563	3.250	1.990	1.640	– –
MAX	8/microMax	2.6 to 12	–	2.6 to 5.5	–	-40°C to 85°C	MAX1790EUA+	NEW SMD 159-3326	4.510	3.520	3.160	2.630
NSC	5/SOT-23	5 to 28	–	2.7 to 14	–	-40°C to 125°C	LM27313XMF/NOPB	NEW SMD 156-4771	1.180	0.960	0.790	0.650

448758

Mftr.	Pins/Pkg	Output Voltage Range (V)	Output Tolerance (%)	Input Voltage Range (V)	Dropout Voltage (V)	Operating Temp. Range	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+
1 A												
MICR	8/SOP	to 1.23		to 34		-40°C to 125°C	MIC4690YM	NEW SMD 155-6722	2.700	2.410	2.170	– –
NSC	10/MSOP	to		6 to 60		-40°C to 125°C	LM5022MM/NOPB	NEW SMD 156-4781	2.340	1.910	1.570	1.300
NSC	8/SOIC	to		3.1 to 75		-40°C to 125°C	LM5001MA/NOPB	NEW SMD 156-4779	2.940	2.390	1.960	1.630
NSC	8/MDIP	to 37		6.5 to 40		-40°C to 125°C	LM2675N-ADJ/NOPB	NEW 156-4758	3.290	2.690	2.210	1.840
MICR	8/SOIC	to 6		to 6	0.28	-40°C to 125°C	MIC37102YM	NEW SMD 166-3089	1.200	0.900	0.720	0.650
MAX	8/SOIC	to 12		to 16.5		0°C to 70°C	MAX632ACSA+	NEW SMD 167-3202	6.040	4.310	3.350	3.020
MAX	8/SOIC	to -15		to 16.5		0°C to 70°C	MAX634CSA+	NEW SMD 167-3203	6.110	4.360	3.390	3.050
MAX	8/SOIC	to 5		to 16.5		0°C to 70°C	MAX638ACSA+	NEW SMD 167-3206	6.040	4.310	3.350	3.020
NSC	3/SOT-223	to 13.8		to 15	1.2	to	LMS8117AMP-ADJ/NOPB	NEW SMD 168-5597	0.770	0.630	0.510	0.480
NSC	8/PSOP	to		to 42		to	LM22675MRE-ADJ/NOPB	NEW SMD 168-5804	3.180	2.620	2.140	1.960
NSC	6/LLP	to		to 10	450	to	LP38692SD-ADJ/NOPB	NEW SMD 168-5717	1.090	0.890	0.730	0.660
NSC	6/LLP	to		to 10	540	to	LP8340CLD-ADJ/NOPB	NEW SMD 168-5744	0.950	0.790	0.640	0.580
NSC	8/SOIC	to		to 75		to	LM5001MA/NOPB.	NEW SMD 168-5525	2.890	2.250	1.840	1.690
NSC	8/PSOP	to		to 42		to	LM22672MRE-ADJ/NOPB	NEW SMD 168-5797	3.300	2.720	2.230	2.030

RL Re-reeling available

Farnell

RoHS Compliant Non-compliant

Adjustable Voltage Regulators - continued

Mftr.	Pins/Pkg	Output Voltage Range (V)	Output Tolerance (%)	Input Voltage Range (V)	Dropout Voltage (V)	Operating Temp. Range	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+
1 A												
NSC	10/LLP	to 70		to 75		to	LM5010ASD/NOPB	NEW SMD 168-5556	4.460	3.460	2.830	2.590
TI	3/SOT-23	to		to		125°C to -40°C	REF3033AIDBZTG4	SMD 123-4875	1.280	0.970	0.790	0.650
NSC	5/TO-263 (D2-Pak)	-24 to -3		-26 to 0.3	0.6	-40°C to 125°C	LM2991S	SMD 949-4472	2.520	2.070	1.890	– –
NSC	5/TO263	-24 to -3		to -26	0.6	-40°C to 125°C	LM2991S/NOPB	NEW SMD 156-4648	2.160	1.710	1.390	1.230
NSC	5/TO-220	-24 to -3		-26 to 0.3	0.6	-40°C to 125°C	LM2991T	948-5929	2.770	2.200	1.790	1.590
MAX	10/MicroMAX	0.5 to 3.4		1.425 to 3.6	0.2	-40°C to 85°C	MAX8517EUB+	SMD 142-2360	2.240	1.570	1.260	1.160
MAX	10/MicroMAX	0.5 to 3.4		1.425 to 3.6	0.2	-40°C to 85°C	MAX8517EUB+	SMD 142-2360	2.240	1.570	1.260	1.160
FCH	6/MLP	0.8 to 5.5		2.5 to 5.5		-40°C to 85°C	FAN2001MPX	NEW SMD 156-4496	1.020	0.840	0.740	0.600
MAX	16/TSSOP	0.8 to 5		2.7 to 5.5	0.2	-40°C to 85°C	MAX8869EUE18+	SMD 142-2365	3.170	2.250	1.820	1.650
MAX	16/TSSOP	0.8 to 5		2.7 to 5.5	0.2	-40°C to 85°C	MAX8869EUE25+	SMD 142-2366	3.170	2.250	1.820	1.650
MAX	16/TSSOP	0.8 to 5		2.7 to 5.5	0.2	-40°C to 85°C	MAX8869EUE33+	SMD 142-2367	3.170	2.250	1.820	1.650
MAX	16/QSOP	1.1 to 5.5		3 to 5.5	0.25	-40°C to 85°C	MAX1742EEE+	NEW SMD 160-6624	4.810	3.850	3.490	3.210
TI	20/HTSSOP	1.2 to 5.5	2	2.7 to 10	0.23	-40°C to 125°C	TPS76801QPWPG4	SMD 123-4714	1.460	1.190	0.950	0.850
TI	5/TO-263 (D2-Pak)	1.2 to 5.5	2	2.7 to 5.5	0.2	-40°C to 125°C	TPS79601KTTT	SMD 113-5419	2.610	1.780	1.270	1.140
NSC	3/SOT-223	1.2 to 37	1	4.2 to 40	2	-40°C to 125°C	LM317AEMP	SMD 977-9272 RL	1.300	0.770	0.620	– –
TI	8/SOIC	1.2 to 5.5	2	2.7 to 10	0.23	-40°C to 125°C	TPS76801QD	SMD 846-1473	1.550	1.300	0.980	– –
TI	6/SOT-223	1.2 to 5.5	2	2.7 to 5.5	0.2	-40°C to 125°C	TPS79601DCQG4	SMD 120-7356	1.530	1.270	1.180	– –
NSC	8/MDIP	1.21 to 37	1.5	8 to 40		-40°C to 125°C	LM2675N-ADJ	149-5085	2.360	1.990	1.610	1.450
TI	6/SOT-223	1.22 to 5.5	2	1.8 to 6	0.17	-40°C to 125°C	TPS72501DCQG4	SMD 120-7338	1.390	1.150	1.070	– –
TI	5/TO-263 (D2-Pak)	1.22 to 5.5	2	1.8 to 6	0.17	-40°C to 125°C	TPS72501KTTT	SMD 113-5424	2.110	1.720	1.400	1.220
NSC	5/TO-220	1.23 to 37		7 to 40		-40°C to 125°C	LM2575T-ADJ/NOPB	NEW 156-4631	2.110	1.730	1.420	1.190
ST	3/TO-220	1.25 to 8.1	2	2.35 to 10	1.1	0°C to 125°C	LD1117AV	108-7163	0.870	0.780	0.550	0.500
NSC	5/SOT-223	1.25 to 9	2.5	2.7 to 10	0.45	-40°C to 125°C	LP38692MP-ADJ	SMD 100-8058	1.160	0.950	0.760	– –
NSC	6/LLP	1.25 to 9		2.7 to 10	0.45	-40°C to 125°C	LP38690SD-ADJ	SMD 131-2619	1.270	0.850	0.700	0.660
TI	6/SOT-233	1.295 to 5.5	2	2.1 to 15	0.115	-40°C to 85°C	REG104GA-AG4	SMD 120-7262	3.130	2.600	2.270	– –
TI	8/SOIC	1.5 to 5.5	2	2.7 to 10	0.23	-40°C to 125°C	TPS76701QD	SMD 846-1449	1.660	1.380	1.120	– –
TI	20/HTSSOP	1.5 to 5.5	2	2.7 to 10	0.23	-40°C to 125°C	TPS76701QPWP	SMD 113-5431	1.800	1.460	1.180	1.060
TI	28/HTSSOP	1.5 to 5.5	2	3.65 to 10	0.35	-40°C to 125°C	TPS767D301PWP	SMD 113-5437	4.010	2.730	2.030	1.930
TS	3/SOT-223	1.8 to 5.5	2	1.3 to 7	1.5	-20°C to 85°C	TS1117CW-ADJ	SMD 720-8367	1.360	0.670	0.450	– –
NSC	5/TO-220	2 to 20		-15 to 26	0.5	0°C to 125°C	LM2941CT	948-9371	1.280	1.050	0.970	0.940
NSC	5/TO-263 (D2-Pak)	2 to 20		-15 to 26	0.5	-40°C to 85°C	LM2941S	SMD 949-4456	1.780	1.210	0.990	– –
NSC	5/TO-220	2 to 20		-15 to 26	0.5	-40°C to 125°C	LM2941T	759-2619	1.320	1.090	0.970	– –
NSC	5/TO-220	5 to 20		to 26	0.5	-40°C to 125°C	LM2941T/NOPB	NEW 156-4645	1.110	0.880	0.700	0.630
FCH	3/SOT-223	5 to 12		to 18	1.1	0°C to 125°C	FAN1117ASX	NEW SMD 156-4485	0.660	0.500	0.390	0.330
1.1 A												
LT	8/DFN	to 19.5		to 20	0.31	-40°C to 125°C	LT1965EDD#PBF	NEW SMD 166-3531	3.340	2.670	2.130	1.780
LT	8/MSOP	to 19.5		to 20	0.31	-40°C to 125°C	LT1965EMS8E#PBF	NEW SMD 166-3532	3.440	2.750	2.200	1.840
LT	8/DFN	to 19.5		to 20	0.31	-40°C to 125°C	LT1965IDD#PBF	NEW SMD 166-3533	3.840	3.060	2.450	2.040
LT	8/MSOP	to 19.5		to 20	0.31	-40°C to 125°C	LT1965IMS8E#PBF	NEW SMD 166-3534	3.950	3.170	2.530	2.110
LT	8/DFN	to		to 36	0.3	-40°C to 125°C	LT3080EDD#PBF	NEW SMD 166-3551	3.440	2.670	2.130	1.780
LT	8/MSOP	to		to 36	0.3	-40°C to 125°C	LT3080EMS8E#PBF	NEW SMD 166-3552	3.550	2.750	2.200	1.840
LT	3/SOT-223	to		to 36	0.3	-40°C to 125°C	LT3080EST#PBF	NEW SMD 166-3553	3.310	2.570	2.050	1.710
LT	10/DFN	0.6 to 5	0.5	2.5 to 5.5		-40°C to 85°C	LTC3407IDD-2#PBF	SMD 143-2765	6.410	3.890	3.070	– –
LT	10/MSOP	0.6 to 5	0.5	2.5 to 5.5		-40°C to 85°C	LTC3407IMSE-2#PBF	SMD 143-2766	6.410	3.890	3.070	– –
1.25 A												
MICR	5/TO-263	1.24 to 26		to 60	0.35	-40°C to 125°C	MIC2941AWU	NEW SMD 155-6739	1.750	1.550	1.270	– –
MICR	5/TO-220	1.24 to 26		to 60	40	-40°C to 125°C	MIC2941AWT	NEW 155-6737	2.090	1.860	1.520	– –
NSC	10/LLP	2.5 to 37		8 to 40		-40°C to 125°C	LM34914SD	SMD 131-3856	2.890	2.290	1.980	1.630
1.5 A												
MAX	8/SOIC	to 5		to 6		-40°C to 85°C	MAX856ESA+	NEW SMD 167-3228	4.850	3.460	2.690	2.420
LT	3/D2PAK	to		to 15	1	-40°C to 125°C	LT1086IM#PBF	NEW SMD 166-3351	4.620	3.460	2.770	2.300
LT	10/DFN	to 2.6		to 5.5	0.1	-40°C to 125°C	LTC3026EDD#PBF	NEW SMD 166-3705	4.010	3.110	2.490	2.070
LT	10/MSOP	to 2.6		to 5.5	0.1	-40°C to 125°C	LTC3026EMSE#PBF	NEW SMD 166-3706	4.010	3.110	2.490	2.070
FCH	3/TO-220	to 57		to		0°C to 125°C	LM317AHVT	NEW 156-4497	0.340	0.250	0.210	0.165
NSC	3/TO-220	to		to 29	1.3	to	LM1086IT-ADJ/NOPB	NEW 168-5520	1.740	1.350	1.110	1.020
NSC	8/LLP	to 5		to 5.5	220	to	LP38500SD-ADJ/NOPB	NEW SMD 168-5573	1.270	0.980	0.810	0.740
NSC	5/TO-263	to 5		to 5.5	220	to	LP38500TS-ADJ/NOPB	NEW SMD 168-5574	1.490	1.150	0.940	0.870
NSC	8/LLP	to 5		to 5.5	220	to	LP38502SD-ADJ/NOPB	NEW SMD 168-5575	1.370	1.070	0.880	0.800
NSC	5/TO-263	to		to 7	240	to	LP3855ES-ADJ/NOPB	NEW SMD 168-5706	3.770	3.100	2.540	2.320
NSC	8/LLP	to 18		to 20		to	LM2738XSD/NOPB	NEW SMD 168-5775	3.600	2.960	2.420	2.220
NSC	8/LLP	to 18		to 20		to	LM2738YSD/NOPB	NEW SMD 168-5777	3.020	2.480	2.020	1.860
SIP	3/TO-263 (D2-Pak)	to		to 12	1.3	0°C to 125°C	SP1086V1-L	SMD 131-7812	0.770	0.580	0.490	0.460
SIP	5/TO-263 (D2-Pak)	to		to	0.39	-40°C to 125°C	SPX29152T5-L	SMD 131-7835	1.800	1.380	1.160	1.090
SIP	5/TO-220	to		to	0.39	-40°C to 125°C	SPX29152U5-L	SMD 131-7837	1.800	1.380	1.160	1.090
SIP	5/TO-263 (D2-Pak)	to		to	0.39	-40°C to 125°C	SPX29153T5-L	SMD 131-7838	1.780	1.370	1.160	1.090
SIP	3/TO-220	to		to 12	1.3	0°C to 125°C	SP1086V-L	131-7813	0.740	0.560	0.470	0.450
ST	3/D2PAK	to 37		to 40		0°C to 125°C	LM317D2T-TR	NEW SMD 156-4300	0.500	0.410	0.350	0.290
FCH	3/TO-220	-37 to -1.2		-41.5 to +37		0°C to 125°C	KA337TU	101-3829	0.660	0.460	0.350	– –
FCH	3/TO-220	-37 to -1.2		-41.5 to +37		0°C to 125°C	KA337TU.	347-6900▲	0.380	0.280	0.200	– –
TI	3/TO-220	-37 to -1.2	0.3	-40 to -4.2	3	-25°C to 150°C	LM237KC	146-1048	0.950	0.730	0.530	0.490
TI	3/TO-220	-37 to -1.2	0.3	-40 to -4.2	3	0°C to 125°C	LM337KC	146-1052	0.420	0.350	0.290	0.270
ON	3/TO-263 (D2-Pak)	-37 to -1.2	4	-41.2 to -3.2	2.25	0°C to 125°C	LM337D2TG	SMD 966-5005	1.860	1.300	0.760	0.540
NSC	3/SOT-223	-37 to -1.2		-50 to -4.2	1.9	-40°C to 125°C	LM337IMP	SMD 977-9213 RL	1.270	0.870	0.720	– –
ST	2/TO-3	-37 to -1.2	2	-41.2 to -1.2		0°C to 125°C	LM337K	109-4253	7.600	5.390	4.030	3.280
NSC	2/TO-3	-37 to -1.2		-50 to -4.2	1.9	-40°C to 125°C	LM337KSTEEL	119-7399	17.880	17.370	16.910	16.460
ST	3/TO-220	-37 to -1.2	2	-41.2 to -1.2		0°C to 125°C	LM337SP	975-6035	2.050	1.460	1.160	0.910
ON	3/TO-220	-37 to -1.2	4	-41.2 to -3.2	2.25	0°C to 125°C	LM337TG	121-1104	0.850	0.570	0.410	– –
ADI	8/PDIP	-5 to 12	5	2 to 30		0°C to 70°C	ADP1111ANZ	143-9036	3.020	2.450	2.000	– –
ADI	8/SOIC	-5 to 12	5	2 to 30		0°C to 70°C	ADP1111ARZ	SMD 143-9040	2.870	2.350	1.920	– –
NSC	8/PSOP	0.2 to 40		6 to 42		-40°C to 125°C	LM3404MR/NOPB	NEW SMD 156-4784	2.830	2.320	1.900	1.580
NSC	8/SOP	0.56 to 1.5	1.5	4.5 to 5.5	0.115	-40°C to 125°C	LP38842MR-ADJ	SMD 128-6792	2.470	2.010	1.700	1.630
ON	6/DFN6	0.7 to 7.7	0.03	2.5 to 18	0.9	-40°C to 125°C	NCP565MNADJT2G	SMD 136-9744	0.680	0.520	0.450	0.390
LT	5/TO-263 (D2-Pak)	1.2 to 20		-20 to 20	0.34	-40°C to 125°C	LT1963AEQ#PBF	SMD 127-3625	5.200	2.940	2.260	– –
LT	8/SOIC	1.2 to 20		-20 to 20	0.34	-40°C to 125°C	LT1963AES8#PBF	SMD 127-3627	4.250	2.400	1.770	– –
LT	5/TO-220	1.2 to 20		-20 to 20	0.34	-40°C to 125°C	LT1963AET#PBF	127-3631	5.200	2.940	2.260	– –
LT	5/TO-263 (D2-Pak)	1.2 to 20		-20 to 20	0.34	-40°C to 125°C	LT1963EQ#PBF	SMD 127-3634	5.200	2.940	2.260	– –
FCH	3/TO-220	1.2 to 37		3.85 to 41.5	2.65	0°C to 125°C	KA317TU	101-3827	0.660	0.460	0.330	– –
FCH	3/TO-220	1.2 to 37		3.85 to 41.5	2.65	0°C to 125°C	KA317TU.	347-6870▲	0.300	0.200	0.146	– –
NSC	3/TO-39	1.2 to 37		4.2 to 60	2.2	0°C to 125°C	LM117H	121-6176	10.040	6.810	5.570	5.250
NSC	2/TO-3	1.2 to 37		4.2 to 60	2.2	0°C to 125°C	LM117K STEEL	121-6177	20.440	15.310	14.920	14.540
ST	3/TO-220	1.2 to 37		1.2 to 41.2		-40°C to 85°C	LM217T	975-6612	1.420	0.950	0.780	0.700
ST	3/TO-220	1.2 to 37		1.2 to 41.2		-40°C to 85°C	LM217T.	702-547▲	0.630	0.420	0.300	0.220
NSC	3/TO-252 (D-Pak)	1.2 to 37	1	4.2 to 40	2	-40°C to 125°C	LM317AMDT	SMD 949-3301	0.990	0.760	0.620	– –
NSC	3/TO-220	1.2 to 37	1	4.2 to 40	2	-40°C to 125°C	LM317AT	948-9380	1.230	0.740	0.580	0.460
ON	3/TO-220	1.2 to 37	4	1.15 to 41.2	1.95	-40°C to 125°C	LM317BTG	121-4459	0.660	0.450	0.320	– –
ST	3/TO-263 (D2-Pak)	1.2 to 37	4	to 41.2		0°C to 125°C	LM317D2T	SMD 109-5400	0.880	0.580	0.480	0.450
ON	3/TO-263 (D2-Pak)	1.2 to 37	4	1.15 to 41.2	1.95	0°C to 125°C	LM317D2TG	SMD 966-4998	1.300	0.790	0.570	0.370
NSC	3/SOT-223	1.2 to 37	1	4.2 to 40	2	0°C to 125°C	LM317EMP	SMD 332-7164 RL	0.630	0.520	0.410	– –
NSC	2/TO-3	1.2 to 57		4.2 to 60	2.25	0°C to 125°C	LM317HVKSTEEL	119-7398	21.100	18.020	17.540	16.810
NSC	3/TO-220	1.2 to 57		4.2 to 60	2.25	0°C to 125°C	LM317HVT	948-5716	2.030	1.130	0.900	– –
ST	2/TO-3	1.2 to 37	4	1.2 to 41.2		0°C to 125°C	LM317K	109-4246	2.520	1.870	1.330	1.140

RL Re-reeling available

Mftr.	Pins/Pkg	Output Voltage Range (V)	Output Tolerance (%)	Input Voltage Range (V)	Dropout Voltage (V)	Operating Temp. Range	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+
1.5 A												
NSC	2/TO-3	1.2 to 37		4.2 to 40	2	0°C to 125°C	LM317KSTEEL	119-7397●	19.860	15.300	14.900	14.510
ON	8/SOIC	1.2 to 37	4	1.15 to 41.2	1.95	-40°C to 85°C	LM317LDG	SMD 121-1101●	0.490	0.320	0.220	– –
NSC	3/TO-252 (D-Pak)	1.2 to 37		4.2 to 40	2	0°C to 125°C	LM317MDT	SMD 822-1928●	0.760	0.640	0.470	– –
NSC	3/TO-263 (D2-Pak)	1.2 to 37		4.2 to 40	2	0°C to 125°C	LM317S	SMD 949-4480●	1.360	0.810	0.640	– –
ST	3/TO-220	1.2 to 37	4	1.2 to 41.2		0°C to 125°C	LM317T	975-6027●	0.690	0.470	0.330	0.280
TI	6/SOT-223	1.2 to 5.5	3	2.7 to 5.5	0.305	-40°C to 125°C	TPS78601DCQG4	SMD 120-7351●	1.840	1.530	1.450	– –
NSC	5/SOT-223	1.216 to 6.62		2.5 to 7	0.38	-40°C to 125°C	LP3875EMP-ADJ	SMD 818-8688●	2.500	2.040	1.660	– –
NSC	5/TO-263 (D2-Pak)	1.216 to 6.62		2.5 to 7	0.38	-40°C to 125°C	LP3875ES-ADJ	SMD 820-7321●	3.060	2.300	1.880	– –
NSC	5/TO-220	1.216 to 6.62		2.5 to 7	0.38	-40°C to 125°C	LP3875ET-ADJ	820-7330●	1.580	1.350	1.080	– –
ST	3/TO-220	1.25 to 28	1	2.55 to 30	1.3	-40°C to 125°C	LD1086V	108-7158●	1.460	0.980	0.800	0.720
NSC	16/TSSOP-EP	1.225 to 40		6 to 42		-40°C to 125°C	LM25575MH/NOPB	NEW SMD 156-4783●	3.320	2.710	2.230	1.860
TI	14/DIP	2 to 37		9.5 to 40	3	0°C to 70°C	UA723CNG4	959-3802●	0.360	0.310	0.280	– –
TI	5/5DIP MODULE	2.5 to 12.6		7 to 36		-40°C to 85°C	PTN78000WAH	NEW 156-4908●	16.170	13.340	11.860	9.710
NSC	5/SOT-223	2.5 to 6.76		2.74 to 7	0.24	-40°C to 125°C	LP3855EMP-ADJ	SMD 818-8769●	3.380	2.300	1.840	– –
LT	3/TO-263 (D2-Pak)	2.85 to 12		1.2 to 18	0.95	0°C to 125°C	LT1086CM	SMD 573-360▲	0.920	– –	– –	– –
LT	3/TO-263 (D2-Pak)	2.85 to 12		1.2 to 18	0.95	0°C to 125°C	LT1086CM#PBF	SMD 955-9850●	4.020	2.270	1.770	– –
LT	3/TO-220	2.85 to 12		1.2 to 25	0.95	0°C to 125°C	LT1086CT#PBF	955-9868●	3.780	2.140	1.660	– –
MICR	5/TO-220	2.85 to 25.65	1	2.5 to 26	0.35	-40°C to 125°C	MIC29152WT	121-3491●	3.870	2.370	2.190	– –
1.9 A												
NSC	8/MSOP	2.2 to 17		2.2 to 12		-40°C to 125°C	LM2698MM-ADJ/NOPB	NEW SMD 156-4736●	3.580	2.920	2.390	2.000
2 A												
MAX	8/SOIC	to		to 11	0.3	-40°C to 85°C	MAX887HESA+	NEW SMD 167-3231●	5.420	3.870	3.010	2.710
MAX	8/SOIC	to 12		to 16.5		0°C to 70°C	MAX770CSA+	NEW SMD 167-3226●	4.120	2.940	2.290	2.060
MAX	8/SOIC	to 12		to 16.5		0°C to 70°C	MAX761CSA+	NEW SMD 167-3220●	5.090	3.640	2.830	2.550
MAX	8/SOIC	to 15		to 16.5		0°C to 70°C	MAX762CSA+	NEW SMD 167-3222●	5.090	3.640	2.830	2.550
LTC	50/LGA	to 10		to 36		-40°C to 85°C	LTM8023EV#PBF	NEW SMD 160-9764●	13.350	9.700	8.890	8.220
MICR	8/SOP	to 1.235		to 30		-40°C to 125°C	MIC4684YM	NEW SMD 155-6720●	2.890	2.310	1.930	– –
LTC	8/DFN	to 5.25		0.5 to 5		-40°C to 85°C	LTC3539EDCB#TRMPBF	NEW SMD 160-9734●	4.080	3.640	3.110	2.850
MAX	14/TSSOP	0.5 to 3.4		1.425 to 3.6	0.1	-40°C to 85°C	MAX8526EUD+	NEW SMD 159-3385●	2.500	1.950	1.750	1.470
MAX	14/TSSOP	0.5 to 3.4		1.425 to 3.6	0.1	-40°C to 85°C	MAX8527EUD+	NEW SMD 159-3386●	2.630	2.050	1.840	1.530
NSC	6/LLP	to 4.5		to 5.5		to	LM2832XSD/NOPB	NEW SMD 168-5577●	4.200	3.270	2.670	2.460
NSC	7/TO-263	to 57		to 60		to	LM2593HVS-ADJ/NOPB	NEW SMD 168-5516●	5.700	4.430	3.620	3.320
TI	20/HTSSOP	1.5 to 5	2	2.7 to 5	0.21	-40°C to 125°C	TPS75201QPWP	SMD 113-5441●	2.450	1.730	1.320	1.290
TI	24/HTSSOP	1.22 to 5.5	2	2.7 to 6	0.16	-40°C to 125°C	TPS70402PWPG4	SMD 123-4975●	3.830	3.090	2.510	2.120
ST	3/TO-3	23 to 25		to 40	2	0°C to 150°C	L7824CT	NEW 156-4323●	3.050	2.440	2.160	1.780
TI	8/SOIC	1.22 to 31		5.5 to 36		-40°C to 125°C	TPS5420D	NEW SMD 156-4923●	3.430	2.840	2.520	2.060
2.1 A												
NSC	5/SOT-23	to 24		to 5.5		to	LM2735XMF/NOPB	NEW SMD 168-5534●	2.650	2.060	1.690	1.540
2.5 A												
NSC	16/TSSOP	to 13		to 14		to	LM2655MTC-ADJ/NOPB	NEW SMD 168-5619●	3.180	2.620	2.140	1.960
LT	16/DFN	to		2.2 to 22		-40°C to 85°C	LT3740EDHC#PBF	SMD 132-9359●	3.480	3.100	2.750	2.430
ST	8/HSOP	1.235 to 35		to 40		-40°C to 150°C	E-L5973D013TR	NEW SMD 156-4360●	3.290	2.620	2.340	1.910
2.7 A												
NSC	3/TO-263 (D2-Pak)	1.2 to 15		2.6 to 29	1.3	0°C to 125°C	LM1086CS-ADJ	SMD 948-9975●	1.580	0.990	0.790	– –
NSC	3/TO-220	1.2 to 15		2.6 to 29	1.3	0°C to 125°C	LM1086CT-ADJ	948-9967●	1.720	1.400	1.130	– –
3 A												
MICR	3/SPAK	to 5.5		to 6	0.5	-40°C to 125°C	MIC37302WR	NEW SMD 166-3091●	3.690	3.040	2.430	2.220
MICR	5/TO-263	to 5.5		to 6	0.5	-40°C to 125°C	MIC37302WU	NEW SMD 166-3092●	2.830	2.130	1.700	1.540
MICR	28/MLF	to		to 5.5	0.85	-40°C to 125°C	MIC38300HYHL TR	NEW SMD 166-3071●	5.670	5.040	4.120	3.660
LT	5/TO-220	to 20		to 20	0.34	-40°C to 125°C	LT1764AET#PBF	NEW 166-3484●	6.980	5.230	4.190	3.500
TI	8/SOIC	to 25		to 28		-40°C to 150°C	TPS54331D	NEW SMD 164-5383●	2.360	1.750	1.320	1.180
LT	/	to		to		125°C to 0°C	LT1529CQ#PBF	NEW SMD 161-5859●	5.820	4.650	3.890	3.590
NSC	5/TO-220	to 12		to 40		to	LM2577T-ADJ/NOPB	NEW 168-5498●	5.730	4.590	3.760	3.440
NSC	7/TO-220	to 37		to 40		to	LM2670T-ADJ/NOPB	NEW 168-5622●	3.960	3.260	2.660	2.450
NSC	5/TO-263	to 37		to 40		to	LM2576S-ADJ/NOPB	NEW SMD 168-5537●	2.850	2.220	1.820	1.660
NSC	14/LLP	to 37		to 40		to	LM2676SD-ADJ/NOPB	NEW SMD 168-5541●	3.990	3.100	2.540	2.320
NSC	3/TO-263	to		to 7	1.15	to	LMS1587IS-ADJ/NOPB	NEW SMD 168-5591●	2.130	1.750	1.430	1.310
NSC	8/PSOP	to		to 42		to	LM22670MRE-ADJ/NOPB	NEW SMD 168-5791●	3.980	3.270	2.670	2.460
NSC	7/TO-263	to		to 42		to	LM22670TJE-ADJ/NOPB	NEW SMD 168-5793●	3.980	3.270	2.670	2.460
NSC	8/MSOP	to		to 42		to	LM22673MRE-ADJ/NOPB	NEW SMD 168-5798●	3.980	3.270	2.670	2.460
NSC	7/TO-263	to		to 42		to	LM22673TJE-ADJ/NOPB	NEW SMD 168-5800●	3.980	3.270	2.670	2.460
NSC	8/PSOP	to		to 42		to	LM22676MRE-ADJ/NOPB	NEW SMD 168-5807●	3.790	3.120	2.550	2.340
NSC	7/TO-263	to		to 42		to	LM22676TJE-ADJ/NOPB	NEW SMD 168-5809●	3.790	3.120	2.550	2.340
NSC	8/PSOP	bis bis		bis bis	0.450	-40°C to 125°C	LP38853MR-ADJ	SMD 132-0982●	2.670	2.120	1.710	1.520
NSC	7/TO-263 (D2-Pak)	bis bis		bis bis	0.450	-40°C to 125°C	LP38853S-ADJ	SMD 132-0983●	4.030	3.180	2.570	2.290
NSC	7/TO-220	bis bis		bis bis	0.450	-40°C to 125°C	LP38853T-ADJ	132-0984●	4.160	3.340	2.770	2.390
SIP	3/TO-263 (D2-Pak)	to		to 12	1.3	0°C to 125°C	SP1085V1-L	SMD 131-7810●	0.770	0.580	0.490	0.460
SIP	3/TO-220	to		to 12	1.3	0°C to 125°C	SP1085V-L	131-7811●	0.610	0.470	0.400	0.370
LT	3/TO-220	-32 to -1.2	1	-36.2 to -3.7	2.5	0°C to 125°C	LT1033CT#PBF	127-3556●	3.480	2.160	2.100	– –
MAX	24/TQFN-EP	0.6 to 3.24		2.35 to 3.6		-40°C to 85°C	MAX8643AETG+	NEW SMD 159-3387●	3.770	2.920	2.630	2.190
MAX	16/QSOP	0.8 to 4.5		2.6 to 5.5		-40°C to 85°C	MAX8505EEE+	NEW SMD 159-3383●	3.770	2.920	2.630	2.190
SIP	26/DFN	0.8 to 5		4.75 to 22	500	-40°C to 125°C	SP7661ER-L	SMD 131-7832●	6.620	5.090	4.240	3.980
TI	7/TO-263 (D2-Pak)	0.8 to 3.6	2	0.8 to 5.5	0.12	-40°C to 125°C	TPS74901KTWT	SMD 149-4899●	4.250	2.960	2.470	2.350
MAX	20/SSOP	1.1 to 3.8		4.5 to 5.5		-40°C to 85°C	MAX1623EAP+	NEW SMD 159-3315●	7.710	6.000	5.390	4.500
NSC	5/TO-263 (D2-Pak)	1.126 to 6.2		2.5 to 7	0.8	-40°C to 125°C	LP3876ES-ADJ	SMD 820-7348●	3.860	2.920	2.390	– –
NSC	5/TO-220	1.126 to 6.2		2.5 to 7	0.8	-40°C to 125°C	LP3876ET-ADJ	820-7356●	1.990	1.690	1.370	– –
FCH	3/TO-220	1.2 to 33		3.7 to 35.5	2.5	0°C to 125°C	LM350T	SMD 141-7673●	0.770	0.490	0.350	0.270
TI	5/PFM	1.2 to 6	1	1.7 to 7.5		0°C to 100°C	UC382TDTR-ADJ	SMD 146-0984●	4.390	3.200	2.670	2.380
LT	16/TSSOP	1.2 to 20		-20 to 20	0.34	-40°C to 125°C	LT1764AEFE#PBF	SMD 127-3621●	6.580	4.290	3.590	– –
LT	5/TO-263 (D2-Pak)	1.2 to 20		-20 to 20	0.34	-40°C to 125°C	LT1764AEQ#PBF	SMD 127-3622●	6.970	4.100	3.220	– –
LT	5/TO-263 (D2-Pak)	1.2 to 20		-20 to 20	0.34	-40°C to 125°C	LT1764EQ#PBF	SMD 127-3623●	6.970	4.100	3.220	– –
NSC	2/TO-3	1.2 to 32		4.2 to 35	2.3	0°C to 125°C	LM350KSTEEL	119-7401●	28.550	20.100	17.050	16.620
NSC	3/TO-220	1.2 to 32		4.2 to 35	2.3	0°C to 125°C	LM350T	948-9410●	1.620	1.320	1.220	1.190
ON	3/TO-220	1.2 to 33	4	3.9 to 36.2	2.7	0°C to 125°C	LM350TG	121-4460●	1.630	1.050	0.840	– –
NSC	8/MDIP	1.21 to 37	1.5	8 to 40		-40°C to 125°C	LM2675N-ADJ	149-5085●	2.360	1.990	1.610	1.450
TI	5/TO-220	1.22 to 8.5	2.5	2.8 to 9	0.4	-40°C to 85°C	UCC283T-ADJ	113-5448●	5.520	3.770	3.040	2.930
TI	5/TO-263 (D2-Pak)	1.22 to 8.5	2.5	2.8 to 9	0.4	-40°C to 85°C	UCC283TDKTTT-ADJ	SMD 113-5450●	5.520	3.770	2.730	2.720
TI	5/TO-263 (D2-Pak)	1.22 to 8.5	2.5	2.8 to 9	0.4	0°C to 70°C	UCC383TDKTTT-ADJ	SMD 113-5453●	4.810	3.280	2.300	2.260
UNI	5/TO-220	1.22 to 8.5	2.5	2.8 to 9	0.4	0°C to 70°C	UCC383T-ADJ	110-1464●	4.190	3.590	3.250	2.260
NSC	5/TO-220	1.23 to 57		4 to 60		-40°C to 125°C	LM2576HVT-ADJ/NOPB	NEW 156-4788●	4.810	3.920	3.210	2.670
NSC	3/TO-263	1.25 to 5.75		to 13	1.2	0°C to 125°C	LMS1587CS-ADJ/NOPB	NEW SMD 156-4765●	1.920	1.520	1.230	1.100
ST	3/TO-220FP	1.25 to 28	1	2.55 to 30	1.3	-40°C to 125°C	LD1085P	108-7151●	1.450	0.970	0.800	0.660
ST	3/TO-220	1.25 to 28	1	2.55 to 30	1.3	-40°C to 125°C	LD1085V	108-7152●	1.590	1.190	0.970	0.800
NSC	3/TO-220	1.25 to 15		2.6 to 29	1.3	-40°C to 125°C	LM1085IT-ADJ	820-7364●	1.800	1.500	1.190	– –
SIP	5/TO-220	1.25 to 5	1	1.65 to 16	0.37	-40°C to 125°C	SPX29302AU5-L	938-8958●	2.560	2.090	1.740	1.630
SIP	5/TO-263 (D2-Pak)	1.25 to 5	1	1.7 to 16	0.45	-40°C to 125°C	SPX29302T5-L	SMD 938-8940●	2.560	2.090	1.740	1.630
SIP	3/TO-263 (D2-Pak)	1.5 to 5	1	2.6 to 10	1.1	-40°C to 85°C	SPX1587AT-L	SMD 938-9164●	1.180	0.970	0.810	0.740
NSC	5/TO-263 (D2-Pak)	2.5 to 6.76		2.74 to 7	0.39	-40°C to 125°C	LP3856ES-ADJ	SMD 818-8734●	5.600	4.770	3.890	– –
LT	5/TO-220	2.5 to 25	1	3.25 to 35	0.75	0°C to 125°C	LT1185CT	459-793▲	3.360	2.630	2.300	– –
LT	5/TO-220	2.5 to 25	1	3.25 to 35	0.75	0°C to 125°C	LT1185CT#PBF	956-0289●	6.390	3.610	2.850	– –
LT	5/TO-220	3.8 to 14		4.4 to 15	0.6	0°C to 125°C	LT1529CT	641-248▲	3.810	2.880	2.520	– –
LT	5/TO-220	3.8 to 14		4.4 to 15	0.6	0°C to 125°C	LT1529CT#PBF	956-0629●	6.390	3.610	2.600	– –
LT	3/TO-263 (D2-Pak)	5 to 25		1.2 to 29	1.3	0°C to 125°C	LT1085CM#PBF	SMD 955-9795●	6.970	3.940	3.080	– –

RL Re-reeling available

Adjustable Voltage Regulators - continued

Mftr.	Pins/Pkg	Output Voltage Range (V)	Output Tolerance (%)	Input Voltage Range (V)	Dropout Voltage (V)	Operating Temp. Range	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+
3 A												
LT	3/TO-220	5 to 25		1.2 to 29	1.3	0°C to 125°C	LT1085CT#PBF	955-9809	6.390	3.610	2.850	– –
NSC	7/TO-220	11.52 to 12.48		4 to 40		-40°C to 125°C	LM2586T-ADJ/NOPB	NEW 156-4732	6.380	5.210	4.280	3.560
3.2 A												
TI	10/SON	to 18.5		to 6		-40°C to 85°C	TPS61087DRCT	NEW SMD 164-7915	2.670	1.990	1.640	1.520
3.5 A												
LT	10/DFN	0.79 to 30		3.6 to 36		0°C to 125°C	LT3680EDD#PBF	SMD 143-2696	7.840	4.770	3.760	– –
LT	10/MSOP	0.79 to 30		3.6 to 36		0°C to 125°C	LT3680EMSE#PBF	SMD 143-2697	8.030	4.880	3.850	– –
LT	10/DFN	0.79 to 30		3.6 to 36		-40°C to 125°C	LT3680IDD#PBF	SMD 143-2698	9.400	5.720	4.510	– –
LT	10/MSOP	0.79 to 30		3.6 to 36		-40°C to 125°C	LT3680IMSE#PBF	SMD 143-2699	9.630	5.870	4.620	– –
4 A												
NSC	16/TSSOP	to 5		to 5.5		to	LM2854MH-1000/NOPB	NEW SMD 168-5774	5.200	4.270	3.500	3.210
MAX	8/SOIC	to -12		to 16		-40°C to 85°C	MAX765ESA+	NEW SMD 167-3223	7.490	5.360	4.170	3.750
MAX	8/SOIC	to -15		to 16		0°C to 70°C	MAX766CSA+	NEW SMD 167-3224	5.180	3.700	2.880	2.590
MAX	20/SOIC	to 15		to 10		0°C to 70°C	MAX742CWP+	NEW SMD 167-3217	8.820	6.290	4.890	4.410
IR	15/QFN	to 12		to 21		-40°C to 125°C	IR3822MTR1PBF	NEW SMD 164-0801	1.820	1.610	1.210	1.030
IR	15/QFN	to 12		to 21		-40°C to 125°C	IR3812MTR1PBF	NEW SMD 164-0794	1.820	1.610	1.210	1.030
MAX	10/MicroMax	0.8 to 4.5		3 to 5.5		-40°C to 85°C	MAX1953EUB+	NEW SMD 160-6628	1.550	1.250	1.140	1.040
NSC	16/TSSOP Ex Pad	0.8 to 5		2.95 to 5.5		-40°C to 85°C	LM2854MH-500	NEW SMD 158-9528	4.300	3.830	3.120	2.870
IR	15/QFN	to 12		to 21		-40°C to 125°C	IR3802MTR1PBF	NEW SMD 164-1170	1.730	1.530	1.150	0.980
5 A												
LT	3/TO-220	to		to 25	1	-40°C to 125°C	LT1084IT#PBF	NEW 166-3349	9.700	7.280	5.820	4.860
NSC	14/LLP	to 37		to 40		to	LM2677SD-ADJ/NOPB	NEW SMD 168-5627	7.520	6.180	5.060	4.640
NSC	14/LLP	to 37		to 40		to	LM2678SD-ADJ/NOPB	NEW SMD 168-5628	6.250	5.140	4.200	3.860
NSC	7/TO-263	to		to 42		to	LM22678TJE-ADJ/NOPB	NEW SMD 168-5813	6.290	5.180	4.240	3.880
NSC	7/TO-263	to		to 42		to	LM22677TJE-ADJ/NOPB	NEW SMD 168-5811	6.290	5.180	4.240	3.880
NSC	3/TO-220	to		to 29	1.5	to	LM1084IT-ADJ/NOPB	NEW 168-5484	2.790	2.160	1.770	1.620
NSC	7/TO-263	to		to 42		to	LM22679TJE-ADJ/NOPB	NEW SMD 168-5815	6.510	5.350	4.380	4.010
SIP	3/TO-263 (D2-Pak)	to 5		to 12	1.3	0°C to 125°C	SP1084V1-L	SMD 131-7807	1.000	0.770	0.640	0.610
SIP	3/TO-220	to		to 12	1.3	0°C to 125°C	SP1084V-L	131-7808	1.000	0.770	0.640	0.610
ST	2/TO-3	1.2 to 32		1.2 to 36.2		0°C to 125°C	LM338K	109-4254	8.730	7.050	5.330	4.510
NSC	2/TO-3	1.2 to 32		4.2 to 40	2.7	0°C to 125°C	LM338KSTEEL	119-7402	44.740	30.310	24.770	23.360
NSC	3/TO-220	1.2 to 32		4.2 to 40	2.7	0°C to 125°C	LM338T	948-9428	1.730	1.020	0.810	0.640
SIP	3/TO-263 (D2-Pak)	1.2 to 3.3	1	2.3 to 3.8	1.1	-45°C to 125°C	SPX1585AT-L	SMD 938-9180	1.180	0.970	0.810	0.740
SIP	3/TO-220	1.2 to 3.3	1	2.3 to 3.8	1.1	-45°C to 125°C	SPX1585AU-L	938-9172	1.180	0.970	0.810	0.740
MICR	5/TO-263	1.25 to 26		2.5 to 26	0.37	-40°C to 125°C	MIC29502WU	NEW SMD 155-6743	7.530	6.680	5.470	– –
NSC	7/TO-263	1.2 to 37		8 to 40		-40°C to 125°C	LM2677S-ADJ/NOPB	NEW SMD 156-4714	7.320	5.960	4.910	4.080
SIP	5/TO-263 (D2-Pak)	1.25 to		1.24 to 16	0.37	-40°C to 125°C	SPX29502T5-L	SMD 131-7839	5.160	3.980	3.310	3.110
SIP	5/TO-220	1.25 to		1.24 to 16	0.37	-40°C to 125°C	SPX29502U5-L	131-7840	5.160	3.980	3.310	3.110
SIP	5/TO-263 (D2-Pak)	1.25 to		1.24 to 16	0.37	-40°C to 125°C	SPX29503T5-L	SMD 131-7841	5.160	3.980	3.310	3.110
SIP	5/TO-220	1.25 to		1.24 to 16	0.37	-40°C to 125°C	SPX29503U5-L	131-7843	4.090	3.140	2.620	2.460
ST	3/TO-220	1.25 to 28		to 30	1.2	0°C to 125°C	LD1585CV	NEW 156-4299	1.580	1.260	1.130	0.930
ST	3/TO-220	1.25 to 28	1	2.55 to 30	1.3	-40°C to 125°C	LD1084V	108-7148	2.200	1.720	1.280	1.060
NSC	3/TO-220	1.25 to 15		2.6 to 29	1.3	-40°C to 125°C	LM1084IT-ADJ	761-0087	1.720	1.450	1.150	– –
LT	8/SOIC	1.27 to 6.8	1	2.8 to 10	0.2	0°C to 125°C	LT1573CS8#PBF	SMD 127-3586	2.340	1.520	1.290	– –
MICR	5/TO-220	2.85 to 25.65	1	2.5 to 26	0.35	-40°C to 125°C	MIC29502WT	121-3492	7.250	4.940	4.150	– –
LT	3/TO-3P	5 to 25	1	to	1	0°C to 125°C	LT1084CP#PBF	127-3559	8.630	4.880	3.850	– –
LT	3/TO-220	5 to 25		1.2 to 29	1.3	0°C to 125°C	LT1084CT	412-338▲	7.050	5.310	3.930	– –
LT	3/TO-220	5 to 25		1.2 to 29	1.3	0°C to 125°C	LT1084CT#PBF	955-9744	7.560	4.270	3.430	– –
NSC	5/TO-220	11.52 to 12.48		4 to 40		-40°C to 125°C	LM2587T-ADJ/NOPB	NEW 156-4716	8.120	6.630	5.450	4.540
6 A												
MAX	8/SOIC	to 5		to 5		0°C to 70°C	MAX756CSA+	NEW SMD 167-3218	4.580	3.270	2.550	2.290
IR	15/QFN	to 12		to 21		-40°C to 125°C	IR3822AMTR1PBF	NEW SMD 164-0799	1.780	1.580	1.190	1.020
FCH	25/MLP	0.8 to 21.6		3 to 24		-10°C to 85°C	FAN2106MPX	SMD 149-5489	2.860	2.070	1.900	1.640
SIP	26/DFN	0.8 to 5		4.75 to 22	0.5	-40°C to 125°C	SP7663ER-L	SMD 131-7834	8.830	6.790	5.660	5.320
NSC	8/MSOP	0.8 to 4.5		2.8 to 5.5		-40°C to 125°C	LM1771SMM	SMD 131-3865	1.730	1.300	1.060	0.840
NSC	8/MSOP	0.8 to 4.5		2.8 to 5.5		-40°C to 125°C	LM1771TMM	SMD 131-3867	1.320	1.060	0.890	0.770
NSC	8/MSOP	0.8 to 4.5		2.8 to 5.5		-40°C to 125°C	LM1771UMM	SMD 131-3868	1.320	1.060	0.900	0.780
7 A												
IR	15/QFN	to 12		to 21		-40°C to 125°C	IR3821MTR1PBF	NEW SMD 164-0798	1.840	1.630	1.220	1.050
IR	15/QFN	to 12		to 21		-40°C to 125°C	IR3811MTR1PBF	NEW SMD 164-0792	1.840	1.630	1.220	1.050
SIP	5/TO-263 (D2-Pak)	1.25 to 3.3	2	2.79 to 5	0.54	-40°C to 125°C	SPX1580T5-L	SMD 938-9210	1.580	1.300	1.090	1.010
LT	5/TO-220	2 to 3		2.54 to 6	0.54	-40°C to 125°C	LT1580IT#PBF	127-3598	7.540	7.250	6.530	– –
LT	3/TO-220	2.5 to 3.6		3.7 to 7	1.2	0°C to 125°C	LT1584CT#PBF	127-3600	10.270	5.810	4.660	– –
LT	3/TO-220	2.5 to 3.6	2	3.7 to 7	1.2	0°C to 125°C	LT1585CT#PBF	127-3603	4.790	2.740	2.330	– –
LT	3/TO-263 (D2-Pak)	2.5 to 3.6		to 7	1.4	0°C to 125°C	LT1587CM#PBF	SMD 127-3605	6.390	3.610	2.850	– –
7.5 A												
LT	3/TO-3P	5 to 25		1.5 to 30	1.3	0°C to 125°C	LT1083CP#PBF	955-9728	13.880	7.850	5.930	– –
8 A												
MAX	28/QSOP	1 to 5.5		2 to 28		-40°C to 85°C	MAX1715EEI+	NEW SMD 160-6620	4.660	3.740	3.380	3.100
SIP	3/TO-220	1.3 to 3.3	1	2.4 to 10	1.1	0°C to 125°C	SPX1584AU-L	938-9199	1.160	0.940	0.800	0.770
9 A												
IR	15/QFN	to 12		to 21		-40°C to 125°C	IR3821AMTR1PBF	NEW SMD 164-0797	1.820	1.610	1.210	1.030
IR	15/QFN	to 12		to 21		-40°C to 125°C	IR3802AMTR1PBF	NEW SMD 164-1171	1.700	1.510	1.130	0.960
IR	15/QFN	to 12		to 21		-40°C to 125°C	IR3801MTR1PBF	NEW SMD 164-1168	1.760	1.550	1.170	0.990
IR	15/QFN	to 12		to 21		-40°C to 125°C	IR3801AMTR1PBF	NEW SMD 164-1169	1.730	1.530	1.150	0.980
10 A												
MAX	8/SOIC	to 10		to 6		-40°C to 85°C	MAX680ESA+	NEW SMD 167-3211	5.770	4.120	3.210	2.890
LT	7/TO-220	2 to 3	1	0.47 to 6	0.43	0°C to 125°C	LT1581CT7#PBF	127-3599	12.640	7.150	5.770	– –
12 A												
IR	15/QFN	to 12		to 21		-40°C to 125°C	IR3820MTR1PBF	NEW SMD 164-0796	2.580	2.290	1.730	1.470
IR	15/QFN	to 12		to 21		-40°C to 125°C	IR3810MTR1PBF	NEW SMD 164-0791	2.580	2.290	1.730	1.470
SIP	26/DFN	0.8 to 5		5 to 22	0.5	-40°C to 125°C	SP7662ER-L	SMD 131-7833	15.520	11.940	9.940	9.340
IR	15/QFN	to 12		to 21		-40°C to 125°C	IR3800MTR1PBF	NEW SMD 164-1166	2.430	2.160	1.620	1.390
14 A												
IR	15/QFN	to 12		to 21		-40°C to 125°C	IR3820AMTR1PBF	NEW SMD 164-0795	2.520	2.240	1.690	1.440
IR	15/QFN	to 12		to 21		-40°C to 125°C	IR3800AMTR1PBF	NEW SMD 164-1167	2.410	2.140	1.600	1.380

Adjustable Precision Zener Shunt Regulators

These devices are all three terminal adjustable shunt regulators. They offer excellent temperature stability and output current handling capability up to 100mA. The output voltage may be set to any chosen voltage between 2.5 and 20 volts by selection of two external divider resistors. They can all be used as a replacement for zener diodes in many applications requiring an improvement in zener performance.

496759

Pins/Pkg	Reference Voltage	Tolerance	Min Output Voltage	Max Output Voltage	Min Cathode Current	Max Cathode Current	Operating Temp. Range	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+
3/SOT-23	2.5V	1%	2.5V	20V	50µA	100mA	-55°C to 125°C	ZHT431F01TA	SMD 146-1556	1.100	0.900	0.790	0.720
3/SOT-23	2.5V	1%	2.5V	20V	1000µA	100mA	-40°C to 125°C	ZTL431AFFTA	SMD 146-1557	0.184	0.140	0.108	0.084
3/SOT-23	2.5V	1%	2.5V	20V	1000µA	100mA	-40°C to 125°C	ZTL432AFFTA	SMD 146-1558	0.166	0.127	0.113	0.100

RL Re-reeling available

Adjustable and Fixed Output Voltage, Step-Down Switching Regulators

ON Semiconductor

These LM257x regulators are monolithic integrated circuits. The features of these devices include a guaranteed 4% tolerance on output voltage within specified input voltages and output load conditions, and ±10% on the oscillator frequency (±2% over 0 to 125°C). External shutdown is included, featuring 80 µA typical standby current. The output switch includes cycle-by-cycle current limiting, as well as thermal shutdown for full protection under fault conditions.

496928

Pins/Pkg	Output Voltage (V)	Output Current (A)	Input Voltage Range (V)	Operating Junction Temp. Range	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
Fixed Output											
8/PDIP	5	0.5	7 to 40	-40°C to 125°C	LM2574N-5G	146-0659●	1.38	0.98	0.79	0.66	0.54
8/PDIP	12	0.5	7 to 40	-40°C to 125°C	LM2574N-12G	146-0658●	1.11	0.96	0.86	0.71	0.56
5/TO-263 (D2-Pak)	15	1	7 to 40	-40°C to 125°C	LM2575D2T-015G	SMD 146-0661●	1.30	1.16	0.96	0.95	0.77
Adustable Output											
8/PDIP	1.23 to 37	0.5	7 to 40	-40°C to 125°C	LM2574N-ADJG	146-0660●	1.01	0.81	0.71	0.65	0.52
5/TO-263 (D2-Pak)	1.23 to 37	1	7 to 40	-40°C to 125°C	LM2575D2T-ADJG	SMD 146-0662●	1.18	1.06	0.88	0.87	0.70
5/TO-263 (D2-Pak)	1.23 to 37	3	7 to 40	-40°C to 125°C	LM2576D2T-ADJG	SMD 146-0664●	1.87	1.60	1.42	1.14	0.82

NCP56x Fixed and Adjustable Low Dropout Regulators

ON Semiconductor

The NCP565 series are low dropout linear regulators. They provide 1.5 A in either fixed voltage options or in an adjustable voltage version from 7.7 V down to 0.9 V.
The NCP566 low dropout linear regulator provides 1.5 A at a fixed output voltage. The fast loop response and low dropout voltage make this regulator ideal for applications where low voltage and good load transient response are important.

The NCP5662/NCP5663 is a high performance, low dropout linear regulator designed for high power applications. They also provides additional features such as Enable and Error Flag, increasing the utility of this device.

