

PART NUMBER	DESCRIPTION	MIN V <sub>SUPPLY</sub>	COMMENTS
<b>Step-Up DC/DC Converters from 1 or 2 Cells</b>			
LT <sup>®</sup> 1073/1173 LT1110/1111 LT1107/1108	Micropower DC/DC Converter Micropower DC/DC Converter Micropower DC/DC Converter	1.0V/2.0V 1.0V/2.0V 2.0V	Most Efficient Saves space, use for surface mount (SMT) For higher output current than LT1173/1111
LT1070/71 LT1170/71 LT1270 LT1271	40kHz Switching Regulator, 5A/2.5A Switch 100kHz Switching Regulator, 5A/2.5A Switch 60kHz Switching Regulator, 8A Switch 60kHz/100kHz Switching Regulator, 4A Switch	3.0V 3.0V 3.0V 3.0V	Internal power switch, 5-lead packages, SMT. Use one of these devices with LT1432-3.3 for high efficiency step-down from battery packs.
LT1172	100kHz Switching Regulator, 1.25A Switch	3.0V	Internal 1.25A switch, easy to use 8-pin SOIC
LT1373/2/7	250kHz/500kHz/1MHz Boost Switching Regulators	2.7V	Internal 1.5A switch, uses very small SMT components.
LT1109	Micropower DC/DC Converter	2.0V	Use for flash memory VPP. Also in TO-92
LTC <sup>®</sup> 1044	Inductorless DC/DC Converter	1.5V	For I <sub>OUT</sub> up to 6mA at 3.3 V <sub>IN</sub>
LTC1046	Inductorless DC/DC Converter	1.5V	For I <sub>OUT</sub> up to 25mA at 3.3 V <sub>IN</sub>
LT1300	Boost Converter, 3.3V, 5V <sub>OUT</sub>	1.8V	True shutdown, highest efficiency, current limit
LT1302	High Current Boost from 2AA Cells	1.8V	Up to 600mA Output @ 3.3V from 2AA Cells
LT1303/4	Boost Converter, 3.3V, 5V <sub>OUT</sub>	1.8V	True shutdown, highest efficiency, low-battery detector. LT1304 LBD active in shutdown
LT1307	Single Cell, 600kHz Boost Converter	1V	Uses small inexpensive ceramic output caps, low EMI in 455kHz range
LTC1516	Inductorless 3.3V to 5V Converter	2V	Micropower, 50mA maximum output
<b>High Efficiency Step-Down Switching Regulators</b>			
LTC1147-3.3	High Efficiency Step-Down Regulator Controller with Burst Mode <sup>™</sup> Operation	4V	8-pin SO packaging, up to 16V input. 90%+ efficiency for 3.3V output from 5V
LTC1148-3.3	Synchronous Rectifier Step-Down Switching Regulator Controller with Burst Mode Operation	4V	Switching regulator controller using two external MOSFETs. Up to 16V input. 92%+ efficiency
LTC1149-3.3 LTC1159-3.3	Synchronous Rectifier Step-Down Switching Regulator Controller with Burst Mode Operation	N/A	Switching regulator controller using two external MOSFETs. Up to 48V input. 90%+ efficiency
LTC1174-3.3	Step-Down Converter	4V	Best for 5V to 3.3V at low currents (up to 400mA)
LTC1433/4	Micropower, High Efficiency Step-Down Converter	3.5V	Adaptive Power <sup>™</sup> mode operation for high efficiency with constant frequency at low output current. LTC1434 has PLL for synchronization
LTC1435/6/7	Ultrahigh Efficiency Step-Down Controllers	3.5V	All N-channel design, Adaptive Power mode operation, up to 10A+ designs practical (see InfoCard 15)
