



600mA, 1.5MHz Synchronous Step-Down Regulator Now Offered in Military Plastic Temperature Range

MILPITAS, CA – March 11, 2008 – Linear Technology announces the Military Plastic grade (MP-grade) version of the LTC3404. The LTC3404 is a high efficiency, 1.4MHz synchronous buck regulator using a constant frequency, current mode architecture. It can deliver up to 600mA of continuous output current at voltages as low as 0.8V from a MSOP-8 package. It operates from an input voltage of 2.65V to 6V, making it ideal for both single cell Li-Ion, or NiMH applications, as well as general purpose fixed rail systems. With up to 95% efficiency and only 10uA of quiescent current, the LTC3404 is ideal for handheld applications which require maximum battery run-time.

The MP grade version operates over a -55°C to 125°C operating junction temperature range, and is guaranteed and tested across the full temperature range. All electrical specifications are identical to the E and I grade versions of this part. The MP versions are ideal for military and aerospace applications which are subjected to extreme ambient temperatures.

The LTC3404MPMS8 is available in an MSOP-8 package. Pricing starts at \$4.89 each for 1,000-piece quantities.


Photo Caption: 600mA, 1.4MHz Synchronous Step-Down DC/DC Converter in Military Plastic

Summary of Features: LTC3404MPMS8

- Performance Guaranteed Over the -55°C to 125°C Temperature Range
- High Efficiency: Up to 95%
- Very Low Quiescent Current: Only 10uA During Operation
- 600mA Output Current at $V_{IN} = 3.3V$
- 2.65V to 6V Input Voltage Range
- 1.4MHz Constant Frequency Operation
- No Schottky Diode Required
- Low Dropout Operation: 100% Duty Cycle
- Synchronizable from 1MHz to 1.7MHz
- Selectable Burst Mode[®] Operation or Pulse Skipping Mode
- 0.8V Reference Allows Low Output Voltages
- Shutdown Mode Draws < 1uA Supply Current
- $\pm 2\%$ Output Voltage Accuracy
- Current Mode Control for Excellent Line & Load Transient Response
- Overcurrent & Overtemperature Protected
- Available in 8-Lead MSOP Package

About Linear Technology

Linear Technology Corporation, a manufacturer of high performance linear integrated circuits, was founded in 1981, became a public company in 1986 and joined the S&P 500 index of major public companies in 2000. Linear Technology products include high performance amplifiers, comparators, voltage references, monolithic filters, linear regulators, DC-DC converters, battery chargers, data converters, communications interface circuits, RF signal conditioning circuits, uModule[™] products, and many other analog functions. Applications for Linear Technology's high performance circuits include telecommunications, cellular telephones, networking products such as optical switches, notebook and desktop computers, computer peripherals, video/multimedia, industrial instrumentation, security monitoring devices, high-end consumer products such as digital cameras and MP3 players, complex medical devices, automotive electronics, factory automation, process control, and military and space systems. For more information, visit www.linear.com.

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