497065

Pins/Pkg	Output Voltage (V)	Output Current (A)	Input Voltage Range (V)	Operating Temp. Range	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
Fixed Output											
3/TO-263 (D2-Pak)	1.2	1.5	2.5 to 9	-40°C to 125°C	NCP565D2T12G	SMD 146-0681●	0.87	0.68	0.62	0.55	0.49
5/TO-263 (D2-Pak)	1.2	2	2 to 9	-40°C to 85°C	NCP5662DS12R4G	SMD 146-0683●	1.03	0.81	0.73	0.67	0.58
3/SOT-223	1.2	1.5	9	–	NCP566ST12T3G	SMD 146-0689●	0.65	0.48	0.43	0.39	0.33
5/TO-263 (D2-Pak)	1.5	3	2 to 9	–	NCP5663DS15R4G	SMD 146-0686●	1.12	0.86	0.78	0.71	0.63
5/TO-263 (D2-Pak)	1.8	2	2 to 9	-40°C to 85°C	NCP5662DS18R4G	SMD 146-0684●	1.03	0.81	0.73	0.67	0.58
3/SOT-223	1.8	1.5	9	–	NCP566ST18T3G	SMD 146-0690●	0.59	0.44	0.39	0.36	0.30
5/TO-263 (D2-Pak)	3.0	2	2 to 9	-40°C to 85°C	NCP5662DS30R4G	SMD 146-0685●	1.03	0.81	0.73	0.67	0.58
Adustable Output											
5/TO-263 (D2-Pak)	0.9 to 7.7	1.5	2.5 to 9	-40°C to 125°C	NCP565D2TG	SMD 146-0682●	0.87	0.68	0.62	0.55	0.49

Fixed Voltage Regulators

Fixed Negative Voltage Regulators

443439

Mftr.	Pins/Pkg	Output Current (A)	Output Tolerance (%)	Input Voltage Range (V)	Dropout Voltage (V)	Operating Temp. Range	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+
-24V												
TS	8/SOIC	0.1	4	-40 to -26	2	-20°C to 85°C	TS79L24CS	SMC 720-8138●	0.137	0.099	0.079	– –
TS	3/TO-92	0.1	4	-40 to -26	2	-20°C to 85°C	TS79L24CT	720-7085●	0.125	0.095	0.063	– –
TS	3/TO-252 (D-Pak)	0.5	4	-40 to -26	2	-20°C to 85°C	TS79M24CP	SMC 720-7824●	0.180	0.140	0.113	– –
ON	3/TO-220	1	4	-40 to -25.3	1.3	0°C to 125°C	MC7924CTG	966-6290●	0.340	0.210	0.179	0.124
TS	3/TO-220	1	4	-40 to -26	2	-20°C to 85°C	TS7924CZ	720-2210●	0.165	0.110	0.083	– –
-18 V												
TS	8/SOIC	0.1	4	-35 to -20	2	-20°C to 85°C	TS79L18CS	SMC 720-8120●	0.137	0.099	0.079	– –
TS	3/TO-92	0.1	4	-35 to -20	2	-20°C to 85°C	TS79L18CT	720-7077●	0.170	0.130	0.086	– –
ON	3/TO-220	1	4	-35 to -19.3	1.3	0°C to 125°C	MC7918CTG	966-6281●	0.490	0.340	0.250	0.187
TS	3/TO-220	1	4	-35 to -20	2	-20°C to 85°C	TS7918CZ	720-2202●	0.165	0.110	0.083	– –
ST	3/TO-220	1.5	4	-35 to -19.1	1.1	0°C to 150°C	L7918CV	109-4235●	0.350	0.290	0.210	0.155
-15 V												
NSC	8/SOIC	0.1	–	to -35		0°C to 70°C	LM79L15ACM/NOPB	NEW SMC 156-4713●	0.420	0.340	0.290	0.250
NSC	3/TO-92	0.1	5	-30 to -17.5	2.5	0°C to 70°C	LM79L15ACZ	949-0434●	0.470	0.360	0.300	0.280
ON	8/SOIC	0.1	5	-35 to -16.7	1.7	-40°C to 125°C	MC79L15ACDG	SMC 121-1126●	0.330	0.192	0.175	– –
TS	8/SOIC	0.1	4	-35 to -17	2	-20°C to 85°C	TS79L15CS	SMC 720-8111●	0.186	0.135	0.107	– –
TS	3/TO-92	0.1	4	-35 to -17	2	-20°C to 85°C	TS79L15CT	720-7069●	0.125	0.095	0.063	– –
NSC	6/Bump	0.2	–	to 5.5	0.11	-40°C to 125°C	LP8900TLX-3333	NEW SMC 166-7422●	1.680	1.320	1.070	0.910
TI	3/3SIP MODULE HORIZONTAL	0.3	–	7 to 15		-40°C to 85°C	PT78NR115H	NEW SMC 156-4911●	17.490	14.430	12.810	10.490
NSC	3/TO-220	0.5	4	-35 to -17.5	2.5	0°C to 125°C	LM79M15CT	949-0442●	0.570	0.510	0.470	0.430
ON	3/TO-252 (D-Pak)	0.5	4	-35 to -16.1	1.1	-40°C to 125°C	MC79M15CDTG	SMC 121-1127●	0.550	0.450	0.380	– –
TS	3/TO-252 (D-Pak)	0.5	4	-35 to -17	2	-20°C to 85°C	TS79M15CP	SMC 720-7816●	0.192	0.150	0.120	– –
NSC	3/TO-220	1		to -26	0.6	-40°C to 125°C	LM2990T-15/NOPB	NEW 156-4647●	2.160	1.710	1.390	1.230
NSC	3/TO-220	1	5	-26 to -15.6	0.6	-40°C to 125°C	LM2990T-15	948-5902●	2.770	2.200	1.790	1.590
NSC	2/TO-3	1	3	-35 to -17	2	0°C to 125°C	LM320K-15	132-1356●	13.300	11.310	11.010	10.720
ON	3/TO-220	1	4	-35 to -16.3	1.3	0°C to 125°C	MC7915CTG	121-1136●	0.570	0.390	0.280	0.220
TS	3/TO-220	1	4	-35 to -17	2	-20°C to 85°C	TS7915CZ	720-2199●	0.220	0.150	0.112	– –
ST	3/TO-220	1.5	2	-35 to -16.1	1.1	0°C to 125°C	L7915ACV	108-7145●	0.660	0.470	0.330	0.280
ST	3/TO-220FP	1.5	4	-35 to -15.1	1.1	0°C to 150°C	L7915CP	108-7146●	0.480	0.420	0.360	0.340
ST	3/TO-220	1.5	4	-35 to -16.1	1.1	0°C to 150°C	L7915CV	975-6264●	0.650	0.390	0.270	0.181
NSC	3/TO-220	1.5	4	-35 to -16.1	1.1	0°C to 150°C	LM7915CT	949-0450●	0.920	0.800	0.720	0.650
ST	3/D2PAK	1.5	–	to -35	1.1	0°C to 150°C	L7912CD2T-TR	NEW SMC 156-4324●	0.800	0.640	0.560	0.460
-12 V												
MAX	8/UMAX	0.1	–	to 5.5	0.35	-40°C to 125°C	MAX16999AUA12+	NEW SMC 167-3114●	2.250	1.610	1.250	1.120
ON	3/TO-92	0.1	5	-35 to -13.7	1.7	0°C to 125°C	MC79L12ACPG	966-6176●	0.350	0.230	0.161	0.121
TS	8/SOIC	0.1	4	-35 to -14	2	-20°C to 85°C	TS79L12CS	SMC 720-8103●	0.137	0.099	0.079	– –
TS	3/TO-92	0.1	4	-35 to -14	2	-20°C to 85°C	TS79L12CT	720-7050●	0.170	0.130	0.086	– –
NSC	8/SOIC	0.1	5	-27 to -14.5	2.5	0°C to 70°C	LM79L12ACM	SMC 949-0388●	0.500	0.410	0.370	0.360
TI	8/SOIC	0.1	5	-27 to -14.5	2.5	0°C to 125°C	MC79L12ACD	SMC 146-1053●	0.350	0.240	0.174	0.122
NSC	3/TO-220	500	–	to -19	1.1	to	LM79M12CT/NOPB	NEW 168-5506●	1.100	0.860	0.700	0.640
TS	3/TO-252 (D-Pak)	0.5	4	-35 to -14	2	-20°C to 85°C	TS79M12CP	SMC 720-7808●	0.500	0.390	0.310	– –
FCH	3/TO-220	1	4	-35 to -14	2	0°C to 125°C	KA7912	563-780▲	0.390	0.340	0.300	– –
NSC	3/TO-220	1	3	-35 to -14.5	2.5	0°C to 125°C	LM320T-12	949-0418●	1.260	1.020	0.950	0.920
ON	3/TO-220	1	4	-35 to -13.3	1.3	0°C to 125°C	MC7912CTG	966-6150●	0.570	0.390	0.280	0.220
TS	3/TO-220	1	4	-35 to -14	2	-20°C to 85°C	TS7912CZ	720-2172●	0.220	0.150	0.112	– –
ST	3/TO-220	1.5	2	-35 to -13.1	1.1	0°C to 125°C	L7912ACV	109-5391●	0.650	0.430	0.350	0.330
ST	3/TO-220FP	1.5	4	-35 to -13.1	1.1	0°C to 150°C	L7912CP	108-7144●	0.480	0.370	0.310	0.280
ST	3/TO-220	1.5	4	-35 to -13.1	1.1	0°C to 150°C	L7912CV	975-6256●	0.500	0.410	0.310	0.220
NSC	3/TO-220	1.5	4	-35 to -13.1	1.1	0°C to 125°C	LM7912CT	949-0426●	1.070	0.870	0.800	0.780

Fixed Voltage Regulators - continued

Fixed Negative Voltage Regulators - continued

Mftr.	Pins/Pkg	Output Current (A)	Output Tolerance (%)	Input Voltage Range (V)	Dropout Voltage (V)	Operating Temp. Range	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+
-9 V												
TS	8/SOIC	0.1	4	-35 to -11	2	-20°C to 85°C	TS79L09CS	SMD 720-8090●	0.380	0.270	0.210	– –
TS	3/TO-92	0.1	4	-35 to -11	2	-20°C to 85°C	TS79L09CT	720-7042●	0.170	0.130	0.086	– –
TS	3/TO-220	1	4	-35 to -11	2	-20°C to 85°C	TS7909CZ	720-2164●	0.220	0.150	0.112	– –
-8 V												
TS	3/TO-252 (D-Pak)	0.5	4	-35 to -10	2	-20°C to 85°C	TS79M08CP	SMD 720-7794●	0.192	0.150	0.120	– –
FCH	3/TO-220	1	4	-35 to -10	2	0°C to 125°C	KA7908TU	101-3825●	0.220	0.165	0.130	– –
SAM	3/TO-220	1	4	-35 to -10	2	0°C to 125°C	KA7908TU.	345-8260▲	0.046	– –	– –	– –
TS	3/TO-220	1	4	-35 to -10	2	-20°C to 85°C	TS7908CZ	720-2156●	0.165	0.110	0.083	– –
ST	3/TO-220	1.5	4	-35 to -9.1	1.1	0°C to 150°C	L7908CV	975-6248●	0.510	0.410	0.310	0.230
-6 V												
FCH	3/TO-220	1	4	-35 to -8	2	0°C to 125°C	KA7906TU	101-3824●	0.157	0.120	0.094	– –
SAM	3/TO-220	1	4	-35 to -8	2	0°C to 125°C	KA7906TU.	345-8258▲	0.210	0.160	0.126	– –
TS	3/TO-220	1	4	-35 to -8	2	-20°C to 85°C	TS7906CZ	720-2148●	0.165	0.110	0.083	– –
ST	3/TO-220FP	1.5	4	-35 to -7.4	1.4	0°C to 150°C	L7906CV	108-7143●	0.310	0.230	0.169	0.147
-5.2 V												
NSC	3/TO-220	1	5	-26 to -5.8	0.6	-40°C to 125°C	LM2990T-5.2	949-4464●	3.140	2.420	1.950	– –
-5 V												
NSC	3/TO-92	100	–	to -7		to	LM79L05ACZ/NOPB	NEW 168-5572●	0.490	0.380	0.310	0.290
MAX	8/UMAX	0.1	–	to 5.5	0.035	-40°C to 125°C	MAX16999AUA06+	NEW SMD 167-3115●	2.250	1.610	1.250	1.120
ST	3/TO-220	0.1	5	-30 to -6.7	1.7	-40°C to 125°C	L79L05ABD	SMD 108-7147●	0.310	0.194	0.176	0.161
MICR	5/SOT-23	0.1	–	-16 to -3.3	0.5	-40°C to 125°C	MIC5270-5.0BM5 TR	NEW SMD 155-6772●	1.680	1.300	1.070	– –
FCH	3/TO-92	0.1	–	to -30	-5.2	0°C to 125°C	LM79L05ACZX	NEW 156-4499●	0.143	0.124	0.105	0.086
LT	3/SOT-223	0.5	–	to 20	0.5	0°C to 70°C	LT1175CST-5#PBF	NEW SMD 166-3390●	4.920	3.690	2.950	2.460
LT	3/SOT-223	0.5	–	to 20	0.5	-40°C to 85°C	LT1175IST-5#PBF	NEW SMD 166-3391●	5.390	4.040	3.240	2.700
LT	5/SOT-23	0.2	–	to -20	0.34	-40°C to 125°C	LT1964ES5-5#TRMPBF	NEW SMD 166-3814●	2.660	2.050	1.650	1.370
ST	8/SO	0.1	5	-30 to -6.7	1.7	0°C to 125°C	L79L05ACD	SMD 109-5392●	0.230	0.183	0.132	0.101
NSC	8/SOIC	0.1	5	-20 to -7	2	0°C to 70°C	LM79L05ACM	SMD 949-0345●	0.410	0.290	0.230	0.198
ON	8/SOIC	0.1	5	-30 to -6.7	1.7	-40°C to 125°C	MC79L05ACDG	SMD 121-1125●	0.240	0.154	0.134	– –
TI	3/TO-92	0.1	5	-20 to -7	1.7	0°C to 125°C	MC79L05ACLP	958-9848●	0.260	0.200	0.151	– –
ON	3/TO-92	0.1	5	-30 to -6.7	1.7	0°C to 125°C	MC79L05ACPG	966-6168●	0.350	0.230	0.161	0.121
TS	8/SOIC	0.1	4	-35 to -7	2	-20°C to 85°C	TS79L05CS	SMD 720-8081●	0.137	0.099	0.079	– –
TS	3/TO-92	0.1	4	-35 to -7	2	-20°C to 85°C	TS79L05CT	720-7034●	0.170	0.130	0.086	– –
ADI	6/SOT-23	0.25	–	to 5.5		-40°C to 85°C	ADM8828ART-REEL7	NEW SMD 165-1323●	1.440	1.120	0.910	0.840
NSC	3/TO-220	0.5	4	-25 to -7	2	0°C to 125°C	LM79M05CT	949-0353●	0.510	0.440	0.370	0.340
LT	8/DIP	0.5	1.5	-20 to -5.5	0.5	0°C to 125°C	LT1175CN8-5#PBF	113-6615●	4.730	2.670	1.960	– –
TS	3/TO-252 (D-Pak)	0.5	4	-35 to -7	2	-20°C to 85°C	TS79M05CP	SMD 720-7786●	0.500	0.390	0.310	– –
TI	8/SOIC	0.5	–	-16 to -5.2	0.2	-40°C to 85°C	UCC284DP-5G4	SMD 120-7400●	2.670	2.370	2.120	– –
FCH	3/TO-220	1	4	-35 to -7	2	0°C to 125°C	KA7905	563-778▲	0.390	0.340	0.300	– –
NSC	3/TO-220	1	5	-26 to -5.6	0.6	-40°C to 125°C	LM2990T-5.0	948-5880●	2.770	2.200	1.790	1.590
ON	3/TO-220	1	4	-35 to -6.3	1.3	0°C to 125°C	MC7905CTG	966-6141●	0.570	0.390	0.280	0.220
TOSH	3/TO-220NIS	1	4	-35 to -7	2	-30°C to 75°C	TA79005S(Q)	121-8132●	0.720	0.540	0.470	– –
TS	3/TO-220	1	4	-35 to -7	2	-20°C to 85°C	TS7905CZ	720-2130●	0.165	0.110	0.083	– –
TI	3/TO-220	1.5	–	-25 to -7	1.1	0°C to 125°C	UA7905CKCSE3	123-6603●	0.250	0.188	0.155	0.135
ST	3/TO-220	1.5	2	-35 to -7.4	1.4	0°C to 125°C	L7905ACV	108-7141●	0.610	0.400	0.330	0.310
ST	3/TO-220FP	1.5	4	-35 to -6.4	1.4	0°C to 150°C	L7905CP	108-7142●	0.500	0.380	0.330	0.280
ST	3/TO-220	1.5	4	-35 to -6.4	1.4	0°C to 150°C	L7905CV	975-6230●	0.650	0.410	0.310	0.270
NSC	2/TO-3	1	3	-32 to -14	2	0°C to 125°C	LM320K-12	132-1355●	11.520	10.440	10.160	9.890
NSC	3/TO-220	1	5	-26 to -12.6	0.6	-40°C to 125°C	LM2990T-12	948-5899●	2.520	2.070	1.890	1.850

Fixed Positive Voltage Regulators

443460

Mftr.	Pins/Pkg	Output Current (A)	Output Tolerance (%)	Input Voltage Range (V)	Dropout Voltage (V)	Operating Temp. Range	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+
0.6 V												
MAX	8/µMax	0.1	–	to 5.5	–	-40°C to 125°C	MAX16999AUA11+	NEW SMD 167-3116●	2.250	1.610	1.250	1.120
Dual O/P												
TI	20/CDIP	0.064		15 to 16		-25°C to 85°C	0722MG	154-4006▲	256.710	235.330	217.230	201.710
0.7 V												
NSC	5/Bump	0.35	1.5	0.7 to 4.5	1.5	-40°C to 125°C	LP5952TL-0.7	SMD 131-3874●	1.110	0.880	0.760	0.640
MAX	16/TSSOP	1		2.7 to 5.5	0.2	-40°C to 85°C	MAX8869EUE18+	SMD 142-2365●	3.170	2.250	1.820	1.650
MAX	8/SO			2.4 to 11		-40°C to 85°C	MAX6120ESA+	SMD 142-2341●	1.760	1.250	1.000	0.930
0.8 V												
MAX	8/µMax	0.1	–	to 5.5	–	-40°C to 125°C	MAX16999AUA15+	NEW SMD 167-3118●	2.250	1.610	1.250	1.120
MCHIP	5/SOT-23	0.3		to 6		-40°C to 125°C	MCP1824T-0802E/OT	NEW SMD 167-5418●	0.910	0.610	0.480	– –
NSC	5/TO-263 (D2-Pak)	0.8	1.5	0.875 to 5.5	0.075	-40°C to 125°C	LP38841S-0.8	SMD 100-8287●	5.130	3.510	2.870	– –
NSC	5/TO-220	0.8	1.5	0.875 to 5.5	0.075	-40°C to 125°C	LP38841T-0.8	100-8290●	2.880	2.310	1.780	– –
NSC	4/Bump Micro SMD	0.15	1	2.5 to 6	0.06	-40°C to 125°C	LP3990TL-0.8	SMD 100-8076●	0.390	0.300	0.220	– –
NSC	5/TO-220	1.5	1.5	0.915 to 5.5	0.115	-40°C to 125°C	LP38842T-0.8	100-8296●	4.060	3.120	2.650	– –
NSC	5/TO-263 (D2-Pak)	1.5	3	–	0.13	-40°C to 125°C	LP38855S-0.8	SMD 133-3961●	2.260	1.810	1.460	1.290
NSC	5/TO-263 (D2-Pak)	1.5	3	–	0.13	-40°C to 125°C	LP38858S-0.8	SMD 133-3964●	2.260	1.810	1.460	1.290
NSC	5/TO-220	3	1.5	1.01 to 5.5	0.21	-40°C to 125°C	LP38843T-0.8	100-8302●	3.480	2.790	2.140	– –
NSC	5/TO-263 (D2-Pak)	3	3	1.15 to 5.5	0.35	-40°C to 125°C	LP38856S-0.8	SMD 128-6793●	2.460	1.870	1.630	– –
NSC	5/TO-220	3	3	1.15 to 5.5	0.35	-40°C to 125°C	LP38856T-0.8	128-6795●	2.460	1.870	1.630	– –
NSC	5/TO-263 (D2-Pak)	3	3	1.15 to 5.5	0.35	-40°C to 125°C	LP38859S-0.8	SMD 128-6797●	2.460	1.870	1.650	– –
NSC	5/TO-220	3	3	1.15 to 5.5	0.35	-40°C to 125°C	LP38859T-0.8	128-6799●	3.530	2.680	2.040	– –
0.9 V												
MAX	8/UMAX	0.1	–	to 5.5	–	-40°C to 125°C	MAX16999AUA13+	NEW SMD 167-3119●	2.250	1.610	1.250	1.120
1.0 V												
TI	5/SC-70	0.15	3	-0.3 to 7	0.17	-40°C to 125°C	TPS71710DCKT	SMD 132-9603●	0.810	0.610	0.520	– –
NSC	8/PSOP	0.8	–	2.5 to 6	–	-40°C to 125°C	LP3879MR-1.0	NEW SMD 155-4782●	1.630	1.290	1.060	0.930
1.1 V												
MAX	8/µMax	0.1	–	to 5.5	–	-40°C to 125°C	MAX16999AUA09+	NEW SMD 167-3120●	2.250	1.610	1.250	1.120
1.2 V												
MAX	8/µMax	0.1	–	to 5.5	–	-40°C to 125°C	MAX16999AUA25+	NEW SMD 167-3121●	2.250	1.610	1.250	1.120
MAX	8/µMax	0.1	–	to 5.5	–	-40°C to 125°C	MAX16999AUA33+	NEW SMD 167-3122●	2.250	1.610	1.250	1.120
MAX	8/µMax	0.1	–	to 5.5	–	-40°C to 125°C	MAX16999AUA18+	NEW SMD 167-3123●	2.250	1.610	1.250	1.120
MICR	5/SOT-23	0.15	–	to 6	–	-40°C to 125°C	MIC5258-1.2YM5 TR	NEW SMD 166-3087●	0.510	0.380	0.310	0.270
MICR	5/SOT-23	0.15	–	to 6	–	-40°C to 125°C	MIC5268-1.2YM5 TR	NEW SMD 166-3088●	0.470	0.350	0.290	0.260
TI	5/DSBGA	0.2	2	2.7 to 6.5	0.1	-40°C to 85°C	TPS79912YZUT	SMD 118-0157●	0.770	0.630	0.520	0.410
MCHIP	5/SOT-23	0.3		to 6		-40°C to 125°C	MCP1824T-1202E/DC	NEW SMD 167-5419●	1.010	0.680	0.540	– –
MCHIP	5/SOT-23	0.3		to 6		-40°C to 125°C	MCP1824T-1202E/OT	NEW SMD 167-5420●	0.910	0.610	0.480	– –
NSC	4/Micro SMD	0.3	3	1.65 to 3.6	0.075	-40°C to 125°C	LP3991TL-1.2	SMD 132-0985●	0.520	0.420	0.340	0.310
NSC	5/Bump	0.35	2	0.7 to 4.5	0.088	-40°C to 125°C	LP5952TL-1.2	SMD 132-5426●	0.910	0.770	0.660	0.570
LT	6/DFN	0.3	–	to 5.5	–	-40°C to 125°C	LTC3025EDC-2#TRMPBF	NEW SMD 166-3890●	2.620	2.030	1.620	1.350
TOR	5/SOT-25	0.5	2	1.5 to 6	0.1	-40°C to 85°C	XC6210B122MR	SMD 105-7797●	0.850	0.730	0.580	– –
NSC	8/PSOP	0.8	–	2.5 to 6	–	-40°C to 125°C	LP3879MR-1.2	NEW SMD 155-4783●	1.690	1.350	1.080	0.970

RL Re-reeling available

Mftr.	Pins/Pkg	Output Current (A)	Output Tolerance (%)	Input Voltage Range (V)	Dropout Voltage (V)	Operating Temp. Range	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+
1.2 V												
NSC	8/SOP	0.8	1.5	1.3 to 5.5	0.1	-40°C to 125°C	LP3891EMR-1.2	SMD 128-6964●	2.390	1.920	1.670	1.480
NSC	5/TO-263 (D2-Pak)	0.8	1.5	1.3 to 5.5	0.1	-40°C to 125°C	LP3891ES-1.2	SMD 128-6968●	2.350	1.600	1.520	1.240
NSC	5/TO-220	0.8	1.5	1.3 to 5.5	0.1	-40°C to 125°C	LP3891ET-1.2	128-6971●	2.390	1.920	1.570	1.400
NSC	8/SOP	0.8	1.5	1.275 to 6	0.075	-40°C to 125°C	LP3881EMR-1.2	SMD 100-8064●	4.660	3.150	2.570	– –
NSC	5/TO-263 (D2-Pak)	0.8	1.5	1.275 to 6	0.075	-40°C to 125°C	LP3881ES-1.2	SMD 820-7054●	4.630	3.150	2.570	– –
NSC	5/TO-220	0.8	1.5	1.275 to 6	0.075	-40°C to 125°C	LP3881ET-1.2	820-7089●	4.190	3.150	2.570	– –
NSC	5/TO-263 (D2-Pak)	0.8	1.5	1.275 to 5.5	0.075	-40°C to 125°C	LP38841S-1.2	SMD 100-8288●	2.700	2.160	1.660	– –
NSC	5/TO-220	0.8	1.5	1.275 to 5.5	0.075	-40°C to 125°C	LP38841T-1.2	100-8291●	2.700	2.160	1.660	– –
TOR	5/SOT-89	0.8	2	1.5 to 6	0.1	-40°C to 85°C	XC6210B122PR	SMD 127-6437●	0.920	0.760	0.610	– –
NSC	5/SOT-23	0.15	–	2 to 6	0.12	-40°C to 85°C	LP3990MF-1.2	SMD 131-2626●	0.640	0.500	0.410	0.360
NSC	5/SOT-23	0.15	4	2.7 to 6	0.9	-40°C to 125°C	LMS5258MF-1.2	SMD 977-9566●	0.290	0.280	0.220	– –
NSC	4/Bump Micro SMD	0.15	1	2.5 to 6	0.06	-40°C to 125°C	LP3990TL-1.2	SMD 100-8077●	0.390	0.300	0.220	– –
NSC	5/SOT-23	0.15		2.7 to 6	0.9	-40°C to 125°C	LP8358MF-1.2	SMD 977-9604●	0.290	0.210	0.180	– –
TOR	4/SSOT-24	0.15	2	1.8 to 6	0.32	-40°C to 85°C	XC6215B122NR	SMD 105-7804●	0.420	0.370	0.300	– –
ON	6/DFN	1	0.03	2.5 to 18	0.9	-40°C to 150°C	NCP5661MN12T2G	NEW SMD 136-9745●	0.870	0.670	0.560	0.500
NSC	5/TO-263 (D2-Pak)	1.5	3	–	0.13	-40°C to 125°C	LP38855S-1.2	SMD 133-3962●	3.110	2.440	2.010	1.700
NSC	5/TO-263 (D2-Pak)	1.5	3	–	0.13	-40°C to 125°C	LP38858S-1.2	SMD 133-3965●	2.070	1.630	1.340	1.170
ON	6/DFN6	1.5	0.03	2.5 to 18	0.9	-40°C to 125°C	NCP565MN12T2G	NEW SMD 136-9742●	0.680	0.520	0.450	0.390
NSC	5/TO-263 (D2-Pak)	1.5	1.5	1.31 to 6	0.11	-40°C to 125°C	LP3882ES-1.2	SMD 820-7119●	4.440	3.300	2.700	– –
NSC	5/TO-263 (D2-Pak)	1.5	1.5	1.315 to 5.5	0.115	-40°C to 125°C	LP38842S-1.2	SMD 100-8294●	5.410	3.670	3.000	– –
NSC	5/TO-220	1.5	1.5	1.315 to 5.5	0.115	-40°C to 125°C	LP38842T-1.2	100-8297●	2.820	2.260	1.730	– –
NSC	8/SOP	1.5	1.5	1.34 to 5.5	0.14	-40°C to 125°C	LP3892EMR-1.2	SMD 128-6975●	2.560	2.040	1.770	1.570
NSC	5/TO-263 (D2-Pak)	1.5	1.5	1.34 to 5.5	0.14	-40°C to 125°C	LP3892ES-1.2	SMD 128-6978●	2.740	1.860	1.760	1.450
NSC	5/TO-220	1.5	1.5	1.34 to 5.5	0.14	-40°C to 125°C	LP3892ET-1.2	128-6980●	1.790	1.430	1.230	1.090
NSC	14/TSSOP-EP	3	–	3.0 to 5.5	–	-40°C to 125°C	LM2853MH-1.2/NOPB	NEW SMD 156-4776●	4.280	3.500	2.880	2.390
NSC	5/TO-263 (D2-Pak)	3	1.5	1.41 to 5.5	0.21	-40°C to 125°C	LP3883ES-1.2	SMD 820-7178●	5.400	4.060	3.320	– –
NSC	5/TO-263 (D2-Pak)	3	1.5	1.41 to 5.5	0.21	-40°C to 125°C	LP38843S-1.2	SMD 100-8300●	6.600	4.520	3.700	– –
NSC	5/TO-220	3	1.5	1.41 to 5.5	0.21	-40°C to 125°C	LP38843T-1.2	100-8303●	3.480	2.790	2.140	– –
NSC	5/SOT-23	0.15	–	1.8 to 5.5	0.25	-40°C to 125°C	LP5951MF-1.3	SMD 131-2651●	0.470	0.370	0.300	0.270
NSC	5/TO-263 (D2-Pak)	3	3	1.55 to 5.5	0.35	-40°C to 125°C	LP38856S-1.2	SMD 128-6794●	3.530	2.680	2.040	– –
NSC	5/TO-220	3	3	1.55 to 5.5	0.35	-40°C to 125°C	LP38856T-1.2	128-6796●	3.180	2.420	1.840	– –
NSC	5/TO-263 (D2-Pak)	3	3	1.55 to 5.5	0.35	-40°C to 125°C	LP38859S-1.2	SMD 128-6798●	3.530	2.680	2.040	– –
NSC	5/TO-220	3	3	1.55 to 5.5	0.35	-40°C to 125°C	LP38859T-1.2	128-6800●	2.410	1.830	1.400	– –
NSC	5/TO-263 (D2-Pak)	3	1.5	1.47 to 5.5	0.27	-40°C to 125°C	LP3893ES-1.2	SMD 128-6983●	3.490	2.800	2.460	2.170
TI	5/SC-70	0.15	3	-0.3 to 7	0.17	-40°C to 125°C	TPS71713DCKT	SMD 132-9604●	0.560	0.430	0.360	– –
1.247 V												
MAX	8/SOIC	0.05	–	to 40	–	-40°C to 125°C	MAX15006AASA+	NEW SMD 167-3139●	1.520	1.090	0.850	0.760
1.3 V												
MAX	8/SOIC	0.05	–	to 40	–	-40°C to 125°C	MAX15007AASA+	NEW SMD 167-3140●	1.520	1.090	0.850	0.760
NSC	5/TO-220	3	1.5	1.47 to 5.5	0.27	-40°C to 125°C	LP3893ET-1.2	128-6987●	3.210	2.560	2.260	2.000
1.35 V												
NSC	4/Bump Micro SMD	0.15	1	2.5 to 6	0.06	-40°C to 125°C	LP3990TL-1.35	SMD 100-8078●	0.390	0.300	0.230	– –
1.4 V												
NSC	5/Bump	0.35	2	0.7 to 4.5	0.088	-40°C to 125°C	LP5952TL-1.4	SMD 132-5427●	0.910	0.770	0.660	0.570
1.5 V												
NSC	5/SOT-23	0.03	1.5	1.9 to 5.2	0.4	-40°C to 125°C	LP3992IMF-1.5	SMD 820-7240●	0.570	0.440	0.330	– –
LT	5/SOT-23	0.1		to 20		-40°C to 125°C	LT1761ES5-1.5#TRMPBF	NEW SMD 166-3774●	1.940	1.500	1.200	1.000
NSC	5/SOT-23	0.15	–	2 to 6	0.12	-40°C to 85°C	LP3990MF-1.5	SMD 131-2627●	0.640	0.500	0.410	0.360
INTS	5/SC-70	0.15	1.8	2.3 to 6.5	0.2	-40°C to 85°C	ISL9003AIEBZ	SMD 136-1027●	1.600	1.400	1.210	1.050
TI	5/SC-70	0.15	3	-0.3 to 7	0.17	-40°C to 125°C	TPS71715DCKT	SMD 132-9605●	0.710	0.550	0.470	– –
NSC	4/Bump Micro SMD	0.15	1	2.5 to 6	0.06	-40°C to 125°C	LP3990TL-1.5	SMD 100-8081●	0.420	0.310	0.240	– –
NSC	6/LLP	0.15	2	2.5 to 6	0.06	-40°C to 125°C	LP3995ILD-1.5	SMD 820-7259●	0.600	0.510	0.380	– –
TOR	4/SSOT-24	0.15	2	1.82 to 6	0.32	-40°C to 85°C	XC6215B152NR	SMD 105-7805●	0.420	0.370	0.300	– –
TI	5/SOT	0.2	2	2.7 to 6.5	0.1	-40°C to 85°C	TPS79915DDCTG4	SMD 118-0158●	0.460	0.380	0.310	0.280
SIP	5/SOT-23	0.2	3	3 to 7	0.5	-40°C to 125°C	SP6201EM5-L-1-5	SMD 938-8125●	0.440	0.370	0.300	0.290
NSC	4/Micro SMD	0.3	3	1.65 to 3.6	0.075	-40°C to 125°C	LP3991TL-1.5	SMD 132-0986●	0.500	0.400	0.330	0.290
TI	6/SOT-223	0.4	2	1.7 to 5.5	0.075	-40°C to 85°C	TPS73615DCQ	SMD 113-5415●	1.400	1.140	0.920	0.820
MAX	8/µMax	0.5	–	to 5.5	–	-40°C to 85°C	MAX1792EUA15+	NEW SMD 167-3141●	2.710	1.940	1.510	1.360
MAX	8/µMax	0.5	–	to 5.5	–	-40°C to 85°C	MAX1792EUA18+	NEW SMD 167-3143●	2.710	1.940	1.510	1.360
ADI	8/MSOP	0.5	2	2.5 to 5.5	0.25	-40°C to 125°C	ADP1716ARMZ-1.5	SMD 146-1509●	1.430	1.200	0.990	0.960
ADI	8/MSOP	0.5	2	2.5 to 5.5	0.25	-40°C to 125°C	ADP1715ARMZ-1.5	SMD 146-1502●	1.380	1.160	0.900	0.840
ST	3/TO-252 (D-Pak)	0.5	2	2.5 to 40	1	-40°C to 125°C	LF15ABDT	SMD 108-7181●	0.960	0.640	0.520	0.490
TOR	4/SSOT-24	0.5	2	1.6 to 6	0.1	-40°C to 85°C	XC6210B152MR	SMD 105-7798●	0.850	0.730	0.580	– –
NSC	8/SOP	0.8	1.5	1.575 to 6	0.075	-40°C to 125°C	LP3881EMR-1.5	SMD 128-6785●	3.300	2.710	2.300	2.050
NSC	8/SOP	0.8	1.5	1.6 to 5.5	0.1	-40°C to 125°C	LP3891EMR-1.5	SMD 128-6966●	1.530	1.220	1.090	0.970
NSC	5/TO-263 (D2-Pak)	0.8	1.5	1.6 to 5.5	0.1	-40°C to 125°C	LP3891ES-1.5	SMD 128-6969●	2.140	1.720	1.510	1.360
NSC	5/TO-220	0.8	1.5	1.6 to 5.5	0.1	-40°C to 125°C	LP3891ET-1.5	128-6972●	2.390	1.920	1.680	1.500
TOR	5/SOT-89	0.8	2	1.6 to 6	0.1	-40°C to 85°C	XC6210B152PR	SMD 127-6441●	0.920	0.760	0.610	– –
NSC	5/TO-263 (D2-Pak)	0.8	1.5	1.575 to 6	0.075	-40°C to 125°C	LP3881ES-1.5	SMD 820-7062●	2.190	1.860	1.490	– –
NSC	5/TO-220	0.8	1.5	1.575 to 6	0.075	-40°C to 125°C	LP3881ET-1.5	820-7097●	2.260	1.920	1.640	– –
NSC	5/TO-220	0.8	1.5	1.575 to 5.5	0.075	-40°C to 125°C	LP38841T-1.5	100-8292●	2.880	2.310	1.780	– –
NSC	6/LLP	0.1	2	2.5 to 5.5	0.08	-40°C to 125°C	LP5900SD-1.5	SMD 131-2641●	0.780	0.620	0.490	0.440
TI	6/SOT-223	1	2	1.8 to 6	0.17	-40°C to 125°C	TPS72515DCQG4	SMD 120-7339●	1.530	1.270	1.090	– –
TI	5/TO-263 (D2-Pak)	1	2	1.8 to 6	0.17	-40°C to 125°C	TPS72515KTTT	SMD 113-5425●	2.520	1.780	1.300	1.210
LT	3/SOT-223	1.5		to 20		-40°C to 125°C	LT1963EST-1.5#PBF	NEW SMD 166-3528●	4.510	3.380	2.700	2.250
NSC	8/SOP	1.5	1.5	1.61 to 6	0.11	-40°C to 125°C	LP3882EMR-1.5	SMD 128-6787●	2.210	1.810	1.530	1.460
NSC	8/SOP	1.5	1.5	1.64 to 5.5	0.14	-40°C to 125°C	LP3892EMR-1.5	SMD 128-6976●	2.560	2.040	1.770	1.570
NSC	5/TO-220	1.5	1.5	1.64 to 5.5	0.14	-40°C to 125°C	LP3892ET-1.5	128-6981●	2.770	2.210	1.860	1.650
LT	3/SOT-223	1.5		-20 to 20	0.34	-40°C to 125°C	LT1963AEST-1.5#PBF	SMD 127-3629●	4.500	2.540	1.890	– –
NSC	5/TO-263 (D2-Pak)	1.5	1.5	1.615 to 5.5	0.115	-40°C to 125°C	LP38842S-1.5	SMD 100-8295●	5.360	3.670	3.000	– –
TI	20/HTSSOP	2	2	2.7 to 5	0.21	-40°C to 125°C	TPS75215QPWP	SMD 113-5443●	3.540	2.460	1.830	1.740
LT	5/D2PAK	3		to 20		-40°C to 125°C	LT1764AEQ-1.5#PBF	NEW SMD 166-3479●	6.980	5.230	4.190	3.500
NSC	5/TO-263 (D2-Pak)	3	1.5	1.71 to 5.5	0.21	-40°C to 125°C	LP3883ES-1.5	SMD 820-7186●	3.030	2.590	2.060	– –
NSC	5/TO-220	3	1.5	1.71 to 5.5	0.21	-40°C to 125°C	LP38843T-1.5	100-8305●	3.480	2.790	2.140	– –
NSC	5/SOT-23	0.15	–	1.8 to 5.5	0.25	-40°C to 125°C	LP5951MF-1.5	SMD 131-2652●	0.460	0.370	0.300	0.270
NSC	5/TO-263 (D2-Pak)	3	1.5	1.77 to 5.5	0.27	-40°C to 125°C	LP3893ES-1.5	SMD 128-6984●	2.220	1.790	1.540	1.480
NSC	5/TO-220	3	1.5	1.77 to 5.5	0.27	-40°C to 125°C	LP3893ET-1.5	128-6988●	2.220	1.790	1.540	1.480
1.6 V												
TI	5/SOT-23	0.15	3	2.7 to 10	0.18	-40°C to 125°C	TPS76316DBVT	SMD 846-1333●	0.340	0.280	0.250	– –
NSC	5/Bump	0.35	2	0.7 to 4.5	0.088	-40°C to 125°C	LP5952TL-1.6	SMD 132-5428●	0.910	0.770	0.660	0.570
1.8 V												
NSC	5/Bump Micro SMD	0.005		2.5 to 6	0.2	-40°C to 125°C	LP3983ITL-1.8	SMD 823-8413●	0.540	0.400	0.300	– –
TI	5/SC-70	0.01	4	1.8 to 5.5	0.105	-40°C to 85°C	TPS79718DCKT	SMD 113-5377●	0.580	0.520	0.460	0.400
TI	5/SOT-23	0.05		2.7 to 10	0.057	-40°C to 125°C	TPS79018DBVT	SMD 113-5380●	0.640	0.530	0.450	0.370
LT	5/SOT-23	0.1		to 20		-40°C to 125°C	LT1761ES5-1.8#TRMPBF	NEW SMD 166-3775●	1.940	1.500	1.200	1.000
NSC	6/LLP	0.1	2	2.5 to 5.5	0.08	-40°C to 125°C	LP5900SD-1.8	SMD 131-2642●	0.730	0.580	0.460	0.420
MCHIP	5/SOT-23A	0.1	0.5	to	0.18	-40°C to 125°C	TC1015-1.8VCT713	SMD 976-2523●	0.390	0.290	0.240	– –
TI	5/SOT-23	0.1	3	2.7 to 10	0.071	-40°C to 125°C	TPS76918DBVT	SMD 846-1503●	0.470	0.420	0.340	– –
TI	5/SOT-23	0.1		2.7 to 10	0.115	-40°C to 125°C	TPS78918DBVT	SMD 846-1724●	0.460	0.350	0.310	– –
TI	5/SOT-23	0.1	2	2.7 to 5.5	0.038	-40°C to 125°C	TPS79118DBVT	SMD 846-1759●	0.430	0.390	0.360	– –
LT	5/SOT-23	0.15		to 6.5		-40°C to 125°C	LTC1844ES5-1.8#TRMPBF	NEW SMD 166-3865●	2.360	1.830	1.460	1.230
NSC	5/SOT-23	0.15	–	2 to 6	0.12	-40°C to 85°C	LP3990MF-1.8	SMD 131-2628●	0.600	0.480	0.380	0.350
ST	5/SOT-23	0.15	–	to 6	0.06	-40°C to 125°C	LD3985M18R	SMD 125-0119●	1.030	0.750	0.560	0.480
NSC	5/SOT-23	0.15	–	1.8 to 5.5	0.25	-40°C to 125°C	LP5951MF-1.8	SMD 131-2653●	0.470	0.370	0.300	0.270

RL Re-reeling available

Fixed Voltage Regulators - continued

Fixed Positive Voltage Regulators - continued

Mftr.	Pins/Pkg	Output Current (A)	Output Tolerance (%)	Input Voltage Range (V)	Dropout Voltage (V)	Operating Temp. Range	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+
1.8 V												
NSC	5/SOT-23	0.15		2.2 to 16		-40°C to 125°C	LP2985IM5-1.8/NOPB	NEW SMD 156-4761	0.410	0.330	0.270	0.240
TI	5/SOT-23	0.15	1	1.9 to 5.5	0.03	-40°C to 85°C	TPS73118DBVT	SMD 113-5388	0.650	0.610	0.580	0.510
NSC	8/MSOP	0.15	1	1.935 to 7	0.135	-40°C to 85°C	LP2966IMM-1818	SMD 977-8403	2.030	1.370	1.090	– –
NSC	4/Bump Micro SMD	0.15	1	2.5 to 6	0.06	-40°C to 125°C	LP3990TL-1.8	SMD 100-8082	0.740	0.510	0.420	– –
TI	5/SOT-23	0.15	1.5	2 to 16	0.28	-40°C to 125°C	LP2985-18DBVTE4	SMD 105-3680	0.480	0.340	0.290	– –
NSC	6/LLP	0.15	2	2.5 to 6	0.06	-40°C to 125°C	LP3995ILD-1.8	SMD 820-7275	0.370	0.310	0.250	– –
TI	5/SC-70	0.15	3	-0.3 to 7	0.17	-40°C to 125°C	TPS71718DCKTG4	SMD 132-9606	0.560	0.430	0.360	– –
NSC	5/Bump Micro SMD	0.15	2	2.5 to 6	0.06	-40°C to 125°C	LP3995ITL-1.8	SMD 823-8456	0.490	0.360	0.260	– –
NSC	5/Bump Micro SMD	0.15	2	2.5 to 6	0.06	-40°C to 125°C	LP3999ITL-1.8	SMD 823-8529	0.690	0.510	0.370	– –
TOR	5/SOT-23	0.15	2	2 to 10	0.2	-40°C to 85°C	XC6204B182MR	SMD 360-5802	0.550	0.470	0.430	– –
TOR	4/SSOT-24	0.15	2	2.12 to 6	0.32	-40°C to 85°C	XC6215B182NR	SMD 105-7806	0.420	0.370	0.300	– –
TI	5/SOT-23	0.15	3	2.7 to 10	0.18	-40°C to 125°C	TPS76318DBVT	SMD 846-1341	0.340	0.280	0.250	– –
NSC	5/SC-70	0.15		1.8 to 5.5	0.2	-40°C to 125°C	LP5951MG-1.8	SMD 132-0988	0.410	0.340	0.270	0.240
NSC	4/Micro SMD	0.15	2	2.5 to 5.5	0.08	-40°C to 85°C	LP5900TL-1.8	SMD 149-5079	0.980	0.800	0.660	0.560
TI	5/SOT-23	0.2	2	2.7 to 5.5	0.12	-40°C to 85°C	TPS73018DBVT	SMD 113-5390	0.500	0.420	0.310	0.230
TI	5/SOT	0.2	2	2.7 to 6.5	0.1	-40°C to 85°C	TPS79918DDCT	SMD 113-5398	0.490	0.390	0.310	0.280
SIP	5/SOT-23	0.2	3	3 to 7	0.5	-40°C to 125°C	SP6201EM5-L-1-8	SMD 938-8133	0.550	0.450	0.380	0.360
MCHIP	3/SOT-23A	0.25	2	2.7 to 16	0.65	-40°C to 125°C	MCP1703T-1802E/CB	SMD 143-9516	0.460	0.330	0.250	– –
MCHIP	3/SOT-23	0.25	0.4	2.3 to 6	0.178	-40°C to 125°C	MCP1700T-1802E/TT	SMD 129-6591	0.340	0.220	0.180	– –
TOR	5/SOT-25	0.25	2	1.9 to 6	0.1	-40°C to 85°C	XC6217B182MR	SMD 127-6452	0.570	0.470	0.390	– –
TOR	5/SOT-23	0.25	2	2.2 to 10	0.4	-40°C to 85°C	XC6201P182MR	SMD 360-5644	0.480	0.420	0.380	– –
TOR	3/SOT-89	0.25	2	2.2 to 10	0.4	-40°C to 85°C	XC6201P182PRN	SMD 110-6655	0.480	0.420	0.380	– –
TI	6/SOT-223	0.25	3	2.7 to 5.5	0.145	-40°C to 85°C	TPS79418DCQ	SMD 113-5407	1.070	0.850	0.680	0.610
TI	8/MSOP	0.25	3	2.7 to 5.5	0.145	-40°C to 85°C	TPS79418DGNT	SMD 113-5408	0.560	0.520	0.480	0.470
MCHIP	5/SOT-23	0.3		to 10		-40°C to 85°C	MCP1802T-1802I/OT	NEW SMD 167-5425	1.060	0.720	0.570	– –
NSC	8/MSOP	0.3	2	2.5 to 6	0.12	-40°C to 85°C	LP3982IMM -1.8	SMD 119-7406	0.690	0.490	0.410	– –
NSC	5/Bump	0.35	2	0.7 to 4.5	0.088	-40°C to 125°C	LP5952TL-1.8	SMD 132-5429	0.910	0.770	0.660	0.570
TI	5/SOT-23	0.4	2	1.9 to 5.5	0.075	-40°C to 85°C	TPS73618DBVTG4	SMD 120-7345	1.100	1.010	0.860	– –
MAX	8/µMax	0.5	–	to 5.5	–	-40°C to 85°C	MAX1793EUE25+	NEW SMD 167-3144	3.530	2.520	1.960	1.760
MAX	8/µMax	0.5	–	to 5.5	–	-40°C to 85°C	MAX1806EUA33+	NEW SMD 167-3145	2.980	2.130	1.650	1.490
MAX	8/µMax	0.5	—	to 5.5	–	-40°C to 85°C	MAX1857EUA47+	NEW SMD 167-3146	2.510	1.800	1.400	1.260
ADI	8/MSOP	0.5	2	2.5 to 5.5	0.25	-40°C to 125°C	ADP1716ARMZ-1.8	SMD 146-1510	1.430	1.200	0.990	0.960
ADI	8/MSOP	0.5	2	2.5 to 5.5	0.25	-40°C to 125°C	ADP1715ARMZ-1.8	SMD 146-1504	1.380	1.160	0.900	0.840
LT	8/SOIC	0.5		-20 to 20	0.3	-40°C to 125°C	LT1763CS8-1.8#PBF	SMD 127-3615	3.800	2.490	2.080	– –
ST	3/TO-252 (D-Pak)	0.5	2	2.2 to 40	0.4	-40°C to 125°C	LF18CDT	SMD 109-5397	0.700	0.600	0.500	0.430
NSC	3/TO-252 (D-Pak)	0.5	2	2.7 to 10	0.43	-40°C to 125°C	LP38691DT-1.8	SMD 100-8050	1.230	0.830	0.680	– –
NSC	5/SOT-223	0.5	2	2.7 to 10	0.43	-40°C to 125°C	LP38693MP-1.8	SMD 100-8059	1.040	0.660	0.460	– –
NSC	3/TO-252 (D-Pak)	0.5	1.5	2.7 to 10	0.34	0°C to 125°C	LP8345CDT-1.8	SMD 949-3352	1.200	0.820	0.660	– –
TI	8/SOIC	0.5	2	2.7 to 10	0.169	-40°C to 125°C	TPS77518D	SMD 846-1627	1.930	1.440	1.040	– –
TI	8/SOIC	0.5	2	2.7 to 10	0.169	-40°C to 125°C	TPS77618D	SMD 846-1643	1.300	1.060	0.760	– –
NSC	8/SOP	0.8	1.5	1.875 to 6	0.075	-40°C to 125°C	LP3881EMR-1.8	SMD 128-6786	2.260	2.080	1.900	1.720
NSC	8/SOP	0.8	1.5	1.9 to 5.5	0.1	-40°C to 125°C	LP3891EMR-1.8	SMD 128-6967	2.390	1.920	1.670	1.480
NSC	5/TO-263 (D2-Pak)	0.8	1.5	1.9 to 5.5	0.1	-40°C to 125°C	LP3891ES-1.8	SMD 128-6970	2.390	1.920	1.670	1.480
NSC	5/TO-220	0.8	1.5	1.9 to 5.5	0.1	-40°C to 125°C	LP3891ET-1.8	128-6974	2.390	1.920	1.600	1.430
TOR	5/SOT-89	0.8	2	1.9 to 6	0.1	-40°C to 85°C	XC6210B182PR	SMD 127-6442	0.920	0.760	0.610	– –
TOR	4/SSOT-24	0.8	2	1.9 to 6	0.1	-40°C to 85°C	XC6210B182MR	SMD 105-7799	0.850	0.730	0.580	– –
NSC	5/TO-220	0.8	1.5	1.875 to 6	0.075	-40°C to 125°C	LP3881ET-1.8	820-7100	2.410	2.040	1.620	– –
NSC	5/TO-220	0.8	1.5	2.5 to 7	0.24	-40°C to 125°C	LP3874ET-1.8	818-8602	2.610	1.930	1.580	– –
NSC	5/SOT-223	0.8	1.5	2.5 to 7	0.24	-40°C to 125°C	LP3961EMP-1.8	SMD 977-8705	2.250	1.530	1.240	– –
NSC	5/TO-263 (D2-Pak)	0.8	1.5	2.5 to 7	0.24	-40°C to 125°C	LP3961ES-1.8	SMD 948-6429	2.570	1.740	1.420	– –
NSC	5/TO-220	0.8	1.5	2.5 to 7	0.24	-40°C to 125°C	LP3961ET-1.8	948-6453	2.710	1.730	1.310	– –
NSC	5/TO-220	0.8	1.5	2.5 to 7	0.24	-40°C to 125°C	LP3961ET-1.8.	332-6998	0.400	– –	– –	– –
NSC	5/SOT-223	0.8	1.5	2.5 to 7	0.24	-40°C to 125°C	LP3964EMP-1.8	SMD 977-8730	2.400	1.520	1.160	– –
NSC	5/TO-263 (D2-Pak)	0.8	1.5	2.5 to 7	0.24	-40°C to 125°C	LP3964ES-1.8	SMD 948-6364	2.570	1.740	1.420	– –
ST	3/TO-252 (D-Pak)	0.8	2	2.9 to 15	1.1	0°C to 125°C	LD1117DT18	SMD 108-7166	0.670	0.560	0.430	– –
ST	3/TO-220	0.8	1	2.9 to 15	1.1	0°C to 125°C	LD1117V18	108-7172	1.380	1.010	0.750	0.630
TI	6/SON	1		to 6		-40°C to 85°C	TPS62293DRVT	NEW SMD 164-7919	2.960	2.190	1.830	1.570
TI	6/SOT-223	1	2	2.1 to 6	0.21	-40°C to 125°C	TPS72518DCQ	SMD 113-5426	1.800	1.460	1.180	1.060
TI	5/TO-263 (D2-Pak)	1	2	2.1 to 6	0.21	-40°C to 125°C	TPS72518KTTT	SMD 113-5427	2.110	1.720	1.400	1.180
TI	8/SOIC	1	2	2.7 to 10	0.23	-40°C to 125°C	TPS76718QD	SMD 113-5432	1.740	1.500	1.120	1.060
ST	3/TO-220	1	2	2.9 to 10	1.1	0°C to 125°C	LD1117AV18	108-7164	0.860	0.660	0.550	0.480
NSC	5/SOT-223	1	2.5	2.7 to 10	0.45	-40°C to 125°C	LP38692MP-1.8	SMD 100-8053	1.080	0.670	0.470	– –
NSC	3/TO-252 (D-Pak)	1	1.5	2.7 to 10	0.68	0°C to 125°C	LP8340CDT-1.8	SMD 949-3310	0.580	0.420	0.350	– –
NSC	3/TO-252 (D-Pak)	1	1.5	2.7 to 10	0.68	0°C to 125°C	LP8340CDT-1.8.	SMD 580-1369	0.195	– –	– –	– –
TI	4/SOT-223	1	1	3.8 to 15	1.2	-40°C to 85°C	REG1117A-1.8	SMD 141-7413	4.730	2.960	2.630	– –
LT	5/D2PAK	1.5		to 20		-40°C to 125°C	LT1963AEQ-1.8#PBF	NEW SMD 166-3522	5.040	3.900	3.120	2.600
LT	8/SOIC	1.5		to 20		-40°C to 125°C	LT1963AES8-1.8#PBF	NEW SMD 166-3523	4.260	3.190	2.550	2.130
LT	3/SOT-223	1.5		to 20		-40°C to 125°C	LT1963AEST-1.8#PBF	NEW SMD 166-3526	4.510	3.380	2.700	2.250
LT	3/SOT-223	1.5		to 20		-40°C to 125°C	LT1963EST-1.8#PBF	NEW SMD 166-3529	4.510	3.380	2.700	2.250
NSC	5/SOT-223	1.5	–	2.5 to 7	0.26	-40°C to 125°C	LP3852EMP-1.8	SMD 131-2618	2.460	1.950	1.580	1.400
NSC	5/SOT223	1.5		2.5 to 7		-40°C to 125°C	LP3965EMP-1.8/NOPB	NEW SMD 156-4764	1.930	1.540	1.250	1.110
LT	5/TO-220	1.5		-20 to 20	0.34	-40°C to 125°C	LT1963AET-1.8#PBF	127-3633	3.360	1.930	1.800	– –
NSC	8/SOP	1.5	1.5	1.91 to 6	0.11	-40°C to 125°C	LP3882EMR-1.8	SMD 128-6788	3.180	2.620	2.220	1.980
NSC	8/SOP	1.5	1.5	1.94 to 5.5	0.14	-40°C to 125°C	LP3892EMR-1.8	SMD 128-6977	2.770	2.210	1.930	1.690
NSC	5/TO-263 (D2-Pak)	1.5	1.5	1.94 to 5.5	0.14	-40°C to 125°C	LP3892ES-1.8	SMD 128-6979	2.770	2.210	1.930	1.690
NSC	5/TO-220	1.5	1.5	1.94 to 5.5	0.14	-40°C to 125°C	LP3892ET-1.8	128-6982	2.770	2.210	1.860	1.650
ST	3/TO-220	1.5	1	2.5 to 30	1.3	-40°C to 125°C	LD1086V18	108-7160	1.490	1.290	0.970	0.810
NSC	5/SOT-223	1.5	1.5	2.5 to 7	0.24	-40°C to 125°C	LP3852EMPX-1.8	SMD 823-8952	2.250	1.910	1.550	– –
NSC	5/TO-263 (D2-Pak)	1.5	1.5	2.5 to 7	0.24	-40°C to 125°C	LP3855ES-1.8	SMD 818-8068	3.730	2.710	2.070	– –
NSC	5/TO-220	1.5	1.5	2.5 to 7	0.24	-40°C to 125°C	LP3855ET-1.8	818-8106	2.930	2.510	1.990	– –
NSC	5/TO-220	1.5	1.5	2.5 to 7	0.38	-40°C to 125°C	LP3872ET-1.8	818-8408	2.320	1.970	1.570	– –
NSC	5/TO-220	1.5	1.5	2.5 to 7	0.38	-40°C to 125°C	LP3875ET-1.8	820-6937	2.120	1.710	1.510	– –
NSC	5/SOT-223	1.5	1.5	2.5 to 7	0.38	-40°C to 125°C	LP3962EMP-1.8	SMD 977-8950	2.650	1.980	1.540	– –
NSC	5/SOT-223	1.5	1.5	2.5 to 7	0.38	-40°C to 125°C	LP3962EMP-1.8.	SMD 360-6375	1.590	1.190	0.940	– –
NSC	3/TO-263 (D2-Pak)	1.5	0.1	3.1 to 29	1.3	-40°C to 125°C	LM1086IS-1.8	SMD 949-0639	1.210	1.040	0.830	– –
LT	5/D2PAK	3		to 20		-40°C to 125°C	LT1764AEQ-1.8#PBF	NEW SMD 166-3480	6.980	5.230	4.190	3.500
NSC	5/TO263	3		to 7		-40°C to 125°C	LP3963ES-1.8/NOPB	NEW SMD 156-4726	2.780	2.210	1.780	1.590
ST	3/TO-220	3	1	2.5 to 30	1.3	-40°C to 125°C	LD1085V18	108-7153	1.510	1.250	0.950	0.790
NSC	5/TO-263 (D2-Pak)	3	1.5	2.01 to 5.5	0.21	-40°C to 125°C	LP3883ES-1.8	SMD 820-7194	2.840	2.430	1.950	– –
NSC	5/TO-263 (D2-Pak)	3	1.5	2.5 to 7	0.39	-40°C to 125°C	LP3853ES-1.8	SMD 818-7959	5.830	4.770	3.890	– –
NSC	5/TO-220	3	1.5	2.5 to 7	0.39	-40°C to 125°C	LP3853ET-1.8	818-7991	5.580	3.810	3.030	– –
NSC	5/TO-263 (D2-Pak)	3	1.5	2.5 to 7	0.39	-40°C to 125°C	LP3856ES-1.8	SMD 818-8149	5.830	4.770	3.890	– –
NSC	5/TO-220	3	1.5	2.5 to 7	0.39	-40°C to 125°C	LP3856ET-1.8	818-8181	4.480	3.820	3.040	– –
NSC	5/TO-263 (D2-Pak)	3	1.5	2.5 to 7	0.8	-40°C to 125°C	LP3873ES-1.8	SMD 818-8440	3.860	2.920	2.390	– –
NSC	5/TO-263 (D2-Pak)	3	1.5	2.07 to 5.5	0.27	-40°C to 125°C	LP3893ES-1.8	SMD 128-6986	2.330	1.860	1.620	1.440

Mftr.	Pins/Pkg	Output Current (A)	Output Tolerance (%)	Input Voltage Range (V)	Dropout Voltage (V)	Operating Temp. Range	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+
1.8 V												
NSC	5/TO-220	3	1.5	2.07 to 5.5	0.27	-40°C to 125°C	LP3893ET-1.8	128-6989	3.210	2.560	2.260	2.000
NSC	5/TO-220	3	2.6	2.25 to 5	0.425	-40°C to 125°C	LP38513S-1.8	SMD 149-5064	2.730	2.170	1.750	1.560
1.85 V												
NSC	5/Bump Micro SMD	0.15	–	2.5 to 6	0.08	-40°C to 125°C	LP3988ITL-1.85	SMD 100-8073	0.570	0.380	0.280	– –
TI	5/TSOT-23	0.2		to 6.5	0.1	-40°C to 125°C	TPS799185DDCT	NEW SMD 164-7923	0.490	0.360	0.300	0.280