LTC1574-3.3	Step-Down Converter with Internal Schottky Diode Rectifier	4V	Best for 5V to 3.3V at low currents (up to 400mA)
<b>Voltage Regulators</b>			
LT1083	Low Dropout 7.5A Regulator	N/A	Regulates 5V to 3.3V or lower (Adjustable outputs)
LT1086-3.3	Low Dropout 1.5A Regulator	4.5V @ 1.5A	Low dropout at high current in DD package
LT1117-3.3	800mA Low Dropout Regulator	N/A	Comes in SOT-223 package
LT1120A	125mA Micropower Regulator	4.0V @ 125mA	Ultra-low dropout, 20μA I <sub>Q</sub> , low-battery detector
LT1121-3.3	150mA Micropower Regulator	4.0V @ 150mA	Ultra-low dropout in SOT-223 and SO-8 package, 50μA I <sub>Q</sub>
LT1129-3.3	700mA Micropower Regulator	4.0V @ 700mA	Ultra-low dropout in SOT-223 and DD package, 50μA I <sub>Q</sub>
LT1584-3.3	Low Dropout 7A Regulator	4.5V @ 5A	Low dropout at high current, fast transient response
LT1585-3.3	Low Dropout Regulator for Microprocessors	4.75V @ 4A	Low dropout, fast transient response, DD package (-3.3 and adjustable are 4.6A, LT1585A is 5A)
LT1587-3.3	Low Dropout 3A Regulator	4.5V @ 3A	Low dropout at high current, fast transient response
<b>Interface Circuits</b>			
LTC1327	3.3V Micropower EIA/TIA-562: 3-Dx/5-Rx	3.3V	300μA supply current, 10kV ESD protection
LT1330 LT1331	RS232 Serial Port with 3.3V Logic Levels RS232 Serial Port with 3.3V Logic Levels	5V/3.3V 3.3V	3-Dx/5-Rx interface directly with 3.3V logic levels. RS232 (LT1330) driver output levels. One receiver kept alive in shutdown. Low power. ±10kV ESD immunity.
LT1332	3V Powered True RS232, 3-Dx/5-Rx	2V	Works with LT1109A to generate ±12V supplies, ±10kV ESD protection
LT1342	RS232 Serial Port with 3.3V Logic Levels	5V/3.3V	3-Dx/5-Rx, 3.3V logic compatible. 0.1μF capacitor operation
LTC1348	3.3V Micropower RS232: 3-Dx/5-Rx with Shutdown	3.3V	300μA I <sub>SV</sub> (Active), 0.2μA in shutdown, ±10kV ESD protected, 0.1μF caps
LTC1350	3.3V Micropower EIA/TIA-562: 3-Dx/5-Rx with 2 Rx Active in Shutdown	3.3V	300μA I <sub>SV</sub> (Active), 35μA in shutdown, ±10kV ESD protected, 0.1μF caps. 2 receivers active in shutdown.
LTC1385	Micropower EIA/TIA-562 2-Driver/2-Receiver	3.3V	280μA Supply Current (Active), 2 receivers alive in shutdown (50μA), ±10kV ESD
LTC1386	Micropower EIA/TIA-562 2-Driver/2-Receiver	3.3V	200μA Supply Current (Active), ±10kV ESD
LTC1480	3V Powered RS485 Transceiver	3V	Micropower, 3V RS485 in SO-8 package
<b>Microprocessor Supervisors</b>			
LTC694-3.3 LTC695-3.3	3.3V Microprocessor Reset and Watchdog Timer ICs	2.9V 2.9V	Guaranteed reset assertion to logic low with V <sub>CC</sub> as low as 1V

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<b>Power Management Circuits</b>			
LTC1157	Dual N-Ch MOSFET High-Side Switch Driver	2.7V	Allow use of N-Ch MOSFETs as high-side power switches in 3V systems
LTC1163 LTC1165	Triple N-Ch MOSFET High-Side Switch Drivers	1.8V	Allow use of N-Ch MOSFETs as high-side power switches in 3V systems. LTC1165 has opposite logic polarity.