443500

Mftr.	Pins/Pkg	Output Current (A)	Output Tolerance (%)	Input Voltage Range (V)	Dropout Voltage (V)	Operating Temp. Range	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+
2.0 V												
NSC	6/LLP	0.1	2	2.5 to 5.5	0.08	-40°C to 125°C	LP5900SD-2.0	SMD 131-2643	1.160	0.910	0.760	0.660
NSC	5/SOT-23	150		to 16		to	LP2985AIM5-2.0/NOPB	NEW SMD 168-5679	0.480	0.400	0.330	0.300
NSC	5/SOT-23	0.15	–	1.8 to 5.5	0.25	-40°C to 125°C	LP5951MF-2.0	SMD 131-2654	0.470	0.380	0.300	0.270
NSC	5/Bump	0.35	1.5	0.7 to 4.5	1.5	-40°C to 125°C	LP5952TL-2.0	SMD 131-3875	0.760	0.600	0.520	0.430
2.1 V												
NSC	5/Bump Micro SMD	0.15	2	2.5 to 6	0.06	-40°C to 125°C	LP3995ITL-2.1	SMD 823-8472	0.490	0.360	0.260	– –
2.2 V												
NSC	6/LLP	0.1	–	2.5 to 5.5	0.08	-40°C to 125°C	LP5900SD-2.2	SMD 131-2644	0.750	0.600	0.480	0.430
2.4 V												
NSC	5/Bump Micro SMD	0.15	2	2.5 to 6	0.06	-40°C to 125°C	LP3999ITL-2.4	SMD 823-8545	0.420	0.310	0.260	– –
2.5 V												
MAX	3/SOT-23	0.0004		to 12.6		-40°C to 85°C	MAX6002EUR+T	NEW SMD 167-3167	0.790	0.560	0.440	0.400
NSC	5/Bump Micro SMD	0.005	–	2.7 to 6	0.2	-40°C to 125°C	LP3983ITL-2.5	SMD 823-8421	0.370	0.330	0.260	– –
TI	3/SOT-23	0.025	2	2.5 to 5.5	1	-40°C to 125°C	REF2925AIDBZTG4	SMD 137-9266	0.990	0.800	0.640	0.540
ADI	5/TSOT	0.005		to		-40°C to 125°C	ADR391BUJZ-R2	NEW SMD 165-1320	1.780	1.370	1.140	1.030
TI	8/SOIC	0.01	1	to		-25°C to 85°C	LM236D-2-5..	NEW SMD 164-8657	0.830	0.660	0.550	0.520
MCHIP	5/SOT-23A	0.05	2	2.7 to 6	0.085	-40°C to 125°C	TC1014-2.5VCT713	SMD 143-9490	0.270	0.189	0.147	– –
ZET	3/TO-92	0.05	2.5	4.2 to 20	2	-55°C to 125°C	ZMR250C	113-2792	1.200	0.820	0.540	0.370
ZET	3/SOT-23	0.05	2.5	4.2 to 20	2	-55°C to 125°C	ZMR250F	SMD 113-2791	0.890	0.760	0.480	0.370
NSC	5/SOT-23	50		to 16		to	LP2982AIM5-3.0/NOPB	NEW SMD 168-5496	0.660	0.510	0.420	0.390
LT	5/SOT-23	0.1		to 20		-40°C to 125°C	LT1761ES5-2.5#TRMPBF	NEW SMD 166-3776	1.940	1.500	1.200	1.000
TI	5/SOT-23	0.1	1.5	2.56 to 10	0.06	-40°C to 85°C	REG101NA-2.5	SMD 121-2348	1.270	1.080	1.000	– –
TI	5/SOT-23	0.1	1.5	2.56 to 10	0.06	-40°C to 85°C	REG101NA-2.5.	SMD 843-5162	0.550	0.460	0.430	– –
TI	5/SOT-23	0.1	3	2.7 to 10	0.071	-40°C to 125°C	TPS76925DBVT	SMD 846-1511	0.470	0.420	0.340	– –
NSC	6/LLP	0.1	–	2.5 to 5.5	0.08	-40°C to 125°C	LP5900SD-2.5	SMD 131-2645	0.770	0.610	0.490	0.430
NSC	5/SOT-23	150		to 6		to	LP3988IMF-2.5/NOPB	NEW SMD 168-5742	0.540	0.450	0.370	0.330
NSC	4/Micro SMD	150		to 5.5		to	LP5900TL-2.5/NOPB	NEW SMD 168-5770	1.100	0.900	0.730	0.670
TI	5/SOT	150		to 5.5		to	TPS78225DDCT	NEW SMD 168-4755	1.030	0.800	0.650	0.560
MICR	5/SOT-23	0.15		to 6		-40°C to 125°C	MIC5255-2.5YM5 TR	NEW SMD 166-3081	0.510	0.380	0.310	0.270
MICR	5/SOT-23	0.15		to 16		-40°C to 125°C	MIC5205-2.5YM5 TR	NEW SMD 166-3084	0.400	0.300	0.240	0.220
MICR	5/SOT-23	0.15		to 5.5		-40°C to 125°C	MIC5265-2.5YD5 TR	NEW SMD 166-3086	0.330	0.240	0.194	0.183
LT	5/SOT-23	0.15		to 6.5		to	LTC1844ES5-2.5#TRMPBF	NEW SMD 166-3866	2.360	1.830	1.460	1.230
NSC	5/SOT-23	0.15	–	1.8 to 5.5	0.2	-40°C to 125°C	LP5951MF-2.5	SMD 131-2655	0.440	0.350	0.290	0.260
NSC	5/SC-70	0.15	–	to 5.5	0.2	-40°C to 125°C	LP5951MG-2.5	SMD 132-0989	0.320	0.270	0.210	0.181
LT	8/MSOP	0.15	–	-20 to 20	0.3	-40°C to 125°C	LT1762EMS8-2.5#PBF	SMD 127-3609	2.200	1.430	1.200	– –
NSC	8/SOIC	0.15	1	2.7 to 7	0.135	-40°C to 125°C	LP2966IMM-2518.	SMD 129-0941	1.380	1.090	0.880	0.790
NSC	8/MSOP	0.15	1	2.635 to 7	0.135	-40°C to 85°C	LP2966IMM-2525	SMD 977-8411	1.140	0.880	0.710	– –
NSC	5/SOT-23	0.15	–	2 to 6	0.06	-40°C to 85°C	LP3990MF-2.5	SMD 131-2629	0.430	0.340	0.280	0.250
NSC	5/SOT-23	0.15	1	2.5 to 16	0.28	-40°C to 125°C	LP2985AIM5-2.5	SMD 977-8543	0.500	0.350	0.310	– –
NSC	5/SOT-23	0.15	1.5	2.5 to 16	0.28	-40°C to 125°C	LP2985IM5-2.5	SMD 977-8535	0.620	0.530	0.380	– –
NSC	5/SOT-23	0.15	1.5	2.5 to 16	0.28	-40°C to 125°C	LP2985IM5-2.5.	SMD 332-6627	0.590	0.520	0.370	– –
NSC	8/Bump Micro SMD	0.15	–	2.56 to 6	0.06	-40°C to 125°C	LP3986TL-2525	SMD 100-8071	1.000	0.640	0.450	– –
MCHIP	5/SOT-23A	0.15	0.5	3 to 6	0.27	-40°C to 125°C	TC1185-2.5VCT713	SMD 108-4316	0.290	0.200	0.165	– –
TI	5/SOT-23	0.15	3	2.86 to 10	0.36	-40°C to 125°C	TPS76325DBVT	SMD 846-1350	0.340	0.280	0.250	– –
TOR	5/SOT-23	0.15	2	2.7 to 10	0.2	-40°C to 85°C	XC6204B252MR	SMD 360-5814	0.550	0.470	0.430	– –
TOR	4/SSOT-24	0.15	2	2.82 to 6	0.32	-40°C to 85°C	XC6215B252NR	SMD 105-7808	0.420	0.370	0.300	– –
TI	5/SC-70	0.15	–	2.5 to 6.5	0.17	-40°C to 125°C	TPS71725DCKT	SMD 132-9607	0.810	0.610	0.520	– –
ST	5/SOT-23	0.15	–	to 6	0.06	-40°C to 125°C	LD3985M25R	SMD 125-0120	0.720	0.480	0.390	0.370
MAX	6/SOT-23	0.2		to 12		-40°C to 85°C	MAX8881EUT50+T	NEW SMD 167-3159	1.740	1.250	0.970	0.870
TI	5/SOT-23	0.2	2	2.7 to 5.5	0.12	-40°C to 85°C	TPS73025DBVT	SMD 113-5392	0.290	0.240	0.191	0.168
TI	5/DSBGA	0.2	2	2.7 to 5.5	0.12	-40°C to 85°C	TPS73025YZQT	113-5393	0.390	0.310	0.260	0.240
TI	5/SOT	0.2	2	2.7 to 6.5	0.1	-40°C to 85°C	TPS79925DDCT	SMD 113-5400	0.780	0.590	0.450	0.370
TI	5/DSBGA	0.2	2	2.7 to 6.5	0.1	-40°C to 85°C	TPS79925YZUT	SMD 113-5401	0.630	0.590	0.520	0.450
SIP	5/SOT-23	0.2	3	3 to 7	0.5	-40°C to 125°C	SP6201EM5-L-2-5	SMD 938-8141	0.490	0.400	0.350	0.330
NSC	5/SOT-23	250		to 16		to	LP2992AIM5-2.5/NOPB	NEW SMD 168-5692	0.720	0.590	0.480	0.450
NSC	5/SOT-23	250		to 16		to	LP2992IM5-2.5/NOPB	NEW SMD 168-5695	0.700	0.570	0.470	0.440
TI	6/SOT-223	0.25		to 5.5		-40°C to 125°C	TPS79425DCQ..	NEW SMD 162-4392	1.200	0.970	0.710	0.640
MCHIP	3/SOT-23	0.25	–	2.3 to 6	–	-40°C to 125°C	MCP1700T-2502E/TT.	NEW SMD 160-5553	0.380	0.280	0.220	– –
MCHIP	3/SOT23A	0.25		to 13.2		-40°C to 125°C	MCP1702T-2502E/CB	NEW SMD 162-7173	0.520	0.390	0.310	– –
MCHIP	/	0.25		to		to	MCP1700T-2502E/MB	NEW 162-7196	0.380	0.280	0.220	– –
TOR	5/SOT-25	0.25	2	2.6 to 6	0.1	-40°C to 85°C	XC6217B252MR	SMD 127-6453	0.570	0.470	0.390	– –
TI	5/SOT-23	0.25	2	2.65 to 5.5	0.04	-40°C to 85°C	TPS73225DBVT	SMD 113-5404	1.550	1.080	0.770	0.620
TI	8/MSOP	0.25	3	2.7 to 5.5	0.145	-40°C to 85°C	TPS79425DGNT	SMD 113-5409	1.040	0.960	0.760	0.610
TOR	5/SOT-23	0.25	2	2.9 to 10	0.4	-40°C to 85°C	XC6201P252MRN	SMD 110-6656	0.460	0.400	0.360	0.320
TOR	3/SOT-89	0.25	2	2.9 to 10	0.4	-40°C to 85°C	XC6201P252PR	SMD 360-5670	0.480	0.420	0.380	0.340
NSC	8/Mini SOIC	300		to 6		to	LP3981IMM-2.5/NOPB	NEW SMD 168-5562	0.650	0.500	0.410	0.380
NSC	6/LLP	300		to 6		to	LP3981ILD-2.5/NOPB	NEW SMD 168-5736	0.650	0.540	0.440	0.400
LT	8/MSOP	0.3		to 20		-40°C to 125°C	LT1962EMS8-2.5#PBF	NEW SMD 166-3519	3.200	2.490	1.990	1.660
NSC	8/MSOP	0.3	2	2.62 to 6	0.12	-40°C to 85°C	LP3982IMM-2.5	SMD 977-9574	0.540	0.420	0.350	– –
NSC	8/MSOP	0.3	2	2.62 to 6	0.12	-40°C to 85°C	LP3982IMM-2.5.	SMD 580-1321	0.260	0.185	0.182	– –
TI	5/SOT-23	0.4		to 10		-40°C to 85°C	REG113NA-2.5/3K	NEW SMD 162-4406	1.830	1.440	1.080	0.990
TI	8/MSOP	0.4		to 10		-40°C to 85°C	REG113EA-2.5/2K5	NEW SMD 162-4407	2.110	1.580	1.220	1.080
INTS	8/MSOP	0.4	1.8	2.3 to 6.5	0.25	-40°C to 85°C	ISL9007IUFZ	SMD 136-1029	1.620	1.120	1.000	0.860
NSC	3/SOT-223	0.4	5	0 to 26	–	-40°C to 125°C	LM2937IMP-2.5	SMD 977-9299	1.260	0.850	0.660	– –
NSC	3/TO-220	500		to 26		to	LM2937ET-2.5/NOPB	NEW 168-5639	1.390	1.140	0.940	0.860
ADI	8/MSOP	0.5	2	2.5 to 5.5	0.25	-40°C to 125°C	ADP1715ARMZ-2.5	SMD 146-1505	1.380	1.160	0.900	0.840
LT	8/SOIC	0.5	–	-20 to 20	0.3	-40°C to 125°C	LT1763CS8-2.5#PBF	SMD 127-3616	3.900	2.200	1.640	– –
TI	8/SOIC	0.5	2	2.7 to 10	0.285	-40°C to 125°C	TPS77625D	SMD 846-1651	0.870	0.720	0.610	– –
TI	6/SOT-223	0.5	3	2.7 to 5.5	0.11	-40°C to 125°C	TPS79525DCQG4	SMD 120-7354	1.500	1.250	1.120	– –
ST	8/SO	0.5	2	2.9 to 20	0.4	-40°C to 125°C	KF25BD	SMD 108-7076	0.970	0.840	0.620	0.520
ST	5/PPAK	0.5	2	2.9 to 40	0.4	-40°C to 125°C	LF25CPT	SMD 107-7163	1.090	0.740	0.600	0.560
NSC	3/TO-252 (D-Pak)	0.5	2	2.93 to 10	0.43	-40°C to 125°C	LP38691DT-2.5	SMD 100-8051	0.990	0.620	0.450	– –
NSC	5/SOT-223	0.5	2	2.93 to 10	0.43	-40°C to 125°C	LP38693MP-2.5	SMD 100-8060	0.720	0.540	0.390	– –
ST	3/TO-252 (D-Pak)	0.5	2	3.5 to 40	1	-40°C to 125°C	LF25ABDT	SMD 108-7182	1.090	0.740	0.600	0.560
TI	8/SOIC	0.5	2	3.5 to 10	0.33	0°C to 125°C	TPS71025DG4	SMD 123-5008	1.530	1.190	1.170	1.130
NSC	8/SOIC	0.5	1.25	3.61 to 16	0.31	-40°C to 85°C	LP2989IM-2.5	SMD 948-6569	1.350	0.960	0.780	– –
TI	6/SON	0.6		to 6		-40°C to 85°C	TPS62263DRVT	NEW SMD 164-7917	2.140	1.580	1.320	1.220
NSC	5/SOT-223	80		to 7		to	LP3874EMP-2.5/NOPB	NEW SMD 168-5725	2.020	1.660	1.360	1.250
LT	3/SOT-223	0.8		to 15		0°C to 70°C	LT1118CST-2.5#PBF	NEW SMD 166-3359	4.730	3.540	2.840	2.360
NSC	3/SOT-223	0.8	–	3.9 to 10	–	0°C to 125°C	LM1117MP-2.5/NOPB	NEW SMD 156-4629	0.650	0.530	0.410	0.370
ST	3/SOT-223	0.8	–	to 15	–	0°C to 125°C	LD1117S25CTR	NEW SMD 156-4297	0.370	0.300	0.270	0.220
TOR	5/SOT-89	0.8	2	2.6 to 6	0.1	-40°C to 85°C	XC6210B252PR	SMD 127-6443	0.790	0.650	0.530	– –

RL Re-reeling available

Fixed Voltage Regulators - continued

Mftr.	Pins/Pkg	Output Current (A)	Output Tolerance (%)	Input Voltage Range (V)	Dropout Voltage (V)	Operating Temp. Range	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+
2.5 V												
ST	3/TO-252 (D-Pak)	0.8	2	3.6 to 15	1.1	0°C to 125°C	LD1117DT25	SMD 108-7167●	0.620	0.390	0.350	0.330
ST	3/TO-252 (D-Pak)	0.8	2	3.6 to 15	1.1	0°C to 125°C	LD1117DT25C	SMD 108-7168●	0.640	0.530	0.420	– –
ST	3/SOT-223	0.8	1	3.6 to 15	1.1	0°C to 125°C	LD1117S25	SMD 113-2000●	1.070	0.790	0.640	– –
ST	3/SOT-223	0.8	1	3.6 to 15	1.1	0°C to 125°C	LD1117S25TR-E	SMD 120-2825●	0.760	0.550	0.460	– –
ST	3/TO-220	0.8	1	3.6 to 15	1.1	-40°C to 125°C	LD1117V25C	108-7173●	1.200	1.000	0.790	0.640
NSC	3/SOT-223	0.8	0.4	3.7 to 20	1.2	0°C to 125°C	LM1117MP-2.5	SMD 977-9205● RL	0.840	0.630	0.530	– –
NSC	5/SOT-223	0.8	1.5	2.74 to 7	0.24	-40°C to 125°C	LP3871EMP-2.5	SMD 818-8238●	1.170	1.000	0.810	– –
NSC	5/SOT-223	0.8	1.5	2.74 to 7	0.24	-40°C to 125°C	LP3961EMP-2.5	SMD 977-8713●	3.060	2.250	1.850	– –
NSC	5/TO-263 (D2-Pak)	0.8	1.5	2.74 to 7	0.24	-40°C to 125°C	LP3961ES-2.5	SMD 948-6437●	2.570	1.740	1.420	– –
NSC	5/SOT-223	0.8	1.5	2.74 to 7	0.24	-40°C to 125°C	LP3964EMP-2.5	SMD 977-8748●	2.230	1.830	1.520	– –
NSC	5/TO-263 (D2-Pak)	0.8	1.5	2.74 to 7	0.24	-40°C to 125°C	LP3964ES-2.5	SMD 948-6372●	1.570	1.190	0.980	– –
NSC	5/TO-220	0.8	1.5	2.74 to 7	0.24	-40°C to 125°C	LP3964ET-2.5	948-6402●	2.450	1.880	1.530	– –
NSC	5/TO-220	0.8	1.5	2.74 to 7	0.24	-40°C to 125°C	LP3964ET-2.5.	332-6913	1.230	0.920	0.760	– –
TOR	4/SSOT-24	0.8	2	2.6 to 6	0.1	-40°C to 85°C	XC6210B252MR	SMD 105-7800●	0.850	0.730	0.580	– –
NSC	3/TO-252	1		to 10		to	LP38690DT-2.5/NOPB	NEW SMD 168-5709●	1.020	0.830	0.690	0.630
NSC	6/LLP	1		to 10		to	LP38690SD-2.5/NOPB	NEW SMD 168-5710●	1.020	0.830	0.690	0.630
MAX	16/TSSOP	1		to 5.5		-40°C to 85°C	MAX8869EUE50+	NEW SMD 167-3158●	3.880	2.770	2.160	1.940
MICR	8/SOIC	1		to 16		-40°C to 125°C	MIC39101-2.5YM	NEW SMD 166-3093●	1.390	1.040	0.830	0.750
ADI	3/SOT-223	1		to 8		-40°C to 85°C	ADP3338AKCZ-2.5RL7.	NEW SMD 165-1282●	1.860	1.450	1.180	1.090
MAX	16/TSSOP	1	–	2.7 to 5.5	–	-40°C to 85°C	MAX8869EUE25+	SMD 142-2366●	3.170	2.250	1.820	1.650
TI	6/SOT-223	1	2	2.7 to 5.5	0.2	-40°C to 125°C	TPS79625DCQG4	SMD 120-7358●	1.560	1.290	1.180	– –
TI	5/TO-263 (D2-Pak)	1	2	2.7 to 5.5	0.2	-40°C to 125°C	TPS79625KTTT	SMD 113-5420●	2.610	1.970	1.560	1.230
TI	5/TO-263 (D2-Pak)	1	2	2.8 to 6	0.17	-40°C to 125°C	TPS72525KTTT	SMD 113-5428●	2.610	1.780	1.480	1.220
NSC	3/TO-252 (D-Pak)	1	2.5	2.95 to 10	0.45	-40°C to 125°C	LP38690DT-2.5	SMD 100-8047●	0.790	0.580	0.440	– –
NSC	5/SOT-223	1	2.5	2.95 to 10	0.45	-40°C to 125°C	LP38692MP-2.5	SMD 100-8054●	0.700	0.520	0.410	– –
NSC	3/TO-252 (D-Pak)	1	1.5	3.05 to 10	0.55	0°C to 125°C	LP8340CDT-2.5	SMD 949-3328●	1.170	0.810	0.660	– –
NSC	3/TO-252 (D-Pak)	1	1.5	3.05 to 10	0.55	0°C to 125°C	LP8340CDT-2.5.	SMD 580-1370	0.340	0.250	0.220	– –
TI	4/SOT-223	1	1	3.8 to 15	1.2	-40°C to 85°C	REG1117A-2.5	SMD 141-7414●	2.020	1.270	1.120	– –
TI	3/TO-263 (D2-Pak)	1	1	3.8 to 15	1.2	-40°C to 85°C	REG1117FA-2.5KTTT	SMD 109-7498●	2.230	1.490	1.210	– –
TS	3/SOT-223	1	2	4 to 7	1.5	-20°C to 85°C	TS1117CW-2.5	SMD 720-8340●	0.640	0.320	0.210	– –
NSC	5/SOT-223	1.5		to 7		to	LP3852EMP-2.5/NOPB	NEW SMD 168-5700●	3.500	2.880	2.350	2.160
NSC	5/SOT-223	1.5		to 7		to	LP3855EMP-2.5/NOPB	NEW SMD 168-5705●	3.500	2.880	2.350	2.160
NSC	5/TO-263	150		to 7		to	LP3875ES-2.5/NOPB	NEW SMD 168-5729●	2.740	2.250	1.840	1.690
LT	8/SOIC	1.5		to 20		-40°C to 125°C	LT1963AES8-2.5#PBF	NEW SMD 166-3524●	4.260	3.190	2.550	2.130
NSC	5/SOT223	1.5	–	2.5 to 7	–	-40°C to 125°C	LP3962EMP-2.5/NOPB	NEW SMD 156-4737●	1.930	1.540	1.250	1.110
NSC	5/SOT223	1.5	–	2.5 to 7	–	-40°C to 125°C	LP3965EMP-2.5/NOPB	NEW SMD 156-4739●	1.930	1.540	1.250	1.110
NSC	16/TSSOP	1.5	–	to 14	–	-40°C to 125°C	LM2651MTC-2.5/NOPB	NEW SMD 156-4637●	3.290	2.690	2.210	1.840
LT	3/SOT-223	1.5	–	-20 to 20	0.34	-40°C to 125°C	LT1963AEST-2.5#PBF	SMD 127-3630●	4.500	2.540	1.830	– –
ST	3/TO-252 (D-Pak)	1.5	1	3.8 to 30	1.3	-40°C to 125°C	LD1086DT25	SMD 109-5394●	1.240	0.970	0.700	0.620
ST	3/TO-220	1.5	1	3.8 to 30	1.3	-40°C to 125°C	LD1086V25	109-4236●	1.450	1.060	0.800	– –
NSC	5/TO-263 (D2-Pak)	1.5	1.5	2.5 to 7	0.24	-40°C to 125°C	LP3852ES-2.5	SMD 818-7886●	2.810	2.400	1.900	– –
NSC	5/TO-220	1.5	1.5	2.5 to 7	0.24	-40°C to 125°C	LP3852ET-2.5	818-7924●	3.880	3.170	2.600	– –
NSC	5/SOT-223	1.5	–	2.5 to 7	0.38	-40°C to 125°C	LP3872EMP-2.5	SMD 131-2621●	1.710	1.360	1.090	0.970
NSC	5/TO-220	1.5	1.5	2.5 to 7	0.24	-40°C to 125°C	LP3855ET-2.5	818-8114●	3.880	3.170	2.600	– –
NSC	5/SOT-223	1.5	1.5	2.83 to 7	0.38	-40°C to 125°C	LP3872EMPX-2.5	SMD 823-8995●	1.860	1.580	1.260	– –
NSC	5/SOT-223	1.5	1.5	2.88 to 7	0.38	-40°C to 125°C	LP3875EMP-2.5	SMD 818-8653●	2.390	1.740	1.320	– –
NSC	5/TO-220	1.5	1.5	2.88 to 7	0.38	-40°C to 125°C	LP3875ET-2.5	820-6945●	2.120	1.710	1.470	– –
TS	3/TO-252	1.5	2	4 to 7	1.5	-20°C to 85°C	TS1086CP-2.5	SMD 720-8316●	1.070	0.530	0.350	– –
TS	3/TO-220	1.5	2	4 to 7	1.5	-20°C to 85°C	TS1086CZ-2.5	720-8308●	1.110	0.560	0.370	– –
TI	20/HTSSOP	2	2	2.7 to 5	0.21	-40°C to 125°C	TPS75225QPWP	SMD 113-5445●	2.170	1.750	1.410	1.310
NSC	5/TO-263	3		to 7		to	LP3856ES-2.5/NOPB	NEW SMD 168-5707●	5.670	4.660	3.820	3.500
NSC	5/TO-263	3		to 7		to	LP3873ES-2.5/NOPB	NEW SMD 168-5723●	3.470	2.860	2.340	2.150
NSC	5/TO-263	3		to 7		to	LP3876ES-2.5/NOPB	NEW SMD 168-5732●	3.470	2.860	2.340	2.150
MICR	3/TO-263	3		to 16		-40°C to 125°C	MIC39300-2.5WU	NEW SMD 166-3095●	2.950	2.220	1.770	1.610
LT	5/D2PAK	3		to 20		-40°C to 125°C	LT1764AEQ-2.5#PBF	NEW SMD 166-3481●	6.980	5.230	4.190	3.500
TI	20/HTSSOP	3	–	3 to 6	–	-40°C to 85°C	TPS54315PWP	NEW SMD 156-4897●	4.760	3.920	3.490	2.850
ST	3/TO-220	3	1	3.8 to 30	1.3	-40°C to 125°C	LD1085V25	108-7154●	1.610	1.330	1.060	0.880
NSC	5/TO-263 (D2-Pak)	3	1.5	2.5 to 7	0.39	-40°C to 125°C	LP3853ES-2.5	SMD 818-7967●	5.830	4.770	3.890	– –
NSC	5/TO-220	3	1.5	2.5 to 7	0.39	-40°C to 125°C	LP3856ET-2.5	818-8190●	5.830	4.770	3.890	– –
NSC	5/TO-220	3	1.5	3.3 to 7	0.8	-40°C to 125°C	LP3873ET-2.5	818-8491●	2.730	2.210	1.910	– –
TS	3/TO-252	3	2	4 to 7	1.5	-20°C to 85°C	TS1085CP-2.5	SMD 720-8278●	3.130	1.560	1.040	– –
TS	3/TO-220	3	2	4 to 7	1.5	-20°C to 85°C	TS1085CZ-2.5	720-8260●	1.310	0.660	0.430	– –
LT	8/SOIC	5	–	2.8 to 10	0.35	0°C to 125°C	LT1573CS8-2.5#PBF	SMD 127-3587●	3.550	2.000	1.440	– –
TS	3/TO-263	5	2	4 to 7	1.5	-20°C to 85°C	TS1084CM-2.5	SMD 720-8235●	1.790	0.900	0.590	– –
TS	3/TO-220	5	2	4 to 7	1.5	-20°C to 85°C	TS1084CZ-2.5	720-8227●	1.400	0.700	0.460	– –
SIP	5/TO-263 (D2-Pak)	7	2	3.3 to 7	0.54	-40°C to 125°C	SPX1580T5-L-2-5	SMD 938-8478●	1.180	0.970	0.820	0.750
2.6 V												
TI	8/SOIC	0.1	5	4.75 to 20	1.7	0°C to 125°C	UA78L02ACD	SMD 146-1073●	0.350	0.240	0.174	0.122
NSC	8/Bump Micro SMD	0.15	–	2.72 to 6	0.06	-40°C to 125°C	LP3986TL-2626	SMD 100-8072●	0.930	0.690	0.510	– –
TI	5/SC-70	0.15	—	2.5 to 6.5	0.17	-40°C to 125°C	TPS71726DCKTG4	SMD 132-9608●	0.560	0.430	0.360	– –
2.7 V												
TI	5/SOT	150		to 5.5		to	TPS78227DDCT	NEW SMD 168-4756●	1.030	0.800	0.650	0.560
NSC	5/Bump Micro SMD	0.15	—	2.76 to 6	0.06	-40°C to 125°C	LP3985ITL-2.7	SMD 100-8070●	0.680	0.520	0.410	– –
TOR	5/SOT-23	0.15	2	2.9 to 10	0.2	-40°C to 85°C	XC6204B272MR	SMD 460-1257●	0.520	0.450	0.410	– –
TI	5/DSBGA	0.2	2	2.8 to 6.5	0.1	-40°C to 85°C	TPS79927YZUT	SMD 118-0161●	0.770	0.630	0.520	0.410
2.8 V												
LT	5/SOT-23	0.1		to 20		-40°C to 125°C	LT1761ES5-2.8#TRMPBF	NEW SMD 166-3777●	1.940	1.500	1.200	1.000
TI	5/SOT-23	0.1		to 10		-40°C to 125°C	REG101NA-2.8/250	NEW SMD 162-4409●	1.750	1.400	1.120	0.980
NSC	5/SOT-23	100		to 16		to	LP2981AIM5-2.8/NOPB	NEW SMD 168-5675●	0.630	0.510	0.420	0.390
TI	5/SOT-23	0.1	1.25	3 to 16	0.2	-40°C to 125°C	LP2981-28DBVTE4	SMD 105-3707●	0.290	0.280	0.270	– –
MCHIP	5/SOT-23A	0.1	0.5	2.98 to 6	0.18	-40°C to 125°C	TC1015-2.8VCT713	SMD 121-2684●	0.360	0.250	0.210	– –
TI	5/SOT	150		to 5.5		to	TPS78228DDCT	NEW SMD 168-4757●	1.030	0.800	0.650	0.560
NSC	5/SOT-23	150		to 6		to	LP3985IM5-2.8/NOPB	NEW SMD 168-5552●	0.510	0.400	0.330	0.300
NSC	5/SOT-23	150		to 16		to	LP2985IM5-2.8/NOPB	NEW SMD 168-5560●	0.490	0.380	0.310	0.290
TI	5/SOT-23	0.15	1.5	3 to 16	0.28	-40°C to 125°C	LP2985-28DBVTE4	SMD 105-3676●	0.480	0.340	0.290	– –
TI	5/SOT-23	0.15	1	3 to 16	0.28	-40°C to 125°C	LP2985A-28DBVT	SMD 105-3665●	0.460	0.370	0.290	– –
NSC	4/Bump Micro SMD	0.15	1	2.86 to 6	0.06	-40°C to 125°C	LP3990TL-2.8	SMD 100-8083●	0.390	0.300	0.220	– –
NSC	6/LLP	0.15	2	2.86 to 6	0.06	-40°C to 125°C	LP3995ILD-2.8	SMD 949-0493●	0.370	0.310	0.260	– –
NSC	6/LLP	0.15	2	2.86 to 6	0.06	-40°C to 125°C	LP3995ILD-2.8.	SMD 474-5425	0.250	0.200	0.157	– –
NSC	5/Bump Micro SMD	0.15	2	2.86 to 6	0.06	-40°C to 125°C	LP3999ITL-2.8	SMD 823-8561●	0.420	0.320	0.270	– –
TOR	5/SOT-23	0.15	2	3 to 10	0.2	-40°C to 85°C	XC6204B282MR	SMD 360-5826●	0.550	0.470	0.430	– –
TOR	4/SSOT-24	0.15	2	3.12 to 6	0.32	-40°C to 85°C	XC6215B282NR	SMD 105-7809●	0.420	0.370	0.300	– –
ZET	5/SOT-23-5	0.15	2	2.885 to 7	0.085	-40°C to 85°C	ZXCL280E5TA	SMD 113-2754●	0.630	0.530	0.330	– –
NSC	5/SC-70	0.15	–	to 5.5	0.2	-40°C to 125°C	LP5951MG-2.8	SMD 132-0990●	0.450	0.370	0.300	0.260
ZET	5/SC-70	0.15	–	2.0 to 5.5	0.28	-40°C to 85°C	ZXCL280H5TA	SMD 146-1559●	0.570	0.430	0.380	0.340
TI	5/SOT-23	0.2	2	2.92 to 5.5	0.12	-40°C to 85°C	TPS79328DBVRG4	SMD 128-7687●	0.270	0.240	0.177	0.149
NSC	4/Micro SMD	0.2	–	2.2 to 5.5	–	-40°C to 125°C	LP5990TM-2.8	SMD 137-0033●	0.760	0.580	0.500	0.420
NSC	4/Micro SMD	0.2	–	2.2 to 5.5	–	-40°C to 125°C	LP5990TM-2.8	SMD 137-0033●	0.760	0.580	0.500	0.420
TI	5/SOT-23	0.2	–	2.5 to 6.5	0.17	-40°C to 150°C	TPS73028DBVTG4	SMD 132-9610●	0.310	0.250	0.200	– –
TOR	5/SOT-25	0.25	2	2.9 to 6	0.1	-40°C to 85°C	XC6217B282MR	SMD 127-6454●	0.570	0.470	0.390	– –
TOR	5/SOT-89	0.8	2	2.9 to 6	0.1	-40°C to 85°C	XC6210B282PR	SMD 127-6444●	0.920	0.760	0.610	– –

RL Re-reeling available

Mftr.	Pins/Pkg	Output Current (A)	Output Tolerance (%)	Input Voltage Range (V)	Dropout Voltage (V)	Operating Temp. Range	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+
2.8 V												
TOR	4/SSOT-24	0.8	2	2.9 to 6	0.1	-40°C to 85°C	XC6210B282MR	SMD 105-7801●	0.850	0.730	0.580	– –
NSC	6/LLP	0.1	–	2.5 to 5.5	0.08	-40°C to 125°C	LP5900SD-2.8	SMD 131-2646●	1.160	0.910	0.760	0.660
NSC	5/SOT-23	0.15	–	1.8 to 5.5	0.2	-40°C to 125°C	LP5951MF-2.8	SMD 131-2656●	0.460	0.370	0.300	0.270
NSC	5/SOT-23	0.15	–	2 to 6	0.06	-40°C to 85°C	LP3990MF-2.8	SMD 131-2630●	0.620	0.490	0.390	0.360
NSC	4/Micro SMD	0.3	–	to 3.6	0.075	-40°C to 125°C	LP3991TL-2.8	SMD 132-0987●	0.800	0.640	0.520	0.450
2.85 V												
NSC	5/Bump Micro SMD	0.15	2	2.91 to 6	0.06	-40°C to 125°C	LP3995ITL-2.85	SMD 100-8084●	0.590	0.380	0.280	– –
TI	5/DSBGA	0.2	2	2.95 to 6.5	0.1	-40°C to 85°C	TPS799285YZUT	SMD 118-0164●	0.680	0.610	0.520	0.440
TI	5/SOT-23	0.2	2	2.97 to 5.5	0.12	-40°C to 85°C	TPS793285DBVT	SMD 846-1775●	0.350	0.300	0.260	– –
SIP	5/SOT-23	0.2	3	3.35 to 7	0.5	-40°C to 125°C	SP6201EM5-L-2-85	SMD 938-8168●	0.550	0.450	0.380	0.360
TI	5/SOT-23	0.2	–	2.5 to 6.5	0.17	-40°C to 150°C	TPS730285DBVTG4	SMD 132-9609●	0.310	0.250	0.200	– –
SIP	8/DFN	0.5	2	3 to 6	0.5	-40°C to 125°C	SP6205ER-L-2-85	SMD 938-8370●	1.320	1.080	0.910	0.840
NSC	3/TO-252 (D-Pak)	0.8	0.4	4.05 to 20	1.2	0°C to 125°C	LM1117DT-2.85	SMD 119-7391●	1.090	0.830	0.680	– –

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Mftr.	Pins/Pkg	Output Current (A)	Output Tolerance (%)	Input Voltage Range (V)	Dropout Voltage (V)	Operating Temp. Range	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+
3 V												
MAX	3/SOT-23	0.0005		to 12.6	0.1	-40°C to 85°C	MAX6012AEUR+T	NEW SMC 167-3168●	3.390	2.420	1.880	1.700
TI	5/SC-70	0.01	4	1.8 to 5.5	0.11	-40°C to 85°C	TPS79730DCKT	SMC 113-5378●	0.600	0.510	0.390	0.350
TI	5/SC-70	0.05	4	2.5 to 24	0.415	-40°C to 125°C	TPS71530DCKR	SMC 113-5382●	0.700	0.580	0.460	0.370
TI	5/SOT-23	0.05		3.057 to 10	0.057	-40°C to 125°C	TPS79030DBVT	SMC 113-5381●	0.440	0.400	0.360	0.320
TI	5/SOT-23	0.05	3	3.057 to 10	0.057	-40°C to 125°C	TPS77030DBVTG4	SMC 120-7348●	0.430	0.350	0.330	– –
NSC	5/SOT-23	0.05	0.5	3.12 to 16	0.12	-40°C to 125°C	LP2980AIM5-3.0	SMC 977-9949●	0.410	0.330	0.310	– –
NSC	5/SOT-23	0.05	1	3.12 to 16	0.12	-40°C to 125°C	LP2980IM5-3.0	SMC 977-9612●	0.280	0.220	0.180	0.157
NSC	5/SOT-23	0.05	2	3.12 to 16	0.12	-40°C to 125°C	LP2982IM5-3.0	SMC 977-9833●	0.460	0.360	0.300	0.270
TI	5/SOT-23	0.05	2	3.2 to 16	0.12	-40°C to 125°C	TPS76030DBVT	SMC 846-1260●	0.470	0.410	0.320	– –
NSC	8/SOIC	0.05	3	3.5 to 40	0.2	-40°C to 125°C	LM2936BM-3.0.	SMC 128-6859●	0.990	0.870	0.770	0.690
NSC	3/TO-252 (D-Pak)	0.05	3	3.5 to 40	0.2	-40°C to 125°C	LM2936DT-3.0.	128-6862●	1.090	0.970	0.870	0.790
NSC	8/SOIC	0.05	3	3.5 to 60	0.2	-40°C to 125°C	LM2936HVBMA-3.0	SMC 128-6865●	1.470	1.190	1.030	0.910
NSC	8/SOIC	0.05	3	3.5 to 40	0.2	-40°C to 125°C	LM2936M-3.0	SMC 128-6868●	1.380	0.970	0.780	0.700
NSC	3/SOT-223	0.05		3.5 to 60	0.2	-40°C to 125°C	LM2936MP-3.0	SMC 131-2708●	1.930	1.580	1.450	1.420
NSC	3/TO-92	0.05		to 60	0.2	-40°C to 125°C	LM2936Z-3.0	SMC 131-2709●	1.830	1.440	1.160	1.050
NSC	8/Mini SOIC	0.05		3.5 to 60	0.2	-40°C to 125°C	LM2936MM-3.0	SMC 131-2710●	1.570	1.240	1.010	0.890
MCHIP	5/SOT-223	0.07		to 30	0.7	-40°C to 125°C	MCP1791T-3002E/DC	NEW SMC 167-5415●	1.510	1.020	0.800	– –
NSC	5/SC-70	0.08	4	2.7 to 6	0.33	-40°C to 125°C	LMS5213IM7-3.0.	SMC 580-1280	0.530	0.380	0.330	– –
NSC	5/SC-70	0.08	4	2.8 to 6	0.3	-40°C to 125°C	LMS5214IMG-3.0.	SMC 580-1011	0.580	0.420	0.360	– –
LT	5/SOT-23	0.1		to 20	0.3	-40°C to 125°C	LT1761ES5-3#TRMPBF	NEW SMC 166-3778●	1.940	1.500	1.200	1.000
TI	8/SOIC	0.1		to 10	0.06	-40°C to 85°C	REG101UA-3	NEW SMC 162-4408●	1.760	1.320	1.070	0.930
NSC	8/SOIC	100		to 30	380	to	LP2951CM-3.0/NOPB	NEW SMC 168-5665●	0.480	0.400	0.330	0.300
NSC	3/TO-92	100		to 30	380	to	LP2950ACZ-3.0/NOPB	NEW 168-5546●	0.630	0.490	0.400	0.370
NSC	5/SOT-23	100		to 16	200	to	LP2981AIM5-3.0/NOPB	NEW SMC 168-5571●	0.660	0.510	0.420	0.390
ST	3/TO-92	0.1	2	3.2 to 20	0.2	-40°C to 125°C	LE30CZ	975-5845●	0.710	0.510	0.430	– –
ST	8/SO	0.1	3	3.17 to 20	0.17	-40°C to 125°C	LK115D30	SMC 108-7196●	0.590	0.490	0.420	0.350
NSC	3/TO-92	0.1	0.5	0.3 to 30	0.38	-40°C to 125°C	LP2950CZ-3.0	949-3484●	0.530	0.430	0.400	0.390
ON	3/TO-92	0.1	0.5	3.38 to 30	0.38	-40°C to 125°C	LP2950CZ-3.0	334-3662▲	1.410	1.050	0.830	0.640
NSC	8/DIP	0.1		-0.3 to 30	0.38	-40°C to 125°C	LP2951CN-3.0	949-3476●	0.620	0.490	0.400	0.360
TI	5/SOT-23	0.1	1.25	3.2 to 16	0.2	-40°C to 125°C	LP2981-30DBVTE4	SMC 105-3703●	0.540	0.400	0.300	– –
TI	5/SOT-23	0.1	0.75	3.2 to 16	0.2	-40°C to 125°C	LP2981A-30DBVTE4	SMC 105-3689●	0.560	0.450	0.310	– –
NSC	5/SOT-23	0.1	2	3.5 to 16	0.2	-40°C to 125°C	LP2981IM5-3.0	SMC 977-9809●	0.870	0.630	0.510	0.490
NSC	5/SOT-23	0.1	2	3.5 to 16	0.2	-40°C to 125°C	LP2981IM5-3.0.	SMC 789-689	0.730	0.530	0.370	0.260
MCHIP	5/SOT-23A	0.1	0.5	3.18 to 6	0.18	-40°C to 125°C	TC1015-3.0VCT713	SMC 108-4315●	0.360	0.290	0.240	– –
TI	5/SOT-23	0.1		3.115 to 10	0.115	-40°C to 125°C	TPS78930DBVT	SMC 846-1732●	0.420	0.340	0.300	– –
NSC	6/LLP	0.1		2.5 to 5.5	0.08	-40°C to 125°C	LP5900SD-3.0	SMC 131-2647●	1.140	0.890	0.730	0.640
NSC	5/SOT-23	150		to 6	80	to	LP3988IMF-3.0/NOPB	NEW SMC 168-5553●	0.570	0.450	0.370	0.330
NSC	4/Micro SMD	150		to 5.5	80	to	LP5900TL-3.0/NOPB	NEW SMC 168-5763●	1.100	0.900	0.730	0.670
NSC	5/SOT-23	0.15		1.8 to 5.5	0.2	-40°C to 125°C	LP5951MF-3.0	SMC 131-2657●	0.470	0.370	0.300	0.270
LT	8/MSOP	0.15		-20 to 20	0.3	-40°C to 125°C	LT1762EMS8-3#PBF	SMC 127-3610●	2.200	1.430	1.200	– –
NSC	8/MSOP	0.15	1	3.135 to 7	0.135	-40°C to 85°C	LP2966IMM-3030	SMC 977-8438●	1.140	0.880	0.710	– –
NSC	8/MSOP-8	0.15	1	3.135 to 7	0.135	-40°C to 85°C	LP2966IMM-3030.	SMC 302-4349	0.280	– –	– –	– –
NSC	5/SOT-23	0.15	1	2.5 to 16	0.28	-40°C to 125°C	LP2985AIM5-3.0	SMC 977-8250●	0.640	0.440	0.370	– –
NSC	5/SOT-23	0.15	1.5	2.5 to 16	0.28	-40°C to 125°C	LP2985IM5-3.0	SMC 977-8268●	0.630	0.540	0.420	– –
NSC	5/SOT-23	0.15	1.5	2.5 to 16	0.28	-40°C to 125°C	LP2985IM5-3.0.	SMC 121-800	0.590	0.520	0.370	– –
NSC	5/Bump Micro SMD	0.15	2	3.06 to 6	0.06	-40°C to 125°C	LP3995ITL-3.0	SMC 823-8502●	0.340	0.290	0.220	– –
TI	5/SOT-23	0.15	3	3.322 to 10	0.322	-40°C to 125°C	TPS76330DBVT	SMC 846-1368●	0.380	0.320	0.300	– –
TOR	3/SOT-23	0.15	2	3.67 to 20	0.67	-40°C to 85°C	XC6202P302MR	SMC 360-5723●	0.670	0.570	0.510	– –
TOR	3/SOT-89	0.15	2	3.67 to 20	0.67	-40°C to 85°C	XC6202P302PR	SMC 360-5735●	0.670	0.570	0.510	– –
TOR	5/SOT-23	0.15	2	3.2 to 10	0.2	-40°C to 85°C	XC6204B302MRN	SMC 110-6657●	0.550	0.470	0.430	– –
TOR	4/SSOT-24	0.15	2	3.32 to 6	0.32	-40°C to 85°C	XC6215B302NR	SMC 105-7810●	0.420	0.370	0.300	– –
ZET	5/SOT-23-5	0.15	2	3.085 to 7	0.085	-40°C to 85°C	ZXCL300E5TA	SMC 113-2755● RL	0.560	0.480	0.340	– –
TI	5/SOT-23	0.2	2	3.12 to 5.5	0.12	-40°C to 85°C	TPS79330DBVRG4	SMC 128-7688●	0.360	0.310	0.240	0.185
TI	5/SOT	0.2	2	3.1 to 6.5	0.1	-40°C to 85°C	TPS79930DDCT	SMC 113-5402●	0.450	0.360	0.290	0.260
TI	5/SOT-23	0.2	2	3.12 to 5.5	0.12	-40°C to 85°C	TPS73030DBVT	SMC 113-5394●	0.290	0.240	0.191	0.181
TI	5/DSBGA	0.2	2	3.4 to 6.5	0.1	-40°C to 85°C	TPS79932YZUT	SMC 118-0165●	0.520	0.420	0.360	0.310
NSC	5/SOT-23	250		to 16	450	to	LP2992AIM5-3.0/NOPB	NEW SMC 168-5693●	0.720	0.590	0.480	0.450
NSC	5/SOT-23	250		to 16	450	to	LP2992IM5-3.0/NOPB	NEW SMC 168-5696●	0.700	0.570	0.470	0.440
MCHIP	3/SOT-23A	0.25	2	2.7 to 16	0.65	-40°C to 125°C	MCP1703T-3002E/CB	SMC 143-9517●	0.460	0.330	0.250	– –
TI	6/SOT-223	0.25	3	2.7 to 5.5	0.155	-40°C to 85°C	TPS79430DCQ	SMC 113-5410●	0.730	0.600	0.480	0.460
TI	8/MSOP	0.25	3	2.7 to 5.5	0.155	-40°C to 85°C	TPS79430DGNT	SMC 113-5411●	0.900	0.830	0.760	0.690
TOR	5/SOT-25	0.25	2	3.1 to 6	0.1	-40°C to 85°C	XC6217B302MR	SMC 127-6455●	0.570	0.470	0.390	– –
TOR	5/SOT-23	0.25	2	3.4 to 10	0.4	-40°C to 85°C	XC6201P302MR	SMC 360-5681●	0.480	0.420	0.380	0.340
TOR	3/SOT-89	0.25	2	3.4 to 10	0.4	-40°C to 85°C	XC6201P302PR	SMC 360-5693●	0.480	0.420	0.380	0.340
TOR	5/SOT-23-5	0.25	2	3.38 to 10	0.4	-40°C to 85°C	XC62FP3002MR	SMC 360-5589●	0.530	0.460	0.420	0.390
TOR	3/SOT-89	0.25	2	3.38 to 10	0.4	-40°C to 85°C	XC62FP3002PR	SMC 360-5590●	0.550	0.470	0.430	0.390
LT	8/MSOP	0.3		to 20	0.27	-40°C to 125°C	LT1962EMS8-3#PBF	NEW SMC 166-3520●	3.200	2.490	1.990	1.660
LT	8/SOIC	0.3		-20 to 20	0.5	0°C to 125°C	LT1521CS8-3#PBF	SMC 127-3581●	3.900	2.210	1.920	– –
NSC	8/MSOP	0.3	2	3.12 to 6	0.12	-40°C to 85°C	LP3982IMM-3.0	SMC 977-9582●	0.720	0.490	0.410	– –
NSC	8/MSOP	0.3	2	3.12 to 6	0.12	-40°C to 85°C	LP3982IMM-3.0.	SMC 580-1333	0.109	– –	– –	– –
TI	20/HTSSOP	0.5	2	3.47 to 6	0.17	-40°C to 125°C	TPS70145PWPG4	SMC 132-9600●	2.440	1.830	1.530	– –
TI	20/HTSSOP	0.5	2	3.47 to 6	0.17	-40°C to 125°C	TPS70148PWPG4	SMC 132-9602●	2.440	1.830	1.530	– –
ADI	8/MSOP	0.5	2	2.5 to 5.5	0.25	-40°C to 125°C	ADP1716ARMZ-3.0	SMC 146-1512●	1.430	1.200	0.990	0.960
ADI	8/MSOP	0.5	2	2.5 to 5.5	0.25	-40°C to 125°C	ADP1715ARMZ-3.0	SMC 146-1506●	1.380	1.160	0.900	0.840
TI	6/SOT-223	0.5	3	2.7 to 5.5	0.11	-40°C to 125°C	TPS79530DCQ	SMC 113-5418●	1.550	1.270	1.020	0.910
SIP	5/SOT-23	0.5	2	3 to 6	0.5	-40°C to 125°C	SP6205EM5-L-3-0	SMC 938-8320●	1.520	1.250	1.040	0.970
TOR	5/SOT-89	0.8	2	3.1 to 6	0.1	-40°C to 85°C	XC6210B302PR	SMC 127-6445●	0.920	0.760	0.610	– –
TOR	4/SSOT-24	0.8	2	3.1 to 6	0.1	-40°C to 85°C	XC6210B302MR	SMC 105-7802●	0.850	0.730	0.580	– –
TI	6/SOT-223	1	2	2.7 to 5.5	0.23	-40°C to 125°C	TPS79630DCQ	SMC 113-5421●	2.210	1.500	1.120	1.060
TI	5/TO-263 (D2-Pak)	1	2	2.7 to 5.5	0.23	-40°C to 125°C	TPS79630KTTT	SMC 113-5422●	1.470	1.190	0.970	0.920
3.1 V												
NSC	5/SOT-23	150		to 6	75	to	LP3984IMF-3.1/NOPB	NEW SMC 168-5741●	0.610	0.490	0.400	0.370
3.15 V												
TI	5/TSOT-23	0.2		to 6.5	0.1	-40°C to 125°C	TPS799315DDCT	NEW SMC 164-7924●	0.490	0.360	0.300	0.280

RL Re-reeling available

Fixed Voltage Regulators - continued

Mftr.	Pins/Pkg	Output Current (A)	Output Tolerance (%)	Input Voltage Range (V)	Dropout Voltage (V)	Operating Temp. Range	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+
3.3 V												
TI	12/SOP	0.018		4.5 to 5.5		-40°C to 85°C	DCP020503U	NEW SMD 154-4011	9.780	8.850	8.080	7.430
ADI	6/SOT-23	0.05		to 12	0.08	-40°C to 85°C	ADP3300ARTZ-3.3RL7	NEW SMD 166-1067	1.010	0.800	0.650	0.590
TI	5/SC-70	0.05	4	1.8 to 5.5	0.105	-40°C to 85°C	TPS79733DCKT	SMD 113-5379	0.600	0.510	0.390	0.350
NSC	8/Mini SOIC	0.05		-45 to 40	0.2	-40°C to 125°C	LM9036MM-3.3	SMD 131-3858	0.820	0.630	0.550	0.470
NSC	3/TO-92	0.05		4.0 to 26	0.2	-40°C to 125°C	LM2936Z-3.3/NOPB	NEW 156-4641	1.600	1.270	1.030	0.910
TI	5/SC-70	0.05	4	2.5 to 24	0.415	-40°C to 125°C	TPS71533DCKR	SMD 113-5383	0.730	0.650	0.490	0.370
TI	5/SOT-23	0.05	3	3.348 to 10	0.048	-40°C to 125°C	TPS77033DBVT	SMD 846-1570	0.620	0.500	0.450	– –
NSC	5/SOT-23	0.05	0.5	3.42 to 16	0.12	-40°C to 125°C	LP2980AIM5-3.3	SMD 121-2201	0.410	0.240	0.188	– –
NSC	5/SOT-23	0.05	1	3.42 to 16	0.12	-40°C to 125°C	LP2980IM5-3.3	SMD 977-8977	0.410	0.240	0.188	– –
TI	5/SOT-23	0.05	2	3.5 to 16	0.12	-40°C to 125°C	TPS76033DBVT	SMD 846-1279	0.490	0.400	0.350	– –
NSC	8/SOIC	0.05	3	3.8 to 40	0.2	-40°C to 125°C	LM2936BM-3.3.	SMD 128-6860	1.420	0.990	0.800	0.720
NSC	3/TO-252 (D-Pak)	0.05	3	3.8 to 40	0.2	-40°C to 125°C	LM2936DT-3.3.	128-6863	1.580	1.090	0.890	0.800
NSC	8/SOIC	0.05	3	3.8 to 60	0.2	-40°C to 125°C	LM2936HVBMA-3.3	SMD 128-6866	1.580	1.090	0.890	0.800
MCHIP	5/SOT-223	0.07		to 30	0.7	-40°C to 125°C	MCP1791T-3302E/DC	NEW SMD 167-5416	1.510	1.020	0.800	– –
MCHIP	3/SOT-223	0.07		to 30	0.7	-40°C to 125°C	MCP1790-3002E/DB	NEW SMD 167-5421	1.510	1.020	0.800	– –
MCHIP	3/SOT-223	0.07		to 30	0.7	-40°C to 125°C	MCP1790-3302E/DB	NEW SMD 167-5422	1.390	1.020	0.800	– –
TI	8/SON	0.08	4	2.5 to 24	0.67	-40°C to 125°C	TPS715A33DRBT	SMD 113-5386	0.860	0.800	0.700	0.600
NSC	5/SC-70	0.08	4	2.8 to 6	0.3	-40°C to 125°C	LMS5214IMG-3.3.	SMD 580-1023	0.430	0.320	0.270	– –
NSC	8/Mini SOIC	0.05		3.8 to 60	0.2	-40°C to 125°C	LM2936MM-3.3	SMD 131-2706	1.570	1.240	1.010	0.890
SIP	5/SOT-23	0.09		0.5 to 4.5		-40°C to 85°C	SP6641AEK-L-3-3	SMD 131-7821	1.080	0.830	0.680	0.650
LT	5/SOT-23	0.1		to 20	0.3	-40°C to 125°C	LT1761ES5-3.3#TRMPBF	NEW SMD 166-3779	1.940	1.500	1.200	1.000
NSC	3/TO-252	100		to 30	380	to	LP2950CDT-3.3/NOPB	NEW SMD 168-5664	0.750	0.620	0.500	0.470
NSC	5/SOT-23	100		to 30	1.2	to	LM3490IM5-3.3/NOPB	NEW SMD 168-5652	0.650	0.540	0.440	0.400
NSC	5/SOT-23	150		to 6	120	to	LP3990MF-3.3/NOPB	NEW SMD 168-5762	0.610	0.490	0.400	0.370
NSC	5/SOT-23	150		to 6	80	to	LP3988IMF-3.3/NOPB	NEW SMD 168-5743	0.540	0.450	0.370	0.330
NSC	6/LLP	500		to 10	270	to	LP8345CLD-3.3/NOPB	NEW SMD 168-5746	0.960	0.790	0.650	0.590
NSC	4/Micro SMD	150		to 5.5	80	to	LP5900TL-3.3/NOPB	NEW SMD 168-5765	1.100	0.900	0.730	0.670
ST	8/SOIC	0.1	5	5 to 30	1.7	0°C to 125°C	L78L33ABD	SMD 107-7154	0.280	0.180	0.162	0.145
ST	3/TO-92	0.1	2	3.5 to 20	0.2	-40°C to 85°C	LE33CZ	975-5349	0.770	0.490	0.410	0.390
ST	8/SO	0.1	3	3.47 to 20	0.17	-40°C to 125°C	LK115D33	SMD 108-7197	0.590	0.480	0.370	0.330
NSC	8/LLP	0.1		-0.3 to 30	0.38	-40°C to 125°C	LP2951ACSD-3.3	SMD 100-8041	0.700	0.510	0.390	– –
NSC	8/LLP	0.1		-0.3 to 30	0.38	-40°C to 125°C	LP2951CSD-3.3	SMD 100-8044	0.650	0.470	0.360	– –
TI	5/SOT-23	0.1	1.25	3.5 to 16	0.2	-40°C to 125°C	LP2981-33DBVTE4	SMD 105-3698	0.400	0.350	0.290	– –
TI	5/SOT-23	0.1	0.75	3.5 to 16	0.2	-40°C to 125°C	LP2981A-33DBVTE4	SMD 105-3685	0.560	0.450	0.310	– –
NSC	5/SOT-23	0.1	2	3.53 to 16	0.2	-40°C to 125°C	LP2981IM5-3.3	SMD 977-9965	0.720	0.550	0.460	– –
MICR	8/SOIC	0.1	1	3.53 to 26	0.23	-40°C to 125°C	MIC5200-3.3YM	SMD 121-3488	2.080	1.130	0.820	0.800
TI	5/SOT-23	0.1	2	3.68 to 16	0.17	-40°C to 125°C	TPS76133DBVT	SMD 846-1295	0.730	0.630	0.590	– –
TI	5/SOT-23	0.1	3	3.398 to 10	0.098	-40°C to 125°C	TPS76933DBVT	SMD 846-1538	0.380	0.320	0.310	– –
TI	5/SOT-23	0.1	2	3.35 to 5.5	0.05	-40°C to 125°C	TPS79133DBVT	SMD 846-1767	0.570	0.490	0.470	– –
NSC	6/LLP	0.1		2.5 to 5.5	0.08	-40°C to 125°C	LP5900SD-3.3	SMD 131-2648	0.750	0.600	0.480	0.430
ST	3/SOIC	0.1		to 30	1.7	-40°C to 125°C	L78L33ACD13TR	NEW SMD 156-4317	0.480	0.370	0.340	0.280
MICR	5/SOT-23	0.15		to 6	0.135	-40°C to 125°C	MIC5255-3.3YM5 TR	NEW SMD 166-3080	0.510	0.380	0.310	0.270
LT	5/SOT-23	0.15		to 6.5	0.09	-40°C to 125°C	LTC1844ES5-3.3#TRMPBF	NEW SMD 166-3867	2.360	1.830	1.460	1.230
MICR	5/SOT-23	0.15		to 16	0.165	-40°C to 125°C	MIC5205-3.3YM5 TR	NEW SMD 166-3083	0.400	0.300	0.240	0.220
MICR	5/SOT-23	0.15		to 5.5	0.21	-40°C to 125°C	MIC5265-3.3YD5 TR	NEW SMD 166-3085	0.330	0.240	0.194	0.183
LT	3/SOT-223	0.15		to 20	0.4	0°C to 125°C	LT1121CST-3.3#PBF	NEW SMD 166-3363	3.310	2.490	1.990	1.660
LT	8/SOIC	0.15		to 20	0.4	-40°C to 125°C	LT1121IS8-3.3#PBF	NEW SMD 166-3368	3.690	2.770	2.210	1.840
LT	3/SOT-223	0.15		to 20	0.4	to	LT1121IST-3.3#PBF	NEW SMD 166-3369	3.890	2.930	2.340	1.950
NSC	5/SOT-23	0.15		1.8 to 5.5	0.2	-40°C to 125°C	LP5951MF-3.3	SMD 131-2658	0.460	0.370	0.300	0.270
LT	8/MSOP	0.15		-20 to 20	0.3	-40°C to 125°C	LT1762EMS8-3.3#PBF	SMD 127-3611	2.200	1.430	1.200	– –
LT	8/SOIC	0.15		-30 to 30	0.4	0°C to 125°C	LT1121ACS8-3.3#PBF	SMD 127-3568	3.460	2.260	1.880	– –
LT	8/SOIC	0.15		-30 to 30	0.4	0°C to 125°C	LT1121CS8-3.3#PBF	SMD 127-3570	3.020	1.710	1.310	– –
NSC	5/SC-70	0.15	3.5	1.8 to 5.5	0.2	-40°C to 125°C	LP5951MG-1.3.	SMD 128-6707	0.330	0.280	0.240	0.189
NSC	5/SOT-23	0.15	1	2.5 to 16	0.28	-40°C to 125°C	LP2985AIM5-3.3	SMD 977-8276 RL	0.640	0.440	0.370	– –
NSC	5/SOT-23	0.15	1.5	2.5 to 16	0.28	-40°C to 125°C	LP2985IM5-3.3	SMD 977-8284	0.630	0.540	0.430	– –
ZET	5/SOT-23-5	0.15	2	3.385 to 7	0.085	-40°C to 85°C	ZXCL330E5TA	SMD 113-2756	0.420	0.390	0.330	– –
TI	5/SOT-23	0.15	1	3.4 to 5.5	0.03	-40°C to 85°C	TPS73133DBVTG4	SMD 120-7341	0.580	0.510	0.480	– –
TI	8/SOIC	0.15	3	3.44 to 10	0.14	-40°C to 125°C	TPS76533D	SMD 846-1406	1.030	0.760	0.540	– –
TI	5/SOT-23	0.15	3	3.45 to 10	0.15	0°C to 70°C	TPS78833DBVT	SMD 846-1716	0.540	0.460	0.390	– –
NSC	8/MSOP	0.15	1	3.465 to 7	0.135	-40°C to 85°C	LP2966IMM-3333	SMD 977-8446	1.210	0.920	0.760	– –
TI	5/SOT-23	0.15	1.5	3.5 to 16	0.28	-40°C to 125°C	LP2985-33DBVTE4	SMD 105-3672	0.480	0.340	0.290	– –
TI	5/SOT-23	0.15	1	3.5 to 16	0.28	-40°C to 125°C	LP2985A-33DBVTE4	SMD 105-3660	0.520	0.390	0.300	– –
MCHIP	5/SOT-23A	0.15	0.5	3.57 to 6	0.27	-40°C to 125°C	TC1185-3.3VCT713	SMD 976-2540	0.310	0.250	0.200	– –
TOR	5/SOT-23	0.15	2	3.5 to 10	0.2	-40°C to 85°C	XC6204B332MRN	SMD 110-6658	0.550	0.470	0.430	– –
MCHIP	5/SC-70	0.15	0.5	3.585 to 6	0.285	-40°C to 125°C	TC1017-3.3VLTTR	SMD 875-2931	0.330	0.240	0.187	– –
TI	5/SOT-23	0.15	3	3.6 to 10	0.3	-40°C to 125°C	TPS76333DBVT	SMD 846-1376	0.380	0.320	0.300	– –
TI	5/SOT-23	0.15	3	3.6 to 10	0.3	-40°C to 125°C	TPS76433DBVT	SMD 846-1392	0.450	0.410	0.370	– –
TOR	4/SSOT-24	0.15	2	3.62 to 6	0.32	-40°C to 85°C	XC6215B332NR	SMD 105-7811	0.420	0.370	0.300	– –
NSC	8/SOIC	0.15	3	3.65 to 40	0.25	-40°C to 125°C	LM9076BMA-3.3.	SMD 128-6723	1.890	1.230	0.950	0.790
NSC	5/TO-263 (D2-Pak)	0.15	3	3.65 to 40	0.25	-40°C to 125°C	LM9076S-3.3	SMD 128-6770	1.650	1.060	0.860	0.790
LT	8/DIP	0.15		3.7 to 30	0.4	0°C to 125°C	LT1121CN8-3.3#PBF	113-6612	2.840	1.600	1.190	– –
TOR	3/SOT-23	0.15	2	3.97 to 20	0.67	-40°C to 85°C	XC6202P332MR	SMD 360-5747	0.670	0.570	0.510	– –
TOR	3/SOT-89	0.15	2	3.97 to 20	0.67	-40°C to 85°C	XC6202P332PR	SMD 360-5759	0.640	0.550	0.490	– –
ZET	5/SC-70	0.15		2.0 to 5.5	0.28	-40°C to 85°C	ZXCL330H5TA	SMD 146-1560	0.570	0.430	0.380	0.340
MAX	8/SOIC	0.2		to 6.2		0°C to 70°C	MAX735CSA+	NEW SMD 167-3215	4.360	3.120	2.420	2.180
TI	5/SOT-23	0.2		to 5.5	0.102	-40°C to 125°C	TPS79333DBVRQ1	NEW SMD 162-4393	0.480	0.460	0.350	0.280
MICR	3/SOT-223	0.2		to 26	0.2	-40°C to 125°C	MIC5201-3.3YS	NEW SMD 155-6767	1.280	1.060	0.850	– –
NSC	8/MSOP	0.2	0.5	2.1 to 16	0.18	-40°C to 125°C	LP2986AIMM-3.3	SMD 977-9981 RL	1.960	1.330	1.090	– –
TI	5/SC-70	0.2	2	3.42 to 5.5	0.12	-40°C to 85°C	TPS79333DBVRG4	SMD 128-7689	0.350	0.310	0.240	0.183
TI	5/SOT	0.2	2	3.39 to 6.5	0.09	-40°C to 85°C	TPS79933DDCT	SMD 113-5403	0.370	0.340	0.310	0.280
TI	5/SOT-23	0.2	2	3.42 to 5.5	0.12	-40°C to 85°C	TPS73033DBVT	SMD 113-5395	0.310	0.260	0.210	0.185
TI	8/SOIC	0.2	3	3.48 to 7	0.17	-40°C to 125°C	TPS7433D	SMD 110-5911	1.000	0.740	0.570	– –
SIP	5/SOT-23	0.2	3	3.8 to 7	0.5	-40°C to 125°C	SP6201EM5-L-3-3	SMD 938-8184	0.550	0.450	0.380	0.360
SIP	8/DFN	0.2	3	3.8 to 7	0.5	-40°C to 125°C	SP6201ER-L-3-3	SMD 938-8214	1.390	1.230	1.100	1.010
NSC	6/LLP	250		to 16	450	to	LP2992AILD-3.3/NOPB	NEW SMD 168-5690	0.810	0.660	0.540	0.500
NSC	8/Mini SOIC	250		to 6	140	to	LP3997MM-3.3/NOPB	NEW SMD 168-5769	0.780	0.640	0.530	0.480
MCHIP	3/SOT223	0.25		to 13.2		-40°C to 125°C	MCP1703-3302E/DB	NEW SMD 162-7177	0.660	0.500	0.390	– –
MCHIP	3/SOT-23A	0.25	–	to 10	–	-40°C to 85°C	MCP1701AT-3302I/CB	NEW SMD 160-5554	0.520	0.390	0.310	– –
MCHIP	3/SOT-89	0.25	–	to 10	–	-40°C to 85°C	MCP1701AT-3302I/MB	NEW SMD 160-5555	0.520	0.390	0.310	– –
MCHIP	3/SOT-89	0.25	–	2.7 to 13.2	–	-40°C to 125°C	MCP1702T-3302E/MB	NEW SMD 160-5558	0.520	0.390	0.310	– –
MAX	16/TQFN	0.25	–	4.0 to 72	–	-40°C to 125°C	MAX5093AATE+	SMD 145-5623	2.710	2.390	2.040	– –
MCHIP	3/SOT-23A	0.25	2	2.7 to 16	0.65	-40°C to 125°C	MCP1703T-3302E/CB	SMD 143-9518	0.460	0.330	0.250	– –
MCHIP	8/SOT-89	0.25	2	2.3 to 6	0.3	-40°C to 125°C	MCP1700T-3302E/MB	SMD 143-9380	0.310	0.210	0.168	– –
MCHIP	3/TO-92	0.25	0.4	3.5 to 6	0.178	-40°C to 125°C	MCP1700-3302E/TO	129-6588	0.340	0.220	0.180	– –
MCHIP	3/SOT-23	0.25	0.4	3.5 to 6	0.178	-40°C to 125°C	MCP1700T-3302E/TT	SMD 129-6592	0.340	0.220	0.180	– –
TI	8/MSOP	0.25	3	2.7 to 5.5	0.155	-40°C to 85°C	TPS79433DGNT	SMD 113-5412	1.570	1.060	0.760	0.590
TI	8/SOIC	0.25	3	3.53 to 10	0.23	-40°C to 125°C	TPS76633D	SMD 846-1422	0.780	0.660	0.580	– –
TI	6/SOT-223	0.25	1.5	3.45 to 12	0.15	-40°C to 85°C	REG102GA-3.3G4	SMD 120-7243	1.690	1.400	1.210	– –
TOR	3/SOT-23	0.25	2	3.68 to 10	0.4	-40°C to 85°C	XC62FP3302MR	SMD 360-5607	0.530	0.450	0.410	0.370
TOR	3/SOT-89	0.25	2	3.68 to 10	0.4	-40°C to 85°C	XC62FP3302PR	SMD 360-5619 RL	0.550	0.470	0.430	0.390
TOR	5/SOT-25	0.25	2	3.7 to 10	0.4	-40°C to 85°C	XC6201P332MR	SMD 360-5700	0.460	0.400	0.360	0.320

RL Re-reeling available

Mftr.	Pins/Pkg	Output Current (A)	Output Tolerance (%)	Input Voltage Range (V)	Dropout Voltage (V)	Operating Temp. Range	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+
3.3 V												
TOR	3/SOT-89	0.25	2	3.7 to 10	0.4	-40°C to 85°C	XC6201P332PR	SMC 360-5711●	0.480	0.420	0.380	0.340
TOR	5/SOT-25	0.25	2	3.4 to 6	0.1	-40°C to 85°C	XC6217B332MR	SMC 127-6456●	0.570	0.470	0.390	– –
ST	8/SOIC	0.25	2	3.7 to 20	0.4	-40°C to 85°C	L4931CD33	SMC 109-4211●	1.130	0.850	0.660	0.550
NSC	6/LLP	300		to 6	132	to	LP3981ILD-3.3/NOPB	NEW SMC 168-5551●	0.690	0.540	0.440	0.400
NSC	8/Mini SOIC	300		to 6	132	to	LP3981IMM-3.3/NOPB	NEW SMC 168-5563●	0.650	0.500	0.410	0.380
NSC	8/LLP	300		to 6	120	to	LP3982ILD-3.3/NOPB	NEW SMC 168-5737●	0.610	0.500	0.410	0.380
MCHIP	3/SOT-23	0.3		to 6	0.2	-40°C to 125°C	MCP1824ST-1202E/DB	NEW SMC 167-5417●	1.010	0.680	0.540	– –
LT	3/SOT-223	0.3		to 20	0.5	0°C to 125°C	LT1521CST-3.3#PBF	NEW SMC 166-3445●	3.890	2.930	2.340	1.950
LT	8/SOIC	0.3		to 20	0.5	-40°C to 125°C	LT1521IS8-3.3#PBF	NEW SMC 166-3447●	4.570	3.540	2.840	2.360
LT	3/SOT-223	0.3		to 20	0.5	-40°C to 125°C	LT1521IST-3.3#PBF	NEW SMC 166-3449●	4.570	3.540	2.840	2.360
LT	8/MSOP	0.3		to 20	0.27	-40°C to 125°C	LT1962EMS8-3.3#PBF	NEW SMC 166-3521●	3.200	2.490	1.990	1.660
MCHIP	3/SOT-223	0.3		2.7 to 6	0.24	-40°C to 125°C	TC1108-3.3VDBTR	NEW SMC 155-7422●	0.610	0.460	0.360	– –
LT	8/SOIC	0.3		-20 to 20	0.5	0°C to 125°C	LT1521CS8-3.3#PBF	SMC 127-3582●	3.900	2.210	1.920	– –
NSC	8/MSOP	0.3	2	3.42 to 6	0.12	-40°C to 85°C	LP3982IMM-3.3	SMC 977-9590●	0.620	0.510	0.450	– –
SIP	5/SOT-23	0.3	2	3.6 to 6	0.3	-40°C to 125°C	SP6203EM5-L-3-3	SMC 938-8230●	1.520	1.250	1.040	0.970
SIP	8/DFN	0.3	2	3.6 to 6	0.3	-40°C to 125°C	SP6203ER-L-3-3	SMC 938-8273●	1.270	1.040	0.870	0.810
ZET	8/SOIC	0.3	2	3.6 to 20	0.03	-40°C to 85°C	ZLDO330T8	SMC 113-2778●	2.130	1.660	0.980	0.760
NSC	5/SOT-23	350		to 5.5		to	LM3670MF-3.3/NOPB	NEW SMC 168-5757●	1.900	1.550	1.280	1.170
TI	8/SON	0.4		1.7 to 5.5	0.075	-40°C to 125°C	TPS73633DRBR	NEW SMC 154-4026●	1.410	1.250	1.010	0.930
TI	5/SOT-23	0.4	2	3.4 to 5.5	0.075	-40°C to 85°C	TPS73633DBVTG4	SMC 120-7346●	1.080	0.900	0.790	– –
TI	6/SOT-223	0.4	2	3.5 to 5.5	0.075	-40°C to 85°C	TPS73633DCQ	SMC 113-5416●	1.400	1.140	0.920	0.820
NSC	3/SOT-223	0.4	5	4 to 26		-40°C to 85°C	LM2937IMP-3.3	SMC 977-8314● RL	1.030	0.780	0.610	– –
TI	5/SOT-23	0.4	1.5	3.55 to 10	0.25	-40°C to 85°C	REG113NA-3.3/250G4	SMC 120-7263●	1.480	1.220	1.060	– –
TOR	3/SOT-89	0.4	2	3.6 to 8	0.3	-40°C to 85°C	XC6203E332PR	SMC 360-5784●	0.670	0.570	0.510	– –
TI	8/MSOP	0.4		4.5 to 5.5	0.1	0°C to 70°C	TPPM0302DGN	SMC 123-6573●	2.220	1.560	1.180	1.150
NSC	8/LLP	500		to 16	310	to	LP2989AILD-3.3/NOPB	NEW SMC 168-5519●	2.000	1.550	1.280	1.170
NSC	8/Mini SOIC	500		to 16	310	to	LP2989IMM-3.3/NOPB	NEW SMC 168-5549●	1.900	1.470	1.200	1.110
NSC	8/SOIC	500		to 16	310	to	LP2989AIM-3.3/NOPB	NEW SMC 168-5686●	1.730	1.420	1.170	1.060
NSC	8/Mini SOIC	500		to 16	310	to	LP2989AIMM-3.3/NOPB	NEW SMC 168-5687●	1.900	1.550	1.280	1.170
NSC	3/TO-252	500		to 10	250	to	LP38691DT-3.3/NOPB	NEW SMC 168-5713●	0.980	0.810	0.660	0.610
NSC	6/LLP	500		to 10	250	to	LP38691SD-3.3/NOPB	NEW SMC 168-5714●	0.980	0.810	0.660	0.610
NSC	6/LLP	500		to 10	250	to	LP38693SD-3.3/NOPB	NEW SMC 168-5720●	1.050	0.860	0.710	0.650
NSC	14/SOIC	500		to 60		to	LM2574HVM-3.3/NOPB	NEW SMC 168-5607●	3.050	2.510	2.060	1.890
NSC	8/SOIC	0.5		to 60		-40°C to 125°C	LM2594HVM-3.3/NOPB	NEW SMC 156-4635●	3.790	3.100	2.550	2.110
MICR	8/SOIC	0.5		to	0.01	-40°C to 125°C	MIC5209-3.3YM	NEW SMC 155-6724●	1.010	0.740	0.610	– –
MICR	3/SOT-223	0.5		to	0.01	-40°C to 125°C	MIC5209-3.3YS	NEW SMC 155-6725●	1.010	0.740	0.610	– –
TI	20/HTSSOP	0.5	2	3.47 to 6	0.17	-40°C to 125°C	TPS70145PWPG4	SMC 132-9600●	2.440	1.830	1.530	– –
TI	20/HTSSOP	0.5	2	3.47 to 6	0.17	-40°C to 125°C	TPS70148PWPG4	SMC 132-9602●	2.440	1.830	1.530	– –
MAX	8/MSOP	0.5		to 5.5	0.13	-40°C to 85°C	MAX1792EUA33+	SMC 137-9874●	1.850	1.520	1.380	1.150
SIP	5/SOT-23	0.5		0.5 to 4.5		-40°C to 85°C	SP6641BEK-L-3-3	SMC 131-7824●	1.060	0.820	0.670	0.640
ADI	8/MSOP	0.5	2	2.5 to 5.5	0.25	-40°C to 125°C	ADP1716ARMZ-3.3	SMC 146-1513●	1.430	1.200	0.990	0.960
ADI	8/MSOP	0.5	2	2.5 to 5.5	0.25	-40°C to 125°C	ADP1715ARMZ-3.3	SMC 146-1507●	1.380	1.160	0.900	0.840
MCHIP	8/SOIC	0.5	2	2.3 to 6	0.21	-40°C to 125°C	MCP1725-3302E/SN	SMC 143-9383●	0.970	0.680	0.540	– –
MCHIP	5/TSOT	0.5	3	2.7 to 5.5		-40°C to 125°C	MCP1603T-330I/OS	SMC 143-9373●	0.910	0.650	0.520	– –
LT	8/SOIC	0.5		-20 to 20	0.3	-40°C to 125°C	LT1763CS8-3.3#PBF	SMC 127-3617●	3.900	2.200	1.730	– –
SIP	5/SOT-23	0.5	2	3 to 6	0.5	-40°C to 125°C	SP6205EM5-L-3-3	SMC 938-8338●	1.520	1.250	1.040	0.970
SIP	8/DFN	0.5	2	3 to 6	0.5	-40°C to 125°C	SP6205ER-L-3-3	SMC 938-8397●	2.630	2.220	1.870	1.650
MCHIP	3/SOT-223	0.5	0.5	3.7 to 6	0.35	-40°C to 125°C	TC1262-3.3VDBTR	SMC 129-6594●	0.790	0.500	0.400	– –
TI	6/SOT-223	0.5	3	3.405 to 5.5	0.105	-40°C to 125°C	TPS79533DCQG4	SMC 120-7355●	1.500	1.250	1.120	– –
TI	6/SOT-23	0.5	2	3.415 to 15	0.115	-40°C to 85°C	REG103GA-3.3G4	SMC 120-7244●	3.280	2.700	2.370	– –
TI	8/SOIC	0.5	2	3.469 to 10	0.169	-40°C to 125°C	TPS77533D	SMC 846-1635●	1.880	1.440	1.040	– –
TI	8/SOIC	0.5	2	3.469 to 10	0.169	-40°C to 125°C	TPS77633D	SMC 846-1660●	1.450	1.060	0.760	– –
TI	20/HTSSOP	0.5	2	3.469 to 10	0.169	-40°C to 125°C	TPS77633QPWPRQ1	SMC 123-6583	1.900	1.290	0.930	0.860
TI	20/HTSSOP	0.5	2	3.47 to 6	0.17	-40°C to 125°C	TPS70151PWPG4	SMC 123-4736●	2.440	1.990	1.590	1.410
TI	20/HTSSOP	0.5	2	3.47 to 6	0.17	-40°C to 125°C	TPS70158PWPG4	SMC 123-4927●	2.440	1.990	1.590	1.410
TI	8/SOIC	0.5	2	3.54 to 10	0.235	-40°C to 125°C	TPS7133QD	SMC 845-8154●	2.430	1.710	1.270	– –
NSC	3/TO-252 (D-Pak)	0.5	1.5	3.57 to 10	0.27	0°C to 125°C	LP8345CDT-3.3	SMC 949-3379●	1.200	0.820	0.660	– –
ST	8/SOIC	0.5	2	3.7 to 20	0.4	-40°C to 85°C	KF33BD	SMC 975-5314●	1.160	0.880	0.730	0.590
ST	3/TO-220	0.5	1	3.7 to 40	0.4	-40°C to 125°C	LF33ABV	108-7184●	1.090	0.740	0.600	0.560
ST	3/TO-252 (D-Pak)	0.5	2	3.7 to 40	0.4	-40°C to 125°C	LF33CDT	SMC 108-7187●	0.590	0.510	0.420	0.410
ST	3/TO-220	0.5	2	3.7 to 40	0.4	-40°C to 85°C	LF33CV	975-5322●	1.350	1.010	0.850	0.670
NSC	5/SOT-223	0.5	2	3.73 to 10	0.43	-40°C to 125°C	LP38693MP-3.3	SMC 100-8061●	1.310	0.890	0.730	– –
NSC	16/SOIC	0.5		3.77 to 29	0.47	-40°C to 125°C	LP2960IM-3.3	SMC 949-4871●	1.780	1.260	0.990	– –
ST	3/TO-252 (D-Pak)	0.5	2	4.3 to 40	1	-40°C to 125°C	LF33ABDT	SMC 108-7183●	1.090	0.740	0.600	0.530
SIP	6/MLP	0.5	3	4.4 to 7	1.1	-40°C to 85°C	SP6231ER-L-3-3	SMC 938-8451●	1.860	1.530	1.280	1.190
NSC	8/NSOIC	0.5	4	4.5 to 60		-40°C to 125°C	LM2597HVM-3.3	SMC 149-5090●	3.210	2.560	2.130	1.840
NSC	5/SOT-23	600		to 5.5		to	LM3671MF-3.3/NOPB	NEW SMC 168-5767●	2.150	1.770	1.440	1.330
LT	5/D2PAK	0.7		to 20	0.4	0°C to 125°C	LT1129CQ-3.3#PBF	NEW SMC 166-3372●	4.620	3.460	2.770	2.300
LT	3/SOT-223	0.7		to 20	0.4	0°C to 125°C	LT1129CST-3.3#PBF	NEW SMC 166-3374●	4.260	3.190	2.550	2.130
LT	3/SOT-223	0.7		to 20	0.4	-40°C to 125°C	LT1129IST-3.3#PBF	NEW SMC 166-3382●	4.730	3.540	2.840	2.360
LT	8/SOIC	0.7		-0.6 to 6.5	0.4	0°C to 125°C	LT1129CS8-3.3#PBF	SMC 127-3575●	4.500	2.550	1.960	– –
LT	5/TO-220	0.7		-0.6 to 6.5	0.4	0°C to 125°C	LT1129CT-3.3#PBF	127-3578●	3.690	2.420	2.030	– –
NSC	3/TO-252	800		to 10	1.2	to	LM1117IDT-3.3/NOPB	NEW SMC 168-5603●	0.950	0.780	0.640	0.580
LT	3/SOT-223	0.8		to 10	1	0°C to 125°C	LT1117CST-3.3#PBF	NEW SMC 166-3356●	3.670	2.750	2.200	1.840
MCHIP	3/SOT-223	0.8		2.7 to 6	0.45	-40°C to 125°C	TC2117-3.3VDBTR	NEW SMC 160-5581●	0.930	0.700	0.550	– –
NSC	5/SOT223	0.8		2.5 to 7	0.24	-40°C to 125°C	LP3964EMP-3.3/NOPB	NEW SMC 156-4738●	1.610	1.280	1.030	0.930
TOR	5/SOT-89	0.8	2	3.4 to 6	0.1	-40°C to 85°C	XC6210B332PR	SMC 127-6446●	0.920	0.760	0.610	– –
ST	3/TO-252 (D-Pak)	0.8	2	4.4 to 15	1.1	0°C to 125°C	LD1117DT33	SMC 108-7169●	0.670	0.560	0.430	– –
ST	3/TO-252 (D-Pak)	0.8	2	4.4 to 15	1.1	-40°C to 125°C	LD1117DT33C	SMC 108-7170●	0.530	0.380	0.300	– –
ST	3/SOT-223	0.8	1	4.4 to 15	1.1	0°C to 125°C	LD1117S33TR	SMC 120-2826●	0.690	0.440	0.340	– –
ST	3/TO-220	0.8	1	4.4 to 15	1.1	0°C to 125°C	LD1117V33	975-5837●	0.690	0.440	0.340	– –
NSC	3/TO-252 (D-Pak)	0.8	0.4	4.5 to 20	1.2	0°C to 125°C	LM1117DT-3.3	SMC 948-6275●	0.950	0.560	0.440	– –
NSC	8/LLP	0.8	0.4	4.5 to 20	1.2	0°C to 125°C	LM1117LD-3.3	SMC 822-1901● RL	0.800	0.660	0.520	– –
NSC	3/SOT-223	0.8	0.4	4.5 to 20	1.2	0°C to 125°C	LM1117MP-3.3	SMC 977-8195● RL	0.740	0.440	0.350	– –
NSC	3/TO-263 (D2-Pak)	0.8	0.4	4.5 to 20	1.2	0°C to 125°C	LM1117S-3.3	SMC 100-8242●	1.120	0.880	0.680	– –
NSC	3/TO-220	0.8	0.4	4.5 to 20	1.2	0°C to 125°C	LM1117T-3.3	948-5813●	1.150	0.680	0.540	– –
NSC	5/SOT-223	0.8	1.5	3.54 to 7	0.24	-40°C to 125°C	LP3871EMP-3.3	SMC 818-8246●	2.090	1.700	1.390	– –
NSC	5/TO-263 (D2-Pak)	0.8	1.5	3.54 to 7	0.24	-40°C to 125°C	LP3871ES-3.3	SMC 818-8270●	2.610	1.930	1.580	– –
NSC	5/SOT-223	0.8	1.5	3.54 to 7	0.24	-40°C to 125°C	LP3874EMP-3.3	SMC 818-8548●	1.610	1.150	0.890	– –
NSC	5/SOT-223	0.8	1.5	3.54 to 7	0.24	-40°C to 125°C	LP3961EMP-3.3	SMC 977-8721●	3.060	2.250	1.850	– –
NSC	5/TO-263 (D2-Pak)	0.8	1.5	3.54 to 7	0.24	-40°C to 125°C	LP3961ES-3.3	SMC 948-6445●	2.570	1.740	1.420	– –
NSC	5/TO-220	0.8	1.5	3.54 to 7	0.24	-40°C to 125°C	LP3961ET-3.3	948-6470●	2.430	1.730	1.310	– –
NSC	5/TO-220	0.8	1.5	3.54 to 7	0.24	-40°C to 125°C	LP3961ET-3.3.	332-7012	0.550	– –	– –	– –
NSC	5/SOT-223	0.8	1.5	3.54 to 7	0.24	-40°C to 125°C	LP3964EMP-3.3	SMC 977-8756● RL	2.230	1.810	1.430	– –
NSC	5/TO-263 (D2-Pak)	0.8	1.5	3.54 to 7	0.24	-40°C to 125°C	LP3964ES-3.3	SMC 948-6380●	2.570	1.740	1.420	– –
NSC	5/TO-220	0.8	1.5	3.54 to 7	0.24	-40°C to 125°C	LP3964ET-3.3	948-6410●	1.670	1.290	1.040	– –
NSC	5/TO-220	0.8	1.5	3.54 to 7	0.24	-40°C to 125°C	LP3964ET-3.3.	332-6925	1.510	1.130	0.890	– –
TI	4/SOT-223	0.8	1	4.5 to 15	1.2	-40°C to 85°C	REG1117-3.3	SMC 121-2355●	1.690	1.150	0.830	– –
TOR	4/SSOT-24	0.8	2	3.4 to 6	0.1	-40°C to 85°C	XC6210B332MR	SMC 105-7803●	0.850	0.730	0.580	– –
TI	4/SOT-223	0.8	0.2	4.7 to 15	1.15	0°C to 125°C	TLV1117-33CDCY	SMC 149-4942●	0.280	0.210	0.164	0.139
NSC	3/TO-252	1		to 15	1.2	to	LMS8117ADT-3.3/NOPB	NEW SMC 168-5596●	0.970	0.800	0.650	0.590
NSC	6/LLP	1		to 10	450	to	LP38690SD-3.3/NOPB	NEW SMC 168-5711●	1.020	0.830	0.690	0.630
MICR	3/SOT-223	1		to 16	0.41	-40°C to 125°C	MIC39100-3.3WS	NEW SMC 166-3096●	1.200	0.900	0.720	0.650
TI	6/SON	1		to 6		-40°C to 85°C	TPS62291DRVT	NEW SMC 164-7918●	2.960	2.190	1.830	1.570

RL Re-reeling available

Farnell

Fixed Voltage Regulators - continued

Mftr.	Pins/Pkg	Output Current (A)	Output Tolerance (%)	Input Voltage Range (V)	Dropout Voltage (V)	Operating Temp. Range	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+
3.3 V												
MICR	3/SOT-223	1	–	to	–	-40°C to 125°C	MIC39100-3.3WS	NEW SMD 155-6715●	1.100	0.800	0.660	– –
ADI	3/SOT-223	1	–	to 8	[ENdash]	-40°C to 85°C	ADP3338AKCZ-3.3RL7.	NEW SMD 165-1283●	1.860	1.450	1.180	1.090
MAX	16/TSSOP	1	–	2.7 to 5.5	0.2	-40°C to 85°C	MAX8869EUE33+	SMD 142-2367●	3.170	2.250	1.820	1.650
ADI	8/LFCSP	1	2.5	2.5 to 5.5	0.345	-40°C to 125°C	ADP1707ACPZ-3.3	SMD 146-1501●	1.370	1.160	0.950	0.930
ON	6/DFN	1	0.03	2.5 to 18	0.9	-40°C to 150°C	NCP5661MN33T2G	NEW SMD 136-9746●	0.870	0.670	0.560	0.500
TI	5/TO-263 (D2-Pak)	1	2	2.7 to 5.5	0.2	-40°C to 125°C	TPS79633KTTT	SMD 113-5423●	2.610	1.780	1.270	1.140
TI	6/SOT-223	1	2	3.5 to 5.5	0.2	-40°C to 125°C	TPS79633DCQG4	SMD 120-7359●	1.580	1.320	1.180	– –
TI	6/SOT-233	1	2	3.53 to 15	0.23	-40°C to 85°C	REG104GA-3.3G4	SMD 120-7259●	3.130	2.600	2.270	– –
TI	8/SOIC	1	2	3.65 to 10	0.35	-40°C to 125°C	TPS76733QD	SMD 846-1457●	1.740	1.500	1.120	– –
TI	8/SOIC	1	2	3.65 to 10	0.35	-40°C to 125°C	TPS76833QD	SMD 846-1481●	1.760	1.370	0.980	– –
TI	20/HTSSOP	1	2	3.65 to 10	0.35	-40°C to 125°C	TPS76733QPWP	SMD 113-5435●	1.740	1.500	1.120	1.060
TI	20/HTSSOP	1	2	3.65 to 10	0.35	-40°C to 125°C	TPS767D318PWP	SMD 113-5438●	4.010	2.730	2.030	1.930
TI	20/HTSSOP	1	2	3.65 to 10	0.35	-40°C to 125°C	TPS76833QPWPG4	SMD 123-4859●	1.460	1.190	0.950	0.850
NSC	3/TO-252 (D-Pak)	1	2.5	3.75 to 10	0.45	-40°C to 125°C	LP38690DT-3.3	SMD 100-8048●	1.270	0.850	0.700	– –
NSC	5/SOT-223	1	2.5	3.75 to 10	0.45	-40°C to 125°C	LP38692MP-3.3	SMD 100-8056●	1.340	0.910	0.750	– –
NSC	3/TO-252 (D-Pak)	1	1.5	3.84 to 10	0.54	0°C to 125°C	LP8340CDT-3.3	SMD 949-3336●	1.170	0.810	0.660	– –
TS	3/TO-263	1	1	3.9 to 26	0.6	-20°C to 85°C	TS2940CM-3.3	SMD 726-1381●	1.260	0.880	0.760	– –
TS	3/TO-252	1	1	3.9 to 26	0.6	-20°C to 85°C	TS2940CP-3.3 C5	SMD 726-1390●	0.800	0.570	0.500	– –
TS	3/SOT-223	1	1	3.9 to 26	0.6	-20°C to 85°C	TS2940CW-3.3 RP	SMD 726-1403●	1.020	0.720	0.630	– –
TS	3/TO-220	1	1	3.9 to 26	0.6	-20°C to 85°C	TS2940CZ-3.3 C0	726-1373●	1.070	0.770	0.660	– –
IR	8/SOIC	1	1	3.95 to 12	0.65	0°C to 135°C	IRU1207-33CSPBF	SMD 108-0666●	0.850	0.710	0.540	– –
ST	3/TO-220	1	2	4.4 to 10	1.1	0°C to 125°C	LD1117AV33	108-7165●	0.800	0.530	0.440	0.410
TS	3/SOT-223	1	2	4.8 to 7	1.5	-20°C to 85°C	TS1117CW-3.3	SMD 720-8359●	1.730	0.860	0.570	– –
FCH	6/MLP	1.3	2.5	4.5 to 7	0.9	0°C to 150°C	FAN1540BMPX	SMD 149-5488●	0.500	0.470	0.450	0.370
NSC	5/SOT-223	1.5		to 7	380	to	LP3962EMP-3.3/NOPB	NEW SMD 168-5518●	2.230	1.780	1.460	1.340
NSC	3/TO-220	1.5		to 18	1.3	to	LM1086IT-3.3/NOPB	NEW 168-5601●	1.650	1.350	1.110	1.020
NSC	5/SOT-223	1.5		to 7	240	to	LP3852EMP-3.3/NOPB	NEW SMD 168-5701●	3.500	2.880	2.350	2.160
NSC	5/SOT-223	150		to 7	380	to	LP3875EMP-3.3/NOPB	NEW SMD 168-5728●	2.420	1.990	1.630	1.500
NSC	5/TO-263	150		to 7	380	to	LP3875ES-3.3/NOPB	NEW SMD 168-5730●	2.740	2.250	1.840	1.690
LT	3/D2PAK	1.5		to 18	1	-40°C to 125°C	LT1086IM-3.3#PBF	NEW SMD 166-3352●	4.620	3.460	2.770	2.300
LT	3/SOT-223	1.5		to 20	0.34	-40°C to 125°C	LT1963AEST-3.3#PBF	NEW SMD 166-3527●	4.510	3.380	2.700	2.250
LT	3/SOT-223	1.5		to 20	0.34	-40°C to 125°C	LT1963EST-3.3#PBF	NEW SMD 166-3530●	4.510	3.380	2.700	2.250
NSC	5/TO263	1.5		to 7	0.38	-40°C to 125°C	LP3962ES-3.3/NOPB	NEW SMD 156-4725●	2.180	1.730	1.410	1.250
NSC	3/TO-263	1.5		4.0 to 18	1.3	0°C to 125°C	LM1086CS-2.5/NOPB	NEW SMD 156-4627●	1.460	1.180	0.940	0.850
NSC	3/TO-220	1.5		4.75 to 18	1.3	0°C to 125°C	LM1086CT-3.3/NOPB	NEW 156-4628●	1.460	1.180	0.950	0.850
ST	3/DPAK	1.5	–	to 30	–	-40°C to 125°C	LD29150DT33R	NEW SMD 156-4308●	0.640	0.510	0.460	0.360
MICR	3/TO-263	1.5	–	to	0.35	-40°C to 125°C	MIC29150-3.3WU	NEW SMD 155-6706●	3.560	2.620	2.140	– –
ON	6/DFN6	1.5	0.03	2.5 to 18	0.9	-40°C to 125°C	NCP565MN33T2G	NEW SMD 136-9743●	0.680	0.520	0.450	0.390
ADI	8/PDIP	1.5	5	to 30		0°C to 70°C	ADP1111ANZ-3.3	NEW 143-9038●	3.020	2.450	2.000	– –
ADI	8/SOIC	1.5	5	to 30		0°C to 70°C	ADP1111ARZ-3.3	NEW SMD 143-9043●	2.870	2.350	1.920	– –
ON	3/TO-263 (D2-Pak)	1.5	0.03	2.5 to 18	0.9	-40°C to 125°C	NCP565D2T33G	NEW SMD 136-9741●	0.810	0.590	0.530	0.470
LT	5/TO-263 (D2-Pak)	1.5		-20 to 20	0.34	-40°C to 125°C	LT1963AEQ-3.3#PBF	SMD 127-3626●	5.200	2.940	2.260	– –
LT	8/SOIC	1.5		-20 to 20	0.34	-40°C to 125°C	LT1963AES8-3.3#PBF	SMD 127-3628●	4.250	2.400	1.770	– –
LT	3/TO-263 (D2-Pak)	1.5	0.5	4.3 to 20	1	0°C to 125°C	LT1086CM-3.3#PBF	SMD 127-3561●	4.020	2.270	1.770	– –
ST	3/TO-220	1.5	1	4.6 to 30	1.3	-40°C to 125°C	LD1086V33	108-7161●	1.460	0.980	0.800	0.720
NSC	3/TO-263 (D2-Pak)	1.5	0.1	4.6 to 30	1.3	0°C to 125°C	LM1086CS-3.3	SMD 948-9959●	1.580	0.990	0.790	– –
NSC	3/TO-220	1.5	0.1	4.6 to 30	1.3	0°C to 125°C	LM1086CT-3.3	948-9983●	1.720	1.400	1.130	– –
NSC	3/TO-263 (D2-Pak)	1.5	0.1	4.6 to 30	1.3	-40°C to 125°C	LM1086IS-3.3	SMD 949-0647●	1.720	1.400	1.130	– –
NSC	5/TO-263 (D2-Pak)	1.5	1.5	2.5 to 7	0.24	-40°C to 125°C	LP3852ES-3.3	SMD 818-7894●	3.880	3.170	2.600	– –
NSC	5/TO-220	1.5	1.5	2.5 to 7	0.24	-40°C to 125°C	LP3852ET-3.3	818-7932●	2.040	1.740	1.440	– –
NSC	5/SOT-223	1.5	1.5	2.5 to 7	0.24	-40°C to 125°C	LP3855EMP-3.3	SMD 100-8284●	4.160	2.830	2.180	– –
NSC	5/TO-263 (D2-Pak)	1.5	1.5	2.5 to 7	0.24	-40°C to 125°C	LP3855ES-3.3	SMD 818-8084●	3.880	3.170	2.600	– –
NSC	5/SOT-223	1.5	1.5	3.68 to 7	0.38	-40°C to 125°C	LP3872EMP-3.3	SMD 818-8343●	2.500	2.040	1.660	– –
NSC	5/TO-263 (D2-Pak)	1.5	1.5	3.68 to 7	0.38	-40°C to 125°C	LP3872ES-3.3	SMD 818-8386●	3.060	2.300	1.880	– –
NSC	5/TO-220	1.5	1.5	3.68 to 7	0.38	-40°C to 125°C	LP3875ET-3.3	820-6953●	3.060	2.300	1.880	– –
MICR	3/TO-220	1.5	1	3.65 to 26	0.35	-40°C to 125°C	MIC29150-3.3WT.	121-3486●	4.580	3.580	2.720	2.390
TI	6/SOT-223	1.5	3	3.605 to 5.5	0.305	-40°C to 125°C	TPS78633DCQG4	SMD 120-7352●	1.750	1.440	1.320	– –
TS	3/TO-252	1.5	2	4.8 to 7	1.5	-20°C to 85°C	TS1086CP-3.3	SMD 720-8332●	1.460	0.720	0.480	– –
TS	3/TO-220	1.5	2	4.8 to 7	1.5	-20°C to 85°C	TS1086CZ-3.3	720-8324●	1.110	0.560	0.370	– –
TI	24/HTSSOP	2	2	2.7 to 6	0.16	-40°C to 125°C	TPS70351PWPG4	SMD 123-4809●	3.480	2.810	2.290	2.160
TI	20/HTSSOP	2	2	3.51 to 5	0.21	-40°C to 125°C	TPS75233QPWP	SMD 113-5446●	3.610	2.460	1.830	1.740
NSC	7/TO-263	2		to 60		-40°C to 125°C	LM2593HVS-3.3/NOPB	NEW SMD 156-4634●	5.260	4.280	3.520	2.940
LT	5/D2PAK	3		4.3 to 15		0°C to 125°C	LT1529CQ-3.3#PBF	NEW SMD 161-5857●	5.820	4.650	3.890	3.590
LT	5/D2PAK	3		to 15		0°C to 125°C	LT1528CQ#PBF	NEW SMD 161-5860●	5.820	4.650	3.890	3.590
NSC	16/TSSOP	2.5		to 14		to	LM2655MTC-3.3/NOPB	NEW SMD 168-5620●	3.180	2.620	2.140	1.960
NSC	3/TO-220	3		to 7	1.15	to	LMS1587CT-3.3/NOPB	NEW 168-5590●	2.130	1.750	1.430	1.310
NSC	3/TO-263	3		to 7	1.15	to	LMS1587IS-3.3/NOPB	NEW SMD 168-5593●	2.130	1.750	1.430	1.310
NSC	5/TO-263	3		to 7	390	to	LP3853ES-3.3/NOPB	NEW SMD 168-5702●	5.670	4.660	3.820	3.500
NSC	5/TO-263	3		to 60		to	LM2576HVS-3.3/NOPB	NEW SMD 168-5613●	4.920	4.060	3.310	3.040
NSC	7/TO-263	3		to 40		to	LM2670S-3.3/NOPB	NEW SMD 168-5621●	3.960	3.260	2.660	2.450
LT	3/TO-220	3		to 25	1	0°C to 125°C	LT1085CT-3.3#PBF	NEW 166-3350●	6.390	4.790	3.840	3.200
LT	5/D2PAK	3		to 20	0.34	-40°C to 125°C	LT1764AEQ-3.3#PBF	NEW SMD 166-3482●	6.980	5.230	4.190	3.500
MICR	3/SPAK	3		to 6	0.5	-40°C to 125°C	MIC37300-3.3WR	NEW SMD 166-3090●	2.970	2.230	1.780	1.620
NSC	14/TSSOP-EP	3		3.0 to 5.5		-40°C to 125°C	LM2853MH-3.3/NOPB	NEW SMD 156-4772●	4.280	3.500	2.880	2.390
NSC	5/TO263	3		2.5 to 7	0.8	-40°C to 125°C	LP3966ES-3.3/NOPB	NEW SMD 156-4694●	2.780	2.210	1.780	1.590
NSC	5/TO-263	3		2.5 to 7	0.8	-40°C to 125°C	LP3963ES-3.3/NOPB	NEW SMD 156-4755●	2.780	2.210	1.780	1.590
MICR	3/TO-263	3	–	to	0.35	-40°C to 125°C	MIC29300-3.3WU	NEW SMD 155-6740▲	3.600	3.200	2.620	– –
MICR	5/TO-263	3	–	to 36	–	-40°C to 85°C	MIC4576-3.3WU	NEW 155-6719●	2.900	2.320	1.940	– –
NSC	5/TO-263	3	–	to 40	–	-40°C to 125°C	LM2596S-3.3/NOPB	NEW 156-4609●	3.540	2.880	2.360	1.960
LT	5/TO-220	3	–	-15 to 15	0.6	0°C to 125°C	LT1528CT#PBF	127-3583●	6.390	3.610	2.890	– –
LT	5/TO-220	3	–	-15 to 15	0.6	0°C to 125°C	LT1529CT-3.3#PBF	127-3584●	6.390	3.520	2.600	– –
NSC	5/TO-220	3	1.5	2.5 to 7	0.39	-40°C to 125°C	LP3853ET-3.3	818-8017●	5.830	4.770	3.890	– –
NSC	5/TO-263 (D2-Pak)	3	1.5	2.5 to 7	0.39	-40°C to 125°C	LP3856ES-3.3	SMD 818-8165●	5.830	4.770	3.890	– –
TI	3/TO-220	3	1.5	3.85 to 9	0.45	-40°C to 85°C	UCC283T-3	113-5447●	5.520	3.770	3.040	2.930
TI	3/TO-263 (D2-Pak)	3	1.5	3.85 to 9	0.45	-40°C to 85°C	UCC283TDKTTT-3	SMD 113-5449●	5.520	3.770	2.920	2.850
TI	3/TO-263 (D2-Pak)	3	1.5	3.85 to 9	0.45	0°C to 70°C	UCC383TDKTTT-3	SMD 113-5452●	4.810	3.690	2.940	2.440
NSC	5/TO-263 (D2-Pak)	3	1.5	4.1 to 7	0.8	-40°C to 125°C	LP3873ES-3.3	SMD 818-8467●	3.860	2.920	2.390	– –
NSC	5/TO-220	3	1.5	4.1 to 7	0.8	-40°C to 125°C	LP3873ET-3.3	818-8505●	1.870	1.600	1.290	– –
NSC	5/TO-263 (D2-Pak)	3	1.5	4.1 to 7	0.8	-40°C to 125°C	LP3876ES-3.3	SMD 820-6996●	3.860	2.920	2.390	– –
NSC	5/TO-220	3	1.5	4.1 to 7	0.8	-40°C to 125°C	LP3876ET-3.3	820-7038●	1.840	1.570	1.260	– –
LT	3/TO-263 (D2-Pak)	3	–	4.3 to 20	1	0°C to 125°C	LT1085CM-3.3#PBF	SMD 127-3560●	6.970	3.940	3.080	– –
MICR	3/TO-220	3	1	3.37 to 26	0.37	-40°C to 125°C	MIC29300-3.3WT	121-3487●	3.920	2.680	2.020	1.880
TS	3/TO-220	3	2	4.8 to 7	1.5	-20°C to 85°C	TS1085CZ-3.3	720-8286●	1.230	0.620	0.410	– –
NSC	3/TO-263	5		to 7	1.15	to	LMS1585AIS-3.3/NOPB	NEW SMD 168-5588●	2.130	1.750	1.430	1.310
NSC	3/TO-220	5		to 7	1.15	to	LMS1585AIT-3.3/NOPB	NEW 168-5589●	2.130	1.750	1.430	1.310
NSC	7/TO-263	5		to 40		to	LM2677S-3.3/NOPB	NEW SMD 168-5626●	7.520	6.180	5.060	4.640
NSC	3/TO-220	5		2.5 to 13	1.2	0°C to 125°C	LMS1585ACT-3.3/NOPB	NEW 156-4622●	2.090	1.670	1.350	1.210
NSC	3/TO-263	5		to 27	1.3	-40°C to 125°C	LM1084IS-3.3/NOPB	NEW SMD 156-4625●	2.360	1.870	1.520	1.350
TS	3/TO-263	5	2	4.8 to 7	1.5	-20°C to 85°C	TS1084CM-3.3	SMD 720-8251●	1.790	0.900	0.590	– –
TS	3/TO-220	5	2	4.8 to 7	1.5	-20°C to 85°C	TS1084CZ-3.3	720-8243●	2.620	1.310	0.860	– –
LT	3/TO-220	7	–	to 7	1.2	0°C to 125°C	LT1584CT-3.3#PBF	127-3601●	10.270	5.810	4.660	– –

RL Re-reeling available

Mftr.	Pins/Pkg	Output Current (A)	Output Tolerance (%)	Input Voltage Range (V)	Dropout Voltage (V)	Operating Temp. Range	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+
3.3 V												
LT	3/TO-263 (D2-Pak)	7	–	to 7	1.2	0°C to 125°C	LT1585CM-3.3#PBF	SMD 127-3602●	7.560	4.270	3.310	– –
LT	3/TO-220	7	–	to 7	1.2	0°C to 125°C	LT1585CT-3.3#PBF	127-3604●	6.970	3.940	3.080	– –
LT	3/TO-263 (D2-Pak)	7	–	to 7	–	0°C to 125°C	LT1587CM-3.3#PBF	SMD 127-3606●	6.390	3.610	2.850	– –
3.45 V												
TI	5/SC70	0.05	–	2.5 to 24	0.415	-40°C to 125°C	TPS715345DCKR.	NEW SMD 156-0649●	0.620	0.550	0.390	0.360
3.5 V												
NSC	5/SOT-23	150		to 16	300	to	LP2985AIM5-3.5/NOPB	NEW SMD 168-5680●	0.480	0.400	0.330	0.300
3.6 V												
NSC	8/MSOP	0.15	1	3.735 to 7	0.135	-40°C to 85°C	LP2966IMM-3636	SMD 977-8454●	1.620	1.140	0.940	– –
NSC	5/SOT-23	150		to 16	300	to	LP2985AIM5-3.6/NOPB	NEW SMD 168-5681●	0.480	0.400	0.330	0.300
NSC	5/SOT-23	100		to 16	200	to	LP2981AIM5-3.6/NOPB	NEW SMD 168-5548●	0.660	0.510	0.420	0.390
4.0 V												
NSC	5/SOT-23	150		to 16	300	to	LP2985AIM5-4.0/NOPB	NEW SMD 168-5682●	0.480	0.400	0.330	0.300
NSC	5/SOT-23	150		to 16	300	to	LP2985IM5-4.0/NOPB	NEW SMD 168-5683●	0.470	0.380	0.310	0.290
4.5 V												
NSC	5/SOT-23	150		to 16	300	to	LP2985IM5-4.5/NOPB	NEW SMD 168-5684●	0.470	0.380	0.310	0.290
NSC	5/SOT-23	150		to 16	300	to	LP2985AIM5-4.5/NOPB	NEW SMD 168-5756●	0.480	0.400	0.330	0.300
4.7 V												
LTC	20/UTQFN	1.5		to 5.5		-40°C to 85°C	LTC4098EPDC#PBF	NEW SMD 160-9767●	4.200	3.360	3.050	2.800
4.75 V												
MAX	8/μMax	0.125		to 5.5		-40°C to 85°C	MAX1595EUA50+	NEW SMD 167-3185●	3.060	2.190	1.700	1.530

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Mftr.	Pins/Pkg	Output Current (A)	Output Tolerance (%)	Input Voltage Range (V)	Dropout Voltage (V)	Operating Temp. Range	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+
5 V												
NSC	5/SOT-23			to 5.5		-40°C to 125°C	LM2735XQMF	NEW SMD 166-7425●	2.560	2.000	1.630	1.380
NSC	5/SOT-23	15		to 20		to	LM3411M5-5.0/NOPB	NEW SMD 168-5576●	1.010	0.780	0.640	0.580
NSC	5/SOT-23	15		to 20		to	LM3411AM5-5.0/NOPB	NEW SMD 168-5647●	1.270	1.040	0.850	0.780
LT	6/DFN	0.02		to 20	0.28	-40°C to 125°C	LT3009EDC-5#TRMPBF	NEW SMD 166-3818●	1.830	1.420	1.140	0.940
LT	8/MSOP	0.05		to 80	0.3	-40°C to 125°C	LT3010EMS8E-5#PBF	NEW SMD 166-3542●	2.950	2.210	1.770	1.480
MAX	5/SOT-23	0.15		to 5.5		-40°C to 85°C	MAX1724EZK33+T	NEW SMD 167-3190●	2.950	2.110	1.640	1.480
MAX	5/SOT-23	0.15		to 5.5		-40°C to 85°C	MAX1724EZK50+T	NEW SMD 167-3192●	2.950	2.110	1.640	1.480
NSC	5/SOT-23	50		to 16	120	to	LP2982AIM5-5.0/NOPB	NEW SMD 168-5676●	0.630	0.510	0.420	0.390
NSC	8/Mini SOIC	0.05	3	5 to 60	0.2	-40°C to 125°C	LM2936MM-5.0	SMD 131-2707●	1.590	1.270	1.040	0.900
NSC	8/SOIC	0.05	3	5.2 to 60	0.2	-40°C to 125°C	LM2936HVMA-5.0	SMD 761-4240●	1.330	1.120	0.890	– –
NSC	8/SOIC	0.05	3	5.2 to 60	0.2	-40°C to 125°C	LM2936M-5.0	SMD 949-4421●	1.610	0.950	0.760	– –
NSC	3/SOT-223	0.05	3	5.2 to 60	0.2	-40°C to 125°C	LM2936MP-5.0	SMD 977-9256● RL	1.940	1.210	0.980	– –
NSC	5/SOT-23	0.05	0.5	5.12 to 16	0.12	-40°C to 125°C	LP2980AIM5-5.0	SMD 977-9647●	0.630	0.440	0.360	0.340
NSC	5/SOT-23	0.05	1	5.12 to 16	0.12	-40°C to 125°C	LP2980IM5-5.0	SMD 977-9329●	0.570	0.390	0.340	0.270
NSC	5/SOT-23	0.05	2	5.12 to 16	0.12	-40°C to 125°C	LP2982IM5-5.0	SMD 977-9825● RL	0.820	0.590	0.480	0.460
TI	5/SOT-23	0.05	2	5.2 to 16	0.12	-40°C to 125°C	TPS76050DBVT	SMD 846-1287●	0.490	0.400	0.340	– –
NSC	8/SOIC	0.05	3	5.5 to 40	0.2	-40°C to 125°C	LM2936BM-5.0.	SMD 128-6861●	1.420	0.990	0.810	0.720
NSC	3/TO-252 (D-Pak)	0.05	3	5.5 to 40	0.2	-40°C to 125°C	LM2936DT-5.0.	128-6864●	1.580	1.100	0.890	0.800
NSC	8/SOIC	0.05	3	5.5 to 60	0.2	-40°C to 125°C	LM2936HVBMA-5.0	SMD 128-6867●	1.580	1.090	0.890	0.800
MCHIP	3/SOT-223	0.07		to 30	0.7	-40°C to 125°C	MCP1790-5002E/DB	NEW SMD 167-5423●	1.510	1.020	0.800	– –
MCHIP	5/SOT223	0.07		6 to 30		-40°C to 125°C	MCP1791T-5002E/DC	NEW SMD 162-9344●	1.040	0.780	0.620	– –
ZET	3/SOT-23	0.07	2.5	7 to 20	2	-40°C to 85°C	ZMR500FTA	SMD 113-2693● RL	0.500	0.470	0.390	– –
NSC	3/TO-220	100		to 26	300	to	LM2931AT-5.0/NOPB	NEW 168-5489●	0.950	0.730	0.610	0.550
NSC	3/TO-92	100		to 25		to	LM340LAZ-5.0/NOPB	NEW 168-5490●	0.640	0.500	0.410	0.380
NSC	5/SOT-23	100		to 16	200	to	LP2981IM5-2.5/NOPB	NEW SMD 168-5495●	0.650	0.500	0.410	0.380
NSC	3/TO-263	100		to 26	300	to	LM2931AS-5.0/NOPB	NEW SMD 168-5634●	1.700	1.390	1.140	1.050
NSC	3/TO-263	100		to 26	300	to	LM2931S-5.0/NOPB	NEW SMD 168-5635●	1.610	1.330	1.090	0.990
LT	5/SOT-23	0.1		to 20	0.3	-40°C to 125°C	LT1761ES5-5#TRMPBF	NEW SMD 166-3780●	1.940	1.500	1.200	1.000
TI	3/SOT-89	0.1		to 20	1.7	0°C to 125°C	UA78L05AIPK.	NEW SMD 164-8659●	0.210	0.175	0.140	0.129
ST	3/TO92	0.1		to 30	1.7	-40°C to 125°C	L78L05ABZ	NEW 156-4312●	0.290	0.230	0.210	0.168
NSC	8/SOIC	0.1		to 26	0.3	-40°C to 85°C	LM2931M-5.0/NOPB	NEW SMD 156-4639●	0.420	0.340	0.290	0.250
NSC	3/TO-92	0.1	0.5	0.3 to 30	0.38	-40°C to 125°C	LP2950ACZ-5.0	948-9460●	0.730	0.620	0.490	0.390
ST	3/SOT-89	0.1	5	7 to 20	1.7	0°C to 125°C	L78L05ACUTR	SMD 136-6573●	0.570	0.360	0.280	0.240
SIP	5/SOT-23	0.1		0.5 to 4.5		-40°C to 85°C	SP6641AEK-L-5-0	SMD 131-7823●	1.080	0.830	0.680	0.650
TI	8/SOIC	0.1		to 20	1.7	0°C to 125°C	UA78L05CD	SMD 146-0969●	0.410	0.280	0.183	0.137
ST	3/SOT-89	0.1	5	7 to 20	1.7	0°C to 125°C	L78L05ACUTR	SMD 136-6573●	0.570	0.360	0.280	0.240
NSC	3/TO-92	0.1		0.3 to 30	0.38	-40°C to 125°C	LP2950CZ-5.0	948-9479●	0.500	0.410	0.370	0.360
TI	5/SOT-23	0.1	1.5	5.06 to 10	0.06	-40°C to 85°C	REG101NA-5/250G4	SMD 120-7241●	1.250	1.060	0.980	– –
ST	8/SO	0.1	3	5.17 to 20	0.17	-40°C to 125°C	LK115D50	SMD 108-7199●	0.870	0.640	0.480	0.410
NSC	5/SOT-23	0.1	1	5.2 to 16	0.2	-40°C to 125°C	LP2981AIM5-5.0	SMD 977-9957●	0.800	0.670	0.530	– –
NSC	5/SOT-23	0.1	2	5.2 to 16	0.2	-40°C to 125°C	LP2981IM5-5.0	SMD 977-9817●	0.840	0.670	0.630	0.590
ST	8/SO	0.1	2	5.2 to 20	0.2	-40°C to 125°C	LE50ABD	SMD 108-7176●	0.730	0.480	0.380	0.360
ST	3/TO-92	0.1	2	5.2 to 20	0.2	-40°C to 85°C	LE50CZ	975-5357●	0.620	0.440	0.340	0.310
NSC	3/TO-92	0.1	3.8	5.3 to 26	0.3	-40°C to 85°C	LM2931AZ-5.0	948-9487●	0.550	0.450	0.420	0.410
NSC	8/SOIC	0.1	3.8	5.3 to 26	0.3	-40°C to 85°C	LM2931M-5.0	SMD 949-3433●	0.500	0.410	0.370	0.360
NSC	3/TO-220	0.1	3.8	5.3 to 26	0.3	-40°C to 85°C	LM2931T-5.0	948-9614●	0.930	0.760	0.700	0.680
NSC	3/TO-92	0.1	3.8	5.3 to 26	0.3	-40°C to 85°C	LM2931Z-5.0	948-9568●	0.660	0.450	0.370	0.350
TI	3/TO-92	0.1	2	5.38 to 30	0.38	-40°C to 125°C	LP2950-50LPRE3	126-2363●	0.460	0.340	0.250	0.181
TI	5/SOT-23	0.1	2	5.38 to 16	0.17	-40°C to 125°C	TPS76150DBVT	SMD 846-1309●	0.720	0.610	0.580	– –
SIP	5/SC-70	0.1	4	5.5 to 6	0.5	-40°C to 125°C	SP6213EC5-L-5-0	SMD 938-8443●	0.480	0.400	0.330	0.310
ON	8/SOIC	0.1	2	5.6 to 40	0.6	-40°C to 85°C	LM2931AD-5.0G	SMD 121-1098●	0.680	0.480	0.340	– –
ON	3/TO-220	0.1	2	5.6 to 40	0.6	-40°C to 125°C	LM2931AT-5.0	300-4685	0.620	0.400	0.280	– –
ON	3/TO-220	0.1	2	5.6 to 40	0.6	-40°C to 125°C	LM2931AT-5.0G	121-4456●	1.010	0.640	0.470	– –
ON	8/SOIC	0.1	2	5.6 to 40	0.6	-40°C to 125°C	LM2931D-5.0G	SMD 121-4458●	0.480	0.300	0.220	– –
ON	3/TO-220	0.1	2	5.6 to 40	0.6	-40°C to 150°C	LM2931T-5.0G	121-4464●	0.950	0.700	0.570	0.480
NSC	3/SOT-23	0.1	5	6 to 30	0.9	-40°C to 125°C	LM3480IM3-5.0	SMD 316-0634● RL	0.720	0.530	0.440	– –
FCH	3/TO-92	0.1	5	6.7 to 30	1.7	0°C to 125°C	KA78L05AZ	101-4073●	0.320	0.220	0.146	– –
ST	8/SOIC	0.1	5	6.7 to 30	1.7	-40°C to 125°C	L78L05ABD	SMD 108-7098●	0.290	0.220	0.159	0.125
ST	8/SO	0.1	5	6.7 to 30	1.7	0°C to 125°C	L78L05ACD	SMD 108-7099●	0.570	0.350	0.210	0.122
ST	8/SO	0.1	10	6.7 to 30	1.7	0°C to 125°C	L78L05CD	SMD 108-7100●	0.210	0.161	0.132	0.117
ON	8/SOIC	0.1	5	6.7 to 30	1.7	0°C to 150°C	MC78L05ACDG	SMD 966-6265●	0.370	0.240	0.164	0.123
ON	3/TO-92	0.1	5	6.7 to 30	1.7	0°C to 150°C	MC78L05ACPG	966-6125●	0.340	0.230	0.167	0.116
TI	8/SOIC	0.1	5	7 to 20	1.7	0°C to 125°C	UA78L05ACDG4	SMD 123-6589●	0.191	0.129	0.105	0.092
TI	3/SOT-89	0.1	5	7 to 20	1.7	0°C to 125°C	UA78L05ACPKG3	SMD 123-6590●	0.220	0.148	0.120	0.098
TI	3/TO-92	0.1	5	7 to 20	1.7	-40°C to 125°C	UA78L05AILPE3	123-6591●	0.240	0.159	0.129	0.106
TI	3/TO-92	0.1	5	7 to 20	2	0°C to 125°C	UA78L05ACLP	959-3853● RL	0.300	0.240	0.166	– –
TI	3/SOT-89	0.1	5	7 to 20	2	0°C to 125°C	UA78L05ACPKG4	SMD 959-3870● RL	0.360	0.300	0.220	– –
TI	8/SOIC	0.1	5	7 to 20	2	0°C to 125°C	UA78L05ACD	SMD 959-3845●	0.280	0.220	0.159	– –
NSC	8/SOIC	0.1	5	7 to 35	2	0°C to 125°C	LM78L05ACM	SMD 948-9436●	0.350	0.210	0.172	0.167
NSC	3/TO-92	0.1	5	7 to 35	2	0°C to 125°C	LM78L05ACZ	948-9444●	0.350	0.210	0.165	0.143
TS	8/SOIC	0.1	4	7 to 35	2	-20°C to 85°C	TS78L05CS	SMD 720-7956●	0.137	0.099	0.079	– –
TS	3/TO-92	0.1	4	7 to 35	2	-20°C to 85°C	TS78L05CT	720-3713●	0.340	0.260	0.170	– –
NSC	10/LLP	120		to 5.6		to	LM2750SD-5.0/NOPB	NEW SMD 168-5760●	2.220	1.820	1.490	1.360
NSC	5/SOT-23	150		to 16	300	to	LP2985IM5-5.0/NOPB.	NEW SMD 168-5497●	0.450	0.340	0.290	0.260
NSC	3/TO-220	150		to 26	320	to	LM330T-5.0/NOPB	NEW 168-5500●	1.030	0.800	0.650	0.590
LT	8/SOIC	0.15		to 20	0.4	-40°C to 125°C	LT1121AIS8-5#PBF	NEW SMD 166-3362●	4.350	3.270	2.610	2.180