<b>A/D Converters</b>			
LTC1282	12-Bit, Parallel I/O, Int. V <sub>REF</sub> , S/H	2.7V	Complete 140kHz Sampling 12-bit A/D
LTC1289	12-Bit, 8-Ch MUX, Full Duplex I/O, S/H	2.7V	Sampling 12-bit A/D with 8-channel multiplexer
LTC1287	12-Bit, Differential Input, 8-pin DIP	2.7V	Sampling 12-bit A/D with differential input and serial I/O
LTC1283	10-Bit, 8-Ch MUX, Full Duplex I/O	2.7V	Sampling 10-bit A/D with 8-channel multiplexer
LTC1096/98	8-Bit, Micropower, Serial I/O	2.7V	Micropower, sampling A/D in 8-pin DIP, SOIC
LTC1196/98	8-Bit, High Speed Serial A/D	2.7V	1MHz sampling A/D in 8-pin SOIC
LTC1285/88	12-Bit, Micropower, Serial I/O	2.7V	Sampling 12-bit A/D in 8-pin DIP, SOIC
LTC1594L	12-Bit, 4-Input MUX, Micropower, Serial I/O	2.7V	Sampling 12-bit A/D in narrow 16-pin SO
LTC1598L	12-Bit, 8-Input MUX, Micropower, Serial I/O	2.7V	Sampling 12-bit A/D in 24-pin SSOP
<b>Single Supply Op Amps and Instrumentation</b>			
LT1178 LT1179	Dual Micropower (17μA) Quad Micropower (17μA)	2.2V	Tested at min supply, works at 1.7V with –300μV V <sub>OS</sub> skew
LT1077/8/9	Micropower (60μA) Single, Dual, Quad	2.3V	Tested at min supply, works at 1.8V with –300μV V <sub>OS</sub> skew
LT1101	Micropower Instrumentation Amp	2.3V	Tested at min supply, works at 1.7V with no V <sub>OS</sub> skew
LT1006 LT1413 LT1014	Low Power Dual Low Power Quad Low Power	2.7V 2.7V 2.95V	Tested at min supply Not tested. PSRR tested at 3.2V. Not tested.
LT1211/12 LT1213/14 LT1215/16	Dual/Quad High Speed Dual/Quad High Speed Dual/Quad High Speed	3.3V 3.3V 3.3V	Combine low V <sub>OS</sub> (150μV Max) with high speed (7MHz to 28MHz). Fully tested at V <sub>S</sub> = 3.3V.
LTC1152	Rail-to-Rail Input/Output Zero Drift Amp	2.7V	Precision zero drift op amp swings rail-to-rail on output. Input common-mode range includes both rails.
LT1366/7	Rail-to-Rail Input/Output Dual/Quad Op Amp	1.8V	Precision bipolar dual/quad op amp swings rail-to-rail on output. Input common-mode range includes both rails. LT1368/9 are C-Load™ stable.
LT1490/1	Rail-to-Rail Input/Output Dual/Quad Op Amp	2V	Micropower (50μA/amplifier), SO-8 (dual) and 14-pin SO (quad) packages
LT1498/9	10MHz, 5V/μs Dual/Quad Rail-to-Rail	2.2V	Fast, precision rail-to-rail input/output
LT2078/9	Micropower Dual/Quad (40μA)	2.2V	Standard SO-8 (dual) and 14-pin SO (quad) packages
<b>Dual Supply Op Amps</b>			
LT1097	Low Cost Precision	±1.2V	Tested at min supply
LT1008 LT1012 LT1024	Low Ib Precision Low Ib Precision (A <sub>V</sub> ≥ 1) Dual LT1012	±1.2V	Not tested at min supply, but similar to LT1097
LT1001/02	Prec. Dual LT1001	±3V ±1.35V	Tested at ±3V, I <sub>S</sub> = 650μA Not tested. Stable for A <sub>V</sub> = 1, I <sub>SV</sub> = 390μA
<b>Voltage References</b>			
LT1004-1.2/2.5	Micropower Reference	1.2V/2.5V	Low Cost
LT1034-1.2/2.5	Micropower Reference	1.2V/2.5V	Guaranteed temperature coefficient
LT1009	Low Power Reference	2.5V	High performance, low cost
LT1019-2.5	High Accuracy Reference	2.5V	Used in shunt mode, provides lowest drift, highest accuracy
<b>Voltage Comparators</b>			
LT1017	Micropower (60μA) Comparator	1.2V	Output drives up to 70mA
LT1018	Micropower (250μA) Comparator	1.2V	Faster than LT1017
LTC1040	Dual CMOS Sampling Comparator	2.8V	Unique 4 input architecture, 300mA supply current
LTC1041	CMOS Bang-Bang Controller	2.8V	8-pin package provides complete control function
LTC1042	CMOS Window Comparator	2.8V	Adjustable, noninteractive center and width control
LTC1440/1/2	Single/Dual Micropower Comparator with Reference	2V	2.8μA supply current comparator. LTC1440/42 have built-in 1.2V reference
LTC1443/4/5	Quad Micropower	2V	5.5μA total supply current, built-in 1.2V reference
<b>PCMCIA Products</b>			
LTC1470 LTC1471 LTC1472	5V and 3.3V V <sub>CC</sub> Switch Dual 5V and 3.3V V <sub>CC</sub> Switch PCMCIA V <sub>CC</sub> and VPP Switches	— — —	SafeSlot™ protected switches cut through the PCMCIA maze

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