RL Re-reeling available

Farnell

Fixed Voltage Regulators - continued

Mftr.	Pins/Pkg	Output Current (A)	Output Tolerance (%)	Input Voltage Range (V)	Dropout Voltage (V)	Operating Temp. Range	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+
5 V												
LT	3/SOT-223	0.15		to 20	0.4	0°C to 125°C	LT1121CST-5#PBF	NEW SMD 166-3364	3.310	2.490	1.990	1.660
LT	3/TO-92	0.15		to 20	0.4	0°C to 125°C	LT1121CZ-5#PBF	NEW 166-3365	2.460	1.840	1.480	1.230
NSC	5/SOT-23	0.15		to 16	0.3	-40°C to 125°C	LP2985IM5-5.0/NOPB	NEW SMD 156-4671	0.410	0.330	0.270	0.240
LT	8/MSOP	0.15		-20 to 20	0.3	-40°C to 125°C	LT1762EMS8-5#PBF	SMD 127-3612	2.240	1.270	1.000	– –
LT	8/SOIC	0.15		-30 to 30	0.4	0°C to 125°C	LT1121ACS8-5#PBF	SMD 127-3569	3.690	2.080	1.540	– –
MICR	8/SOIC	0.15		to 30	0.3	-40°C to 125°C	MIC2951-03YM	NEW SMD 155-6713	0.860	0.630	0.510	– –
MICR	5/SOT-23	0.15		to 16	0.165	-40°C to 125°C	MIC5205-5.0YM5 TR	NEW SMD 155-6768	0.330	0.270	0.220	– –
NSC	3/TO-263 (D2-Pak)	0.15		5.32 to 26	0.32	-40°C to 85°C	LM2930S-5.0	SMD 949-4413	1.170	0.890	0.760	– –
NSC	3/TO-220	0.15		5.32 to 26	0.32	-40°C to 85°C	LM2930T-5.0	948-9703	0.830	0.700	0.630	0.540
NSC	8/SOIC	0.15	3	5.4 to 40	0.4	-40°C to 125°C	LM9076BMA-5.0	SMD 818-1578	1.630	1.500	1.200	– –
NSC	5/TO-263 (D2-Pak)	0.15	3	5.4 to 40	0.4	-40°C to 125°C	LM9076S-5.0	SMD 818-1586	1.920	1.600	1.300	– –
TI	5/SOT-23	0.15	1.5	2.5 to 16	0.28	-40°C to 125°C	LP2985-50DBVTG4	SMD 149-4904	0.580	0.490	0.380	0.290
NSC	8/MSOP	0.15	1	5.135 to 7	0.135	-40°C to 85°C	LP2966IMM-5050	SMD 977-8462	1.140	0.880	0.710	– –
NSC	8/MSOP-8	0.15	1	5.135 to 7	0.135	-40°C to 85°C	LP2966IMM-5050.	SMD 302-4404	0.850	0.620	0.500	– –
NSC	5/SOT-23	0.15	1	2.5 to 16	0.28	-40°C to 125°C	LP2985AIM5-5.0	SMD 977-8292 RL	0.490	0.290	0.230	– –
NSC	8/Bump Micro SMD	0.15	1	2.5 to 16	0.28	-40°C to 125°C	LP2985AITP-5.0	SMD 100-8045	0.480	0.340	0.280	– –
NSC	5/SOT-23	0.15	1.5	2.5 to 16	0.28	-40°C to 125°C	LP2985IM5-5.0	SMD 977-8306	0.760	0.530	0.440	– –
LT	8/DIP-8	0.15		5.4 to 30	0.4	0°C to 125°C	LT1121CN8-5	386-2069 ▲	0.470	– –	– –	– –
LT	8/DIP	0.15		5.4 to 30	0.4	0°C to 125°C	LT1121CN8-5#PBF	956-0050	2.840	1.600	1.190	– –
LT	8/SOIC	0.15		5.4 to 30	0.4	0°C to 125°C	LT1121CS8-5#PBF	SMD 956-0076	3.020	1.710	1.310	– –
LT	3/SOT-223	0.15		5.4 to 30	0.4	-40°C to 125°C	LT1121IST-5#PBF	SMD 956-0084	3.900	2.200	1.620	– –
TI	8/SOIC	0.15		6 to 26	0.06	0°C to 125°C	TL750L05CD	SMD 959-3659	0.610	0.390	0.280	– –
TI	3/TO-92	0.15		6 to 26	0.06	0°C to 125°C	TL750L05CLP	110-0943	0.860	0.480	0.340	– –
TI	3/TO-92	0.15		6 to 26	0.06	0°C to 125°C	TL750L05CLPE3	121-9425	1.060	0.580	0.420	– –
TS	3/TO-92	0.15	0.5	5.4 to 30	0.4	-20°C to 85°C	TS2950CT-5.0 A3	726-1411	0.570	0.420	0.350	– –
TS	8/SOIC-8	0.15	0.5	5.4 to 30	0.4	-20°C to 85°C	TS2951CS-5.0 RL	SMD 726-1420	0.430	0.300	0.270	– –
TOR	3/SOT-23	0.15	2	5.67 to 20	0.67	-40°C to 85°C	XC6202P502MR	SMD 360-5760	0.640	0.550	0.490	– –
TOR	3/SOT-89	0.15	2	5.67 to 20	0.67	-40°C to 85°C	XC6202P502PR	SMD 360-5772	0.640	0.550	0.490	– –
TOR	5/SOT-23	0.15	2	5.2 to 10	0.2	-40°C to 85°C	XC6204B502MRN	SMD 110-6659	0.550	0.470	0.430	– –
TOR	4/SSOT-24	0.15	2	5.32 to 6	0.32	-40°C to 85°C	XC6215B502NR	SMD 105-7812	0.420	0.370	0.300	– –
MICR	5/SOT-23	0.18	–	2.5 to 16	–	-40°C to 125°C	MIC5207-5.0BM5 TR	NEW SMD 155-6776	0.480	0.380	0.310	– –
MAX	16/SOIC	0.2		to 9.3		0°C to 70°C	MAX732CWE+	NEW SMD 167-3214	5.820	4.160	3.230	2.910
NSC	8/SOIC	0.2	0.5	2.1 to 16	0.18	-40°C to 125°C	LP2986AIM-5.0	SMD 949-4880	1.780	1.210	0.990	– –
SIP	5/SOT-23	0.2	3	4.5 to 7	0.5	-40°C to 125°C	SP6201EM5-L-5-0	SMD 938-8192	0.390	0.350	0.320	0.300
NSC	8/SOIC	200		to 16	180	to	LP2988AIM-5.0/NOPB	NEW SMD 168-5502	1.580	1.230	1.010	0.930
NSC	3/TO-263	250		to 30	470	to	LP2954AIS/NOPB	NEW SMD 168-5547	4.080	3.160	2.590	2.380
NSC	5/SOT-23	250		to 16	450	to	LP2992AIM5-5.0/NOPB	NEW SMD 168-5561	0.750	0.590	0.480	0.450
NSC	5/TO-263	250		to 30	470	to	LP2957AIS/NOPB	NEW SMD 168-5671	3.580	2.950	2.410	2.210
NSC	5/TO-263	250		to 30	470	to	LP2957IS/NOPB	NEW SMD 168-5672	2.750	2.270	1.850	1.700
MCHIP	3/SOT223	0.25		to 13.2		-40°C to 125°C	MCP1703-5002E/DB	NEW SMD 162-7178	0.660	0.500	0.390	– –
MAX	16/TQFN	0.25	–	4.0 to 72	–	-40°C to 125°C	MAX5093BATE+	SMD 145-5624	2.710	2.390	2.040	– –
MICR	3/SOT223	0.25	–	-20 to 60	0.04	-40°C to 125°C	MIC2954-02WS	NEW SMD 155-6741	1.340	1.190	0.970	– –
MICR	8/SOIC	0.25	–	2.0 to 30	–	-40°C to 125°C	MIC2954-08YM	NEW SMD 155-6764	1.090	0.970	0.790	– –
MCHIP	3/SOT-23A	0.25	2	2.7 to 16	0.65	-40°C to 125°C	MCP1703T-5002E/CB	SMD 143-9519	0.460	0.330	0.250	– –
ST	8/SOIC	0.25	2	5.4 to 20	0.4	-40°C to 85°C	L4931CD50	SMD 109-4212	1.130	0.850	0.660	0.550
MCHIP	3/SOT-23	0.25	0.4	5.2 to 6	0.178	-40°C to 125°C	MCP1700T-5002E/TT	SMD 129-6593	0.340	0.220	0.180	– –
TI	8/SOIC	0.25	2	5.41 to 10	0.19	-40°C to 125°C	TPS7250QD	SMD 113-5413	1.340	0.910	0.650	0.610
TI	8/DIP	0.25	2	5.41 to 10	0.19	-40°C to 125°C	TPS7250QP	113-5414	0.680	0.560	0.470	0.430
NSC	3/TO-220	0.25	1.2	5.8 to 30	0.8	-40°C to 125°C	LP2954AIT	949-4847	4.430	3.620	3.320	– –
NSC	3/TO-263 (D2-Pak)	0.25	1.2	5.8 to 30	0.8	-40°C to 125°C	LP2954IS	SMD 949-4855	2.790	1.900	1.550	– –
NSC	3/TO-220	0.25	1.2	5.8 to 30	0.8	-40°C to 125°C	LP2954IT	948-6020	2.350	1.920	1.760	1.720
TI	8/SOIC	0.25	3	5.14 to 10	0.14	-40°C to 125°C	TPS76650D	SMD 846-1430	0.780	0.660	0.580	– –
TOR	5/SOT-23	0.25	2	5.4 to 10	0.4	-40°C to 85°C	XC6201P502MRN	SMD 105-7795	0.460	0.400	0.330	– –
TOR	3/SOT-89	0.25	2	5.4 to 10	0.4	-40°C to 85°C	XC6201P502PRN	SMD 105-7796	0.460	0.400	0.330	– –
TOR	3/SOT-23	0.25	2	5.38 to 10	0.38	-40°C to 85°C	XC62FP5002MR	SMD 360-5620	0.550	0.470	0.430	0.390
TOR	3/SOT-89	0.25	2	5.38 to 10	0.38	-40°C to 85°C	XC62FP5002PR	SMD 360-5632	0.550	0.470	0.430	0.390
LT	8/SOIC	0.3		to 20	0.5	-40°C to 125°C	LT1521IS8-5#PBF	NEW SMD 166-3448	4.570	3.540	2.840	2.360
LT	3/SOT-223	0.3		to 20	0.5	-40°C to 125°C	LT1521IST-5#PBF	NEW SMD 166-3450	4.570	3.540	2.840	2.360
LT	16/SOIC	0.3		-20 to 20	0.4	0°C to 125°C	LT1579CS-5#PBF	SMD 127-3596	7.090	4.010	3.310	– –
LT	8/SOIC	0.3		5.5 to 20	0.5	0°C to 125°C	LT1521CS8-5	SMD 476-7410 ▲	2.060	1.740	1.430	– –
LT	8/SOIC	0.3		5.5 to 20	0.5	0°C to 125°C	LT1521CS8-5#PBF	SMD 956-0602	3.900	2.210	1.920	– –
LT	3/SOT-223	0.3		5.5 to 20	0.5	0°C to 125°C	LT1521CST-5#PBF	SMD 956-0610	3.900	2.150	1.590	– –
ZET	8/SOIC	0.3	2	5.3 to 20	0.03	-40°C to 85°C	ZLD0500T8	SMD 113-2779	2.070	1.260	0.980	0.730
TI	5/SOT-23	0.4		to 10	0.25	-40°C to 85°C	REG113NA-5/3K	NEW SMD 162-4405	1.830	1.440	1.080	0.990
MICR	3/SOT-223	0.4		to	0.35	-40°C to 125°C	MIC2920A-5.0WS	NEW SMD 155-6707	1.230	0.900	0.740	– –
TI	5/SOT-23	0.4	1.5	2.05 to 10	0.25	-40°C to 85°C	REG113NA-5	SMD 121-2356	1.480	1.220	1.060	– –
TOR	3/SOT-89	0.4	2	5.3 to 8	0.3	-40°C to 85°C	XC6203E502PR	SMD 360-5796	0.650	0.560	0.500	– –
NSC	3/TO-220	500		to 35		to	LM341T-5.0/NOPB	NEW 168-5492	1.040	0.810	0.660	0.610
NSC	3/TO-220	500		to 35		to	LM78M05CT/NOPB	NEW 168-5493	0.980	0.770	0.630	0.570
NSC	3/TO-220	500		to 35		to	LM341T-12/NOPB	NEW 168-5501	1.040	0.810	0.660	0.610
NSC	16/SOIC	500		to 30	470	to	LP2960IM-5.0/NOPB	NEW SMD 168-5674	2.100	1.740	1.420	1.300
NSC	8/Mini SOIC	500		to 16	310	to	LP2989AIMM-5.0/NOPB	NEW SMD 168-5688	1.900	1.550	1.280	1.170
NSC	8/SOIC	500		to 16	310	to	LP2989IM-5.0/NOPB	NEW SMD 168-5689	1.650	1.350	1.110	1.020
NSC	6/LLP	500		to 10	250	to	LP38691SD-5.0/NOPB	NEW SMD 168-5716	0.980	0.810	0.660	0.610
NSC	8/MDIP	500		to 40		to	LM2674N-5.0/NOPB	NEW 168-5517	2.760	2.150	1.760	1.610
NSC	8/PSOP	500		to 42		to	LM22671MRE-5.0/NOPB	NEW SMD 168-5796	2.620	2.150	1.760	1.610
NSC	8/PSOP	500		to 42		to	LM22674MRE-5.0/NOPB	NEW SMD 168-5803	2.490	2.050	1.670	1.530
MAX	16/SOIC	0.5		to 11		-40°C to 85°C	MAX710ESE+	NEW SMD 167-3213	6.480	4.630	3.600	3.240
NSC	8/SOIC	0.5		to 60		-40°C to 125°C	LM2597HVM-5.0/NOPB	NEW SMD 156-4636	3.910	3.180	2.620	2.180
MICR	3/SOT-223	0.5		to	0.01	-40°C to 125°C	MIC5209-5.0YS	NEW SMD 155-6726	1.010	0.740	0.610	– –
FCH	8/TO-220	0.5	5	7 to 35	2	0°C to 150°C	LM78M05CT	SMD 141-7671	0.300	0.230	0.182	0.152
ST	3/TO-252 (D-Pak)	0.5	2	7 to 25	2	-40°C to 125°C	L78M05ABDT-TR	SMD 136-6575	0.880	0.580	0.480	0.450
SIP	5/SOT-23	0.5		0.5 to 4.5		-40°C to 85°C	SP6641BEK-L-5-0	SMD 131-7825	1.060	0.820	0.670	0.640
MCHIP	8/SOIC	0.5	2	2.3 to 6	0.21	-40°C to 125°C	MCP1725-5002E/SN	SMD 143-9384	0.970	0.680	0.540	– –
LT	8/SOIC	0.5		5.1 to 25	0.1	0°C to 125°C	LT1175CS8-5#PBF	SMD 127-3580	5.480	3.100	2.310	– –
LT	8/SOIC	0.5		-20 to 20	0.3	-40°C to 125°C	LT1763CS8-5#PBF	SMD 127-3618	3.900	2.200	1.590	– –
TI	4/SOT-223	0.5		7 to 25	2	0°C to 125°C	UA78M05CDCYG3	SMD 123-6598	0.260	0.186	0.182	0.177
FCH	3/TO-220	0.5	5	7 to 35	2	0°C to 125°C	KA78M05TU	101-3836	0.460	0.280	0.200	– –
ST	8/SOIC	0.5	2	5.4 to 20	0.4	-40°C to 85°C	KF50BD	SMD 975-5373	1.160	0.870	0.640	0.530
ST	3/TO-220	0.5	2	7 to 35	2	-40°C to 125°C	L78M05ABV	108-7115	0.730	0.550	0.420	0.350
ST	3/TO-252 (D-Pak)	0.5	2	7 to 35	2	0°C to 125°C	L78M05ACDT	SMD 109-5388	0.800	0.530	0.440	0.410
ST	3/TO-252 (D-Pak)	0.5		7 to 35	2	0°C to 150°C	L78M05CDT	SMD 108-7116	0.630	0.440	0.340	0.300
ST	3/IPAK	0.5		7 to 35	2	0°C to 150°C	L78M05CDT-1	SMD 107-7155	0.510	0.350	0.300	0.270
ST	3/TO-220	0.5		7 to 35	2	0°C to 150°C	L78M05CP	108-7117	0.510	0.420	0.350	0.300
ST	3/TO-220	0.5		7 to 35	2	0°C to 150°C	L78M05CV	975-6043	0.590	0.300	0.270	0.152
ST	3/TO-252 (D-Pak)	0.5	2	6 to 40	1	-40°C to 125°C	LF50ABDT	SMD 108-7188	1.200	0.870	0.640	0.530
ST	3/TO-220FP	0.5	1	5.4 to 40	0.4	-40°C to 125°C	LF50ABP	108-7189	1.030	0.780	0.560	0.480
ST	3/TO-220FP	0.5	2	5.4 to 40	0.4	-40°C to 125°C	LF50CP	109-5398	1.020	0.920	0.780	0.630
ST	3/TO-220	0.5	2	5.4 to 40	0.4	-40°C to 85°C	LF50CV	109-4240	1.350	1.010	0.800	0.660
NSC	3/TO-220	0.5	5	5.5 to 26	0.5	-40°C to 125°C	LM2937ET-5.0	948-6038	1.500	1.230	1.120	1.100
NSC	16/SOIC	0.5		5.47 to 29	0.47	-40°C to 125°C	LP2960AIM-5.0	SMD 949-4863	3.810	2.740	2.370	– –

RL Re-reeling available

Mftr.	Pins/Pkg	Output Current (A)	Output Tolerance (%)	Input Voltage Range (V)	Dropout Voltage (V)	Operating Temp. Range	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+
5 V												
NSC	3/TO-252 (D-Pak)	0.5	2	5.43 to 10	0.43	-40°C to 125°C	LP38691DT-5.0	SMD 100-8052●	1.230	0.830	0.680	– –
NSC	5/SOT-223	0.5	2	5.43 to 10	0.43	-40°C to 125°C	LP38693MP-5.0	SMD 100-8062●	1.200	0.680	0.460	– –
NSC	3/TO-252 (D-Pak)	0.5	1.5	5.21 to 10	0.21	0°C to 125°C	LP8345CDT-5.0	SMD 949-3387●	1.200	0.820	0.660	– –
NSC	3/TO-252 (D-Pak)	0.5	1.5	5.21 to 10	0.21	-40°C to 125°C	LP8345IDT-5.0	SMD 100-8085●	1.050	0.770	0.570	– –
ON	3/TO-220	0.5	4	7 to 35	2	-40°C to 85°C	MC78M05BTG	121-4462●	0.570	0.380	0.280	– –
ON	3/TO-252 (D-Pak)	0.5	4	7 to 35	2	0°C to 85°C	MC78M05CDTG	SMD 966-4513●	0.490	0.330	0.230	– –
ON	3/TO-220	0.5	4	7 to 35	2	0°C to 125°C	MC78M05CTG	966-5374●	0.490	0.330	0.240	0.192
TI	6/SOT-23	0.5	2	5.115 to 15	0.115	-40°C to 85°C	REG103GA-5G4	SMD 120-7245●	3.280	2.700	2.370	– –
TI	8/SOIC	0.5	2	5.115 to 15	0.115	-40°C to 85°C	REG103UA-5G4	SMD 120-7257●	3.140	2.610	2.290	– –
TI	8/SOIC	0.5	2	5.146 to 10	0.146	-40°C to 125°C	TPS7150QD	SMD 845-8162●	2.040	1.650	1.270	– –
TI	8/SOIC	0.5	2	5.33 to 10	0.146	-40°C to 125°C	TPS7350QD	SMD 846-1147●	2.040	1.500	1.080	– –
TS	3/TO-263	0.5	1	5.6 to 26	0.6	-20°C to 85°C	TS2937CM-5.0 C0	SMD 726-1349●	1.020	0.720	0.630	– –
TS	3/TO-252 (D-Pak)	0.5	1	5.6 to 26	0.6	-20°C to 85°C	TS2937CP-5.0 RO	SMD 726-1357●	0.340	0.230	0.210	– –
TS	3/SOT-223	0.5	1	5.6 to 26	0.6	-20°C to 85°C	TS2937CW-5.0 RP	SMD 726-1365●	0.850	0.600	0.520	– –
TS	3/TO-220	0.5	1	5.6 to 26	0.6	-20°C to 85°C	TS2937CZ-5.0 C0	726-1330●	1.020	0.720	0.630	– –
TS	3/TO-252 (D-Pak)	0.5	4	7 to 35	2	-20°C to 85°C	TS78M05CP	SMD 720-7581●	0.500	0.390	0.310	– –
TI	4/SOT-223	0.5		7 to 25	2	-40°C to 125°C	UA78M05IDCY	SMD 149-4947●	0.390	0.290	0.210	0.191
ST	3/TO-252 (D-Pak)	0.5	2	7 to 25	2	-40°C to 125°C	L78M05ABDT-TR	SMD 136-6575●	0.880	0.580	0.480	0.450
LT	5/D2PAK	0.7		to 20	0.4	0°C to 125°C	LT1129CQ-5#PBF	NEW SMD 166-3373●	4.620	3.460	2.770	2.300
LT	3/SOT-223	0.7		to 20	0.4	0°C to 125°C	LT1129CST-5#PBF	NEW SMD 166-3375●	4.260	3.190	2.550	2.130
LT	5/D2PAK	0.7		to 20	0.4	-40°C to 125°C	LT1129IQ-5#PBF	NEW SMD 166-3377●	5.450	4.090	3.270	2.720
LT	8/SOIC	0.7		to 20	0.4	-40°C to 125°C	LT1129IS8-5#PBF	NEW SMD 166-3381●	5.310	3.980	3.190	2.660
LT	3/SOT-223	0.7		to 20	0.4	-40°C to 125°C	LT1129IST-5#PBF	NEW SMD 166-3383●	4.730	3.540	2.840	2.360
SIP	10/DFN	0.7		2.7 to 4.5		-40°C to 85°C	SP7648EU-L	SMD 131-7831●	1.990	1.530	1.280	1.200
LT	8/SOIC	0.7		-0.6 to 6.5	0.4	0°C to 125°C	LT1129CS8-5#PBF	SMD 127-3576●	4.500	2.550	1.960	– –
LT	5/TO-220	0.7		5.4 to 30	0.4	0°C to 125°C	LT1129CT5#PBF	956-0106●	4.020	2.270	1.730	– –
MAX	16/SOIC	0.75		to 16		-40°C to 85°C	MAX738AEWE+	NEW SMD 167-3216●	7.960	5.690	4.420	3.980
NSC	3/TO-252	800		to 12	1.2	to	LM1117IDT-5.0/NOPB	NEW SMD 168-5604●	0.950	0.780	0.640	0.580
NSC	5/SOT-223	800		to 7	240	to	LP3961EMP-5.0/NOPB	NEW SMD 168-5735●	1.820	1.490	1.220	1.120
LT	3/SOT-223	0.8		to 12	1	0°C to 125°C	LT1117CST-5#PBF	NEW SMD 166-3357●	3.670	2.750	2.200	1.840
LT	3/SOT-223	0.8		to 12	1	-40°C to 125°C	LT1117IST-5#PBF	NEW SMD 166-3358●	4.260	3.190	2.550	2.130
LT	3/SOT-223	0.8		to 15	1	0°C to 70°C	LT1118CST-5#PBF	NEW SMD 166-3360●	4.730	3.540	2.840	2.360
ST	3/TO-252 (D-Pak)	0.8	2	6.1 to 15	1.1	-40°C to 125°C	LD1117DT50C	SMD 108-7171●	0.820	0.530	0.460	0.420
ST	3/TO-220	0.8	1	6.1 to 15	1.1	0°C to 125°C	LD1117V50	108-7175●	0.920	0.590	0.500	0.480
NSC	3/SOT-223	0.8	0.4	6.2 to 20	1.2	0°C to 125°C	LM1117MP-5.0	SMD 977-8209●	0.700	0.430	0.330	– –
NSC	3/TO-220	0.8	0.4	4.5 to 20	1.2	0°C to 125°C	LM1117T-5.0	121-5183●	0.830	0.600	0.510	– –
NSC	5/TO-220	0.8	1.5	5.24 to 7	0.24	-40°C to 125°C	LP3871ET-5.0	818-8327●	2.610	1.930	1.580	– –
NSC	5/SOT-223	0.8	1.5	5.24 to 7	0.24	-40°C to 125°C	LP3874EMP-5.0	SMD 818-8556●	1.610	1.150	0.890	– –
NSC	5/TO-220	0.8	1.5	5.24 to 7	0.24	-40°C to 125°C	LP3874ET-5.0	818-8637●	2.610	1.930	1.580	– –
TI	3/SOT-223	0.8	1	6.2 to 15	1.2	0°C to 125°C	REG1117-5	SMD 121-2858●	2.630	1.650	1.460	0.770
NSC	3/TO-263	1		to 26	500	to	LM2940CSX-5.0/NOPB	NEW SMD 168-5538●	1.520	1.180	0.960	0.880
NSC	6/LLP	1		to 10	450	to	LP38690SD-5.0/NOPB	NEW SMD 168-5712●	1.020	0.830	0.690	0.630
NSC	16/MDIP	1		to 60		to	LM2575HVN-5.0/NOPB	NEW 168-5609●	3.770	3.100	2.540	2.320
NSC	8/PSOP	1		to 42		to	LM22675MRE-5.0/NOPB	NEW SMD 168-5805●	3.180	2.620	2.140	1.960
MAX	8/SOIC	1.5		to 16.5		-40°C to 85°C	MAX641AESA+	NEW SMD 167-3207●	9.410	6.720	5.220	4.710
NSC	24/WSOIC	1		8 to 60		-40°C to 125°C	LM2575HVM-5.0/NOPB	NEW SMD 156-4630●	4.020	3.280	2.700	2.240
FCH	3/TO-220	1	–	to 35	2	0°C to 125°C	KA7805AETU	NEW 156-4483●	0.210	0.153	0.121	0.098
ADI	3/SOT-223	1	–	to 8	0.19	-40°C to 85°C	ADP3338AKCZ-5-R7.	NEW SMD 165-1284●	1.860	1.450	1.180	1.090
TI	20/HTSSOP	1	2	5.23 to 10	0.23	-40°C to 125°C	TPS76750QPWP	SMD 113-5436●	1.740	1.500	1.120	1.060
ST	3/TO-263 (D2-Pak)	1	2	7 to 20	2	-40°C to 125°C	L7805ABD2T-TR	SMD 136-6571●	0.800	0.530	0.440	0.410
TI	20/HTSSOP	1	2	5.23 to 10	0.23	-40°C to 125°C	TPS76750QPWPRQ1	SMD 123-6582	2.220	1.570	1.180	1.110
ST	3/TO-252 (D-Pak)	1	4	5.45 to 16	0.45	-40°C to 150°C	L4941BDT	SMD 108-7085●	1.840	1.240	1.010	0.910
ST	3/TO-220	1	4	5.45 to 16	0.45	-40°C to 150°C	L4941BV	975-6051●	1.660	1.230	0.930	0.750
ST	3/TO-220	1	2	7 to 35	2	0°C to 150°C	L7805ACV	108-7086●	0.650	0.430	0.350	0.330
NSC	3/TO-263 (D2-Pak)	1		5.5 to 26	0.5	0°C to 125°C	LM2940CS-5.0	SMD 977-9850●	1.570	0.980	0.780	– –
NSC	3/SOT-223	1		5.5 to 26	0.5	-40°C to 85°C	LM2940IMP-5.0	SMD 977-8845● RL	1.660	1.230	1.000	– –
NSC	3/TO-220	1		5.5 to 26	0.5	-40°C to 125°C	LM2940T-5.0	949-0205●	1.260	0.750	0.590	0.490
NSC	3/TO-39	1		7.1 to 35	2.1	0°C to 125°C	LM309H	121-6178●	8.900	5.230	4.290	4.010
FCH	3/TO-220	1	4	35	2	-40°C to 125°C	LM7805CT	110-2157●	0.410	0.270	0.196	0.137
NSC	2/TO-3	1		7.1 to 35	2.1	0°C to 125°C	LM309K-STEEL	119-7404●	20.070	17.850	17.360	16.930
NSC	3/TO-220	1	2	7.5 to 35	2.5	0°C to 125°C	LM340AT-5.0	949-0183●	1.190	0.710	0.560	0.480
NSC	3/SOT-223	1	2	7.5 to 35	2.5	0°C to 125°C	LM340MP-5.0	SMD 977-8527● RL	0.880	0.670	0.530	– –
NSC	3/TO-263 (D2-Pak)	1	2	7.5 to 35	2.5	0°C to 125°C	LM340S-5.0	SMD 949-4502●	1.150	0.680	0.540	– –
NSC	3/TO-220	1	2	7.5 to 35	2.5	0°C to 125°C	LM340T-5.0	949-0175●	1.220	0.990	0.910	0.890
NSC	3/TO-252 (D-Pak)	1	2.5	5.45 to 10	0.45	-40°C to 125°C	LP38690DT-5.0	SMD 100-8049●	1.270	0.850	0.700	– –
NSC	5/SOT-223	1	2.5	5.45 to 10	0.45	-40°C to 125°C	LP38692MP-5.0	SMD 100-8057●	1.340	0.910	0.750	– –
NSC	3/TO-252 (D-Pak)	1	1.5	5.42 to 10	0.42	0°C to 125°C	LP8340CDT-5.0	SMD 949-3344●	1.030	0.840	0.720	– –
ON	3/TO-220	1	2	7 to 35	2	-40°C to 85°C	MC7805ACTG	966-4505●	0.570	0.380	0.270	– –
ON	3/TO-220	1	4	7 to 35	2	-40°C to 125°C	MC7805BTG	121-1135●	0.540	0.360	0.260	0.210
ON	3/TO-263 (D2-Pak)	1	4	7 to 35	2	0°C to 125°C	MC7805CD2TG	SMD 966-5013●	0.740	0.500	0.360	0.310
ON	3/TO-220	1	4	7 to 35	2	0°C to 125°C	MC7805CTG.	966-6095●	0.500	0.340	0.250	0.188
TI	6/SOT-233	1	2	5.23 to 15	0.23	-40°C to 85°C	REG104GA-5G4	SMD 120-7261●	3.130	2.600	2.270	– –
TI	8/SOIC	1	2	5.23 to 10	0.23	-40°C to 125°C	TPS76750QD	SMD 846-1465●	1.660	1.500	1.120	– –
TSC	3/TO-220	1	4	7 to 35	2	-20°C to 85°C	TS7805CZ	717-3989●	0.450	0.290	0.220	– –
ST	3/TO-263 (D2-Pak)	1	2	7 to 20	2	-40°C to 125°C	L7805ABD2T-TR	SMD 136-6571●	0.800	0.530	0.440	0.410
MICR	3/TO-220	1.25		to	0.35	-40°C to 125°C	MIC2940A-5.0WT	NEW 155-6712●	2.140	1.570	1.280	– –
MICR	8/SOIC	1.3		4 to 34		-40°C to 125°C	MIC4680-5.0YM	NEW SMD 155-6735●	2.610	2.320	1.900	– –
NSC	3/TO-263	1.5		to 25	1.3	to	LM1086CS-5.0/NOPB	NEW SMD 168-5485●	1.740	1.350	1.110	1.020
NSC	3/TO-220	1.5		to 25	1.3	to	LM1086CT-5.0/NOPB	NEW 168-5486●	1.740	1.360	1.110	1.020
NSC	3/TO-220	1.5		to 20	1.3	to	LM1086IT-5.0/NOPB	NEW 168-5602●	1.650	1.350	1.110	1.020
NSC	5/SOT223	1.5		2.5 to 7	0.38	-40°C to 125°C	LP3962EMP-5.0/NOPB	NEW SMD 156-4763●	1.930	1.540	1.250	1.110
ADI	8/PDIP	1.5	5	to 30		0°C to 70°C	ADP1111ANZ-5	143-9039●	3.020	2.450	2.000	– –
ST	3/DPAK	1.5		to 30	0.4	-40°C to 125°C	LD29150DT50R	NEW SMD 156-4309●	1.450	1.160	1.020	0.850
ST	3/TO-3	1.5		to 35	2	0°C to 150°C	L7805CT	NEW 156-4319●	3.050	2.440	2.160	1.780
ST	3/TO-263 (D2-Pak)	1.5	4	7 to 25	2	0°C to 150°C	L7805CD2T-TR	SMD 136-6576●	0.800	0.530	0.440	0.410
ADI	8/SOIC	1.5	5	to 30		0°C to 70°C	ADP1111ARZ-5	SMD 143-9044●	2.870	2.350	1.920	– –
ST	3/TO-220	1.5	2	5.5 to 17	0.5	-40°C to 150°C	L4940V5	975-6060●	1.780	1.270	0.990	0.910
ST	3/TO-220FP	1.5	4	7 to 35	2	0°C to 150°C	L7805CP	975-6434●	0.720	0.480	0.390	0.370
ST	3/TO-220	1.5	4	7 to 35	2	0°C to 150°C	L7805CV	975-6078●	0.590	0.370	0.290	0.210
ST	3/TO-252 (D-Pak)	1.5	1	6.3 to 30	1.3	-40°C to 125°C	LD1086DT50	SMD 108-7157●	1.610	1.080	0.880	0.790
NSC	3/TO-263 (D2-Pak)	1.5	0.1	6.3 to 30	1.3	-40°C to 125°C	LM1086IS-5.0	SMD 949-0655●	1.210	1.040	0.830	– –
NSC	2/TO-3	1.5	2	7.5 to 35	2.5	0°C to 125°C	LM340K-5.0	121-6179●	16.440	10.450	8.570	8.010
NSC	5/TO-220	1.5	1.5	2.5 to 7	0.24	-40°C to 125°C	LP3852ET-5.0	818-7940●	3.880	3.170	2.600	– –
NSC	5/SOT-223	1.5	1.5	2.5 to 7	0.24	-40°C to 125°C	LP3855EMP-5.0	SMD 818-8050●	3.470	2.500	1.930	– –
LT	3/TO-220	1.5	1	6.3 to 20	1.3	0°C to 125°C	LT1086CT-5#PBF	955-9906●	3.780	2.140	1.660	– –
TI	3/TO-220	1.5	2	7 to 25	2	0°C to 125°C	TL780-05CKC	959-3780●	0.470	0.380	0.310	– –
TI	3/TO-220	1.5		7 to 25	2	0°C to 125°C	UA7805CKC	958-9465●	0.310	0.250	0.197	– –
ST	3/TO-263 (D2-Pak)	1.5	4	7 to 25	2	0°C to 150°C	L7805CD2T-TR	SMD 136-6576●	0.800	0.530	0.440	0.410
ST	3/TO-220	2		8 to 35	3	0°C to 150°C	L78S05CV	975-6086●	0.720	0.480	0.390	0.350
MAX	28/TSSOP	2.5		to 28	0.5	-40°C to 125°C	MAX15034AAUI+	NEW SMD 167-3102●	5.290	3.780	2.940	2.650
NSC	5/TO-263	3		to 7	390	to	LP3853ES-5.0/NOPB	NEW SMD 168-5704●	5.670	4.660	3.820	3.500
NSC	14/LLP	3		to 40		to	LM2673SD-5.0/NOPB	NEW SMD 168-5623●	3.960	3.260	2.660	2.450
NSC	8/PSOP	3		to 42		to	LM22670MRE-5.0/NOPB	NEW SMD 168-5792●	3.980	3.270	2.670	2.460
NSC	7/TO-263	3		to 42		to	LM22670TJE-5.0/NOPB	NEW SMD 168-5794●	3.980	3.270	2.670	2.460

RL Re-reeling available

Fixed Voltage Regulators - continued

Mftr.	Pins/Pkg	Output Current (A)	Output Tolerance (%)	Input Voltage Range (V)	Dropout Voltage (V)	Operating Temp. Range	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+
5 V												
NSC	8/MSOP	3		to 42		to	LM22673MRE-5.0/NOPB	NEW SMD 168-5799●	3.980	3.270	2.670	2.460
NSC	7/TO-263	3		to 42		to	LM22673TJE-5.0/NOPB	NEW SMD 168-5801●	3.980	3.270	2.670	2.460
NSC	8/PSOP	3		to 42		to	LM22676MRE-5.0/NOPB	NEW SMD 168-5808●	3.980	3.270	2.670	2.460
NSC	7/TO-263	3		to 42		to	LM22676TJE-5.0/NOPB	NEW SMD 168-5810●	3.790	3.120	2.550	2.340
NSC	5/TO-263	3		8 to 60		-40°C to 125°C	LM2576HVS-5.0/NOPB	NEW SMD 156-4632●	4.810	3.920	3.210	2.670
NSC	5/TO-220	3		4 to 40		-40°C to 125°C	LM2585T-5.0/NOPB	NEW 156-4633●	6.180	5.030	4.140	3.450
NSC	5/TO-220	3		7 to 40		-40°C to 125°C	LM2576T-5.0/NOPB	NEW 156-4682●	2.630	2.150	1.760	1.460
NSC	7/TO-263	3		8 to 40		-40°C to 125°C	LM2676S-5.0/NOPB	NEW SMD 156-4684●	3.670	2.990	2.470	2.050
NSC	7/TO-263	3		8 to 40		-40°C to 125°C	LM2670S-5.0/NOPB	NEW SMD 156-4795●	3.860	3.150	2.580	2.160
LT	5/D2PAK	3		to 15		0°C to 125°C	LT1529CQ-5#PBF	NEW SMD 161-5858●	5.820	4.650	3.890	3.590
ST	3/TO-220	3		to 30	1.3	-40°C to 125°C	LD1085V50	NEW 156-4295●	1.110	0.880	0.790	0.640
MICR	3/TO-220	3		to	0.37	-40°C to 125°C	MIC29300-5.0WT	NEW 155-6711●	4.160	3.050	2.500	– –
LT	5/TO-220	3		-15 to 15	0.6	0°C to 125°C	LT1529CT-5#PBF	127-3585●	6.390	3.520	2.600	– –
LT	3/TO-220	3	1	to		0°C to 125°C	LT323AT#PBF	127-3643●	3.690	2.420	2.030	– –
FCH	3/TO-220	3	4	7.2 to 35	2.2	0°C to 150°C	KA78T05	101-4074●	2.000	1.820	1.620	1.040
FCH	3/TO-220	3	4	7.2 to 35	2.2	0°C to 150°C	KA78T05TU	101-3837●	1.140	0.780	0.520	– –
FCH	3/TO-220	3	4	7.2 to 35	2.2	0°C to 150°C	KA78T05TU.	347-7083▲	0.610	0.410	0.280	– –
NSC	2/TO-3	3		7.5 to 20	2.5	0°C to 125°C	LM323KSTEEL	119-7405●	34.020	23.050	18.830	17.770
NSC	5/TO-263 (D2-Pak)	3	1.5	2.5 to 7	0.39	-40°C to 125°C	LP3856ES-5.0	SMD 818-8173●	3.070	2.600	2.080	– –
NSC	5/TO-220	3	1.5	2.5 to 7	0.39	-40°C to 125°C	LP3856ET-5.0	818-8211●	4.230	3.380	3.030	– –
NSC	5/TO-263 (D2-Pak)	3	1.5	5.8 to 7	0.8	-40°C to 125°C	LP3873ES-5.0	SMD 818-8475●	2.730	2.220	1.860	– –
NSC	5/TO-220	3	1.5	5.8 to 7	0.8	-40°C to 125°C	LP3873ET-5.0	818-8513●	2.670	2.160	1.910	– –
NSC	5/TO-220	3	1.5	5.8 to 7	0.8	-40°C to 125°C	LP3876ET-5.0	820-7046●	2.690	1.960	1.500	– –
LT	3/TO-220	3	1	6.3 to 20	1.3	0°C to 125°C	LT1085CT-5#PBF	955-9841●	6.390	3.610	2.850	– –
NSC	14/LLP	3	2	8 to 40		-40°C to 125°C	LM2676SD-5.0	SMD 149-5084●	3.010	2.410	2.010	1.720
MAX	28/TQFN	4		to 5.5		-40°C to 85°C	MAX15022ATI+	NEW SMD 167-3081●	6.550	4.670	3.640	3.270
LT	8/MSOP	4		2.6 to 16	0.27	-40°C to 85°C	LT1962EMS8-5#PBF	SMD 127-3624●	3.310	1.870	1.390	– –
LT	3/SOT-223	4	1	3 to 20	0.3	0°C to 125°C	LT1123CST#PBF	SMD 127-3572●	2.870	1.880	1.580	– –
NSC	7/TO-263	5		to 42		to	LM22677TJE-5.0/NOPB	NEW SMD 168-5812●	6.510	5.350	4.380	4.010
NSC	7/TO-263	5		to 42		to	LM22678TJE-5.0/NOPB	NEW SMD 168-5814●	6.290	5.180	4.240	3.880
NSC	7/TO-263	5		to 42		to	LM22679TJE-5.0/NOPB	NEW SMD 168-5816●	6.510	5.350	4.380	4.010
SEA	2/TO-3	5	1	7.5 to 35	2.5	0°C to 125°C	IP3R18K05	120-2002	14.320	9.960	6.240	4.410
NSC	3/TO-220	5	0.1	6.3 to 30	1.3	-40°C to 125°C	LM1084IT-5.0	820-7291●	2.360	1.970	1.570	– –
LT	3/TO-3P	5	1	6.3 to 20	1.3	0°C to 125°C	LT1084CP5#PBF	113-6609●	8.630	4.880	3.850	– –
LT	3/TO-220	5	1	6.3 to 20	1.3	0°C to 125°C	LT1084CT5	412-922▲	6.710	4.930	3.760	– –
LT	3/TO-220	5	1	6.3 to 20	1.3	0°C to 125°C	LT1084CT-5#PBF	955-9787●	7.560	4.270	3.430	– –
LT	3/TO-3P	7.5		6 to 20	1	0°C to 125°C	LT1083CP-5#PBF	127-3558●	13.880	7.850	5.930	– –

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Mftr.	Pins/Pkg	Output Current (A)	Output Tolerance (%)	Input Voltage Range (V)	Dropout Voltage (V)	Operating Temp. Range	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+
5.5 V												
TI	5/SOT-23	0.2	2	1.8 to 3.3	0.12	-40°C to 150°C	TPS73047DBVTG4	SMD 132-9611●	0.340	0.260	0.210	– –
MAX	8/SOIC	0.2		to 5		0°C to 70°C	MAX757CSA+	NEW SMD 167-3219●	4.580	3.270	2.550	2.290
MAX	20/SSOP	1		to 5.5		0°C to 70°C	MAX767CAP+	NEW SMD 167-3225●	7.560	5.400	4.200	3.780
TI	20/TSSOP	1.5	2	3.46 to 5	0.16	-40°C to 125°C	TPS75333QPWP	SMD 110-2968●	3.420	2.320	1.730	– –
6 V												
ST	8/SO	0.1	5	7.7 to 30	1.7	-40°C to 125°C	L78L06ABD	SMD 108-7102●	0.280	0.180	0.155	0.130
ST	8/SO	0.1	5	7.7 to 30	1.7	0°C to 125°C	L78L06ACD	SMD 108-7103●	0.250	0.175	0.132	0.110
TI	3/TO-92	0.1	5	8.5 to 20	1.7	0°C to 125°C	UA78L06ACLPE3	123-6592●	0.110	0.080	0.061	0.054
TS	3/TO-92	0.1	4	8 to 35	2	-20°C to 85°C	TS78L06CT	720-3721●	0.250	0.188	0.125	– –
ST	3/TO-252 (D-Pak)	0.5	2	6.4 to 40	0.4	-40°C to 125°C	LF60CDT	SMD 108-7190●	0.990	0.640	0.550	0.510
ST	3/TO-220	0.5	2	6.4 to 40	0.4	-40°C to 125°C	LF60CV	108-7191●	1.010	0.660	0.550	0.520
ST	3/TO-220	0.5	2	8 to 35	2	-40°C to 125°C	L78M06ABV	108-7119●	0.420	0.290	0.250	0.220
ST	3/TO-220	0.5		8 to 35	2	0°C to 150°C	L78M06CV	108-7120●	0.340	0.179	0.164	0.145
TS	3/TO-252 (D-Pak)	0.5	4	8 to 35	2	-20°C to 85°C	TS78M06CP	SMD 720-7590●	0.240	0.185	0.150	– –
FCH	3/TO-220	1	4	8 to 35	2	0°C to 125°C	KA7806TU.	345-8179▲	0.210	0.160	0.126	– –
ST	3/TO-220	1	2	8 to 35	2	-40°C to 125°C	L7806ABV	108-7087●	0.630	0.500	0.360	0.310
TSC	3/TO-220	1	4	8 to 35	2	-20°C to 85°C	TS7806CZ	717-3997●	0.220	0.145	0.112	– –
ST	3/TO-220	1.5	4	8 to 35	2	0°C to 150°C	L7806CV	975-6094●	0.500	0.430	0.370	0.230
6.2 V												
NSC	3/TO-92	0.1	5	7.9 to 35	1.7	0°C to 125°C	LM78L62ACZ	949-0213●	0.850	0.580	0.470	0.440
7.5 V												
ST	3/TO-220	2		10.5 to 35	3	0°C to 150°C	L78S75CV	108-7140●	0.460	0.360	0.310	0.290
8 V												
ST	8/SO	0.1	5	9.7 to 30	1.7	-40°C to 125°C	L78L08ABD	SMD 108-7104●	0.310	0.230	0.167	0.140
ST	3/T092	0.1		to 30	1.7	-40°C to 125°C	L78L08ACZ	NEW 156-4313●	0.157	0.117	0.103	0.092
ST	8/SO	0.1	5	9.7 to 30	1.7	0°C to 125°C	L78L08ACD	SMD 108-7105●	0.210	0.172	0.124	0.097
ST	8/SO	0.1	2	8.2 to 20	0.2	-40°C to 125°C	LE80CD	SMD 108-7178●	0.630	0.430	0.350	0.340
ON	8/SOIC	0.1	5	9.7 to 30	1.7	0°C to 125°C	MC78L08ACDG	SMD 121-1120●	0.350	0.260	0.220	– –
TS	8/SOIC	0.1	4	10 to 35	2	-20°C to 85°C	TS78L08CS	SMD 720-7964●	0.146	0.106	0.084	– –
TS	3/TO-92	0.1	4	10 to 35	2	-20°C to 85°C	TS78L08CT	720-3730●	0.340	0.260	0.170	– –
TI	8/SOIC	0.1	5	10.5 to 23	2.5	0°C to 125°C	UA78L08ACD	SMD 959-3888●	0.310	0.250	0.183	– –
NSC	3/TO-220	0.15		8.32 to 26	0.32	-40°C to 85°C	LM2930T-8.0	949-0221●	1.010	0.830	0.760	0.740
TI	3/TO-92	0.15		8.6 to 26	0.6	0°C to 125°C	TL750L08CLPE3	123-6542●	0.240	0.155	0.126	0.114
NSC	3/SOT-223	500		to 26	500	to	LM2937IMP-8.0/NOPB	NEW SMD 168-5532●	1.310	1.020	0.830	0.770
NSC	3/TO-263	500		to 26	500	to	LM2937ES-8.0/NOPB	NEW SMD 168-5638●	1.580	1.290	1.060	0.970
ST	8/SO	0.5	2	8.4 to 20	0.4	-40°C to 125°C	KF80BD	SMD 108-7077●	1.540	1.030	0.840	0.760
ST	3/TO-220	0.5		10 to 35	2	0°C to 150°C	L78M08CV	108-7122●	0.340	0.270	0.190	0.162
ST	3/TO-252 (D-Pak)	0.5	2	9 to 40	1	-40°C to 125°C	LF80ABDT	SMD 108-7192●	1.260	1.010	0.850	0.710
ST	5/PPAK	0.5	2	8.4 to 40	0.4	-40°C to 125°C	LF80CPT	SMD 107-7172●	1.090	0.740	0.600	0.560
ON	3/TO-220	0.5	4	10 to 35	2	-40°C to 125°C	MC78M08CTG	966-5366●	0.490	0.340	0.250	0.187
TS	3/TO-252 (D-Pak)	0.5	4	10 to 35	2	-20°C to 85°C	TS78M08CP	SMD 720-7603●	0.500	0.390	0.310	– –
NSC	3/TO-263	1		to 26	0.5	0°C to 125°C	LM2940S-8.0/NOPB	NEW SMD 156-4644●	1.380	1.100	0.890	0.790
NSC	3/SOT-223	1		to 26	500	to	LM2940IMP-8.0/NOPB	NEW SMD 168-5642●	1.460	1.200	0.980	0.900
ST	3/TO-220	1	2	10 to 35	2	-40°C to 125°C	L7808ABV	108-7088●	0.690	0.450	0.370	0.350
ST	3/TO-220	1	2	10 to 35	2	0°C to 150°C	L7808ACV	109-5386●	0.430	0.370	0.300	0.260
NSC	8/LLP	1		8.5 to 26	0.5	-55°C to 125°C	LM2940LD-8.0	SMD 100-8008●	1.200	0.880	0.680	– –
NSC	3/TO-220	1		8.5 to 26	0.5	-40°C to 125°C	LM2940T-8.0	949-0230●	1.540	1.040	0.850	0.800
NSC	3/TO-220	1		10 to 35	2	0°C to 125°C	LM7808CT	949-0248●	1.130	0.790	0.660	0.610
ON	3/TO-220	1	4	9 to 35	2	-40°C to 125°C	MC7808CTG	966-6222●	0.500	0.340	0.250	– –
TSC	3/TO-220	1	4	10 to 35	2	-20°C to 85°C	TS7808CZ	717-4004●	0.220	0.145	0.112	– –
ST	3/TO-220	1.5	4	10 to 35	2	0°C to 150°C	L7808CV	975-6108●	0.690	0.440	0.340	0.300
8.2 V												
NSC	3/TO-92	0.1	5	9.9 to 35	1.7	0°C to 125°C	LM78L82ACZ	949-0256●	0.960	0.730	0.600	0.540
8.5 V												
ST	3/TO-252 (D-Pak)	0.5	2	8.9 to 40	0.4	-40°C to 125°C	LF85CDT	SMD 108-7194●	1.310	1.130	0.850	0.700
ST	3/TO-220	1.5	2	9 to 17	0.5	-40°C to 150°C	L4940V85	109-4216●	1.600	1.160	0.870	0.730
ST	3/TO-220	1.5	4	10.5 to 35	2	0°C to 150°C	L7885CV	108-7097●	0.360	0.240	0.210	0.189

RL Re-reeling available

Mftr.	Pins/Pkg	Output Current (A)	Output Tolerance (%)	Input Voltage Range (V)	Dropout Voltage (V)	Operating Temp. Range	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+
9 V												
TI	8/SOIC	0.1		to 24	1.7	0°C to 125°C	UA78L09ACD..	NEW SMD 164-8660●	0.151	0.117	0.104	0.090
NSC	3/TO-92	0.1		to 35		0°C to 125°C	LM78L09ACZ/NOPB	NEW 156-4666●	0.310	0.240	0.195	0.174
ST	3/TO92	0.1		to 30	1.7	-40°C to 125°C	L78L09ACZ	NEW 156-4314●	0.157	0.130	0.117	0.092
ST	8/SO	0.1	5	10.7 to 30	1.7	-40°C to 125°C	L78L09ABD	SMD 108-7107●	0.280	0.180	0.162	0.145
NSC	8/Bump Micro SMD	0.1	5	10.7 to 35	1.7	-40°C to 85°C	LM78L09ITP	SMD 823-8731●	0.270	0.210	0.173	– –
TI	3/SOT-89	0.1	5	11.5 to 24	1.7	0°C to 125°C	UA78L09ACPKG3	SMD 123-6594●	0.154	0.101	0.082	0.072
TS	8/SOIC	0.1	4	11 to 35	2	-20°C to 85°C	TS78L09CS	SMD 720-7972●	0.280	0.195	0.158	– –
TS	3/TO-92	0.1	4	11 to 35	2	-20°C to 85°C	TS78L09CT	720-4078●	0.340	0.260	0.170	– –
TI	2/TO-252 (D-Pak)	0.5		11.5 to 26	2	0°C to 125°C	UA78M09CKTPR	SMD 123-6599	0.400	0.280	0.210	0.157
ST	3/TO-220	0.5	2	11 to 35	2	-40°C to 125°C	L78M09ABV	107-7157●	0.680	0.470	0.410	0.370
ST	3/TO-220	0.5		11 to 35	2	0°C to 150°C	L78M09CV	108-7124●	0.360	0.240	0.220	0.200
ST	3/TO-252 (D-Pak)	0.5	2	9.4 to 40	0.4	-40°C to 125°C	LF90CDT	SMD 108-7195●	0.990	0.640	0.550	0.510
TS	3/TO-252 (D-Pak)	0.5	4	11 to 35	2	-20°C to 85°C	TS78M09CP	SMD 720-7611●	0.180	0.140	0.113	– –
NSC	3/TO-220	1		to 26	500	to	LM2940CT-9.0/NOPB	NEW 168-5641●	1.230	1.020	0.830	0.770
NSC	3/SOT-223	1		to 26	500	to	LM2940IMP-9.0/NOPB	NEW SMD 168-5643●	1.460	1.200	0.980	0.900
NSC	3/TO-263	1		to 26	500	to	LM2940S-9.0/NOPB	NEW SMD 168-5644●	1.550	1.280	1.040	0.960
NSC	3/TO-263 (D2-Pak)	1		9.5 to 26	0.5	0°C to 125°C	LM2940CS-9.0	SMD 949-4430●	1.780	1.210	0.990	– –
NSC	3/TO-220	1		9.5 to 26	0.5	-40°C to 125°C	LM2940T-9.0	949-3514●	1.190	0.940	0.760	0.680
ON	3/TO-220	1	4	11 to 35	2	-40°C to 125°C	MC7809CTG	966-6230●	0.530	0.360	0.260	0.210
TS	3/TO-220	1	4	11 to 35	2	-20°C to 85°C	TS7809CZ	717-4012●	0.220	0.145	0.112	– –
ST	3/TO-220	1.5	4	11 to 35	2	0°C to 150°C	L7809CV	108-7089●	0.650	0.410	0.310	0.270
ST	3/TO-220	2		12 to 35	3	0°C to 150°C	L78S09CV	108-7138●	0.580	0.460	0.410	0.340
10 V												
TI	3/TO-92	0.1	5	12.5 to 25	2.5	0°C to 125°C	UA78L10ACLP	959-3896● RL	0.178	0.143	0.136	– –
TI	8/SOIC	0.15		to 26	0.6	0°C to 125°C	TL750L10CD..	NEW SMD 164-8662●	0.250	0.199	0.163	0.151
NSC	3/TO-220	0.5		to 26	0.5	-40°C to 125°C	LM2937ET-10/NOPB	NEW 156-4642●	1.250	0.980	0.800	0.710
ST	3/TO-220	0.5		12 to 35	2	0°C to 150°C	L78M10CP	108-7126●	0.520	0.430	0.360	0.310
ST	3/TO-220	0.5		12 to 35	2	0°C to 150°C	L78M10CV	108-7127●	0.360	0.240	0.197	0.165
NSC	3/TO-263	500		to 26	500	to	LM2937ES-10/NOPB	NEW SMD 168-5527●	1.670	1.290	1.060	0.970
NSC	3/TO-263	1		to 26	500	to	LM2940S-10/NOPB	NEW SMD 168-5528●	1.520	1.180	0.960	0.880
NSC	4/SOT-223	1		to 26	500	to	LM2940IMP-10/NOPB	NEW SMD 168-5531●	1.540	1.200	0.980	0.900
NSC	3/TO-220	1		10.5 to 26	0.5	-40°C to 125°C	LM2940T-10.0	949-3522●	1.320	1.090	1.000	0.970
TSC	3/TO-220	1	4	12 to 35	2	-20°C to 85°C	TS7810CZ	717-4020●	0.450	0.290	0.220	– –
ST	3/TO-220	2		13 to 35	3	0°C to 150°C	L78S10CV	108-7139●	0.580	0.400	0.330	0.310
12 V												
MAX	8/SOIC	0.05		to 16.5		0°C to 70°C	MAX636ACSA+	NEW SMD 167-3204●	6.040	4.310	3.350	3.020
NSC	5/SOT-23	100		to 30	1.2	to	LM3490IM5-12/NOPB	NEW SMD 168-5649●	0.650	0.540	0.440	0.400
NSC	3/TO-92	0.1		to 19		0°C to 70°C	LM340LAZ-12/NOPB	NEW 156-4655●	0.550	0.420	0.340	0.310
ST	3/SOT89	0.1		to 35	1.7	-40°C to 125°C	L78L12ACUTR	NEW SMD 156-4315●	0.440	0.350	0.310	0.270
ST	8/SO	0.1	5	13.7 to 35	1.7	-40°C to 125°C	L78L12ABD	SMD 108-7108●	0.280	0.180	0.162	0.145
ST	8/SO	0.1	5	13.7 to 35	1.7	0°C to 125°C	L78L12ACD	SMD 108-7109●	0.380	0.310	0.220	0.176
NSC	3/TO-39	0.1	3	to 35		0°C to 125°C	LM140LAH-12	121-6180●	8.370	5.670	4.630	4.370
NSC	8/SOIC	0.1	5	13.7 to 35	1.7	0°C to 125°C	LM78L12ACM	SMD 949-0264●	0.300	0.184	0.165	0.130
NSC	3/TO-92	0.1	5	13.7 to 35	1.7	0°C to 125°C	LM78L12ACZ	949-0272●	0.350	0.230	0.176	0.150
ON	8/SOIC	0.1	5	13.7 to 35	1.7	0°C to 150°C	MC78L12ACDG	SMD 966-6273●	0.240	0.177	0.128	0.070
ON	3/TO-92	0.1	5	13.7 to 35	1.7	0°C to 150°C	MC78L12ACPG	966-6133●	0.350	0.230	0.161	0.121
TOSH	3/TO-92	0.1	4	13.7 to 35	1.7	-30°C to 75°C	TA78L12S	318-6600	0.210	0.141	0.122	– –
TOSH	3/TO-92	0.1	4	13.7 to 35	1.7	-30°C to 75°C	TA78L12S(F)	121-8126●	0.280	0.189	0.166	– –
TS	8/SOIC	0.1	4	14 to 35	2	-20°C to 85°C	TS78L12CS	SMD 720-7999●	0.137	0.099	0.079	– –
TS	3/TO-92	0.1	4	14 to 35	2	-20°C to 85°C	TS78L12CT	720-4086●	0.170	0.130	0.086	– –
TI	3/TO-92	0.1	5	14.5 to 27	1.7	0°C to 125°C	UA78L12ACLPE3	123-6595●	0.149	0.099	0.081	0.070
TI	3/SOT-89	0.1	5	14.5 to 27	1.7	0°C to 125°C	UA78L12ACPKG3	SMD 123-6596●	0.210	0.139	0.113	0.100
TI	8/SOIC	0.1	5	14.5 to 27	2.5	0°C to 125°C	UA78L12ACD	SMD 959-3900●	0.310	0.240	0.174	– –
TI	3/TO-92	0.1	5	14.5 to 27	2.5	0°C to 125°C	UA78L12ACLP	959-3918●	0.181	0.147	0.124	– –
TOSH	3/SOT-89	0.15	5	13.7 to 35	1.7	0°C to 125°C	TA78L12F(F)	SMD 121-8120●	0.450	0.340	0.290	– –
ZET	3/SOT-223	0.2	2.5	7 to 20	1.7	-55°C to 125°C	ZSR500G	SMD 113-2785●	1.510	1.180	0.670	– –
NSC	14/SOIC	500		to 60		to	LM2574HVM-12/NOPB	NEW SMD 168-5606●	3.050	2.510	2.060	1.890
NSC	14/SOIC	500		to 40		to	LM2574M-12/NOPB	NEW SMD 168-5608●	1.680	1.380	1.130	1.030
NSC	8/SOIC	500		to 60		to	LM2597HVM-12/NOPB	NEW SMD 168-5618●	4.000	3.290	2.700	2.470
NSC	8/DIP	0.5		to 60		-40°C to 125°C	LM2574HVN-12/NOPB	NEW 156-4731●	3.980	3.260	2.670	2.220
ST	3/TO-252 (D-Pak)	0.5	2	14 to 35	2	-40°C to 125°C	L78M12ABDT	SMD 108-7128●	0.720	0.480	0.390	0.370
ST	3/TO-220	0.5	2	14 to 35	2	-40°C to 125°C	L78M12ABV	108-7129●	0.480	0.330	0.270	0.260
ST	3/TO-252 (D-Pak)	0.5		14 to 35	2	0°C to 150°C	L78M12CDT	SMD 108-7130●	0.700	0.470	0.380	0.360
ST	3/TO-220	0.5		14 to 35	2	0°C to 150°C	L78M12CP	108-7131●	0.520	0.430	0.360	0.310
ST	3/TO-220	0.5		14 to 35	2	0°C to 150°C	L78M12CV	975-6116●	0.500	0.410	0.310	0.220
ST	3/TO-220	0.5	1	12.4 to 40	0.4	-40°C to 125°C	LF120ABV	108-7179●	1.090	0.740	0.600	0.560
ST	3/TO-252 (D-Pak)	0.5	2	12.4 to 40	0.4	-40°C to 125°C	LF120CDT	SMD 108-7180●	0.990	0.640	0.550	0.510
ST	5/PPAK	0.5	2	12.4 to 40	0.4	-40°C to 125°C	LF120CPT	SMD 107-7162●	1.090	0.740	0.600	0.560
NSC	3/TO-220	0.5	5	12.5 to 26	0.5	-40°C to 125°C	LM2937ET-12	949-3492●	1.500	1.230	1.120	1.100
ON	3/TO-252 (D-Pak)	0.5	4	14 to 35	2	0°C to 150°C	MC78M12CDTG	SMD 121-1123●	0.470	0.340	0.270	– –
ON	3/TO-220	0.5	4	14 to 35	2	-40°C to 125°C	MC78M12CTG	966-5382●	0.500	0.340	0.250	0.196
TS	3/TO-252 (D-Pak)	0.5	4	14 to 35	2	-20°C to 85°C	TS78M12CP	SMD 720-7620●	0.500	0.390	0.310	– –
NSC	8/NSOIC	0.5	1.5	8 to 40		-40°C to 125°C	LM2674M-12	SMD 149-5086●	1.960	1.660	1.400	1.180
NSC	8/NSOIC	0.5	4	4.5 to 60		-40°C to 125°C	LM2594HVM-12	SMD 149-5089●	2.940	2.510	2.090	1.800
NSC	5/TO-263	1		to 60		to	LM2575HVS-12/NOPB	NEW SMD 168-5610●	3.770	3.100	2.540	2.320
NSC	3/TO-220	1		to 19	2	0°C to 125°C	LM340T-12/NOPB	NEW 156-4656●	1.010	0.800	0.640	0.580
NSC	3/TO-263	1		13.6 to 26	0.5	-40°C to 125°C	LM2940S-12/NOPB	NEW SMD 156-4769●	1.280	1.010	0.830	0.720
ST	3/D2PAK	1		to 35	2	0°C to 150°C	L7812ACD2T-TR	NEW SMD 156-4321●	0.620	0.490	0.430	0.350
FCH	3/TO-220	1	4	14 to 35	2	0°C to 125°C	KA7812.	563-742▲	0.340	0.230	0.220	– –
ST	3/TO-220	1	2	14 to 35	2	-40°C to 125°C	L7812ABV	108-7090●	0.720	0.480	0.390	0.370
ST	3/TO-220	1	2	14 to 35	2	0°C to 150°C	L7812ACV	108-7091●	0.690	0.450	0.370	0.300
NSC	3/TO-220	1		12.5 to 26	0.5	0°C to 125°C	LM2940CT-12	949-0299●	1.840	1.020	0.810	0.560
NSC	3/TO-220	1		12.5 to 26	0.5	-40°C to 125°C	LM2940T-12.0	948-5872●	1.280	1.050	0.970	– –
NSC	2/TO-3	1	2	14.8 to 35	2.8	0°C to 125°C	LM340K-12	121-6182●	19.130	18.590	18.100	17.640
NSC	3/TO-263 (D2-Pak)	1	2	14.8 to 35	2.8	0°C to 125°C	LM340S-12	SMD 949-4499●	1.170	0.970	0.880	– –
ON	3/TO-263 (D2-Pak)	1	4	14 to 35	2	-40°C to 125°C	MC7812CD2TG	SMD 966-5021●	0.820	0.580	0.470	0.280
ON	3/TO-220	1	4	14 to 35	2	-40°C to 125°C	MC7812CTG.	966-6109●	0.500	0.340	0.250	0.196
TS	3/TO-220	1	4	14 to 35	2	-20°C to 85°C	TS7812CZ	717-4047●	0.450	0.290	0.220	– –
ADI	8/PDIP	1.5	5	to 30		0°C to 70°C	ADP1111ANZ-12	143-9037●	3.020	2.450	2.000	– –
ADI	8/SOIC	1.5	5	to 30		0°C to 70°C	ADP1111ARZ-12	SMD 143-9041●	2.870	2.350	1.920	– –
LT	3/TO-220	1.5	1	13.3 to 25	1.3	0°C to 125°C	LT1086CT-12#PBF	955-9884●	3.780	2.140	1.660	– –
ST	3/TO-220FP	1.5	4	14 to 35	2	0°C to 150°C	L7812CP	975-6442●	1.000	0.670	0.550	0.490
ST	3/TO-220	1.5	4	14 to 35	2	0°C to 150°C	L7812CV	975-6124●	0.590	0.370	0.290	0.230
TI	3/TO-220	1.5		14.5 to 30	2	0°C to 125°C	UA7812CKCE3	123-6612●	0.510	0.330	0.270	0.240
TI	3/TO-220	1.5		14.5 to 30	2.5	0°C to 125°C	UA7812CKCG4	958-9473●	0.460	0.350	0.280	– –
ST	3/TO-220	2		15 to 35	3	0°C to 150°C	L78S12CV	975-6132●	0.610	0.400	0.330	0.310
NSC	3/TO-263	3		to 25	1.3	to	LM1085IS-12/NOPB	NEW SMD 168-5599●	2.050	1.680	1.370	1.260
NSC	5/TO-220	800		to 40		to	LM2577T-12/NOPB	NEW 168-5514●	5.580	4.590	3.760	3.440
NSC	5/TO-263	3		to 40		to	LM2576S-12/NOPB	NEW SMD 168-5614●	2.700	2.220	1.820	1.660
NSC	5/TO-263	800		to 40		to	LM2577S-12/NOPB	NEW SMD 168-5615●	5.580	4.590	3.760	3.440
MICR	3/TO-220	3	1	12.37 to 26	0.37	-40°C to 125°C	MIC29300-12WT	121-3493●	6.900	5.410	4.080	– –
FCH	3/TO-220	3	4	14.2 to 35	2.2	0°C to 125°C	MC78T12CT	SMD 141-7672●	0.880	0.660	0.510	0.430
LT	3/TO-220	3	1	13.3 to 25	1.3	0°C to 125°C	LT1085CT12	413-290▲	3.840	3.000	2.580	– –
LT	3/TO-220	3	1	13.3 to 25	1.3	0°C to 125°C	LT1085CT-12#PBF	955-9825●	6.390	3.610	2.850	– –

RL Re-reeling available

Farnell

Fixed Voltage Regulators - continued

Mftr.	Pins/Pkg	Output Current (A)	Output Tolerance (%)	Input Voltage Range (V)	Dropout Voltage (V)	Operating Temp. Range	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+
12 V												
LT	5/TO-220	3	1	13.8 to 30	1.8	0°C to 125°C	LT1036CT#PBF	127-3557●	4.740	3.100	2.600	– –
FCH	3/TO-220	3	4	14.2 to 35	2.2	0°C to 150°C	KA78T12TU	101-3838●	1.140	0.780	0.520	– –
NSC	3/TO-263	5		to 25	1.3	to	LM1084IS-12/NOPB	NEW SMD 168-5598●	2.650	2.180	1.780	1.630
NSC	5/TO-220	1.75		to 40		to	LM2587T-12/NOPB	NEW 168-5487●	8.820	6.850	5.610	5.140
NSC	7/TO-263	5		to 40		to	LM2677S-12/NOPB	NEW SMD 168-5625●	7.520	6.180	5.060	4.640
SEA	2/TO-3	5	1	14.5 to 35	2.5	0°C to 125°C	IP3R18K12	120-2003	14.320	9.960	6.240	4.410
LT	3/TO-3P	5	1	13.3 to 25	1.3	0°C to 125°C	LT1084CP12#PBF	955-9736●	9.660	5.940	5.060	– –
LT	3/TO-220	5	1	13.3 to 20	1.3	0°C to 125°C	LT1084CT-12#PBF	955-9760●	7.560	4.270	3.430	– –

443595

Mftr.	Pins/Pkg	Output Current (A)	Output Tolerance (%)	Input Voltage Range (V)	Dropout Voltage (V)	Operating Temp. Range	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+
15 V												
ST	8/SO	0.1	5	16.7 to 35	1.7	-40°C to 125°C	L78L15ABD	SMD 108-7110●	0.280	0.180	0.146	0.123
ST	8/SO	0.1	5	16.7 to 35	1.7	0°C to 125°C	L78L15ACD	SMD 108-7111●	0.210	0.166	0.136	0.117
ST	8/SO	0.1	10	16.7 to 35	1.7	0°C to 125°C	L78L15CD	SMD 108-7112●	0.230	0.188	0.132	0.103
NSC	8/SOIC	0.1	5	16.7 to 35	1.7	0°C to 125°C	LM78L15ACM	SMD 949-0302●	0.350	0.210	0.165	0.143
NSC	3/TO-92	0.1	5	16.7 to 35	1.7	0°C to 125°C	LM78L15ACZ	949-0310●	0.350	0.290	0.260	0.250
ON	8/SOIC	0.1	5	16.7 to 35	1.7	0°C to 125°C	MC78L15ACDG	SMD 121-1121●	0.250	0.153	0.128	– –
TOSH	3/TO-92	0.1	4	16.7 to 35	1.7	-30°C to 75°C	TA78L15S	318-6611	0.200	0.141	0.122	– –
TOSH	3/TO-92	0.1	4	16.7 to 35	1.7	-30°C to 75°C	TA78L15S(F)	121-8127●	0.370	0.260	0.220	– –
TI	3/SOT-89	0.1		to 30	1.7	0°C to 125°C	UA78L15ACPK	NEW SMD 164-8661●	0.151	0.117	0.104	0.090
NSC	5/SOT-23	100		to 30	1.2	to	LM3490IM5-15/NOPB	NEW SMD 168-5651●	0.650	0.540	0.440	0.400
TS	8/SOIC	0.1	4	17 to 35	2	-20°C to 85°C	TS78L15CS	SMD 720-8006●	0.186	0.135	0.107	– –
TS	3/TO-92	0.1	4	17 to 35	2	-20°C to 85°C	TS78L15CT	720-4094●	0.125	0.095	0.063	– –
TI	8/SOIC	0.1	5	17.5 to 30	2.5	0°C to 125°C	UA78L15ACD	SMD 959-3926●	0.159	0.129	0.105	– –
TOSH	3/SOT-89	0.15	5	16.7 to 35	1.7	0°C to 125°C	TA78L15F(F)	SMD 121-8122●	0.470	0.350	0.290	– –
NSC	3/TO-220	500		to 35		to	LM341T-15/NOPB	NEW 168-5646●	1.010	0.830	0.690	0.630
NSC	3/TO-263	500		to 26	500	to	LM2937ES-15/NOPB	NEW SMD 168-5637●	1.580	1.290	1.060	0.970
NSC	3/SOT-223	500		to 26	500	to	LM2937IMP-15/NOPB	NEW SMD 168-5640●	1.250	1.020	0.830	0.770
FCH	3/TO-220	0.5	5	17 to 35	2	0°C to 125°C	KA78M15TU	347-7071▲	0.360	0.230	0.150	– –
ST	3/TO-252 (D-Pak)	0.5	2	17 to 35	2	-40°C to 125°C	L78M15ABDT	SMD 108-7132●	0.490	0.330	0.270	0.240
ST	3/TO-220	0.5	2	17 to 35	2	-40°C to 125°C	L78M15ABV	108-7133●	0.710	0.520	0.380	0.330
ON	3/TO-252 (D-Pak)	0.5	4	17 to 35	2	0°C to 150°C	MC78M15CDTG	SMD 121-1124●	0.470	0.330	0.250	– –
ON	3/TO-220	0.5	4	17 to 35	2	-40°C to 125°C	MC78M15CTG	966-5390●	0.450	0.310	0.240	0.151
TS	3/TO-252 (D-Pak)	0.5	4	17 to 35	2	-20°C to 85°C	TS78M15CP	SMD 720-7638●	0.250	0.191	0.153	– –
ST	3/DPAK	0.8		to 15	1.1	0°C to 125°C	LD1117DTTR	NEW SMD 156-4296●	0.360	0.300	0.270	0.210
NSC	5/TO-263	1		to 60		to	LM2575HVS-15/NOPB	NEW SMD 168-5611●	3.770	3.100	2.540	2.320
NSC	3/TO-263	1		to 26	0.5	0°C to 125°C	LM2940CS-15/NOPB	NEW SMD 156-4643●	1.280	1.010	0.830	0.720
ST	3/TO-220	1	2	17 to 35	2	-40°C to 125°C	L7815ABV	108-7092●	0.470	0.410	0.350	0.290
ST	3/TO-220	1	2	17 to 35	2	0°C to 150°C	L7815ACV	108-7093●	0.690	0.450	0.370	0.350
NSC	3/TO-220	1		15.5 to 26	0.5	0°C to 125°C	LM2940CT-15	949-0337●	1.280	1.050	0.970	0.840
NSC	2/TO-3	1	2	17.9 to 35	2.9	0°C to 125°C	LM340K-15	121-5193●	15.710	15.610	15.500	14.720
ON	3/TO-220	1	4	17 to 35	2	-40°C to 125°C	MC7815CTG	966-6117●	0.500	0.340	0.250	0.194
TS	3/TO-220	1	4	17 to 35	2	-20°C to 85°C	TS7815CZ	717-4055●	0.220	0.145	0.112	– –
NSC	8/eMSOP	1.5		3.0 to 20		-40°C to 125°C	LM2738XMY	NEW SMD 158-9524●	2.990	2.660	2.170	1.990
NSC	8/eMSOP	1.5		3.0 to 20		-40°C to 125°C	LM2738YMY	NEW SMD 158-9525●	2.500	2.220	1.820	1.660
ST	3/D2PAK	1.5		to 35	2	0°C to 150°C	L7815CD2T-TR	NEW SMD 156-4322●	0.500	0.380	0.350	0.290
ST	3/TO-220FP	1.5	4	17 to 35	2	0°C to 150°C	L7815CP	109-5387●	0.460	0.370	0.340	0.300
ST	3/TO-220	1.5	4	17 to 35	2	0°C to 150°C	L7815CV	975-6159●	0.650	0.410	0.310	0.220
TI	3/TO-220	1.5	2	14.5 to 30	2	0°C to 125°C	TL780-15CKC	959-3799●	0.480	0.380	0.310	– –
TI	3/TO-220	1.5		17.5 to 30	2.5	0°C to 125°C	UA7815CKC	959-3837●	0.720	0.510	0.390	– –
NSC	5/TO-263	800		to 40		to	LM2577S-15/NOPB	NEW SMD 168-5616●	5.580	4.590	3.760	3.440
FCH	3/TO-220	3	4	14.2 to 40	2.2	0°C to 150°C	KA78T15TU	101-3839●	1.140	0.780	0.520	– –
FCH	3/TO-220	3	4	17.2 to 40	2.2	0°C to 125°C	MC78T15CT	141-7674●	0.590	0.460	0.350	0.300
18V												
TS	8/SOIC	0.1	4	20 to 35	2	-20°C to 85°C	TS78L18CS	SMD 720-8014●	0.137	0.099	0.079	– –
TS	3/TO-92	0.1	4	20 to 35	2	-20°C to 85°C	TS78L18CT	720-4108●	0.134	0.102	0.067	– –
TOSH	3/SOT-89	0.15	5	19.7 to 40	1.7	0°C to 125°C	TA78L18F(F)	SMD 121-8124●	0.520	0.380	0.310	– –
TS	3/TO-252 (D-Pak)	0.5	4	20 to 35	2	-20°C to 85°C	TS78M18CP	SMD 720-7646●	0.500	0.390	0.310	– –
ON	3/TO-220	1	4	20 to 35	2	-40°C to 125°C	MC7818CTG	966-6249●	0.490	0.330	0.250	0.160
TS	3/TO-220	1	4	20 to 35	2	-20°C to 85°C	TS7818CZ	717-4063●	0.220	0.145	0.112	– –
ST	3/TO-220	1.5	4	20 to 35	2	0°C to 150°C	L7818CV	975-6175●	0.650	0.410	0.310	0.270
ST	3/TO-220	1.5	4	20 to 35	2	0°C to 150°C	L7818CV.	413-537▲	0.370	0.320	0.270	0.220
ST	3/TO-220	2		21 to 35	3	0°C to 150°C	L78S18CV	975-6183●	0.850	0.610	0.500	0.450
ST	3/TO-220	0.5		22 to 40	2	0°C to 150°C	L78M20CV	108-7135●	0.360	0.240	0.210	0.189
MAX	8/SOIC	0.05		to 16.5		0°C to 70°C	MAX637ACSA+	NEW SMD 167-3205●	6.040	4.310	3.350	3.020
ST	8/SO	0.1	5	25.7 to 40	1.7	-40°C to 125°C	L78L24ABD	SMD 108-7114●	0.280	0.180	0.162	0.145
ST	8/SOIC	0.1	5	25.7 to 40	1.7	0°C to 125°C	L78L24ACD	SMD 107-7153●	0.280	0.180	0.146	0.145
TS	8/SOIC	0.1	4	26 to 40	2	-20°C to 85°C	TS78L24CS	SMD 720-8022●	0.137	0.099	0.079	– –
TS	3/TO-92	0.1	4	26 to 40	2	-20°C to 85°C	TS78L24CT	720-4116●	0.125	0.095	0.063	– –
TOSH	3/SOT-89	0.15	5	25.7 to 40	1.7	-30°C to 85°C	TA78L24F(F)	SMD 121-8125●	0.440	0.330	0.270	– –
TS	3/TO-252 (D-Pak)	0.5	4	26 to 40	2	-20°C to 85°C	TS78M24CP	SMD 720-7654●	0.250	0.191	0.153	– –
ON	3/TO-220	1	4	26 to 40	2	-40°C to 125°C	MC7824CTG	966-6257●	0.510	0.350	0.250	0.194
TS	3/TO-220	1	4	26 to 40	2	-20°C to 85°C	TS7824CZ	717-4071●	0.450	0.290	0.220	– –
ST	3/TO-220	1.5	4	26 to 40	2	0°C to 150°C	L7824CV	975-6213●	0.470	0.320	0.240	0.180
ST	3/TO-220	2		27 to 40	3	0°C to 150°C	L78S24CV	975-6221●	0.610	0.400	0.330	0.310

Lowdrop Voltage Regulator

HOLTEK

The HT71XX-1/HT75XX-1 series is a set of three-terminal low power high voltage regulators implemented in CMOS technology. They allow input voltages as high as 24V. They are available with several fixed output voltages ranging from 3.0V to 5.0V. CMOS technology ensures low voltage drop and low quiescent current. Although designed primarily as fixed voltage regulators, these devices can be used with external components to obtain variable voltages and currents.

- Low power consumption
- Low voltage drop
- Low temperature coefficient
- High input voltage (up to 24V)
- Output voltage accuracy: tolerance ± 3%

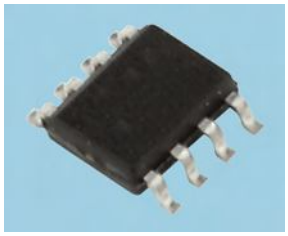
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Mftrs. List No.	Pins/Pkg	Output Current (mA)	Input Voltage Max (V)	Output Voltage (V)	Operating Temperature	Order Code	Price Each 1+	10+	100+	250+	500+
HT7130-1-SOT89TRLF	3/SOT-89	30	24	3	-40°C to 85°C	SMD 142-0873●	– –	– –	– –	– –	– –
HT7150A-1-T092LF	3/TO-92	30	24	5	-40°C to 85°C	142-0874●	– –	– –	– –	– –	– –
HT7150-1-SOT89TRLF	3/SOT-89	30	24	5	-40°C to 85°C	SMD 142-0875●	– –	– –	– –	– –	– –
HT7550-1-SOT89TRLF	3/SOT-89	100	24	5	-40°C to 85°C	SMD 142-0876●	– –	– –	– –	– –	– –

RL Re-reeling available

Farnell

LP2966/LP2967 - Ultra Low-Dropout Regulators



The **LP2966** is a dual, ultra low-dropout regulator. Each output delivers 150mA over a full temperature range. Each LDO in the LP2966 series has independent shutdown capability.

LP2966 Features:
- Low ground pin current
- Output voltage accuracy ±1%
- Guaranteed 150mA output current at each output
- Low output noise
- Error Flags indicate status of each output

The **LP2967** is a 150 mA, dual fixed-output voltage regulator designed to provide ultra low-dropout and low noise in battery powered applications.

LP2967 Features:
- Guaranteed 150mA output current, 300 mA peak
- Stable with 2.2 µF tantalum or ceramic capacitor
- Output voltage accuracy ±1%
- Low ZOUT: 0.3 typical (10 Hz to 1 MHz)
- Over temperature/Over current protection

496568

Output Voltage (V)	Pins/Pkg	Output Current (mA)	Input Voltage Range (V)	Dropout Voltage @150mA (mV)	Operating Junction Temp. Range	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+
1.8/2.8	8/SOIC	150	2.7 - 7	135	-40°C to 125°C	LP2966IMM-1828	SMD-131-2843●	1.60	1.22	0.96	0.85
1.8/3	8/SOIC	150	2.7 - 7	135	-40°C to 125°C	LP2966IMM-1830	SMD-131-2845●	2.03	1.32	1.00	0.88
1.8/3.3	8/SOIC	150	2.7 - 7	135	-40°C to 125°C	LP2966IMM-1833	SMD-131-2846●	1.97	1.33	1.09	1.02
2.5/1.8	8/SOIC	150	2.7 - 7	135	-40°C to 125°C	LP2966IMM-2518	SMD-131-2847●	1.60	1.22	0.96	0.85
2.5/3.3	8/SOIC	150	2.7 - 7	135	-40°C to 125°C	LP2966IMM-3325	SMD-131-2849●	1.11	0.89	0.71	0.63
2.8/3	8/SOIC	150	2.7 - 7	135	-40°C to 125°C	LP2966IMM-2830	SMD-131-2848●	1.60	1.22	0.96	0.85
2.8/3.3	8/SOIC	150	2.1 - 16	240	-40°C to 85°C	LP2967IMM-2833	SMD-131-2851●	1.35	1.06	0.87	0.77

LP2995/96/97 Linear Regulator

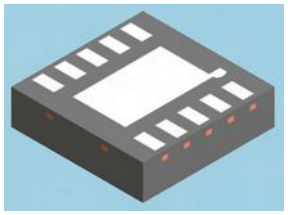
The LP2995/96/97 linear regulator is designed to meet the JEDEC SSTL-2 and SSTL-3 specifications for termination of DDRSDRAM. The device contains a high-speed operational amplifier to provide excellent response to load transients. The output stage prevents shoot through while delivering 1.5A continuous current and transient peaks up to 3A in the application as required for DDR-SDRAM termination.

Features include:
- Low output voltage offset
- Works with +5v, +3.3v and 2.5v rails
- Low external component count
- No external resistors required
- Available in SO-8, PSOP-8 or LLP-16 packages
- Low cost and easy to use

452014

	Pins/Pkg	Order Code	Price Each 1+	10+	100+	250+	500+
2995	8 / SO	SMD-128-6958●	1.26	0.83	0.61	0.50	0.50
2995	8 / PSOP	SMD-128-6959●	1.10	0.87	0.69	0.57	0.57
2996	8 / SO	SMD-128-6960●	1.39	0.92	0.66	0.55	0.55
2996	8 / PSOP	SMD-128-6962●	1.23	0.83	0.66	0.55	0.55
2997	8 / PSOP	SMD-128-6963●	1.23	0.83	0.78	0.65	0.65

LP3996 Dual Linear Regulators



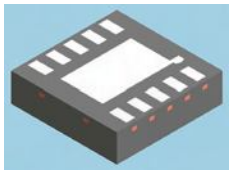
The LP3996 is a dual low dropout regulator with a power-on reset circuit. The first regulator can source 150mA, while the second is capable of sourcing 300mA and has a power-on reset function included.

Features:
- 2 LDO Outputs with Independent Enable
- 1.5% Accuracy at Room Temperature, 3% over Temperature
- Power-On-Reset Function with Adjustable Delay
- Thermal Shutdown Protection
- Stable with Ceramic Capacitors

492341

Output Voltage (V)	Pins/Pkg	Output Current (mA)	Input Voltage Range (V)	Dropout Voltage @300mA (mV)	Operating Temp. Range	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+
0.8/3.3	10/LLP	150/300	2 - 6	210	-40°C to 85°C	LP3996SD-0833	SMD-131-2632●	1.05	0.83	0.68	0.58
2.8/2.8	10/LLP	150/300	2 - 6	210	-40°C to 85°C	LP3996SD-2828	SMD-131-2634●	0.77	0.62	0.51	0.43
3.0/3	10/LLP	150/300	2 - 6	210	-40°C to 85°C	LP3996SD-3030	SMD-131-2635●	1.07	0.85	0.69	0.59
3.0/3.3	10/LLP	150/300	2 - 6	210	-40°C to 85°C	LP3996SD-3033	SMD-131-2636●	0.77	0.62	0.51	0.43
3.3/0.8	10/LLP	150/300	2 - 6	210	-40°C to 85°C	LP3996SD-3308	SMD-131-2638●	0.79	0.63	0.52	0.45
3.3/3.3	10/LLP	150/300	2 - 6	210	-40°C to 85°C	LP3996SD-3333	SMD-131-2640●	0.75	0.59	0.48	0.43

LP5996 Dual Linear Regulators



The LP5996 is a dual low dropout regulator. The first regulator can source 150mA, while the second is capable of sourcing 300mA. It provides 1.5% accuracy requiring an ultra low quiescent current of 35µA. Separate enable pins allow each output of the LP5996 to be shut down, drawing virtually zero current.

Features:
- 2 LDO Outputs with Independent Enable
- 1.5% Accuracy at Room Temperature, 3% over Temperature
- Thermal Shutdown Protection
- Stable with Ceramic Capacitors

496488

Output Voltage (V)	Pins/Pkg	Output Current (mA)	Input Voltage Range (V)	Dropout Voltage @300mA (mV)	Operating Temp. Range	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+
0.8/3.3	10/LLP	150/300	2 - 6	210	-40°C to 85°C	LP5996SD-0833	SMD-131-2659●	0.67	0.53	0.43	0.38
1.5/2.5	10/LLP	150/300	2 - 6	210	-40°C to 85°C	LP5996SD-1525	SMD-131-2660●	0.72	0.57	0.46	0.41
2.8/2.8	10/LLP	150/300	2 - 6	210	-40°C to 85°C	LP5996SD-2828	SMD-131-2661●	0.65	0.52	0.41	0.37
3.0/3	10/LLP	150/300	2 - 6	210	-40°C to 85°C	LP5996SD-3030	SMD-131-2663●	0.72	0.57	0.46	0.41
3.0/3.3	10/LLP	150/300	2 - 6	210	-40°C to 85°C	LP5996SD-3033	SMD-131-2664●	0.67	0.53	0.43	0.38
3.3/0.8	10/LLP	150/300	2 - 6	210	-40°C to 85°C	LP5996SD-3308	SMD-131-2665●	0.71	0.56	0.45	0.40
3.3/3.3	10/LLP	150/300	2 - 6	210	-40°C to 85°C	LP5996SD-3333	SMD-131-2666●	0.65	0.52	0.42	0.37

£ € 40,000 PRICES REDUCED

RL Re-reeling available
Farnell

Voltage Regulators

MICREL®

422935

	Pins	Pkg	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
2168	10	MSOP	1MHz PWM Synchronous Buck Control IC	MIC2168YMM	SMD 110-0662	2.71	2.25	1.92	1.68	1.52
2185	16	SOP	Low Voltage Synchronous Boost PWM Control IC	MIC2185YM	SMD 110-0663	4.08	3.36	2.88	2.50	2.34
2207	12	MLF	1 to 5.5V Adjustable Voltage Regulator, PWM	MIC2207YML TR	SMD 110-0659	2.90	1.98	1.47	1.36	1.32
2202	10	MSOP	High Efficiency 2MHz Synchronous Buck Converter 1µF Stable PWM Regulator	MIC2202YMM	SMD 110-0661	2.42	2.00	1.70	1.49	1.38
4680	8	SOP	1.25 to 5V Adjustable Voltage Regulator	MIC4680YM	SMD 110-0657	2.61	2.08	1.72	– –	– –
5205	5	SOT-23	2.5 to 5V Adjustable Voltage Regulator, LDO	MIC5205YM5 TR	SMD 110-0654	0.68	0.50	0.36	0.27	0.21
5209	8	SOIC	1.8 to 5V Adjustable Voltage Regulator, LDO	MIC5209YM	SMD 110-0653	1.38	0.99	0.71	0.66	0.61
5219	5	SOT-23	2.5 to 5V Adjustable Voltage Regulator, LDO	MIC5219YM5 TR	SMD 110-0656	1.11	0.89	0.65	– –	– –
5235	5	SOT-23	1.5 to 5V Adjustable Voltage Regulator, LDO	MIC5235YM5 TR	SMD 110-0655	0.77	0.55	0.42	– –	– –
29152	5	TO-263 (D2-Pak)	3.3V to 12V Adjustable Voltage Regulator, LDO	MIC29152WU	SMD 110-0648	2.49	2.00	1.55	– –	– –
29302	5	TO-263 (D2-Pak)	3.3V to 12V Adjustable Voltage Regulator, LDO	MIC29302WU	SMD 110-0649	2.89	2.32	1.79	– –	– –
39102	8	SOIC	1.8 to 5V Adjustable Voltage Regulator, LDO	MIC39102YM	SMD 110-0652	1.57	1.23	0.88	– –	– –
49150	5	S-PAK	0.9 to 1.8V Adjustable Voltage Regulator, LDO	MIC49150WR	SMD 110-0650	2.85	2.28	1.77	– –	– –
49300	5	S-PAK	0.9 to 1.8V Adjustable Voltage Regulator, LDO	MIC49300WR	SMD 110-0651	3.85	3.08	2.39	– –	– –

High Voltage Linear Regulators
Voltage Output 3.3V, 5.0V & Adjustable @ 100mA

MAXIM

Features

- Low 31µA Quiescent Current
- 4V to 72V Wide Input Voltage Range
- 100mA Output Current Capability
- Dropout Voltage of 620mV with 5V Output at 100mA
- Fixed Output-Voltage Options: 5V & 3.3V
- Adjustable Output Voltages from 1.8V to 11V
- Open-Drain or Push-Pull Active-Low RESET Output
- Fixed or Capacitor-Adjustable Reset Timeouts
- Small, Thermally Enhanced 1.9W, 3mm x 3mm TDFN Package
- Overtemperature and Short-Circuit Protection

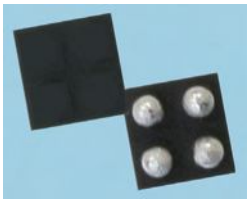
The MAX677x are low-quiescent-current, high-voltage linear regulators that operate from 4V to 72V and deliver up to 100mA of load current. These low-power devices consume only 31µA of quiescent current, making them ideal for always-on automotive modules. These devices are offered with fixed standard output options of 5.0V, 3.3V, or can be adjusted from 1.8V to 11V with two external resistors. The minimum reset timeout period is offered with fixed values from 75µs to 200ms or can be adjusted externally with a small capacitor.The MAX6771/MAX6772 provide dual enable inputs (ENABLE1 and ENABLE2) to turn on and off the regulator either through an ignition switch or a bus transceiver. The MAX6773/MAX6774 feature a single traditional enable input (ENABLE) to turn on and off the regulator.

496973

Output Current (A)	Output Voltage (V)	Pins/Pkg	Input Voltage Range (V)	Dropout Voltage (V)	Operating Temp. Range	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+
0.1	5	6/TDFN	4 to 72	0.62	-40°C to 125°C	MAX6771TALD2+T	SMD 145-5625	1.40	1.28	1.18	1.09
0.1	5	6/TDFN	4 to 72	0.62	-40°C to 125°C	MAX6772TALD2+T	SMD 145-5626	1.27	1.16	1.07	0.98
0.1	3.3	6/TDFN	4 to 72	0.62	-40°C to 125°C	MAX6772TASD2+T	SMD 145-5627	1.40	1.28	1.18	1.09
0.1	5	6/TDFN	4 to 72	0.62	-40°C to 125°C	MAX6773TALD2+T	SMD 145-5628	1.34	1.22	1.12	1.04
0.1	5	6/TDFN	4 to 72	0.62	-40°C to 125°C	MAX6774TALD2+T	SMD 145-5629	1.34	1.22	1.12	1.04

Low Dropout Voltage Regulators

ROHM SEMICONDUCTOR



496412

Output Current (A)	Output Voltage (V)	Pins/Pkg	Input Voltage Range (V)	Dropout Voltage (V)	Operating Temp. Range	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+
0.15	1.5	4/VCSP60N1	2.5 to 5.5	0.025	-40°C to 85°C	BH15RB1WGUT-E2	SMD 151-2673	0.330	0.220	0.198	0.164
0.15	1.8	4/VCSP60N1	2.5 to 5.5	0.025	-40°C to 85°C	BH18RB1WGUT-E2	SMD 151-2674	0.330	0.220	0.198	0.164
0.15	2.8	4/VCSP60N1	2.5 to 5.5	0.025	-40°C to 85°C	BH28RB1WGUT-E2	SMD 151-2676	0.330	0.220	0.198	0.164
0.15	2.9	4/VCSP60N1	2.5 to 5.5	0.025	-40°C to 85°C	BH29RB1WGUT-E2	SMD 151-2677	0.330	0.220	0.198	0.164
0.15	3.0	4/VCSP60N1	2.5 to 5.5	0.025	-40°C to 85°C	BH30RB1WGUT-E2	SMD 151-2678	0.330	0.220	0.198	0.164

Low Dropout Voltage Regulators

TAIWAN SEMICONDUCTOR

- Fixed and adjustable voltage regulators
- Available in SM package SOT-25, TO-252 & SOT-23
- Output voltage range from 1.8V to 24V
- Output current range from 0.15A to 1.5A
- Low dropout voltage & high tolerance output

494374

Output Current (A)	Output Voltage (V)	Pins/Pkg	Output Tolerance (%)	Input Voltage Range (V)	Dropout Voltage (V)	Operating Temp. Range	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+
0.1	3.0	3/SOT-23	4	to 30	2	0°C to 125°C	TS78L03CX RF	SMD 147-6697	0.280	0.240	0.200	0.184
0.1	3.3	3/SOT-23	5	to 30	1.2	-40°C to 125°C	TS3480CX33 RF	SMD 147-6687	0.330	0.280	0.250	0.210
0.1	5.0	3/SOT-23	4	to 35	1.7	0°C to 125°C	TS78L05CX RF	SMD 147-6698	0.280	0.240	0.200	0.184
0.1	5.0	3/SOT-23	5	to 30	1.2	-40°C to 125°C	TS3480CX50 RF	SMD 147-6686	0.330	0.280	0.250	0.210
0.1	6.0	3/SOT-23	4	to 35	1.7	0°C to 125°C	TS78L06CX RF	SMD 147-6699	0.280	0.240	0.200	0.184
0.1	8.0	3/SOT-23	4	to 35	1.7	0°C to 125°C	TS78L08CX RF	SMD 147-6700	0.280	0.240	0.200	0.184
0.1	9.0	3/SOT-23	4	to 35	1.7	0°C to 125°C	TS78L09CX RF	SMD 147-6702	0.280	0.240	0.200	0.184
0.1	12.0	3/SOT-23	4	to 35	1.7	0°C to 125°C	TS78L12CX RF	SMD 147-6703	0.280	0.240	0.200	0.184
0.1	15	3/SOT-23	4	to 35	1.7	0°C to 125°C	TS78L15CX RF	SMD 147-6704	0.280	0.240	0.200	0.184
0.1	18.0	3/SOT-23	4	to 35	1.7	0°C to 125°C	TS78L18CX RF	SMD 147-6705	0.280	0.240	0.200	0.184
0.1	24	3/SOT-23	4	to 40	1.7	0°C to 125°C	TS78L24CX RF	SMD 147-6706	0.280	0.240	0.200	0.184
0.15	5.0	3/SOT-223	2	5.5 to 45	0.25	-40°C to 150°C	TS4264GCW50 RP	SMD 147-6688	0.780	0.660	0.580	0.510
0.2	3.3	5/SOT-25	2.4	to 35	0.5	-40°C to 125°C	TS1123CX533 C0	SMD 147-6675	0.390	0.340	0.290	0.260
0.2	5.0	5/SOT-25	2.4	to 35	0.5	-40°C to 125°C	TS1123CX550 C0	SMD 147-6676	0.390	0.340	0.290	0.260
0.2	12	5/SOT-25	2.4	to 35	0.5	-40°C to 125°C	TS1123CX512 C0	SMD 147-6677	0.390	0.340	0.290	0.260

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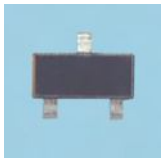
Farnell

Output Current (A)	Output Voltage (V)	Pins/Pkg	Output Tolerance (%)	Input Voltage Range (V)	Dropout Voltage (V)	Operating Temp. Range	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+
0.3	1.8	5/SOT-25	2	-0.3 to 7	0.8	-40°C to 85°C	TS9007DCX5 RF	SMD 147-6693	0.350	0.300	0.270	0.240
0.3	3.0	5/SOT-25	2	-0.3 to 7	0.5	-40°C to 85°C	TS9007PCX5 RF	SMD 147-6696	0.350	0.300	0.270	0.240
0.8	1.2	3/TO-252 (D-Pak)	2	to 15	1.3	0°C to 125°C	TS1117BCP12 R0	SMD 147-6674	0.450	0.390	0.340	0.300
0.8	1.8	3/TO-252 (D-Pak)	2	to 15	1.3	0°C to 125°C	TS1117BCP18 R0	SMD 147-6673	0.450	0.390	0.340	0.300
0.8	3.3	3/TO-252 (D-Pak)	2	to 15	1.3	0°C to 125°C	TS1117BCP33 R0	SMD 147-6672	0.450	0.390	0.340	0.300
0.8	5.0	3/TO-252 (D-Pak)	2	to 15	1.3	0°C to 125°C	TS1117BCP50 R0	SMD 147-6670	0.450	0.390	0.340	0.300
1.5	5.0	5/SOT-25	–	2.7 to 6	–	-40°C to 85°C	TS1935CX5 RF	SMD 147-6681	1.190	1.020	0.900	0.800
1.8	1.8	3/TO-252 (D-Pak)	2.5	to 15	1.0	0°C to 125°C	TS1540CP18 R0	SMD 147-6680	0.540	0.470	0.410	0.370
1.8	3.3	3/TO-252 (D-Pak)	2.5	to 15	1.0	0°C to 125°C	TS1540CP33 R0	SMD 147-6679	0.540	0.470	0.410	0.370
1.8	5.0	3/TO-252 (D-Pak)	2.5	to 15	1.0	0°C to 125°C	TS1540CP50 R0	SMD 147-6678	0.540	0.470	0.410	0.370

XC6206 Series Voltage Regulators

TOREX SEMICONDUCTOR LTD.





The XC6206 series are highly precise, low power consumption, high voltage, positive voltage regulators manufactured using CMOS and laser trimming technologies. The series provides large currents with a significantly small dropout voltage.The XC6206 consists of a current limiter circuit, a driver transistor, a precision reference voltage and an error correction circuit.

Features:
- CMOS Low Power Consumption: 1.0 µA (Typ.)
- High Accuracy: ±2%
- Built-in Current Limiter Circuit
- Low ESR Ceramic Capacitor Compatible

386498

	Pins/package	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
6206	3/SOT-23	1.8V Low ESR Cap Compatible LDO Regulator	XC6206P182MR	SMD 879-6920	0.42	0.37	0.30
6206	3/SOT-89	1.8V Low ESR Cap Compatible LDO Regulator	XC6206P182PR	SMD 879-6939	0.42	0.37	0.30
6206	3/SOT-23	2.5V Low ESR Cap Compatible LDO Regulator	XC6206P252MR	SMD 879-6947	0.42	0.37	0.30
6206	3/SOT-23	3.0V Low ESR Cap Compatible LDO Regulator	XC6206P302MR	SMD 879-6963	0.42	0.37	0.30
6206	3/SOT-89	3.0V Low ESR Cap Compatible LDO Regulator	XC6206P302PR	SMD 879-6971	0.42	0.37	0.30
6206	3/SOT-23	3.3V Low ESR Cap Compatible LDO Regulator	XC6206P332MR	SMD 879-6980	0.42	0.37	0.30
6206	3/SOT-89	3.3V Low ESR Cap Compatible LDO Regulator	XC6206P332PR	SMD 879-6998	0.42	0.37	0.30
6206	3/SOT-23	5.0V Low ESR Cap Compatible LDO Regulator	XC6206P502MR	SMD 879-7005	0.42	0.37	0.30
6206	3/SOT-89	5.0V Low ESR Cap Compatible LDO Regulator	XC6206P502PR	SMD 879-7013	0.46	0.40	0.33

28V CMOS LDO Voltage Regulators

TOREX SEMICONDUCTOR LTD.

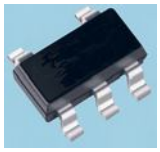
With a maximum input voltage of 28V, the XC6216 series is ideally suited for 24V systems and many industrial applications.
The output voltage can be fixed internally within the range of 2.0V to 12V (100mV increments), or using external resistors, outputs up to 23V can easily be set (XC6216C series).

496691

Pins/Pkg	Output Current (mA)	Input Voltage Range (V)	Dropout Voltage (mV)	Operating Temp. Range	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
3V											
3/SOT-89	150	2.0 to 28	300	-40°C to 85°C	XC6216D302PR	SMD 145-4251	1.34	1.06	0.89	0.77	0.69
3/SOT-223	150	2.0 to 28	300	-40°C to 85°C	XC6216D302FR	SMD 145-4255	1.54	1.21	1.02	0.84	0.81
3/TO-252 (D-Pak)	150	2.0 to 28	300	-40°C to 85°C	XC6216D302JR	145-4259	1.54	1.21	1.02	0.84	0.81
5/SOT-25	150	2.0 to 28	300	-40°C to 85°C	XC6216B302MR	SMD 145-4277	1.34	1.06	0.89	0.72	0.69
3.3V											
3/SOT-89	150	2.0 to 28	300	-40°C to 85°C	XC6216D332PR	SMD 145-4252	1.34	1.06	0.89	0.77	0.69
3/SOT-223	150	2.0 to 28	300	-40°C to 85°C	XC6216D332FR	SMD 145-4256	1.54	1.21	1.02	0.84	0.81
3/TO-252 (D-Pak)	150	2.0 to 28	300	-40°C to 85°C	XC6216D332JR	145-4260	1.54	1.21	1.02	0.84	0.81
5/SOT-25	150	2.0 to 28	300	-40°C to 85°C	XC6216B332MR	SMD 145-4278	1.34	1.06	0.89	0.72	0.69
5V											
3/SOT-89	150	2.0 to 28	300	-40°C to 85°C	XC6216D502PR	SMD 145-4253	1.34	1.06	0.89	0.77	0.69
3/SOT-223	150	2.0 to 28	300	-40°C to 85°C	XC6216D502FR	SMD 145-4257	1.54	1.21	1.02	0.84	0.81
3/TO-252 (D-Pak)	150	2.0 to 28	300	-40°C to 85°C	XC6216D502JR	145-4261	1.54	1.21	1.02	0.84	0.81
5/SOT-25	150	2.0 to 28	300	-40°C to 85°C	XC6216B502MR	SMD 145-4279	1.34	1.06	0.89	0.72	0.69
12V											
3/SOT-89	150	2.0 to 28	300	-40°C to 85°C	XC6216DC02PR	SMD 145-4254	1.34	1.06	0.89	0.77	0.69
3/SOT-223	150	2.0 to 28	300	-40°C to 85°C	XC6216DC02FR	SMD 145-4258	1.54	1.21	1.02	0.84	0.81
3/TO-252 (D-Pak)	150	2.0 to 28	300	-40°C to 85°C	XC6216DC02JR	145-4263	1.54	1.21	1.02	0.84	0.81
5/SOT-25	150	2.0 to 28	300	-40°C to 85°C	XC6216BC02MR	SMD 145-4280	1.34	1.06	0.89	0.72	0.69
23V											
5/SOT-25	150	2.0 to 28	300	-40°C to 85°C	XC6216C202MR	SMD 145-4264	1.34	1.06	0.89	0.72	0.69
5/SOT-89-5	150	2.0 to 28	300	-40°C to 85°C	XC6216C202PR	SMD 145-4265	1.54	1.21	1.02	0.84	0.81

XC6219 Series High Speed Voltage Regulators

TOREX SEMICONDUCTOR LTD.



The XC6219 series are highly accurate, low noise, CMOS LDOVoltage Regulators. Offering low output noise, high ripple rejectionratio, low dropout and very fast turn-on times, the XC6219 seriesis ideal for today's cutting edge appliances e.g. mobile phone, Cameras, Portable games e.t.c.Internally the XC6219 includes a reference voltage source, erroramplifiers, driver transistors, current limiters and phasecompensators. The XC6219's current limiters' foldback circuit alsooperates as a short protect for the output current limiter and theoutput pin.

Features:
- CMOS Low Power Consumption: 25µA (Typ.)
- High Accuracy: ±2%
- Built-in Current Limiter Circuit
- Low ESR Ceramic Capacitor Compatible
- High Ripple Rejection: 65dB (10kHz)

386502

	Pins/package	Description	Mftrs. List No.	Order Code	Price Each 1+	10+	100+
6219	5/SOT-23	1.8V High Speed, Low Noise LDO Regulator	XC6219B182MR	SMD 879-7021	0.46	0.40	0.33
6219	5/SOT-23	3.0V High Speed, Low Noise LDO Regulator	XC6219B302MR	SMD 879-7056	0.46	0.40	0.33
6219	5/SOT-23	3.3V High Speed, Low Noise LDO Regulator	XC6219B332MR	SMD 879-7064	0.46	0.40	0.33
6219	5/SOT-23	5.0V High Speed, Low Noise LDO Regulator	XC6219B502MR	SMD 879-7072	0.47	0.40	0.33

£ € 40,000 PRICES REDUCED

RL Re-reeling available
Farnell

Fixed Voltage Regulators - continued

High Speed, Low Noise LDO Regulators

The XC6221 series are precise, low noise, high speed, low dropout regulators. The are ideal for RF applications in battery powered designs. Low Drop-Out spec and additional CE function help to maximize battery life.
These devices are specifically designed for use with ceramic output capacitors.

496713

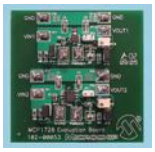
Pins/Pkg	Output Current (mA)	Input Voltage Range (V)	Dropout Voltage (mV)	Operating Temp. Range	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
1.2V											
5/SOT-25	200	1.6 to 6	80	-40°C to 85°C	XC6221B122MR	SMD 145-4266	0.65	0.51	0.43	0.36	0.34
1.5V											
5/SOT-25	200	1.6 to 6	80	-40°C to 85°C	XC6221B152MR	SMD 145-4267	0.65	0.51	0.43	0.36	0.34
1.8V											
5/SOT-25	200	1.6 to 6	80	-40°C to 85°C	XC6221B182MR	SMD 145-4268	0.65	0.51	0.43	0.36	0.34
2.5V											
5/SOT-25	200	1.6 to 6	80	-40°C to 85°C	XC6221B252MR	SMD 145-4269	0.65	0.51	0.43	0.36	0.34
2.8V											
5/SOT-25	200	1.6 to 6	80	-40°C to 85°C	XC6221B282MR	SMD 145-4270	0.65	0.51	0.43	0.36	0.34
3.0V											
5/SOT-25	200	1.6 to 6	80	-40°C to 85°C	XC6221B302MR	SMD 145-4271	0.65	0.51	0.43	0.36	0.34
3.3V											
5/SOT-25	200	1.6 to 6	80	-40°C to 85°C	XC6221B332MR	SMD 145-4272	0.65	0.51	0.43	0.36	0.34

229028

	Mftr.	Pins/Pkg	Features	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	250+	500+
–	NSC	8/MSOP	Power Sequencer	LM3881MM	NEW SMD 155-2439	0.93	0.82	0.65	0.54	0.47
1544006	TI	20/CDIP		0722MG	NEW 154-4006	256.71	235.33	217.23	201.71	188.27
Adjust.	TI	8/DIP	µP power supply supervisor	TL7702ACP..	414-098	0.39	0.30	0.21	– –	– –
Adjust.	TI	8/DIP	µP power supply supervisor	TL7702ACP	110-3042	0.50	0.32	0.23	– –	– –
±5V	TI	8/SOIC	µP power supply supervisor	TL7705ACDG4	SMD 113-5964	0.47	0.30	0.22	– –	– –
±5V	TI	8/DIP	µP power supply supervisor	TL7705ACP	110-3043	0.47	0.30	0.22	– –	– –
±5V	ST	8/DIP	µP power supply supervisor	TL7705ACP/A	120-2828	0.88	0.79	0.68	0.60	0.35
±5V	TI	16/DIP	Dual µP power supply supervisor	TL7770-5CNE4	121-4406	3.92	2.54	1.52	– –	– –
–	NSC	8/SO	DDR-II and DDR-I Termination Regulator	LP2998MA	NEW SMD 154-2532	1.08	0.96	0.86	0.79	0.65
–	NSC	8/SOP	DDR-II and DDR-I Termination Regulator	LP2998MR/NOPB	NEW SMD 154-2533	1.09	0.98	0.87	0.79	0.66

1

MCP1726 1A LDO Evaluation Board



The MCP1726 1A LDO Evaluation Board features Microchip Technology's 1A, Low Quiescent Current LDO Regulator in two circuits. The first circuit has the adjustable version of the MCP1726 in the 8-pin 3X3 DFN package. The second circuit has the adjustable version of the MCP1726 in the 8-pin SOIC package. Both circuits have potentiometers that can be used to adjust the output voltage of the LDO.

Features:
- 8-Lead SOIC and 8-Lead DFN packages for full part evaluation
- Each circuit capable of delivering 1A of continuous output current
- Adjustable output voltage via potentiometer adjustment (can also evaluate fixed output voltages)
- Shutdown, Power Good and Power Good Delay features accessible for evaluation

494758

Mftrs. List No.	Description	Order Code	Price Each 1+
MCP1726EV	MCP1726 1A LDO Evaluation Board	133-2082	15.12

Fixed & Adjustable MCP16/17/18xx Voltage Regulators

This is a range of voltage regulators with output fixed from 0.8V to 5.0V with respective current output from 0.3A to 1.5A. Also adjustable regulators from 0.8V to 5.0V up to 1A. The devices have low dropout voltage, low quiescent current, overtemperature and short circuit current-limiting protection.

493839

Output Voltage (V)	Output Current (A)	Pins/Pkg	Input Voltage Range (V)	Operating Temp. Range	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	+
Fest										
0.8	0.3	3/SOT-223	2.1 to 6	-40°C to 125°C	MCP1824ST-0802E/DB	NEW SMD 157-8374	0.700	0.530	0.420	– –
1.8	0.15	5/SOT-23	2 to 10	-40°C to 85°C	MCP1801T-1802I/OT	NEW SMD 157-8368	0.540	0.410	0.320	– –
1.8	0.25	3/TO-92	2.3 to 6	-40°C to 125°C	MCP1700-1802E/TO	SMD 133-1479	0.320	0.196	0.157	– –
1.8	0.25	3/TO-92	2.7 to 13.2	-40°C to 125°C	MCP1702-1802E/TO	SMD 133-1483	0.430	0.280	0.220	– –
1.8	0.25	3/SOT-23	2.7 to 13.2	-40°C to 125°C	MCP1702T-1802E/CB	SMD 133-1488	0.430	0.280	0.220	– –
1.8	0.3	3/SOT-223	2.1 to 6	-40°C to 125°C	MCP1824ST-1802E/DB	NEW SMD 157-8375	0.700	0.530	0.420	– –
1.8	0.3	5/SOT-23	2.1 to 6	-40°C to 125°C	MCP1824T-1802E/OT	NEW SMD 157-8381	0.630	0.470	0.370	– –
1.8	0.5	8/MSOP	2.7 to 5.5	-40°C to 85°C	MCP1602-180I/MS	NEW SMD 157-8360	1.270	0.960	0.760	– –
1.8	0.5	5/TO-220	2.1 to 6	-40°C to 125°C	MCP1825-1802E/AT	NEW 157-8394	1.380	1.040	0.820	– –
1.8	0.5	3/TO-220	2.1 to 6	-40°C to 125°C	MCP1825S-1802E/AB	NEW 157-8399	1.270	0.960	0.760	– –
1.8	0.5	3/SOT-223	2.1 to 6	-40°C to 125°C	MCP1825S-1802E/DB	NEW SMD 157-8400	1.140	0.870	0.680	– –
1.8	0.5	5/SOT-223	2.1 to 6	-40°C to 125°C	MCP1825T-1802E/DC	NEW SMD 157-8408	1.180	0.890	0.700	– –
1.8	1	8/SOIC	2.3 to 6	-40°C to 125°C	MCP1726-1802E/SN	SMD 133-1492	1.180	0.740	0.580	– –
1.8	1	5/TO-220	2.3 to 6	-40°C to 125°C	MCP1826-1802E/AT	NEW 157-8412	1.520	1.150	0.900	– –
1.8	1	3/TO-220	2.3 to 6	-40°C to 125°C	MCP1826S-1802E/AB	NEW 157-8417	1.480	1.120	0.880	– –
1.8	1	3/SOT-223	2.3 to 6	-40°C to 125°C	MCP1826S-1802E/DB	NEW SMD 157-8419	1.230	0.930	0.730	– –
1.8	1	5/SOT-223	2.3 to 6	-40°C to 125°C	MCP1826T-1802E/DC	NEW SMD 157-8427	1.300	0.990	0.780	– –
1.8	1.5	8/SOIC	2.3 to 6	-40°C to 125°C	MCP1727-1802E/SN	SMD 133-1495	1.240	0.780	0.610	– –
2.5	0.3	3/SOT-223	2.1 to 6	-40°C to 125°C	MCP1824ST-2502E/DB	NEW SMD 157-8377	0.700	0.530	0.420	– –
2.5	0.3	5/SOT-223	2.1 to 6	-40°C to 125°C	MCP1824T-2502E/DC	NEW SMD 157-8382	0.700	0.530	0.420	– –
2.5	0.3	5/SOT-23	2.1 to 6	-40°C to 125°C	MCP1824T-2502E/OT	NEW SMD 157-8383	0.630	0.470	0.370	– –
3.0	0.15	5/SOT-23	2 to 10	-40°C to 85°C	MCP1801T-3002I/OT	NEW SMD 157-8369	0.540	0.410	0.320	– –
3.0	0.25	3/TO-92	2.3 to 6	-40°C to 125°C	MCP1700-3002E/TO	SMD 133-1480	0.320	0.196	0.157	– –
3.0	0.25	3/SOT-23	2.3 to 6	-40°C to 125°C	MCP1700T-3002E/TT	SMD 133-1482	0.320	0.196	0.157	– –
3.0	0.25	3/TO-92	2.7 to 13.2	-40°C to 125°C	MCP1702-3002E/TO	SMD 133-1484	0.430	0.280	0.220	– –
3.0	0.25	3/SOT-23	2.7 to 13.2	-40°C to 125°C	MCP1702T-3002E/CB	SMD 133-1489	0.430	0.280	0.220	– –
3.0	0.3	5/SOT-223	2.1 to 6	-40°C to 125°C	MCP1824T-3002E/DC	NEW SMD 157-8384	0.700	0.530	0.420	– –
3.0	0.3	5/SOT-23	2.1 to 6	-40°C to 125°C	MCP1824T-3002E/OT	NEW SMD 157-8385	0.630	0.470	0.370	– –
3.0	0.3	3/SOT-223	2.1 to 6	-40°C to 125°C	MCP1824ST-3002E/DB	NEW SMD 157-8378	0.700	0.530	0.420	– –
3.0	0.3	5/SOT-23	2 to 10	-40°C to 85°C	MCP1802T-3002I/OT	NEW SMD 157-8373	0.730	0.550	0.440	– –
3.0	0.5	5/TO-220	2.1 to 6	-40°C to 125°C	MCP1825-3002E/AT	NEW 157-8395	1.380	1.040	0.820	– –
3.0	0.5	3/TO-220	2.1 to 6	-40°C to 125°C	MCP1825S-3002E/AB	NEW 157-8401	1.270	0.960	0.760	– –
3.0	0.5	3/SOT-223	2.1 to 6	-40°C to 125°C	MCP1825S-3002E/DB	NEW SMD 157-8402	1.140	0.870	0.680	– –
3.0	0.5	5/SOT-223	2.1 to 6	-40°C to 125°C	MCP1825T-3002E/DC	NEW SMD 157-8409	1.180	0.890	0.700	– –
3.0	1	3/TO-220	2.3 to 6	-40°C to 125°C	MCP1826S-3002E/AB	NEW 157-8421	1.480	1.120	0.880	– –

RL Re-reeling available

Output Voltage (V)	Output Current (A)	Pins/Pkg	Input Voltage Range (V)	Operating Temp. Range	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	+
3.0	1	3/SOT-223	2.3 to 6	-40°C to 125°C	MCP1826S-3002E/DB	NEW SMD 157-8422	1.230	0.930	0.730	– –
3.0	1	5/SOT-223	2.3 to 6	-40°C to 125°C	MCP1826T-3002E/DC	NEW SMD 157-8428	1.300	0.990	0.780	– –
3.0	1.5	8/SOIC	2.3 to 6	-40°C to 125°C	MCP1727-3002E/SN	SMD 133-1496	1.240	0.780	0.610	– –
3.3	0.15	5/SOT-23	2 to 10	-40°C to 85°C	MCP1801T-3302I/OT	NEW SMD 157-8370	0.540	0.410	0.320	– –
3.3	0.25	3/TO-92	2.7 to 13.2	-40°C to 125°C	MCP1702-3302E/TO	133-1485	0.430	0.280	0.220	– –
3.3	0.25	3/SOT-23	2.7 to 13.2	-40°C to 125°C	MCP1702T-3302E/CB	SMD 133-1490	0.430	0.280	0.220	– –
3.3	0.3	3/SOT-223	2.1 to 6	-40°C to 125°C	MCP1824ST-3302E/DB	NEW SMD 157-8379	0.700	0.530	0.420	– –
3.3	0.3	5/SOT-223	2.1 to 6	-40°C to 125°C	MCP1824T-3302E/DC	NEW SMD 157-8386	0.700	0.530	0.420	– –
3.3	0.3	5/SOT-23	2.1 to 6	-40°C to 125°C	MCP1824T-3302E/OT	NEW SMD 157-8387	0.630	0.470	0.370	– –
3.3	0.5	5/TO-220	2.1 to 6	-40°C to 125°C	MCP1825-3302E/AT	NEW 157-8396	1.380	1.040	0.820	– –
3.3	0.5	3/TO-220	2.1 to 6	-40°C to 125°C	MCP1825S-3302E/AB	NEW 157-8403	1.270	0.960	0.760	– –
3.3	0.5	3/SOT-223	2.1 to 6	-40°C to 125°C	MCP1825S-3302E/DB	NEW SMD 157-8404	1.140	0.870	0.680	– –
3.3	0.5	5/SOT-223	2.1 to 6	-40°C to 125°C	MCP1825T-3302E/DC	NEW SMD 157-8410	1.180	0.890	0.700	– –
3.3	0.5	8/MSOP	2.7 to 5.5	-40°C to 85°C	MCP1602-330I/MS	NEW SMD 157-8359	1.270	0.960	0.760	– –
3.3	1	8/SOIC	2.3 to 6	-40°C to 125°C	MCP1726-3302E/SN	SMD 133-1493	1.180	0.740	0.580	– –
3.3	1	5/TO-220	2.3 to 6	-40°C to 125°C	MCP1826-3302E/AT	NEW 157-8413	1.520	1.150	0.900	– –
3.3	1	3/TO-220	2.3 to 6	-40°C to 125°C	MCP1826S-3302E/AB	NEW 157-8423	1.480	1.120	0.880	– –
3.3	1	3/SOT-223	2.3 to 6	-40°C to 125°C	MCP1826S-3302E/DB	NEW SMD 157-8424	1.230	0.930	0.730	– –
3.3	1	5/SOT-223	2.3 to 6	-40°C to 125°C	MCP1826T-3302E/DC	NEW SMD 157-8429	1.300	0.990	0.780	– –
3.3	1.5	8/SOIC	2.3 to 6	-40°C to 125°C	MCP1727-3302E/SN	SMD 133-1497	1.240	0.780	0.610	– –
5.0	0.15	5/SOT-23	2 to 10	-40°C to 85°C	MCP1801T-5002I/OT	NEW SMD 157-8371	0.540	0.410	0.320	– –
5.0	0.25	3/TO-92	2.3 to 6	-40°C to 125°C	MCP1700-5002E/TO	SMD 133-1481	0.270	0.168	0.134	– –
5.0	0.25	3/TO-92	2.7 to 13.2	-40°C to 125°C	MCP1702-5002E/TO	SMD 133-1487	0.430	0.280	0.220	– –
5.0	0.25	3/SOT-23	2.7 to 13.2	-40°C to 125°C	MCP1702T-5002E/CB	SMD 133-1491	0.460	0.290	0.230	– –
5.0	0.3	5/SOT-23	2 to 10	-40°C to 85°C	MCP1802T-5002I/OT	NEW SMD 157-8372	0.730	0.550	0.440	– –
5.0	0.3	3/SOT-223	2.1 to 6	-40°C to 125°C	MCP1824ST-5002E/DB	NEW SMD 157-8380	0.700	0.530	0.420	– –
5.0	0.3	5/SOT-223	2.1 to 6	-40°C to 125°C	MCP1824T-5002E/DC	NEW SMD 157-8389	0.700	0.530	0.420	– –
5.0	0.3	5/SOT-23	2.1 to 6	-40°C to 125°C	MCP1824T-5002E/OT	NEW SMD 157-8391	0.630	0.470	0.370	– –
5.0	0.5	5/TO-220	2.1 to 6	-40°C to 125°C	MCP1825-5002E/AT	NEW 157-8397	1.380	1.040	0.820	– –
5.0	0.5	3/TO-220	2.1 to 6	-40°C to 125°C	MCP1825S-5002E/AB	NEW 157-8405	1.270	0.960	0.760	– –
5.0	0.5	3/SOT-223	2.1 to 6	-40°C to 125°C	MCP1825S-5002E/DB	NEW SMD 157-8407	1.140	0.870	0.680	– –
5.0	0.5	5/SOT-223	2.1 to 6	-40°C to 125°C	MCP1825T-5002E/DC	NEW SMD 157-8411	1.180	0.890	0.700	– –
5.0	1	8/SOIC	2.3 to 6	-40°C to 125°C	MCP1726-5002E/SN	SMD 133-1494	1.180	0.740	0.580	– –
5.0	1	5/TO-220	2.3 to 6	-40°C to 125°C	MCP1826-5002E/AT	NEW 157-8414	1.520	1.150	0.900	– –
5.0	1	3/TO-220	2.3 to 6	-40°C to 125°C	MCP1826S-5002E/AB	NEW 157-8425	1.480	1.120	0.880	– –
5.0	1	3/SOT-223	2.3 to 6	-40°C to 125°C	MCP1826S-5002E/DB	NEW SMD 157-8426	1.230	0.930	0.730	– –
5.0	1	5/SOT-223	2.3 to 6	-40°C to 125°C	MCP1826T-5002E/DC	NEW SMD 157-8430	1.300	0.990	0.780	– –
5.0	1.5	8/SOIC	2.3 to 6	-40°C to 125°C	MCP1727-5002E/SN	NEW SMD 133-1499	1.240	0.780	0.610	– –
Einstellbar										
0.8 bis 4.5	0.5	8/MSOP	2.7 to 5.5	-40°C to 85°C	MCP1602-ADJI/MS	NEW SMD 157-8361	1.270	0.960	0.760	– –
0.8 bis 5	0.3	5/SOT-223	2.1 to 6	-40°C to 125°C	MCP1824T-ADJE/DC	NEW SMD 157-8392	0.700	0.530	0.420	– –
0.8 bis 5	0.3	5/SOT-23	2.1 to 6	-40°C to 125°C	MCP1824T-ADJE/OT	NEW SMD 157-8393	0.630	0.470	0.370	– –
0.8 bis 5	0.5	5/TO-220	2.1 to 6	-40°C to 125°C	MCP1825-ADJE/AT	NEW 157-8398	1.380	1.040	0.820	– –
0.8 bis 5	1	5/SOT-223	2.3 to 6	-40°C to 125°C	MCP1826T-ADJE/DC	NEW SMD 157-8432	1.300	0.990	0.780	– –
0.8 bis 5	1	5/TO-220	2.3 to 6	-40°C to 125°C	MCP1826-ADJE/AT	NEW 157-8415	1.520	1.150	0.900	– –

TC1016/17 LDO Linear Regulator Evaluation Board



The TC1016/17 LDO Linear Regulator Evaluation Board contains two independent LDO circuits that allow the user to evaluate the TC1016 and TC1017 devices in the 5-pin SC-70 (3.0V Output) and the 5-pin SOT-23 (1.8V Output) packages. Any of the available output voltage values of the devices (1.2V to 5.0V) can be used on this board.

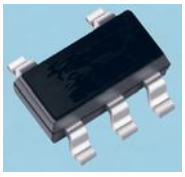
Features:
- Input Voltage Range: 2.7V to 6.0V
- Additional Input and Output Capacitor Value Selection Capability via Jumpers
- Output Voltage Shutdown via the SHDN Inputs
- Overcurrent Protection (device feature)
- Overtemperature Protection (device feature)
- Line and Load Step Testing Capability

Kit includes:
- TC1016/17 LDO Evaluation Board
- TC1016/17 LDO Evaluation Board User Guide
- TC1016/17 Datasheets

495042

Mftrs. List No.	Description	Order Code	Price Each 1+
TC1016/17EV	TC1016/17 LDO Linear Regulator Evaluation Board	133-2300	22.68

TC1xxx Voltage Regulators



5 / SOT-23

The TC1014/TC1015/TC1185 are 50 mA, 100 mA or 150 mA CMOS Low Dropout Voltage Regulators with Shutdown and Reference Bypass.
The TC1017 are 150mA, Tiny CMOS Low Voltage Dropout Regulators with Shutdown

494009

Pins/Pkg	Output Voltage (V)	Output Current (A)	Typ Output Voltage Tolerance (%)	Input Voltage Range (V)	Operating Temp. Range	Mftrs. List No.	Order Code	Price Each 1+	10+	100+	+
5/SOT-23	1.8	0.15	±0.5	2.7 to 6	-40°C to 125°C	TC1017-1.8VCTTR	SMD 133-1507	0.380	0.280	0.240	– –
5/SOT-23	1.8	0.15	±0.5	2.7 to 6	-40°C to 125°C	TC1185-1.8VCT713	SMD 133-1510	0.350	0.270	0.220	– –
5/SOT-23	3	0.05	±0.5	2.7 to 6	-40°C to 125°C	TC1014-3.0VCT713	SMD 133-1501	0.320	0.250	0.196	– –
5/SOT-23	3.0	0.15	±0.5	2.7 to 6	-40°C to 125°C	TC1017-3.0VCTTR	SMD 133-1508	0.380	0.280	0.240	– –
5/SOT-23	3.3	0.05	±0.5	2.7 to 6	-40°C to 125°C	TC1014-3.3VCT713	SMD 133-1502	0.320	0.250	0.196	– –
5/SOT-23	3.3	0.1	±0.5	2.7 to 6	-40°C to 125°C	TC1015-3.3VCT713	SMD 133-1505	0.340	0.260	0.210	– –
5/SOT-23	3.3	0.15	±0.5	2.7 to 6	-40°C to 125°C	TC1017-3.3VCTTR	SMD 133-1509	0.380	0.280	0.240	– –
5/SOT-23	5.0	0.05	±0.5	2.7 to 6	-40°C to 125°C	TC1014-5.0VCT713	SMD 133-1503	0.330	0.240	0.200	– –
5/SOT-23	5.0	0.1	±0.5	2.7 to 6	-40°C to 125°C	TC1015-5.0VCT713	SMD 133-1506	0.320	0.250	0.196	– –
5/SOT-23	5.0	0.15	±0.5	2.7 to 6	-40°C to 125°C	TC1185-5.0VCT713	SMD 133-1511	0.350	0.270	0.220	– –

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Reference Design & Evaluation Boards

Evaluation Boards



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497081

Description	Mftrs. List No.	Order Code	Price Each 1+
Audio			
Low voltage audio power stereo amplifier based on TS4984IQT	STEVAL-CCA003V1	152-6997	28.71
Factory automation			
ARMIC30, ARM Core-based CAN Industrial Controller using STR730 MCU	STEVAL-IFN002V1	129-2068●	82.96
3 axis MEMS accelerometer demo	STEVAL-IFS001V1	129-2072●	27.25
MEMS 3-Axis - ±2g/±6g Digital Output Low Voltage Linear Accelerometer Evaluation Board based on LIS3LV02DL (EK3LV02DL)	STEVAL-MKI005V1	152-7012	38.29
MEMS 3-Axis - ±2g/±8g Digital Output Low Power Linear Accelerometer Evaluation Board based on LIS302DL (EK302DL)	STEVAL-MKI006V1	152-7013	38.29
Lighting			
Carte d'évaluation w/ OSRAM LEDs	STEVAL-ILL002V3	150-0150	49.85
Phase Control Dimmer Board based on Ultralite Micro 8 Pins	STEVAL-ILL004V2	129-2089●	27.69
High Intensity LED driver for MR-16 format based on L5973D	STEVAL-ILL007V1	129-2093●	31.94
RGB Color Control board based on STP04CM596	STEVAL-ILL009V1	152-7000	33.93
OSTAR Projection Module	STEVAL-ILL009V3	152-7001	33.93
High Intensity LED Dimming Driver based on L6902	STEVAL-ILL010V1	152-7002	25.23
Power supply and power management			
3 Phase Power Supply with ESBT (150W)	STEVAL-ISA007V1	129-2101●	73.54
VIPer53 Dual Output Off-line, wide range Power Supply , 24W Output	STEVAL-ISA013V1	129-2104●	57.20
VIPer53 Single Output Reference Board 90 to 264VAC Input, 24W Output	STEVAL-ISA009V1	152-7004	62.64

ICs in Full-Tubes & Waffle Tray Packaging

ICs in Full Tube Quantities

These devices are now available to order in full tubes, the quantity in each tube is shown below.

497272

Mftrs. List No.	Mftr.	Pins/Pkg	Description	Tube Quantity	Order Code	Price per Tube
24LC256-I/P	MCHIP	8/DIP	256K (32K × 8) Serial CMOS EEPROM - Low Voltage (IND TEMP)	90	152-3918●	46.80
24LC256-I/SM	MCHIP	8/SOIC	256K (32K × 8) Serial CMOS EEPROM - Low Voltage (IND TEMP, 207 mil)	100	NEW SMD 164-9694●	70.20
24LC256-I/SN	MCHIP	8/SOIC	256K (32K × 8) Serial CMOS EEPROM - Low Voltage (IND TEMP)	60	NEW SMD 166-0005●	54.00
24LC256-I/SM	MCHIP	8/SOIC	256K (32K × 8) Serial CMOS EEPROM - Low Voltage (IND TEMP, 207 mil)	90	NEW SMD 164-9694●	70.20
24LC512-I/P	MCHIP	8/DIP	512K (64K × 8) Serial CMOS EEPROM - Low Voltage (IND TEMP)	90	NEW 166-0008●	84.00
24LC512-I/SM	MCHIP	8/SOIC	512K (64K × 8) Serial CMOS EEPROM - Low Voltage (IND TEMP)	15	NEW SMD 166-0009●	126.00
A623308A-70SF	AMIC	28/DIP	64K (8K × 8) CMOS SRAM, 70ns acc	13	NEW 166-1744●	25.46
AD1674JNZ	ADI	28/DIP	12-BIT ADC	25	152-3878●	231.19
AD557JNZ	ADI	16/DIP	8-BIT DAC	25	152-3885●	163.06
AD558JNZ	ADI	16/DIP	8-BIT DAC	13	152-3778●	230.28
AD574AJNZ	ADI	28/DIP	12-BIT ADC	50	152-3774●	305.95
AD620ANZ	ADI	8/DIP	Low Power, Instrumentation Amp. 1 external resistor sets Gains of 1 to 1000	50	152-3782●	223.66
AD623ANZ	ADI	8/DIP	Single Supply, Rail-to-Rail Instrumentation Amp. Gain range 1 to1000, set by an external resistor	13	152-3881●	130.21
AD679JNZ	ADI	28/DIP	14-BIT ADC	50	152-3773●	463.00
AD712JNZ	ADI	8/DIP	Dual, BI-FET High Speed Operational Amp	18	152-3898●	125.39
AD7226KNZ	ADI	20/DIP	IC, 8-BIT DAC, 4-Channel	18	152-3779●	296.45
AD7248JNZ	ADI	20/DIP	12-BIT DAC	25	152-3780●	155.17
AD7524JNZ	ADI	16/DIP	8-BIT DAC, CMOS	15	152-3901●	105.20
AD7537JNZ	ADI	24/DIP	12-BIT DAC, 2-Channel	25	152-3781●	193.50
AD7705BNZ	ADI	16/DIP	16-BIT ADC, 2-Channel, Sigma Delta	15	152-3876●	145.58
AD7710ANZ	ADI	24/DIP	21-Bit SigmA-Delta Signal Conditioning ADC. Strain gauge or transducer Input, serial output, on-Board Programmable Gain Amp, Voltage Ref	15	152-3900●	330.41
AD7870JNZ	ADI	24/DIP	12-BIT ADC	13	152-3775●	367.12
AD7871JNZ	ADI	28/DIP	14-BIT ADC, Sampling	50	152-3777●	732.58
AD797ANZ	ADI	8/DIP	Ultra Low Noise, Ultra Low Distortion, Amp. - ideal for use as a Pre-Amp.	50	152-3883●	305.63
AD8307ANZ	ADI	8/DIP	DC-500MHz, 92dB DemodulatingLogarithmic Amp	50	152-3772●	362.30
AD847JNZ	ADI	8/DIP	High Speed, Low Power Operational Amp., 50MHz unity Gain bandwidth. Stability not affected by capacitive loading. 120ns settling time to 0.1%..	30	152-3891●	196.52
AM29F010B-70JD	SPN	32/PLCC	1Mb (128K x 8) Flash, 5V only, CMOS Memory - 70ns acc.	11	NEW SMD 166-1769●	37.36
AM29F040B-120PD	SPN	32/DIP	4Mb (512K x 8) Flash, 5V only, CMOS Memory - 120ns acc.	50	NEW 166-1770●	22.46
AMP02FPZ	ADI	8/DIP	High Accuracy, Low Noise, Low Offset, Instrumentation Amp. - 1 external resistor sets Gain from 1 to 10,000	50	152-3899●	361.70
AMP04FPZ	ADI	8/DIP	Precision Single Supply Instrumentation Amp. - 1 external resistor sets Gain from 1 to 1000	94	152-3884●	368.93
AT24C1024BW-SH25-B	ATM	8/SOIC	1M (128K × 8) 2-Wire Serial EEPROM	14	NEW SMD 166-1724●	339.74
AT27C256R-70PU	ATM	28/DIP	256K (32K × 8) CMOS OTP EPROM - 70ns Access	14	NEW 166-1725●	17.60
AT28C256-15PU	ATM	28/DIP	256K (32K × 8) CMOS Paged Parallel EEPROM - 150ns Access.	14	152-3791●	57.04
AT28C64B-15PU	ATM	28/DIP	64K (8K × 8) CMOS Parallel EEPROM With Page Write and DSP - 150ns Access	94	152-3792●	35.71
AT45DB321D-SU	ATM	8/SOIC	32MB, 2.7-volt, DataFlash, SPI, RapidS Serial Interface	27	NEW SMD 166-1726●	242.02
AT89C51ED2-SLSUM	ATM	44/PLCC	High-Performance 8-Bit CMOS Flash MCU With Data EEPROM	10	NEW SMD 166-1727●	148.83
ATMEGA16-16PU	ATM	40/DIP	8-Bit CMOS MCU, 16K ISP Flash, 1Kbytes RAM, 32 I/O Lines, 16MHZ.	14	152-3819●	32.64
ATMEGA168-20PU	ATM	28/DIP	8-Bit CMOS MCU, 16K Flash, 1K bytes RAM, 23 I/O Lines, 20MHz (IND TEMP)	10	NEW 166-1728●	31.48
ATMEGA32-16PU	ATM	40/DIP	8-Bit CMOS MCU, 32K Flash, 2kbytes RAM, 32 I/O Lines, 16MHz	14	NEW 166-1729●	35.78
ATMEGA8-16PU	ATM	28/DIP	8-Bit CMOS MCU, 8K Flash, 1kbytes RAM, 23 I/O Lines, 16MHz (IND TEMP)	14	152-3821●	25.39
ATMEGA88-20PU	ATM	28/DIP	8-Bit CMOS MCU, 8K Flash, 1K bytes RAM, 23 I/O Lines, 20MHz (IND TEMP)	37	NEW 166-1730●	24.37
ATTINY2313-20SU	ATM	20/SOIC	8-Bit CMOS MCU, 2K Flash, 128bytes RAM, 18 I/O Lines, 20MHz	50	NEW SMD 166-1731●	35.78
CA3140EZ	INTS	8/DIP	Operational Amp. With MOS/FET Input, Bipolar Output	27	152-3902●	13.24
CY6264-70SNXC	CYP	28/SOIC	64K (8K × 8) CMOS SRAM, 70ns acc	10	NEW SMD 166-1771●	73.91
DS80C320-MCG+	MAX	40/DIP	8-Bit CMOS CPU, 256 bytes RAM - 25MHz	50	152-3915●	72.67
FM24C256-G	RAM	8/SOIC	256K (32768 x 8) Serial FRAM Memory	100	NEW SMD 166-1773●	593.50
FM24C64-G	RAM	8/SOIC	Serial FRAM - 1MHz Bus speed	100	NEW SMD 166-1774●	171.36
FM24CL64-G	RAM	8/SOIC	64K (8192 x 8) Serial FRAM Memory, 1MHz Bus speed, I²C	100	NEW SMD 166-1775●	193.80
FM25CL64-G	RAM	8/SOIC	64K (8192 x 8) Serial FRAM Memory, High-speed, SPI	8	NEW SMD 166-1776●	193.80
HD6473258P10V	REN	64/DIP	8-Bit CMOS Microcontroller, 32Kb OTP PROM, 1024 bytes RAM, 53 I/O lines - 10MHz	18	152-3809●	187.35
HIP4081AIPZ	INTS	20/DIP	High Frequency MOSFET Driver With UnderVoltage Protection (Independent control of all 4 MOSFETs)	50	152-3905●	62.34
ICL7660SCPAZ	INTS	8/DIP	CMOS Voltage Converter, operates 1.5 to 12V (improved ICL7660CPA)	50	152-3904●	38.66
ICL7662CPA+	MAX	8/DIP	Voltage Convertor	50	152-3815●	96.13
ICL7667CPAZ	INTS	8/DIP	Dual MOSFET Driver	18	152-3903●	50.85
IDT7133SA35JG	IDT	68/PLCC	32K (2K x 16) CMOS Dual-Port SRAM, 35ns acc.	26	NEW SMD 166-1746●	217.53
IDT7204L12SOG	IDT	28/SOIC	4K x 9 CMOS ASYNC FIFO, 12ns acc.	25	NEW SMD 166-1745●	184.15
IR2110PBF	IR	14/DIP	One Side Hi Volt/SeparateLogic & Power Ground	16	152-3817●	53.68
ISO120G	BB	24/DIP	Precision Isolation Amp. 1500Vrms, bandwidth 60kHz (0.3" wide package)	50	152-3794●	1,422.97
L165V	ST	5/Pentawatt	Power Operational Amp. 3A output	50	152-3786●	125.88

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Mftrs. List No.	Mftr.	Pins/Pkg	Description	Tube Quantity	Order Code	Price per Tube
L200CV	ST	5/Pentawatt	2.8V to 36V Adjustable Voltage Regulator & Current Regulator	25	152-3787●	69.26
L293N	UNI	16/DIP	Push-Pull Four Channel Driver - 2A output, 36V supply	20	152-3797●	150.29
L7805CV	ST	3/TO-220	5V Voltage Regulator	50	152-3916●	18.68
L7812CV	ST	3/TO-220	12V Voltage Regulator	40	152-3917●	18.68
LF356N	NSC	8/DIP	BI-FET General Purpose Operational Amp	45	152-3837●	22.88
LM1086CS-3.3	NSC	3/TO-263 (D2-Pak)	1.5A , LDO	75	SMD 152-3852●	44.81
LM1117DT-3.3	NSC	3/TO-252 (D-Pak)	800mA Low-Dropout Linear Regulator	40	SMD 152-3829●	47.67
LM2574HVN-5.0	NSC	8/DIP	0.5A High-Voltage Step-down Voltage Regulator	40	152-3850●	107.62
LM2574HVN-ADJ	NSC	8/DIP	0.5A High Voltage, Step-down Voltage Regulator	45	152-3851●	114.39
LM2575HVT-5.0	NSC	5/TO-220	1A, 5V Step-down Voltage Regulator.	45	152-3848●	154.44
LM2575HVT-ADJ	NSC	5/TO-220	1A, Adjustable Step-down Voltage Regulator.	45	152-3847●	154.44
LM2575S-5.0	NSC	5/TO-263 (D2-Pak)	1A, 5V Step-down Voltage Regulator	45	SMD 152-3849●	70.54
LM2575T-5.0	NSC	5/TO-220	Simple Switcher 1A Step-Down Voltage Regulator	45	152-3839●	65.78
LM2576T-5.0	NSC	5/TO-220	Simple Switcher 3A Step-Down Voltage Regulator	45	152-3840●	109.15
LM2577-ADJ	NSC	5/TO-220	Simple Switcher Step-Up Voltage Regulator	45	152-3811●	202.58
LM2587T-ADJ	NSC	5/TO-220	Simple Switcher 5A Flyback Regulator	45	152-3860●	257.87
LM2592HVS-ADJ	NSC	5/TO-263 (D2-Pak)	Simple Switcher Power Converter 150 kHz 2A Step Down Voltage Regulator	45	SMD 152-3816●	157.77
LM2592HVT-ADJ	NSC	5/TO-220	2A Step-down Voltage Regulator, adjustable output	45	152-3845●	133.94
LM2596S-ADJ	NSC	5/TO-263 (D2-Pak)	Simple Switcher Power Converter 150 KHz 3A Step-Down Voltage Regulator	45	SMD 152-3864●	114.39
LM2596T-ADJ	NSC	5/TO-220	Simple Switcher Power Converter 150 KHz 3A Step-Down Voltage Regulator	45	152-3863●	154.44
LM2678T-ADJ	NSC	7/TO-220	Simple Switcher High Efficiency 5A Step-Down Voltage Regulator	20	152-3827●	254.06
LM2679S-ADJ	NSC	7/TO-263 (D2-Pak)	Simple Switcher 5A Step-Down Voltage Regulator With Adjustable Current Limit	12	SMD 152-3828●	102.39
LM2825N-5.0	NSC	24/DIP	Integrated Power Supply 1A DC-DC Converter	45	152-3862●	315.99
LM2940CT-5.0	NSC	3/TO-220	1A Low Dropout Regulator	45	152-3853●	36.23
LM2940S-5.0	NSC	3/TO-263 (D2-Pak)	1A Low Dropout Regulator	45	SMD 152-3865●	43.85
LM2940T-10.0	NSC	3/TO-220	1A Low Dropout Regulator	45	152-3859●	53.39
LM2940T-5.0	NSC	3/TO-220	1A Low Dropout Regulator	45	152-3854●	36.23
LM317AT	NSC	3/TO-220	3-Terminal Adjustable Regulator	45	152-3841●	37.18
LM317HVT	NSC	3/TO-220	3-Terminal Adjustable Regulator	45	152-3823●	64.82
LM317S	NSC	3/TO-263 (D2-Pak)	3-Terminal Adjustable Regulator	45	SMD 152-3866●	40.99
LM317T	NSC	3/TO-220	3-Terminal Adjustable Regulator	50	152-3842●	30.51
LM317T	ST	3/TO-220	1.2V to 37V Adjustable Voltage Regulator	25	152-3978●	24.70
LM324AN	NSC	14/DIP	Quad, Operational Amp	25	152-3835●	24.89
LM324N	NSC	14/DIP	Quad, Operational Amp	45	152-3836●	12.18
LM337T	NSC	3/TO-220	3-Terminal Adjustable Negative Regulator	45	152-3844●	38.14
LM340T-12	NSC	3/TO-220	Series 3-Terminal Positive Regulators	45	152-3856●	30.99
LM340T-15	NSC	3/TO-220	Series 3-Terminal Positive Regulators	40	152-3857●	31.46
LM358N	NSC	8/DIP	Dual, Low Power, Single Supply, Operational Amp.	20	152-3834●	14.40
LM3886TF	NSC	11/TO-220	Hi-Performance 68W Audio Power Amp With mute.	20	152-3846●	76.27
LM3914N-1	NSC	18/DIP	LED Bar /Dot Display Driver - 10 Linear Steps (replaces LM3914N)	40	152-3830●	35.80
LM6142BIN	NSC	8/DIP	Dual, High Speed, Low Power, 17MHz Rail-to-Rail, Input-Output Operational Amp	45	152-3858●	130.50
LM675T	NSC	5/TO-220	Power Operational Amp - 3A output.	40	152-3832●	150.14
LM741CN	NSC	8/DIP	Compensated Operational Amp	50	152-3833●	11.86
LM7805CT	FCH	3/TO-220	3-Terminal 1A Positive Voltage Regulator, 4% Output Voltage Accuracy	40	152-3798●	13.18
LMC6482IN	NSC	8/DIP	Dual, Rail-to-Rail Input and Output, CMOS Operational Amp.	25	152-3824●	50.42
LMC6484IN	NSC	14/DIP	Quad, Rail-to-Rail Input and Output, CMOS, Operational Amp.	60	152-3825●	63.03
LMD18245T	NSC	15/TO-220	3A, 55V DMOS Full-Bridge Motor Driver.	25	152-3861●	755.66
LT1014CN#PBF	LT	14/DIP	Quad, Low Power, Precision Operational Amp	50	152-3868●	145.56
LT1074CT#PBF	LT	5/TO-220	5A Switching Regulator optimised for use in Step-Down, "flyback" and other configurations. Input 5 to 45V	50	152-3869●	252.82
LT1076CT#PBF	LT	5/TO-220	2A Adj. Switching Regulator as LT1074CT.	50	152-3870●	176.80
LT1085CT#PBF	LT	3/TO-220	Adjustable LDO Regulator	50	152-3871●	178.57
LT1086CT#PBF	LT	3/TO-220	Adjustable LDORegulator, +1.2/29V	50	152-3872●	102.55
LTC1298CN8#PBF	LT	8/DIP	12-BIT ADC, 2-Channel	50	152-3873●	270.51
LTC1451CN8#PBF	LT	8/DIP	12-BIT DAC, CMOS	49	152-3874●	236.32
M25P16-VMF6P	ST	16/SOIC	16Mb (2Mb × 8) Serial Flash Memory - SPI Interface (IND TEMP).	100	NEW SMD 166-1751●	92.96
M25P40-VMN6P	ST	8/SOIC	4Mb (512K × 8) Serial Flash Memory -SPI interface (IND TEMP)	90	NEW SMD 166-1752●	157.08
M25P80-VMW6G	ST	8/WSOIC	8Mb (1M × 8) Serial Flash Memory -SPI interface (IND TEMP)	12	NEW SMD 166-1753●	274.48
M27C1001-12F1	ST	32/DIP	1Mb (128K × 8) CMOS EPROM - 120ns Access, 12.75V VPP	12	NEW 166-1755●	65.92
M27C1001-15F1	ST	32/FDIP32W	1Mb (128K × 8) CMOS EPROM - 35ns Access	12	NEW 166-1756●	29.49
M27C1001-45F1	ST	32/DIP	1Mb (128K × 8) CMOS OTP PROM - 45ns Access, 12.75V VPP	12	NEW 166-1757●	56.81
M27C2001-10F1	ST	32/FDIP32W	2Mb (256K × 8) CMOS EPROM - 55ns Access	13	NEW 166-1758●	62.16
M27C256B-15F1	ST	28/DIP	256K (32K × 8) CMOS EPROM - 150ns Access, 12.75V VPP.	12	NEW 166-1761●	26.62
M27C4001-10F1	ST	32/FDIP32W	4Mb (512K × 8) CMOS EPROM - 35ns Access	13	NEW 166-1762●	65.63
M27C512-90F6	ST	28/DIP	512k (64k × 8) CMOS EPROM 90ns Access, 12.75V VPP	13	NEW 166-1763●	37.75
M27C64A-10F1	ST	28/DIP	64K (8K × 8) EPROM - 100ns Access, 12.5V VPP.	12	NEW 166-1764●	41.82
M48T08-100PC1	ST	28/DIP	64K (8K × 8) TIMEKEEPER® SRAM, 100ns acc	12	NEW 166-1765●	185.61
M48Z08-100PC1	ST	28/DIP	64K (8K × 8) ZEROPower® SRAM - 100ns Access VCC=4.75V to 5.5V	12	NEW 166-1766●	120.56
M48Z18-100PC1	ST	28/DIP	64K (8K × 8) ZEROPower® SRAM - 100ns Access VCC=4.5V to 5.5V	100	NEW 166-1767●	120.56
M95128-WMN6P	ST	8/SOIC	128K (16K × 8) Serial CMOS EEPROM - Low Voltage (IND TEMP)	50	NEW SMD 166-1768●	146.96
MAX1232CPA+	MAX	8/DIP	Low Power CMOS Micro-Monitor	18	152-3911●	99.57
MAX186DCPP+	MAX	20/DIP	12-BIT ADC, Low Power	25	152-3805●	240.80
MAX691ACPE+	MAX	16/DIP	Microprocessor Supervisory Circuit	25	152-3912●	80.39
MAX691CPE+	MAX	16/DIP	Microprocessor Supervisory Circuit	15	152-3913●	110.72
MAX7219CNG+	MAX	24/DIP	8-digit, Serially Interfaced, LED Display Driver (C.C. Display), µP interface.	25	152-3914●	92.01
MC14490PG	ON	16/DIP	Hex Bounce Eliminator	25	152-3906●	74.95
MC14584BCPG	ON	14/DIP	Hex Schmitt Trigger	26	152-3907●	11.05
MC68HC705C8ACFNE	FSL	44/PLCC	8-Bit MCU	23	NEW SMD 166-1748●	156.55
MC68HC711E9CFNE2	FSL	52/PLCC	8-Bit MCU, 512 bytes RAM, 12K bytes OTP PROM, 38 I/O ports, multiplexed Bus, timer and ADC. PLCC Package	50	NEW SMD 166-1749●	315.23
MC7805CTG.	ON	3/TO-220	Regulator +5.0V	60	152-3908●	16.27
MCP3201-CI/P	MCHIP	8/DIP	12-BIT ADC, CMOS	50	152-3919●	67.80
MIC29152WT	MICR	5/TO-220	Adjustable Regulator +2.3/26V	9	152-3814●	207.35
MM5453N	NSC	40/DIP	Serial In/Parallel Out LCD Driver (Serially Loaded)	50	152-3838●	52.82
MM74C922N	FCH	18/DIP	16 Key KeyBoard Encoder	60	152-3770●	69.00
OP07CP	TI	8/DIP	Precision Operational Amp. - Vos 150µV mAx. Drift 1.8µV/°C mAx.	50	152-3802●	38.45
OP07CPZ	ADI	8/DIP	Precision Operational Amp. - Vos 150µV mAx. Drift 1.6µV/°C mAx.	50	152-3886●	45.81
OP177GPZ	ADI	8/DIP	Ultra-Precision Operational Amp	50	152-3890●	50.64
OP200GPZ	ADI	8/DIP	Dual, Low Offset, Low Power Operational Amp. (improved OP07).	50	152-3893●	178.43
OP270GPZ	ADI	8/DIP	Dual, Low Noise, Precision Operational Amp	50	152-3894●	163.36
OP275GPZ	ADI	8/DIP	Low Noise, Low Distortion, Audio Amp., With a 'Butler' Amplifier front end.	50	152-3882●	68.12
OP27EPZ	ADI	8/DIP	Low Noise Precision Operational Amp (i/p Vos mAx 25µV)	50	152-3875●	168.80
OP27GPZ	ADI	8/DIP	Low Noise Precision Operational Amp (i/p Vos mAx=100µV)	50	152-3887●	78.37
OP290GPZ	ADI	8/DIP	Dual, Precision Low Voltage, MicroPower Operational Amp	25	152-3895●	194.11
OP400GPZ	ADI	14/DIP	Quad, Low Offset, Precision Operational Amp	25	152-3896●	163.36
OP470GPZ	ADI	14/DIP	Quad, Ultra Low Noise Operational Amp	50	152-3897●	114.53
OP90GPZ	ADI	8/DIP	Precision Low Voltage MicroPower Operational Amp	50	152-3888●	135.04

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ICs in Full-Tubes & Waffle Tray Packaging - continued

ICs in Full Tube Quantities - continued

Mftrs. List No.	Mftr.	Pins/Pkg	Description	Tube Quantity	Order Code	Price per Tube
OP97FPZ	ADI	8/DIP	Low Power OP07, High-Precision Operational Amp	50	152-3889	72.34
OPA2134PA	TI	8/DIP	Dual, Low Noise, Low Distortion Audio Amp	50	152-3795	76.90
OPA2604AP	TI	8/DIP	Dual, FET Operational Amp. - Low Noise, Low Distortion, High GBW	60	152-3793	128.17
PIC12F508-I/P	MCHIP	8/DIP	8-Bit Flash Microcontroller	60	152-3803	28.20
PIC12F629-I/P	MCHIP	8/DIP	8-Bit CMOS MCU, 1K Flash, 64 bytes RAM - 20MHz (IND TEMP)	100	152-3920	41.40
PIC12F629-I/SN	MCHIP	8/SOIC	8-Bit CMOS MCU, 1K Flash, 64 bytes RAM - 20MHz (IND TEMP)	60	NEW SMD 166-0010	48.00
PIC12F675-I/P	MCHIP	8/DIP	8-Bit CMOS MCU, 1K Flash, 64 bytes RAM With ADC - 20MHz (IND TEMP)	100	152-3921	45.00
PIC12F675-I/SN	MCHIP	8/SOIC	8-Bit CMOS MCU, 1K Flash, 64 bytes RAM With ADC - 20MHz (IND TEMP)	60	NEW SMD 166-0011	53.00
PIC12F683-I/P	MCHIP	8/DIP	8-Bit CMOS MCU, 2K Flash, 128 bytes RAM - 20MHZ (IND TEMP)	100	152-3923	52.20
PIC12F683-I/SN	MCHIP	8/SOIC	8-bit Microcontoller, 3.5K Flash	25	NEW SMD 166-0012	62.00
PIC16C54A-04/P	MCHIP	18/DIP	8-Bit CMOS MCU, 512b OTP PROM, 25b RAM, 12 I/O lines - 4MHz	25	152-3924	43.25
PIC16C54C-04/P	MCHIP	18/DIP	8-Bit CMOS MCU, 512b OTP PROM, 25b RAM, 12 I/O lines - 4MHz	15	152-3925	25.75
PIC16C55A-04/P	MCHIP	28/DIP	8-Bit CMOS MCU, 512b OTP PROM, 24b RAM, 20 I/O lines - 4MHz	15	152-3784	18.90
PIC16C55-XT/P	MCHIP	28/DIP	8-Bit CMOS MCU, 512b OTP PROM, 24b RAM, 20 I/O lines - 4MHz	15	152-3926	34.20
PIC16C57-XT/P	MCHIP	28/DIP	8-Bit CMOS MCU. 2Kb OTP PROM. 72b RAM. 20 I/O lines	10	152-3927	43.50
PIC16C64A-04/P	MCHIP	40/DIP	8-Bit CMOS EPROM MCU, 2K OTP PROM, 128 bytes RAM - 4MHz	10	152-3928	35.70
PIC16C65B-04/P	MCHIP	40/DIP	8-Bit CMOS EPROM MCU. 4K OTP PROM, 192 bytes RAM - 4MHz	25	152-3929	27.10
PIC16C71-04/P	MCHIP	18/DIP	8-Bit CMOS EPROM MCU With ADC, 1K OTP PROM - 4MHz	25	152-3930	68.50
PIC16C711-04/P	MCHIP	18/DIP	8-Bit CMOS EPROM MCU With ADC, 1K OTP PROM, 68 bytes RAM - 4MHz	25	152-3931	44.50
PIC16C711-20I/P	MCHIP	18/DIP	8-Bit CMOS EPROM MCU With ADC, 1K OTP PROM, 68 bytes RAM - 20MHz (IND TEMP)	15	152-3785	52.75
PIC16C745-I/SP	MCHIP	28/SDIL	8-Bit CMOS EPROM MCU, 8K OTP PROM, 256 Bytes RAM (IND TEMP)	10	152-3932	34.65
PIC16C74A-10/P	MCHIP	40/DIP	8-Bit CMOS EPROM MCU, 4K OTP PROM, 192 bytes RAM - 10MHz	10	152-3933	54.40
PIC16C74B-04/P	MCHIP	40/DIP	8-Bit CMOS MCU, 4K OTP PROM, 192 bytes RAM, 33 I/O lines - 4MHz	10	152-3935	37.00
PIC16C774-I/P	MCHIP	40/DIP	8-Bit CMOS EPROM MCU With ADC, 4K EPROM, 256 bytes RAM, 33 I/O lines - (IND TEMP)	25	152-3936	40.70
PIC16F627A-I/P	MCHIP	18/DIP	8-Bit CMOS EEPROM MCU, 1K Flash, 224 bytes RAM - 20MHz (IND TEMP)	42	NEW 166-0013	28.50
PIC16F627A-I/SO	MCHIP	18/SOIC	8-Bit CMOS EEPROM MCU, 1K Flash, 224 bytes RAM - 20MHz (IND TEMP)	25	NEW SMD 166-0014	48.72
PIC16F628-04/P	MCHIP	18/DIP	8-Bit CMOS EPROM MCU, 2K Flash, 224 bytes RAM - 4MHz	25	152-3937	40.75
PIC16F628A-I/P	MCHIP	18/DIP	8-Bit CMOS EEPROM MCU, 2K Flash, 224 bytes RAM - 20MHz (IND TEMP)	42	152-3938	26.00
PIC16F628A-I/SO	MCHIP	18/SOIC	8-Bit CMOS EEPROM MCU, 2K Flash, 224 bytes RAM - 20MHz (IND TEMP)	30	NEW SMD 166-0016	55.44
PIC16F630-I/P	MCHIP	14/DIP	8-Bit CMOS EEPROM MCU, 1K Flash, 64 bytes RAM - 20MHz (IND TEMP)	57	152-3939	26.10
PIC16F676-I/SL	MCHIP	14/SOIC	8-Bit CMOS EEPROM MCU, 1K Flash, 64 bytes RAM - 20MHz (IND TEMP)	30	NEW SMD 166-0017	49.59
PIC16F684-I/P	MCHIP	14/DIP	8-Bit MCU, 2K Flash, 128 bytes RAM - 20MHZ (IND TEMP)	57	152-3940	29.10
PIC16F684-I/SL	MCHIP	14/SOIC	8-Bit MCU, 2K Flash, 128 bytes RAM - 20MHZ (IND TEMP)	57	NEW SMD 166-0018	50.16
PIC16F688-I/SL	MCHIP	14/SOIC	8-Bit CMOS MCU With ADC, 4Kb Prog, 256 bytes RAM, 12 I/O lines - 20MHz	22	NEW SMD 166-0021	53.01
PIC16F690-I/P	MCHIP	20/DIP	8-Bit CMOS EEPROM MCU With nanoWatt TechnoLogy - 20MHz (IND TEMP)	67	152-3800	27.06
PIC16F690-I/SS	MCHIP	20/SSOP	8-Bit CMOS EEPROM MCU With nanoWatt TechnoLogy - 20MHz (IND TEMP)	15	NEW SMD 166-0022	72.36
PIC16F737-I/SP	MCHIP	28/SDIL	8-Bit MCU. 4K Flash, 368 bytes RAM - 20MHz (IND TEMP)	27	NEW 166-0023	39.00
PIC16F73-I/SO	MCHIP	28/SOIC	8-Bit CMOS Flash EPROM MCU 192 bytes RAM (IND TEMP)	15	NEW SMD 166-0024	65.07
PIC16F73-I/SP	MCHIP	28/SDIL	8-Bit CMOS Flash EPROM MCU 192 bytes RAM (IND TEMP)	10	152-3941	36.15
PIC16F74-I/P	MCHIP	40/DIP	8-Bit CMOS Flash EPROM MCU 192 bytes RAM (IND TEMP)	15	NEW 166-0025	29.40
PIC16F76-I/SP	MCHIP	28/SDIL	8-Bit CMOS EPROM MCU 368 bytes RAM (IND TEMP)	25	NEW 166-0026	45.60
PIC16F818-I/P	MCHIP	18/DIP	8-Bit CMOS EEPROM MCU, 1K Flash, 128 bytes RAM - 20MHz (IND TEMP)	25	152-3942	34.50
PIC16F819-I/P	MCHIP	18/DIP	8-Bit CMOS EEPROM MCU, 2K Flash, 256 bytes RAM - 20MHz (IND TEMP)	42	152-3943	39.25
PIC16F819-I/SO	MCHIP	18/SOIC	8-Bit CMOS EEPROM MCU, 2K Flash, 256 bytes RAM - 20MHz (IND TEMP)	25	NEW SMD 166-0027	67.20
PIC16F84-04/P	MCHIP	18/DIP	8-Bit CMOS EEPROM MCU, 1K Flash, 68 bytes RAM - 4MHz	42	152-3944	79.00
PIC16F84-04/SO	MCHIP	18/SOIC	8-Bit CMOS EEPROM MCU, 1K Flash, 68 bytes RAM - 4MHz	42	NEW SMD 166-0029	134.82
PIC16F84-10/SO	MCHIP	18/SOIC	8-Bit CMOS EEPROM MCU, 1K Flash, 68 bytes RAM - 10MHz	25	NEW SMD 166-0030	144.90
PIC16F84-10I/P	MCHIP	18/DIP	8-Bit CMOS EEPROM MCU, 1K Flash, 68 bytes - 10MHz (IND TEMP)	25	152-3945	93.25
PIC16F84A-04/P	MCHIP	18/DIP	8-Bit CMOS EEPROM MCU, 1K Flash, 68 bytes RAM - 4MHz	25	152-3947	63.25
PIC16F84A-20/P	MCHIP	18/DIP	8-Bit CMOS EEPROM MCU, 1K Flash, 68 bytes RAM - 20MHz	25	NEW 166-0031	67.50
PIC16F84A-20I/P	MCHIP	18/DIP	8-Bit CMOS EEPROM MCU, 1K Flash, 68 bytes RAM - 20MHz (IND TEMP)	27	152-3948	74.25
PIC16F870-I/SO	MCHIP	28/SOIC	8-Bit CMOS EEPROM MCU, 2K Flash, 128 bytes RAM (IND TEMP)	15	NEW SMD 166-0033	56.16
PIC16F870-I/SP	MCHIP	28/SDIL	8-Bit CMOS EEPROM MCU, 2K Flash, 128 bytes RAM (IND TEMP)	15	152-3949	31.20
PIC16F872-I/SP	MCHIP	28/SDIL	8-Bit CMOS MCU, 2K Flash, 128 bytes RAM (IND TEMP)	15	152-3950	31.20
PIC16F873-04/SP	MCHIP	28/SDIL	8-Bit CMOS MCU. 4K Flash, 192 bytes RAM - 4MHz	15	152-3951	48.15
PIC16F873-20/SP	MCHIP	28/SDIL	8-Bit CMOS MCU, 4K Flash, 192 bytes RAM - 20MHz	27	152-3952	52.65
PIC16F873A-I/SO	MCHIP	28/SOIC	8-Bit CMOS MCU, 4K Flash, 192 bytes RAM - 20MHz (IND TEMP)	15	NEW SMD 166-0034	79.65
PIC16F873A-I/SP	MCHIP	28/SDIL	8-Bit CMOS MCU, 4K Flash, 192 bytes RAM - 20MHz (IND TEMP)	47	152-3953	44.25
PIC16F873A-I/SS	MCHIP	28/SSOP	8-Bit CMOS MCU, 4K Flash, 192 bytes RAM - 20MHz (IND TEMP)	10	NEW SMD 166-0035	141.47
PIC16F874-04/P	MCHIP	40/DIP	8-Bit CMOS MCU, 4K Flash, 192 bytes RAM - 4MHz	10	152-3954	35.70
PIC16F874-20I/P	MCHIP	40/DIP	8-Bit CMOS MCU, 4K Flash, 192 bytes RAM - 20MHz (IND TEMP)	27	152-3955	42.10
PIC16F874A-I/L	MCHIP	44/PLCC	8-Bit CMOS MCU, 4K Flash, 192 bytes RAM - 20MHz (IND TEMP)	10	NEW SMD 166-0036	99.63
PIC16F874A-I/P	MCHIP	40/DIP	8-Bit CMOS MCU, 4K Flash, 192 bytes RAM - 20MHz (IND TEMP)	27	152-3956	32.20
PIC16F876-04/SO	MCHIP	28/SOIC	8-Bit CMOS MCU, 8K Flash, 368 bytes RAM - 4MHz	15	NEW SMD 166-0037	95.31
PIC16F876-04/SP	MCHIP	28/SDIL	8-Bit CMOS MCU, 8K Flash, 368 bytes RAM - 4MHz	27	152-3957	52.95
PIC16F876-20/SO	MCHIP	28/SOIC	8-Bit CMOS MCU, 8K Flash, 368 bytes RAM - 20MHz	15	NEW SMD 166-0038	102.33
PIC16F876-20/SP	MCHIP	28/SDIL	8-Bit CMOS MCU, 8K Flash, 368 bytes RAM - 20MHz	27	152-3959	56.85
PIC16F876-20I/SO	MCHIP	28/SOIC	8-Bit CMOS MCU, 8K Flash, 368 bytes RAM - 20MHz (IND TEMP)	15	NEW SMD 166-0039	112.32
PIC16F876-20I/SP	MCHIP	28/SDIL	8-Bit CMOS MCU, 8K Flash, 368 bytes RAM - 20MHz (IND TEMP)	27	152-3961	62.40
PIC16F876A-I/SO	MCHIP	28/SOIC	8-Bit CMOS MCU, 8K Flash, 368 bytes RAM - 20MHz (IND TEMP)	15	NEW SMD 166-0040	85.86
PIC16F876A-I/SP	MCHIP	28/SDIL	8-Bit CMOS MCU, 8K Flash, 368 bytes RAM - 20MHz (IND TEMP)	47	152-3962	47.70
PIC16F876A-I/SS	MCHIP	28/SSOP	8-Bit CMOS MCU, 8K Flash, 368 bytes RAM - 20MHz (IND TEMP)	27	NEW SMD 166-0041	152.28
PIC16F877-04/L	MCHIP	44/PLCC	8-Bit CMOS MCU, 8K Flash, 368 bytes RAM - 4MHz	10	NEW SMD 166-0042	121.77
PIC16F877-04/P	MCHIP	40/DIP	8-Bit CMOS MCU, 8K Flash, 368 bytes RAM - 4MHz	10	152-3963	37.90
PIC16F877-20/P	MCHIP	40/DIP	8-Bit CMOS MCU, 8K Flash, 368 bytes RAM - 20MHz	10	152-3964	40.50
PIC16F877-20I/P	MCHIP	40/DIP	8-Bit CMOS MCU, 8K Flash, 368 bytes RAM - 20MHz (IND TEMP)	27	152-3965	44.50
PIC16F877A-I/L	MCHIP	44/PLCC	8-Bit CMOS MCU, 8K Flash, 368 bytes RAM - 20MHz (IND TEMP)	10	NEW SMD 166-0043	106.92
PIC16F877A-I/P	MCHIP	40/DIP	8-Bit CMOS MCU, 8K Flash, 368 bytes RAM - 20MHz (IND TEMP)	25	152-3966	34.70
PIC16F88-I/P	MCHIP	18/DIP	8-Bit CMOS EEPROM MCU, 4K Flash, 368 bytes RAM, With ADC - 20MHz (IND TEMP)	42	152-3967	48.50
PIC16F88-I/SO	MCHIP	18/SOIC	8-Bit CMOS EEPROM MCU, 4K Flash, 368 bytes RAM, With ADC - 20MHz (IND TEMP)	25	NEW SMD 166-0045	83.58
PIC16LC58B-04I/P	MCHIP	18/DIP	8-Bit CMOS EPROM MCU, 2Kb OTP PROM, 73b RAM, 12 I/O lines - 4MHz (IND TEMP, Low Power)	25	152-3968	34.00
PIC18F1320-I/P	MCHIP	18/DIP	8-Bit CMOS EEPROM MCU, 4K Flash, 256 bytes RAM - 40MHz (IND TEMP)	42	NEW 166-0046	50.50
PIC18F1320-I/SO	MCHIP	18/SOIC	8-Bit CMOS EEPROM MCU, 4K Flash, 256 bytes RAM - 40MHz (IND TEMP)	15	NEW SMD 166-0047	81.90
PIC18F2420-I/SP	MCHIP	28/SDIL	10-Bit MCU, 16k Flash, 768 bytes SRAM - 40 MHz (IND TEMP)	15	NEW 166-0048	38.85
PIC18F242-I/SP	MCHIP	28/SDIL	8-Bit CMOS MCU, 16k Flash, 768 bytes RAM - 40MHz (IND TEMP)	27	152-3969	52.50
PIC18F2520-I/SO	MCHIP	28/SOIC	10-Bit MCU, 32k Flash, 1536 bytes SRAM - 40 MHz (IND TEMP)	15	NEW SMD 166-0049	77.49
PIC18F2520-I/SP	MCHIP	28/SDIL	10-Bit MCU, 32k Flash, 1536 bytes SRAM - 40 MHz (IND TEMP)	15	NEW 166-0050	44.85
PIC18F2525-I/SP	MCHIP	28/SDIL	8-Bit MCU, 48K Flash, 3968 bytes RAM - 40MHZ (IND TEMP)	27	NEW 166-0051	50.85
PIC18F252-I/SO	MCHIP	28/SOIC	8-Bit CMOS MCU, 32k Flash, 1536 bytes RAM - 40MHz (IND TEMP)	15	NEW SMD 166-0052	103.14
PIC18F252-I/SP	MCHIP	28/SDIL	8-Bit CMOS MCU, 32k Flash, 1536 bytes RAM - 40MHz (IND TEMP)	27	152-3970	57.30
PIC18F2550-I/SO	MCHIP	28/SOIC	8-Bit MCU, SPI, I²C, 2 x CCP, EUSART, 24 I/O Ports, 48MHz (IND TEMP)	15	NEW SMD 166-0053	83.97
PIC18F2550-I/SP	MCHIP	28/SDIL	8-Bit MCU, SPI, I²C, 2 x CCP, EUSART, 24 I/O Ports, 48MHz (IND TEMP)	27	152-3822	48.60
PIC18F2580-I/SO	MCHIP	28/SOIC	10-Bit MCU, 32k Flash, 1536 bytes SRAM - 40 MHz (IND TEMP)	27	NEW SMD 166-0054	101.79
PIC18F2585-I/SO	MCHIP	28/SOIC	8-Bit MCU, 48K Flash, 3328 bytes RAM - 40MHZ (IND TEMP)	27	NEW SMD 166-0055	116.37
PIC18F258-I/SO	MCHIP	28/SOIC	8-Bit CMOS MCU, 32k Flash, 1536 bytes RAM - 40MHz (IND TEMP)	15	NEW SMD 166-0058	123.66
PIC18F258-I/SP	MCHIP	28/SDIL	8-Bit CMOS MCU, 32k Flash, 1536 bytes RAM - 40MHz (IND TEMP)	27	152-3972	68.70
PIC18F2620-I/SO	MCHIP	28/SOIC	8-Bit MCU , 64K Flash, 1024 bytes RAM - 40MHZ (IND TEMP)	15	NEW SMD 166-0059	99.09
PIC18F2620-I/SP	MCHIP	28/SDIL	8-Bit MCU , 64K Flash, 1024 bytes RAM - 40MHZ (IND TEMP)	10	NEW 166-0060	57.00
PIC18F4520-I/P	MCHIP	40/DIP	8-Bit MCU 32k Flash, 1536 bytes RAM, 36 I/O lines - 40MHZ (IND TEMP)	27	152-3812	31.20

RL Re-reeling available

Mftrs. List No.	Mftr.	Pins/Pkg	Description	Tube Quantity	Order Code	Price per Tube
PIC18F452-I/L	MCHIP	44/PLCC	8-Bit CMOS MCU, 32k Flash, 1536 bytes RAM - 40MHz (IND TEMP)	10	NEW SMD 166-0061	128.79
PIC18F452-I/P	MCHIP	40/DIP	8-Bit CMOS MCU, 32k Flash, 1536 bytes RAM - 40MHz (IND TEMP)	10	152-3973	42.30
PIC18F4550-I/P	MCHIP	40/DIP	8-Bit MCU, SPI, I²C, CCP, ECCP, SPP, EUSART, 35 I/O Ports, 48MHz (IND TEMP)	27	NEW 166-0062	33.60
PIC18F458-I/L	MCHIP	44/PLCC	8-Bit CMOS MCU, 32k Flash, 1536 bytes RAM - 40MHz (IND TEMP)	10	NEW SMD 166-0063	139.32
PIC18F458-I/P	MCHIP	40/DIP	8-Bit CMOS MCU, 32k Flash, 1536 bytes RAM - 40MHz (IND TEMP)	10	152-3974	46.40
PIC18F4620-I/P	MCHIP	40/DIP	8-Bit MCU, 64K Flash, 3986 bytes RAM - 40MHZ (IND TEMP)	10	NEW 166-0064	39.20
PIC18F4680-I/P	MCHIP	40/DIP	8-Bit MCU, 64K Flash, 3328 bytes RAM - 40MHZ (IND TEMP)	61	152-3813	48.30
PIC18LF2520-I/ML	MCHIP	28/QFN	8 Bit MCU,32K Flash,1.5K RAM	27	NEW SMD 166-0065	193.37
PIC18LF252-I/SO	MCHIP	23/SOIC	8-Bit CMOS MCU, 32k Flash, 1536 bytes RAM - 40MHz (IND TEMP, Low Power)	60	NEW SMD 166-0066	108.27
TC4422CPA	MCHIP	8/DIP	9A, Non-Inverting, High Speed MOSFET/IGBT Driver	50	152-3810	133.80
TL052CP	TI	8/DIP	Dual, BI-FET Operational Amp - Low Noise enhanced TL072	50	152-3801	53.02
TOP223YN	PINT	3/TO-220	PWM Switch	50	152-3975	144.51
TOP227YN	PINT	3/TO-220	PWM Switch	50	152-3976	261.61
TOP249YN	PINT	6/TO-220	Off Line Switcher	50	152-3977	113.67
UAA2016PG	ON	8/DIP	Zero Voltage Controller to drive triacs With proportional regulation over ±1°C band	25	152-3807	39.51
UC3524AN	UNI	16/DIP	Enhanced Switched Mode Power Supply Circuit	21	152-3796	42.33
UDN2981A-T	ALEG	18/DIP	LED/Relay Driver, 8 NPN Darlingtons +5V Input, 500mA output	23	152-3808	29.15
UPD431000AGW-70LL-A	NEC	32/SOIC	1Mb (128K × 8) CMOS SRAM, 70ns acc., ultra Low Power	25	NEW SMD 166-1742	249.61
UPD43256BGU-70LL-A	NEC	28/SOIC	256K (32K × 8) CMOS SRAM, 70ns acc., ultra Low Power	10	NEW SMD 166-1743	153.77
Z84C0008PEG	ZILog	40/DIP	8-Bit CMOS CPU, 8MHz		152-3783	34.20

ICs in Waffle Tray Packaging

These devices are now available to order in waffle trays, the quantity in each tray is shown below.

497318

Mftrs. List No.	Mftr.	Pins/Pkg	Description	Waffle Tray Quantity	Order Code	Price per Tray
AD2S1200YSTZ	ADI	44/LQFP	12-Bit R/D Converter with Reference Oscillator	80	SMD 152-8310	1,384.09
AD5390BSTZ-5	ADI	52/LQFP	14-BIT DAC, 16-Channel	80	SMD 152-8268	2,144.14
AD5391BSTZ-5	ADI	52/LQFP	12-BIT DAC 16-Channel	80	SMD 152-8267	1,875.04
AD7266BSUZ	ADI	32/TQFP	12-BIT ADC SAR 2 MSPS, 2-Channel	125	SMD 152-8266	961.51
AD7621ASTZ	ADI	48/LQFP	16-BIT ADC	125	SMD 152-8265	4,078.13
AD7623ASTZ	ADI	48/LQFP	16-Bit, 1.33 MSPS PulSAR A/D Converter	125	SMD 152-8306	3,124.15
AD7654ASTZ	ADI	48/LQFP	16-BIT ADC, 2-Channel, 5V, 500KSPS	125	SMD 152-8311	1,641.20
AD7655ASTZ	ADI	48/LQFP	16-BIT ADC SAR 1MSPS	125	SMD 152-8454	1,210.18
AD7656BSTZ	ADI	64/LQFP	250 KSPS, 6-Channel, Simultaneous Sampling Bipolar 16-Bit A/D Converter	80	SMD 152-8377	1,441.00
AD7656YSTZ	ADI	64/LQFP	250 KSPS, 6-Channel, Simultaneous Sampling Bipolar 16-Bit A/D Converter	80	SMD 152-8376	1,709.13
AD7658BSTZ	ADI	64/LQFP	250 KSPS, 6-Channel, Simultaneous Sampling, Bipolar 12-Bit ADC	80	SMD 152-8375	951.02
AD7667ASTZ	ADI	48/LQFP	16-BIT ADC, 5V, 1MSPS	125	SMD 152-8313	2,501.73
AD7674ASTZ	ADI	48/LQFP	18-BIT SAR ADC, DSP, MicroWire	125	SMD 152-8408	3,500.91
AD7678ASTZ	ADI	48/LQFP	5V, 100KSPS, P, S, S/A, S/H	125	SMD 152-8314	2,248.54
AD7760BSVZ	ADI	64/TQFP	2.5 MSPS, 24-Bit SigmA-Delta A/D Converter	80	SMD 152-8305	3,782.86
AD7938BSUZ	ADI	32/TQFP	12-BIT ADC, 8-Channel, 1.5MSPS	125	SMD 152-8264	1,057.96
AD7938BSUZ-6	ADI	32/TQFP	12-BIT ADC, 8-Channel, 625KSPS	125	SMD 152-8263	593.78
AD9216BCPZ-65	ADI	64/LFCSP	10-BIT ADC, 2-Channel, 65MSPS	125	SMD 152-8262	1,167.98
AD9228BCPZ-40	ADI	48/LFCSP	Quad 12-Bit, 40 MSPS Serial LVDS 1.8 V A/D Converter	125	SMD 152-8374	1,764.90
AD9238BSTZ-65	ADI	64/LQFP	12-BIT ADC, 2-Channel, 3V, 65MSPS	125	SMD 152-8315	2,037.56
AD9244BSTZ-65	ADI	48/LQFP	14-BIT ADC, 65MSPS	125	SMD 152-8316	2,813.70
AD9248BSTZ-20	ADI	64/LQFP	14-BIT ADC, 2-Channel, 20MSPS	125	SMD 152-8259	2,334.45
AD9248BSTZ-40	ADI	64/LQFP	14-BIT ADC, 2-Channel, 40MSPS	125	SMD 152-8260	3,045.78
AD9248BSTZ-65	ADI	64/LQFP	14-BIT ADC, 2-Channel, 65MSPS	125	SMD 152-8261	5,464.63
AD9480BSUZ-250	ADI	44/TQFP	8-BIT ADC 3V, 3.3V	80	SMD 152-8409	2,762.39
AD9510BCPZ	ADI	48/LFCSP	1.2GHz Clock Distribution IC, PLL Core, Dividers, Delay Adjust, Eight Outputs	125	SMD 152-8258	1,528.17
AD9511BCPZ	ADI	48/LFCSP	1.2GHz Clock Distribution IC, PLL Core, Dividers, Delay Adjust, Five Outputs	125	SMD 152-8256	1,443.77
AD9512BCPZ	ADI	48/LFCSP	1.2GHz Clock Distribution IC, Two 1.6GHz Inputs, Dividers, Delay Adjust, Five Outputs	125	SMD 152-8255	1,290.05
AD9830ASTZ	ADI	48/TQFP	CMOS Complete Direct Digital synthesis (DDS) Device, mAx. Freq. out 50MHz, Parallel Data Loading, 5V operation (TQFP)	125	SMD 152-8455	1,124.28
AD9951YSVZ	ADI	48/TQFP	400 MSPS, 14-Bit, 1.8 V CMOS Direct Digital Synthesizer	125	SMD 152-8410	2,127.99
AD9952YSVZ	ADI	48/TQFP	400 MSPS, 14-Bit, 1.8 V CMOS Direct Digital Synthesizer	125	SMD 152-8317	1,754.23
AD9954YSVZ	ADI	48/TQFP	400 MSPS, 14-Bit, 1.8 V CMOS Direct Digital Synthesizer	125	SMD 152-8318	1,951.65
AD9956YCPZ	ADI	48/LFCSP	400 MSPS, 14-Bit DAC, 48-Bit FTW 1.8 V CMOS DDS Based AgileRF Synthesizer	125	SMD 152-8254	2,147.57
AD9959BCPZ	ADI	56/LFCSP	4 Channel 500 MSPS DDS With 10-Bit DACs	130	SMD 152-8304	3,315.77
ADM1066ASUZ	ADI	48/TQFP	Multisupply Supervisor/Sequencer With mArgining Control	125	SMD 152-8253	914.79
ADS5500IPAPG4	TI	64/HTQFP	14-BIT ADC, 125MSPS	80	SMD 152-8501	9,240.14
ADS5522IPAPG4	TI	64/HTQFP	12-BIT ADC, 80MSPS	80	SMD 152-8502	2,040.41
ADS5542IPAPG4	TI	64/HTQFP	14-BIT ADC, 80MSPS	80	SMD 152-8503	2,498.09
ADUC812BSZ	ADI	52/MQFP	8-Bit MicroConverter With 12-Bit ADC and embedded Flash MCU	80	SMD 152-8456	823.71
ADUC832BSZ	ADI	52/LQFP	8-Bit MicroConverter With 12-Bit ADC/DAC With embedded 62K Flash MCU	80	SMD 152-8271	813.10
ADUC834BSZ	ADI	52/MQFP	8-Bit MicroConverter With Dual 16/24-Bit ADC and embedded Flash MCU	80	SMD 152-8272	1,067.73
ADUC836BSZ	ADI	52/MQFP	8-Bit MicroConverter With Dual 16-Bit ADC and embedded Flash MCU	80	SMD 152-8309	762.40
AS7C3256A-10TIN	ALL	28/TSOP	SRAM 256K, 3.3V	117	NEW SMD 167-8904	133.38
AT45DB642D-TU	ATM	28/TSOP	64Mb (8M x 8) Serial Flash Memory - SPI and parallel I/O interface (IND TEMP, TSOP)	117	NEW SMD 166-1732	1,055.04
AT89C51ED2-RLTUM	ATM	44/VQFP	High-Performance 8-Bit CMOS Flash MCU With Data EEPROM	80	NEW SMD 166-1733	440.96
AT89S52-24AU	ATM	44/TQFP	8-Bit CMOS MCU With 8Kb ISP Flash	80	SMD 152-8289	80.26
AT89S8253-24AU	ATM	44/TQFP	8-Bit CMOS MCU With 12Kb ISP Flash & 2K EEPROM	80	SMD 152-8290	232.09
AT90CAN128-16AU	ATM	64/TQFP	8-Bit, 128K Flash, 4K EEPROM, CAN Controller	45	NEW SMD 166-1734	370.43
AT90USB1287-16AU	ATM	64/TQFP	8-Bit USB On-The-Go MCU, 128K Flash, 8 Kbytes RAM, 16MHz (IND TEMP)	45	NEW SMD 166-1736	400.35
AT91SAM7S128-AU-001	ATM	64/LQFP	32-Bit SmART ARM7 128K Flash	80	SMD 152-8286	510.59
AT91SAM7S256-AU-001	ATM	64/LQFP	32-Bit SmART ARM7 256K Flash	80	SMD 152-8287	610.19
AT91SAM7S64-AU-001	ATM	64/LQFP	32-Bit SmART ARM7 64K Flash	80	SMD 152-8288	375.20
ATMEGA128-16AU	ATM	64/TQFP	8-Bit CMOS MCU, 128K Flash, 4K bytes RAM, 53 I/O Lines, 16MHz (IND TEMP)	45	NEW SMD 166-1737	398.72
ATMEGA128L-8AU	ATM	64/TQFP	8-Bit CMOS MCU, 128K Flash, 4K bytes RAM, 53 I/O Lines, 8MHz (IND TEMP)	45	NEW SMD 166-1739	398.72
ATMEGA16-16AU	ATM	44/TQFP	8-Bit CMOS MCU, 16K ISP Flash, 1Kbytes RAM, 32 I/O Lines, 16MHZ	80	SMD 152-8422	244.66
ATMEGA162-16AU	ATM	44/TQFP	8-Bit CMOS MCU, 16K Flash, 1K bytes RAM, 35 I/O Lines, 16MHz (IND TEMP)	80	SMD 152-8423	275.60
ATMEGA162V-8AU	ATM	44/TQFP	8-Bit CMOS MCU, 16K Flash, 1K bytes RAM, 35 I/O Lines, 8MHz (IND TEMP)	80	SMD 152-8424	265.93
ATMEGA168-20AU	ATM	32/TQFP	8-Bit CMOS MCU, 16K Flash, 1K bytes RAM, 23 I/O Lines, 20MHz (IND TEMP)	125	SMD 152-8425	228.16
ATMEGA168V-10AU	ATM	32/TQFP	8-Bit CMOS MCU, 16K Flash, 1K bytes RAM, 23 I/O Lines, 10MHz (IND TEMP)	125	SMD 152-8426	228.16
ATMEGA16L-8AU	ATM	44/TQFP	8-Bit CMOS MCU, 16K ISP Flash, 1Kbytes RAM, 32 I/O Lines, 8MHZ	80	SMD 152-8428	256.26
ATMEGA2560-16AU	ATM	100/TQFP	8-Bit CMOS MCU, 256K Flash, 8K bytes RAM, 86 I/O Lines, 16MHz (IND TEMP)	45	NEW SMD 166-1740	369.34
ATMEGA32-16AU	ATM	44/TQFP	8-Bit CMOS MCU, 32K Flash, 2kbytes RAM, 32 I/O Lines, 16MHz	80	SMD 152-8429	324.92
ATMEGA32L-8AU	ATM	44/TQFP	8-Bit CMOS MCU, 32K Flash, 2 kbytes RAM, 32 I/O Lines, 8MHz	80	SMD 152-8430	324.92
ATMEGA48-20AU	ATM	32/TQFP	8-Bit CMOS MCU, 8K Flash, 512 bytes RAM, 23 I/O Lines, 20MHz (IND TEMP)	125	SMD 152-8431	142.03
ATMEGA48V-10AU	ATM	32/TQFP	8-Bit CMOS MCU, 4K Flash, 512 bytes RAM, 23 I/O Lines, 10MHz (IND TEMP)	125	SMD 152-8432	142.03
ATMEGA64-16AU	ATM	64/TQFP	8-Bit CMOS MCU, 64K Flash, 4kbytes RAM, 32 I/O Lines, 16MHz	45	NEW SMD 166-1741	297.54
ATMEGA644-20AU	ATM	44/TQFP	8-Bit CMOS MCU, 64K Flash, 4K bytes RAM, 32 I/O Lines, 20MHz (IND TEMP)	80	SMD 152-8382	311.38
ATMEGA8-16AU	ATM	32/TQFP	8-Bit CMOS MCU, 8K Flash, 1kbytes RAM, 23 I/O Lines, 16MHz (IND TEMP)	125	SMD 152-8433	194.91
ATMEGA8515-16AU	ATM	44/TQFP	8-Bit 8K ISP Flash, 512 bytes RAM, 16MHZ (IND TEMP)	80	SMD 152-8434	189.53
ATMEGA8515L-8AU	ATM	44/TQFP	8-Bit 8K ISP Flash, 512 bytes RAM, 8MHZ (IND TEMP)	80	SMD 152-8435	189.53
ATMEGA8535-16AU	ATM	44/TQFP	8-Bit ISP 8K Flash, 512bytes RAM 16MHZ (IND TEMP)	80	SMD 152-8437	212.74
ATMEGA88-20AU	ATM	32/TQFP	8-Bit CMOS MCU, 8K Flash, 1K bytes RAM, 23 I/O Lines, 20MHz (IND TEMP)	125	SMD 152-8438	207.01
ATMEGA88V-10AU	ATM	32/TQFP	8-Bit CMOS MCU, 8K Flash, 1K bytes RAM, 23 I/O Lines, 10MHz (IND TEMP)	125	SMD 152-8442	207.01
ATMEGA8L-8AU	ATM	32/TQFP	8-Bit CMOS MCU, 8K Flash, 1kbytes RAM, 23 I/O Lines, 8MHz (IND TEMP)	125	SMD 152-8443	194.91
C8051F005-GQ	SLAB	64/TQFP	F005DK-B, Order Code: 412-7973 (UK Plug); F005DK-E, Order Code: 412-7985 (Euro Plug)	80	SMD 152-8457	1,429.94
C8051F021-GQ	SLAB	64/TQFP	F020DK-B, Order Code: 412-7997 (UK Plug)	80	SMD 152-8458	953.57

ICs in Full-Tubes & Waffle Tray Packaging - continued

ICs in Waffle Tray Packaging - continued

Mftrs. List No.	Mftr.	Pins/Pkg	Description	Waffle Tray Quantity	Order Code	Price per Tray
C8051F041-GQ	SLAB	64/TQFP	64K ISP Flash CAN CPU	80	SMD 152-8459	1,002.28
C8051F045-GQ	SLAB	64/TQFP	MCU, 64 K Flash 4KRAM	80	SMD 152-8383	473.89
C8051F120-GQ	SLAB	100/TQFP	MCU, 128K Flash 8KRAM	45	NEW SMD 166-1722	695.67
C8051F121-GQ	SLAB	64/TQFP	MCU, 128K Flash 8KRAM	80	SMD 152-8384	1,198.77
C8051F123-GQ	SLAB	64/TQFP	MCU, 128K Flash 8KRAM	80	SMD 152-8386	1,108.78
C8051F125-GQ	SLAB	64/TQFP	128K ISP FLASH HI-SPEED	80	SMD 152-8460	1,086.49
C8051F127-GQ	SLAB	64/TQFP	128K ISP FLASH, HI-SPEED	80	SMD 152-8461	994.02
C8051F133-GQ	SLAB	64/TQFP	MCU, 64K Flash 8KRAM	80	SMD 152-8387	705.06
C8051F310-GQ	SLAB	32/LQFP	F310DK-E, Order Code: 423-8266 (Euro Plug)	125	SMD 152-8462	514.71
C8051F320-GQ	SLAB	32/LQFP	16KB Flash MCU With USB	125	SMD 152-8463	470.85
C8051F340-GQ	SLAB	48/TQFP	8-Bit MCU 64KB 48MIPS 10ADC	125	SMD 152-8352	490.20
C8051F410-GQ	SLAB	32/LQFP	MCU 32K Flash 2340B RAM	125	SMD 152-8388	447.63
CC2420Z-RTB1	TI	48/QFN	Single-Chip 2.4 Ghz Ieee 802.15.4 Compliant And Zigbee(Tm) Ready Rf Transceiver	125	SMD 152-8369	556.37
CP2200-GQ	SLAB	48/TQFP	Single-Chip Ethernet Controller	125	SMD 152-8353	374.10
CS4245-CQZ	CIR	48/LQFP	105 dB, 192 kHz, Stereo Audio Codec	125	SMD 152-8248	449.82
CS42518-CQZ	CIR	64/LQFP	110 dB, 192 kHz, 8-Channel Codec With S/PDIF Receiver	80	SMD 152-8249	422.76
CS42528-CQZ	CIR	64/LQFP	114 dB, 192 kHz, 8-Channel Codec With S/PDIF Receiver	80	SMD 152-8250	672.65
CS4385-CQZ	CIR	48/LQFP	8-Channel, 114 dB, 192 kHz, Delta SigmA	125	SMD 152-8251	709.72
CS5368-CQZ	CIR	48/LQFP	8-Channel, 114 dB, 192 kHz	125	SMD 152-8252	1,600.70
CY37064P44-125AXC	CYP	44/TQFP	5V Ultra 37000 CPLD	80	SMD 152-8419	411.44
CY8C29566-24AXI	CYP	44/TQFP	SM PSoC, 32K Flash, 2KB RAM	80	SMD 152-8371	329.94
CYWUSB6934-48LFXC	CYP	48/QFN	Wireless USB LS 2.4GHz DSSS Radio SoC	125	SMD 152-8420	480.25
CYWUSB6935-48LFXC	CYP	48/QFN	Wireless USB LR 2.4GHz DSSS Radio SoC	125	SMD 152-8421	599.92
CYWUSB6953-48LFXC	CYP	48/QFN	USB Wireless, PRoC	125	SMD 152-8372	382.31
DP83847ALQA56A	NSC	56/LLP	DsPHYTER II - Single 10/100 Ethernet Transceiver	125	SMD 152-8404	295.26
DP83848CVV	NSC	48/LQFP	10/100 Ethernet, Physical Layer	125	SMD 152-8379	300.55
DP83848IVV	NSC	48/LQFP	10/100 Ethernet, Physical Layer	125	SMD 152-8380	346.90
DS90LV004TVS	NSC	48/TQFP	4 Channel LVDS Repeater	125	SMD 152-8378	569.33
DS92LV090ATVEH	NSC	64/TQFP	9 Channel Bus LVDS Tranceiver	80	SMD 152-8381	641.47
DSPIC30F5011-20I/PTG	MCHIP	64/TQFP	16-Bit MCU/DSP With ICSP, 52 I/O ports, 20MHZ (IND TEMP)	80	SMD 152-8405	377.60
DSPIC30F5011-30I/PTG	MCHIP	64/TQFP	16-Bit MCU/DSP With ICSP, 52 I/O ports, 30MHZ (IND TEMP)	80	SMD 152-8406	396.80
DSPIC30F6015-30I/PT	MCHIP	64/TQFP	16Bit MCU-DSP,144K Flash,30MIP	80	SMD 152-8401	547.20
DSPIC33FJ128GP706-I/PT	MCHIP	64/TQFP	16-Bit MCU/DSP 128K Flash	80	SMD 152-8329	326.40
DSPIC33FJ128MC706-I/PT	MCHIP	64/TQFP	16-Bit MCU/DSP 128K Flash	80	SMD 152-8330	319.20
DSPIC33FJ256GP506-I/PT	MCHIP	64/TQFP	16Bit MCU/DSP,256K Flash,40MIP	80	SMD 152-8402	312.80
EP1C12F256C8N	ALT	256/FBGA	FPGA, Cyclone	45	NEW SMD 166-2251	1,099.26
EP1C12F324C8N	ALT	324/FBGA	Cyclone FPGA, 12K Elements	12	NEW SMD 166-2279	307.97
EP1C12Q240C8N	ALT	240/PQFP	FPGA, Cyclone	12	NEW SMD 166-2252	278.48
EP1C20F324C8N	ALT	324/FBGA	Cyclone FPGA, 20K Elements	12	NEW SMD 166-2280	473.00
EP1C20F400C8N	ALT	400/FBGA	Cyclone FPGA, 20K Elements	30	NEW SMD 166-2281	1,295.48
EP1C3T100C8N	ALT	100/TQFP	FPGA, Cyclone	45	NEW SMD 166-2267	314.07
EP1C3T144C8N	ALT	144/TQFP	FPGA, Cyclone	30	NEW SMD 166-2265	240.79
EP1C4F324C8N	ALT	324/FBGA	FPGA, Cyclone	12	NEW SMD 166-2255	150.76
EP1C4F400C8N	ALT	400/FBGA	Cyclone FPGA, 4K Elements	30	NEW SMD 166-2282	454.60
EP1C6T144C8N	ALT	144/TQFP	FPGA, Cyclone	30	NEW SMD 166-2258	342.86
EP1K100QC208-3N	ALT	208/PQFP	FPGA, ACEX 1K, 100K GATES	12	NEW SMD 166-2269	298.30
EP1K10TC144-3N	ALT	144/TQFP	FPGA, Acex 1K	30	NEW SMD 166-2266	241.84
EP1K30QC208-3N	ALT	208/PQFP	FPGA, Acex 1K	12	NEW SMD 166-2257	158.92
EP2C20F256C8N	ALT	256/FBGA	FPGA, Cyclone II	45	NEW SMD 166-2250	1,256.30
EP2C20Q240C8N	ALT	240/PQFP	FPGA, Cyclone III	12	NEW SMD 166-2249	335.01
EP2C5T144C8N	ALT	144/TQFP	FPGA, Cyclone II	30	NEW SMD 166-2263	251.26
EP2C8F256C8N	ALT	256/FBGA	FPGS, Cyclone II	45	NEW SMD 166-2253	690.97
EP2C8T144C8N	ALT	144/TQFP	FPGA, Cyclone II	30	NEW SMD 166-2256	376.89
EP3C10U256C8N	ALT	256/UBGA	CYCLONE III, FPGA, 10K LEs	60	NEW SMD 166-2275	1,008.47
EP3C16F256C8N	ALT	144/FBGA	Cyclone III FPGA	45	NEW SMD 166-2273	875.04
EP3C16F484C8N	ALT	484/FBGA	CYCLONE III, FPGA, 16K LEs	30	NEW SMD 166-2276	654.31
EP3C25F256C8N	ALT	256/FBGA	FPGA, Cyclone III	45	NEW SMD 166-2248	1,319.11
EP3C40F484C8N	ALT	484/FBGA	CYCLONE III, FPGA, 40K LEs	30	NEW SMD 166-2277	1,704.10
EP3C40U484C8N	ALT	484/UBGA	CYCLONE III, FPGA, 40K LEs	42	NEW SMD 166-2278	2,626.70
EP3C5F256C8N	ALT	256/FBGA	CYCLONE III, FPGA, 5K LEs	45	NEW SMD 166-2274	441.46
EPC1441LC20N	ALT	20/PLCC	Config Memory, 440Kbit	98	NEW SMD 166-2271	231.77
EPC2LC20N	ALT	20/PLCC	Config Memory 1.6M	98	NEW SMD 166-2270	1,437.82
EPCS16SI16N	ALT	16/SOIC	Serial Confg Memory 16Mb	25	NEW SMD 166-2261	256.49
EPCS16SI8N	ALT	8/SOIC	Serial Config Memory	50	NEW SMD 166-2246	479.84
EPCS4SI8N	ALT	8/SOIC	Serial config Memory 4Mb	50	NEW SMD 166-2262	419.64
EPM1270T144C5N	ALT	144/TQFP	MAX II ISP - CPLD	30	NEW SMD 166-2254	427.93
EPM240T100C5N	ALT	100/TQFP	MAX II ISP - CPLD	45	NEW SMD 166-2268	168.82
EPM3064ALC44-10N	ALT	44/PLCC	CPLD, MAX3000A 64 Macrocells	65	NEW SMD 166-2285	85.40
EPM3064ATC44-10N	ALT	44/TQFP	CPLD, MAX3000A 64 Macrocells	80	NEW SMD 166-2286	126.14
EPM3128ATC100-10N	ALT	100/TQFP	ISP Programmable Logic Device	45	NEW SMD 166-2244	237.52
EPM3128ATC144-10N	ALT	144/TQFP	CPLD, MAX3000A 128 Macrocells	30	NEW SMD 166-2283	169.49
EPM3256ATC144-10N	ALT	144/TQFP	ISP Programmable Logic Device	30	NEW SMD 166-2245	355.95
EPM570T100C5N	ALT	100/TQFP	MAX II ISP - CPLD	45	NEW SMD 166-2264	376.89
EPM7064STC44-10N	ALT	44/TQFP	ISP Programmable Logic devices	80	SMD 152-8500	403.78
HD64F3337YCP16V	REN	84/PLCC	8-Bit Microcontroller, 60K Flash, 2K RAM, 60 I/O lines, 6 Input lines, I2C Bus interface	74	NEW SMD 166-1750	1,270.33
ISPPAC-POWR1208-01TN44I	LAT	44/TQFP	In-System Programmable Power Supply sequencing controller and monitor	80	SMD 152-8467	1,399.28
KSZ8001L	MICR	48/LQFP	1.8V, 3.3V 10/100BASETX/FX Physical Layer Transceiver	125	SMD 152-8298	291.25
LC4032V-75TN44C	LAT	44/TQFP	In-System Programmable High Density PLD, 3.3V	80	SMD 152-8465	211.96
LC4064V-75TN44C	LAT	44/TQFP	In-System Programmable High Density PLD, 3.3V	80	SMD 152-8466	332.16
LPC2103FBD48	NXP	48/LQFP	16/32-Bit ARM7 MCU,16K Flash	125	SMD 152-8396	260.10
LPC2104BBD48.151	NXP	48/LQFP	32-Bit u/c, 128 kB, ISP/IAP Flash With 16 kB RAM - 60MHz	125	SMD 152-8280	702.53
LPC2105BBD48.151	NXP	48/LQFP	32-Bit u/c, 128 kB, ISP/IAP Flash With 32 kB RAM - 60MHz	125	SMD 152-8359	805.80
LPC2106BBD48.151	NXP	48/LQFP	32-Bit u/c, 128 kB, ISP/IAP Flash With 64 kB RAM - 60MHz	125	SMD 152-8281	735.68
LPC2119FBD64,151	NXP	64/LQFP	32-Bit u/c, 128 kB, ISP/IAP Flash With 16 kB RAM - 60MHz	80	SMD 152-8337	620.98
LPC2131FBD64,151	NXP	64/LQFP	32-Bit u/c, 32 kB, ISP/IAP Flash With 8 kB RAM - 60MHz	80	SMD 152-8338	389.23
LPC2132FBD64,151	NXP	64/LQFP	32-Bit u/c, 64 kB, ISP/IAP Flash With 16 kB RAM - 60MHz	80	SMD 152-8339	392.50
LPC2134FBD64,151	NXP	64/LQFP	32-Bit u/c, 128 kB, ISP/IAP Flash With 16 kB RAM - 60MHz	80	SMD 152-8340	472.46
LPC2136FBD64,151	NXP	64/LQFP	32-Bit u/c, 256 kB, ISP/IAP Flash With 32 kB RAM - 60MHz	80	SMD 152-8341	588.34
LPC2138FBD64,151	NXP	64/LQFP	32-Bit u/c, 512 kB, ISP/IAP Flash With 32 kB RAM - 60MHz	80	SMD 152-8342	684.62
LPC2142FBD64	NXP	64/LQFP	16/32-Bit ARM7 MCU,64K Flash	80	SMD 152-8398	439.82
M25P32-VME6G	ST	8/VDFPN	32Mb (4Mb × 8) Serial Flash Memory - SPI Interface (IND TEMP)	160	NEW SMD 166-1754	471.65
MC56F8013VFAE	FSL	32/LQFP	Digital Signal Controller	125	SMD 152-8333	300.46
MC56F8323VFBE	FSL	64/LQFP	Digital Signal Controller	80	SMD 152-8334	482.67
MC908GT16CFBE	FSL	44/QFP	Dual 2-channel 16-bit, Time Base Module	80	SMD 152-8325	293.36
MC9S08AW32CFGE	FSL	44/LQFP	8Bit MCU 32K Flash	80	SMD 152-8354	161.22
MC9S08GT60ACFBE	FSL	44/QFP	8Bit MCU,60K Flash, 4K RAM	80	SMD 152-8393	295.23
MC9S08GT60ACFDE	FSL	48/QFN	8Bit MCU,60K Flash, 4K RAM	125	SMD 152-8394	412.75
MC9S08GT8ACFDE	FSL	48/QFN	8Bit MCU,8K Flash, 1K RAM	125	SMD 152-8395	113.81
MC9S12C32CFAE16	FSL	48/LQFP	16-Bit Microcontroller	125	SMD 152-8326	588.47
MC9S12C32CFAE25	FSL	48/QFP	16-Bit MCU w/CAN, 32Kb Flash, 2Kb RAM - 25MHZ	125	SMD 152-8411	497.73

RL Re-reeling available

Mftrs. List No.	Mftr.	Pins/Pkg	Description	Waffle Tray Quantity	Order Code	Price per Tray
MC9S12C32CPBE25	FSL	52/QFP	16-Bit MCU w/CAN, 32Kb Flash, 2Kb RAM - 25MHZ	80	SMD 152-8412	398.72
MC9S12C32MFAE25	FSL	48/QFP	16-Bit MCU w/CAN, 32Kb Flash, 2Kb RAM - 25MHZ	125	SMD 152-8413	462.82
MC9S12C32MPBE25	FSL	52/QFP	16-Bit MCU w/CAN, 32Kb Flash, 2Kb RAM - 25MHZ	80	SMD 152-8414	525.41
MC9S12C64CFAE	FSL	48/LQFP	16-Bit Automotive Microcontroller	125	SMD 152-8331	497.73
MC9S12C96CFAE	FSL	48/LQFP	16-Bit Automotive Microcontroller	125	SMD 152-8332	773.90
MCF5211CAE66	FSL	64/LQFP	Integrated ColdFire Version 2 Microcontroller	80	SMD 152-8335	323.40
MCHC908MR8CFAE	FSL	32/LQFP	2-channel 16-bit, 1 Channel 16-bit, Time Base Module	125	SMD 152-8328	314.11
MSP430F135IPM	TI	64/QFP	16-Bit MCU, 16K Flash, 512 bytes RAM With ADC, comparators, USARTs. (IND TEMP, QFP)	80	SMD 152-8303	351.41
MSP430F149IPM	TI	64/QFP	16-Bit MCU, 60K Flash, 2Kbytes RAM With ADC, comparators and USARTs (IND TEMP, QFP)	80	SMD 152-8301	554.62
MSP430F157IPM	TI	64/LQFP	Mixed Signal Microcontroller	80	SMD 152-8343	389.63
MSP430F1612IPM	TI	64/LQFP	Mixed Signal Microcontroller	80	SMD 152-8345	746.64
MSP430F169IPM	TI	64/LQFP	Mixed Signal Microcontroller	80	SMD 152-8344	662.74
PIC16F74-I/PT	MCHIP	44/TQFP	8-Bit CMOS Flash EPROM MCU 192 bytes RAM (IND TEMP)	80	SMD 152-8273	282.40
PIC16F77-I/PT	MCHIP	44/TQFP	8-Bit CMOS Flash EPROM MCU 368 bytes RAM (IND TEMP)	80	SMD 152-8468	322.40
PIC16F871-I/PT	MCHIP	44/TQFP	8-Bit CMOS EEPROM MCU, 2K Flash, 128 bytes RAM (IND TEMP)	80	SMD 152-8469	258.40
PIC16F874-04/PT	MCHIP	44/TQFP	8-Bit CMOS MCU, 4K Flash, 192 bytes RAM - 4MHz	80	SMD 152-8470	386.40
PIC16F874-20I/PT	MCHIP	44/TQFP	8-Bit CMOS MCU, 4K Flash, 192 bytes RAM - 20MHz (IND TEMP)	80	SMD 152-8357	454.40
PIC16F874A-I/PT	MCHIP	44/TQFP	8-Bit CMOS MCU, 4K Flash, 192 bytes RAM - 20MHz (IND TEMP)	80	SMD 152-8471	296.80
PIC16F877-04/PQ	MCHIP	44/PQFP	8-Bit CMOS MCU, 8K Flash, 368 bytes RAM - 4MHz	80	SMD 152-8472	384.00
PIC16F877-04/PT	MCHIP	44/TQFP	8-Bit CMOS MCU, 8K Flash, 368 bytes RAM - 4MHz	80	SMD 152-8358	408.80
PIC16F877-20/PT	MCHIP	44/TQFP	8-Bit CMOS MCU, 8K Flash, 368 bytes RAM - 20MHz	80	SMD 152-8473	436.80
PIC16F877-20I/PQ	MCHIP	44/PQFP	8-Bit CMOS MCU, 8K Flash, 368 bytes RAM - 20MHz (IND TEMP)	80	SMD 152-8475	452.80
PIC16F877-20I/PT	MCHIP	44/TQFP	8-Bit CMOS MCU, 8K Flash, 368 bytes RAM - 20MHz (IND TEMP)	80	SMD 152-8477	480.00
PIC16F877A-I/PT	MCHIP	44/TQFP	8-Bit CMOS MCU, 8K Flash, 368 bytes RAM - 20MHz (IND TEMP)	80	SMD 152-8478	320.00
PIC16LF871-I/PT	MCHIP	44/TQFP	8-Bit CMOS EEPROM MCU, 2K Flash, 128 bytes RAM (IND TEMP, Low Power)	80	SMD 152-8479	270.40
PIC16LF877A-I/PT	MCHIP	44/TQFP	8-Bit CMOS MCU, 8K Flash, 368 bytes RAM - 20MHz (IND TEMP, Low Power)	80	SMD 152-8480	335.20
PIC16F884-I/PT	MCHIP	44/TQFP	8-bit MCU with 7K Flash	80	NEW SMD 167-8903	93.60
PIC16F887-I/PT	MCHIP	44/TQFP	8-bit MCU with 14K Flash	80	NEW SMD 166-8740	107.20
PIC16F914-I/PT	MCHIP	44/TQFP	8 Bit MCU,7K Flash, 352 RAM	80	SMD 152-8389	146.40
PIC16F917-I/PT	MCHIP	44/TQFP	8 Bit MCU,14K Flash,352 RAM	80	SMD 152-8390	156.00
PIC17LC756A-08I/PT	MCHIP	64/TQFP	8-Bit CMOS EPROM MCU, (High Performance), 16K OTP PROM - 8MHz (IND TEMP, Low Power).	80	SMD 152-8277	657.60
PIC18F4220-I/PT	MCHIP	44/TQFP	Enhanced Flash Microcontrollers With 10-Bit A/D and nanoWatt TechnoLogy	80	SMD 152-8307	336.00
PIC18F4320-I/PT	MCHIP	44/TQFP	8-Bit CMOS MCU, 8K Flash, 512 bytes RAM (IND TEMP) - 40MHz	80	SMD 152-8481	357.60
PIC18F4331-I/PT	MCHIP	44/TQFP	8-Bit CMOS MCU, Enhanced 8K Flash, 768 bytes RAM - 40MHZ (IND TEMP)	80	SMD 152-8482	249.60
PIC18F4420-I/PT	MCHIP	44/TQFP	10-Bit MCU, 32k Flash, 768 bytes SRAM - 40 MHz (IND TEMP)	80	SMD 152-8444	212.00
PIC18F442-I/PT	MCHIP	44/TQFP	8-Bit CMOS MCU, 16k Flash, 768 bytes RAM - 40MHz (IND TEMP)	80	SMD 152-8275	360.80
PIC18F4431-E/PT	MCHIP	44/TQFP	8-Bit Flash MCU	80	SMD 152-8279	287.20
PIC18F4431-I/PT	MCHIP	44/TQFP	Flash Microcontroller with nanoWatt Technology, PWM and A/D	80	SMD 152-8308	260.80
PIC18F4455-I/PT	MCHIP	44/TQFP	8-Bit MCU, SPI, I²C, CCP, ECCP, SPP, EUSART, 35 I/O Ports, 48MHz (IND TEMP)	80	SMD 152-8445	253.60
PIC18F4480-I/PT	MCHIP	44/TQFP	10-Bit MCU, 16k Flash, 768 bytes SRAM - 40 MHz (IND TEMP)	80	SMD 152-8446	284.80
PIC18F448-I/PT	MCHIP	44/TQFP	8-Bit CMOS MCU, 16k Flash, 768 bytes RAM - 40MHz (IND TEMP)	80	SMD 152-8483	388.00
PIC18F4520-I/PT	MCHIP	44/TQFP	8-Bit MCU 32k Flash, 1536 bytes RAM, 36 I/O lines - 40MHZ (IND TEMP)	80	SMD 152-8362	244.80
PIC18F4525-I/PT	MCHIP	44/TQFP	8-Bit MCU, 48K Flash, 3968 bytes RAM - 40MHZ (IND TEMP)	80	SMD 152-8365	276.00
PIC18F452-I/PT	MCHIP	44/TQFP	8-Bit CMOS MCU, 32k Flash, 1536 bytes RAM - 40MHz (IND TEMP)	80	SMD 152-8484	386.40
PIC18F4550-I/PT	MCHIP	44/TQFP	8-Bit MCU, SPI, I²C, CCP, ECCP, SPP, EUSART, 35 I/O Ports, 48MHz (IND TEMP)	80	SMD 152-8447	264.00
PIC18F4580-I/PT	MCHIP	44/TQFP	10-Bit MCU, 32k Flash, 1536 bytes SRAM - 40 MHz (IND TEMP)	80	SMD 152-8449	316.80
PIC18F458-I/PT	MCHIP	44/TQFP	8-Bit CMOS MCU, 32k Flash, 1536 bytes RAM - 40MHz (IND TEMP)	80	SMD 152-8485	415.20
PIC18F4620-I/PT	MCHIP	44/TQFP	8-Bit MCU, 64K Flash, 3986 bytes RAM - 40MHZ (IND TEMP)	80	SMD 152-8363	308.80
PIC18F4680-I/PT	MCHIP	44/TQFP	8-Bit MCU, 64K Flash, 3328 bytes RAM - 40MHZ (IND TEMP)	80	SMD 152-8364	380.80
PIC18F6410-I/PT	MCHIP	64/TQFP	8-Bit, 8K Flash, CMOS MCU, 768 bytes RAM - 40MHZ (IND TEMP)	80	SMD 152-8366	207.20
PIC18F6520-I/PT	MCHIP	64/TQFP	8-Bit CMOS EEPROM MCU, 32K Flash, 2Kbytes RAM, With ADC - 40MHz (IND TEMP)	80	SMD 152-8486	387.20
PIC18F6525-I/PT	MCHIP	64/TQFP	8-Bit CMOS EEPROM MCU, 48K Flash, 4Kbytes RAM, With ADC - 40MHz (IND TEMP)	80	SMD 152-8487	435.20
PIC18F6585-I/PT	MCHIP	64/TQFP	8-Bit CMOS EEPROM MCU, 48K Flash, 4Kbytes RAM, With ADC and CAN - 40MHz (IND TEMP)	80	SMD 152-8274	466.40
PIC18F6620-I/PT	MCHIP	64/TQFP	8-Bit CMOS MCU, 64K Flash With ADC - 40MHz (IND TEMP)	80	SMD 152-8489	572.80
PIC18F6621-I/PT	MCHIP	64/TQFP	8-Bit CMOS EEPROM MCU, 64K Flash, 4Kbytes RAM, With ADC - 40MHz (IND TEMP)	80	SMD 152-8491	466.40
PIC18F6627-I/PT	MCHIP	64/TQFP	8-Bit CMOS MCU, 96K Flash, 3936 bytes RAM - 40MHZ (IND TEMP)	80	SMD 152-8417	435.20
PIC18F6680-I/PT	MCHIP	64/TQFP	8-Bit CMOS EEPROM MCU, 64K Flash, 3Kbytes RAM, With ADC and CAN - 40MHz (IND TEMP)	80	SMD 152-8492	500.80
PIC18F6720-I/PT	MCHIP	64/TQFP	8-Bit CMOS MCU, 128K Flash With ADC - 40MHz (IND TEMP)	80	SMD 152-8493	636.80
PIC18F6722-I/PT	MCHIP	64/TQFP	8-Bit CMOS MCU, 128K Flash, 3936 bytes RAM - 40MHZ (IND TEMP)	80	SMD 152-8416	496.00
PIC18F8527-I/PT	MCHIP	80/TQFP	8-bit Microcontroller, 48K Flash	60	NEW SMD 164-9745	273.60
PIC18F8720-I/PT	MCHIP	80/TQFP	8bit MCU, 128K Flash	60	NEW SMD 164-0832	485.40
PIC18F8722-I/PT	MCHIP	80/TQFP	8-Bit CMOS MCU, 128K Flash, 3936 bytes RAM - 40MHZ (IND TEMP)	60	NEW SMD 164-9744	395.40
PIC18LF4520-I/PT	MCHIP	44/TQFP	8 Bit MCU,32K Flash,3K8 RAM	80	SMD 152-8391	256.80
PIC18LF452-I/PT	MCHIP	44/TQFP	8-Bit CMOS MCU, 32k Flash, 1536 bytes RAM - 40MHz (IND TEMP, Low Power)	80	SMD 152-8494	405.60
PIC18LF4550-I/PT	MCHIP	44/TQFP	8 Bit MCU,32K Flash,2K RAM,USB	80	SMD 152-8392	277.60
PIC18LF458-I/PT	MCHIP	44/TQFP	8-Bit CMOS MCU, 32K Flash, 1536 bytes RAM, wide Voltage, With CAN- 40MHz (IND TEMP)	80	SMD 152-8278	436.80
PIC18LF6620-I/PT	MCHIP	64/TQFP	8-Bit CMOS MCU, 64K Flash With ADC, Low Power - 40MHz (IND TEMP)	80	SMD 152-8495	600.80
PIC18LF6720-I/PT	MCHIP	64/TQFP	8-Bit CMOS MCU, 128K Flash With ADC, Low Power - 40MHz (IND TEMP)	80	SMD 152-8497	668.80
PIC24FJ128GA006-I/PT	MCHIP	64/TQFP	16-Bit MCU, 128K Flash, 8K RAM	80	SMD 152-8319	235.20
PIC24FJ64GA006-I/PT	MCHIP	64/TQFP	16-Bit MCU, 64K Flash, 8K RAM	80	SMD 152-8320	214.40
PIC24HJ128GP206-I/PT	MCHIP	64/TQFP	16-Bit MCU/DSC, 128K Flash, 40MIPS (Package = 10x10x1 mm)	80	SMD 152-8321	262.40
PIC24HJ256GP206-I/PT	MCHIP	64/TQFP	16-Bit MCU/DSC, 256K Flash, 40MIPS (Package = 10x10x1 mm)	80	SMD 152-8322	291.20
PIC24HJ64GP206-I/PT	MCHIP	64/TQFP	16-Bit MCU/DSC, 64K Flash, 40MIPS (Package = 10x10x1 mm)	80	SMD 152-8323	243.20
QT60161B-ASG	QUAN	44/TQFP	TOUCH SENSOR 16 CHAN	80	SMD 152-8498	275.20
QT60168-ASG	QUAN	32/TQFP	16 Key QmAtrix IC	125	SMD 152-8293	336.97
QT60248-ASG	QUAN	32/TQFP	24 Key QmAtrix IC	125	SMD 152-8295	42,067.31
QT60326-ASG	QUAN	44/TQFP	TOUCH SENSOR 32 CHAN	80	SMD 152-8499	22,147.37
QT60486-ASG	QUAN	44/TQFP	48 Key QmAtrix IC	80	SMD 152-8296	26,526.32
R5F21114DFP#U0	REN	32/LQFP	16-Bit MCU Flash 16K	130	SMD 152-8346	274.48
R5F21134DFP#U0	REN	32/LQFP	16-Bit MCU Flash 16K	125	SMD 152-8347	286.88
SC16C550BIB48	NXP	48/LQFP	5 V, 3.3 V and 2.5 V UART with 16-byte FIFOs	125	SMD 152-8399	159.38
SC16C654BIB64	NXP	64/LQFP	5 V, 3.3 V and 2.5 V quad UART, 5 Mbit/s with 64-byte FIFOs and IrDA encoder/decoder	80	SMD 152-8400	491.23
ST16C2550CQ48-F	EXAR	48/TQFP	2.97V to 5.5V Dual UART With 16 byte FIFO	125	SMD 152-8291	437.33
ST16C550CQ48-F	EXAR	48/TQFP	2.97V to 5.5V UART With 16 byte FIFO	125	SMD 152-8292	239.70
STR711FR2T6	ST	64/TQFP	32-Bit MCU With Flash, USB, CAN 5 Timers, ADC, 10 Communications Interfaces.	80	SMD 152-8284	737.23
STR712FR2T6	ST	64/TQFP	32-Bit MCU With Flash, USB, CAN 5 Timers, ADC, 10 Communications Interfaces.	80	SMD 152-8285	646.64
SX48BD-G	PLX	48/TQFP	8 Bit Microcontroller	125	152-8370	354.90
SY55858UHG	MICR	32/TQFP	2.5V/3.3V/5V 3.0GHz Dual 2 X 2 CML Crosspoint Switch w/Internal Termination	125	SMD 152-8299	711.25
TL16C550CIPTG4	TI	48/PQFP	Asynchronous communications element With autofLow control	125	SMD 152-8450	230.12
TL16C550CPTG4	TI	48/PQFP	Asynchronous communications element With autofLow control	125	SMD 152-8451	205.36
TL16C752BPTG4	TI	48/PQFP	3.3V Dual UART With 64-byte FIFO	125	SMD 152-8453	372.85
TMC236A-PA	TRN	44/PQFP	MICROSTEPPING MOTOR Driver	80	SMD 152-8367	586.70
TMC246A-PA	TRN	44/PQFP	STEPPER MOTOR Driver	80	SMD 152-8368	365.57
TMS320LF2403APAGA	TI	64/TQFP	40 MIPS, 16-Bit Fixed point DSP With 16K Flash, 8 PWM outputs, 8 channel 10-Bit ADC, 2 timers	80	SMD 152-8302	757.82
TPA3004D2PHPG4	TI	48/HTQFP	Power Amp, Audio	125	SMD 152-8360	474.80
TPS2384PJD	TI	64/TQFP	Ethernet Power mAnager	80	SMD 152-8351	378.71
UPSD3212C-40T6	ST	52/TQFP	Flash Programmable System Devices With 8032 MCU With USB and ProgrammableLogic	80	SMD 152-8283	491.48
UPSD3312D-40T6	ST	52/TQFP	Turbo Series Fast 8032 MCU With ProgrammableLogic	80	SMD 152-8297	493.41
XC9536-15VQG44C	XLX	44/VQFP	In-system Programmable Flash CPLD, 15ns, 100MHz	80	SMD 152-8355	216.88
XC9536XL-10VQG64C	XLX	64/VQFP	In-system Programmable Flash CPLD, 10ns, 100MHz, 3.3V (IND TEMP)	80	SMD 152-8356	154.12

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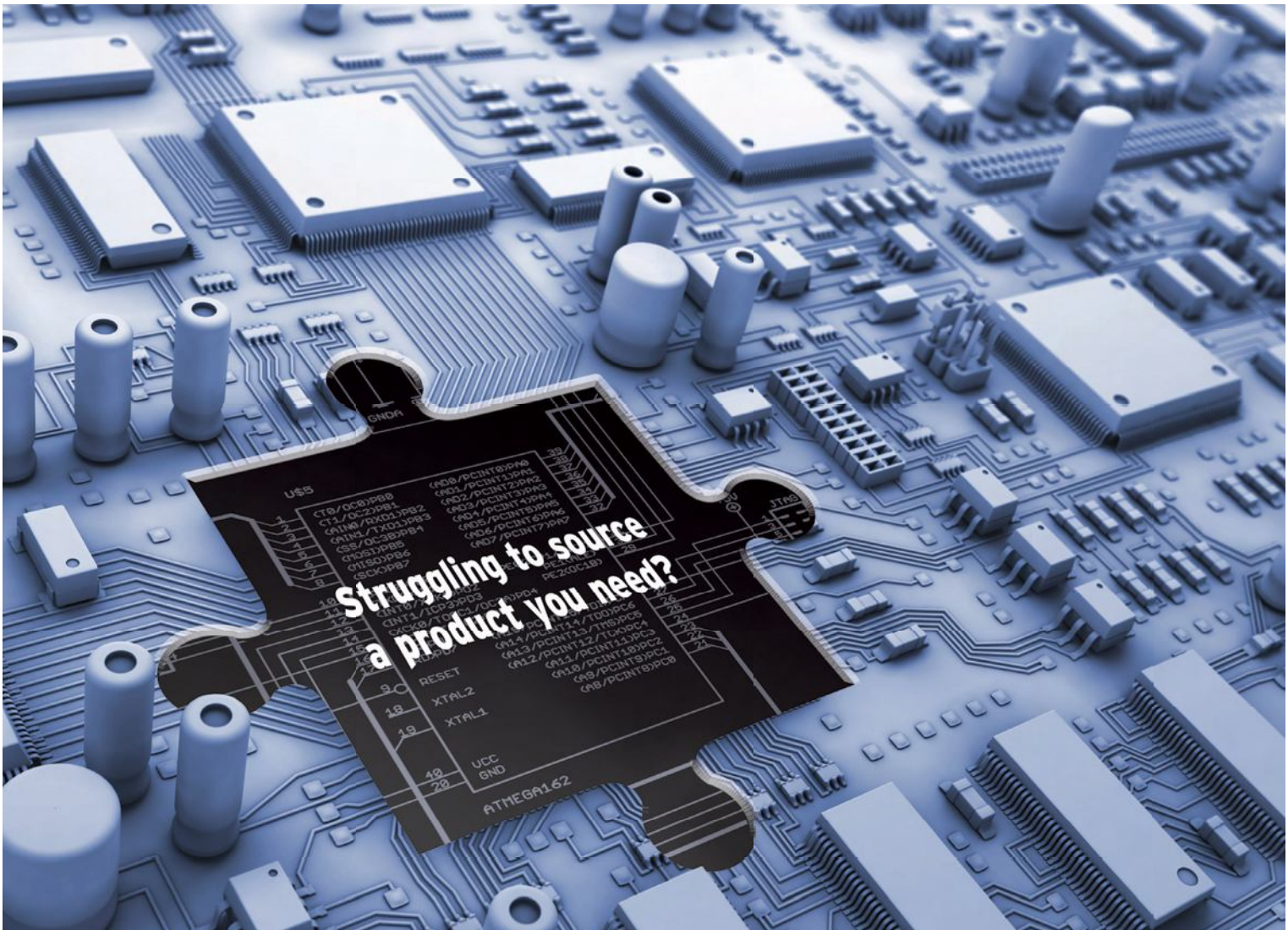
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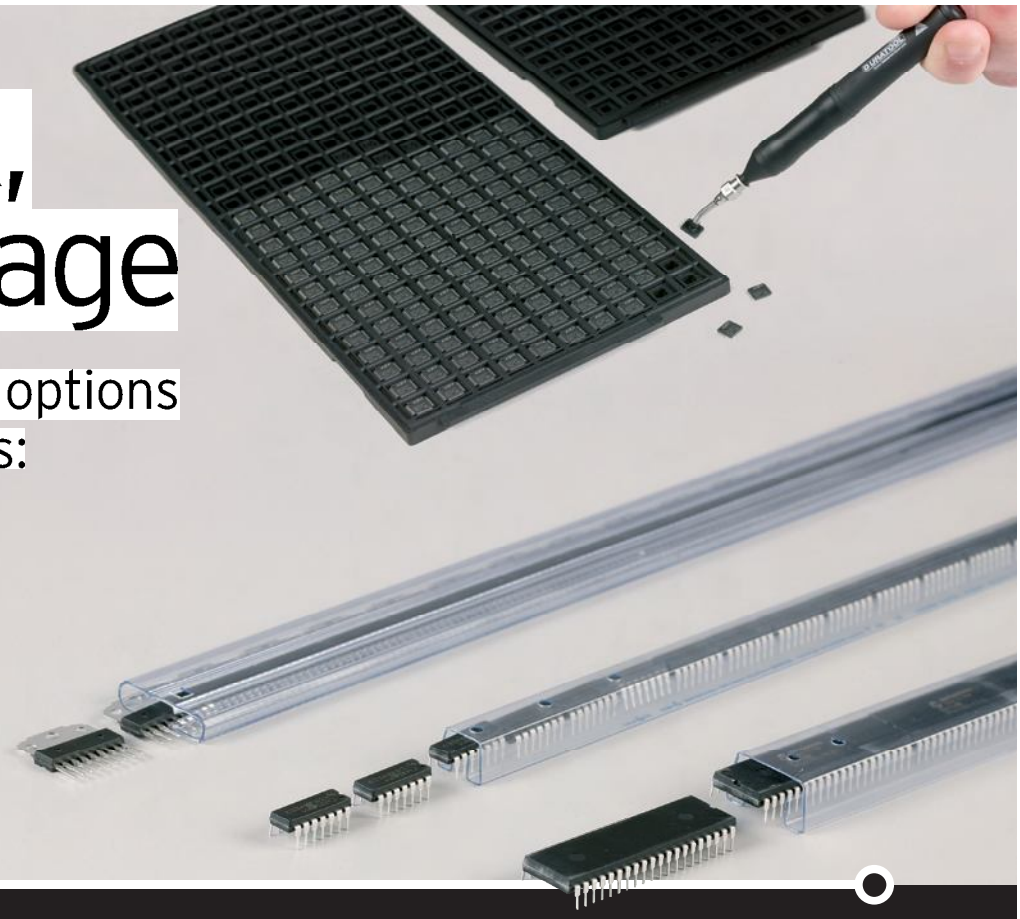
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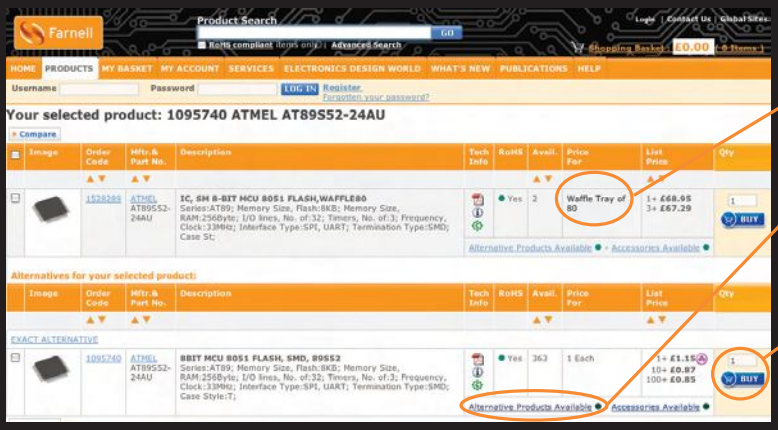
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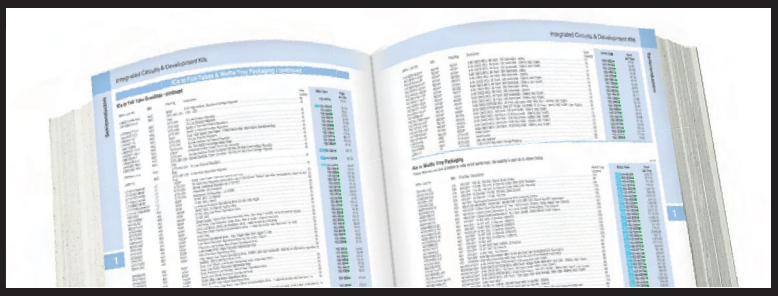


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