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4A, 4MHz Synchronous Step-Down Regulator Now Offered in Military Plastic, Temperature Range

MILPITAS, CA – March 18, 2008 – Linear Technology announces the Military Plastic grade (MP-grade) version of the LTC3414. The LTC3414 is a high efficiency, 4MHz synchronous buck regulator using a constant frequency, current mode architecture. It can deliver up to 4A of continuous output current at voltages as low as 0.8V from a thermally enhanced TSSOP-20 package. It operates from an input voltage of 2.25V to 5.5V, making it ideal for both single cell Li-Ion, or NiMH applications, as well as more general purpose fixed rail systems. 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. The feedback voltage specification is slightly derated ($\pm 0.5\%$), but the remainder of the electrical specifications are identical to the E and I grades. They are ideal for military and aerospace applications which are subjected to extreme ambient temperatures.

The LTC3414MPFE is available in a TSSOP-20E package. Pricing starts at \$8.23 each for 1,000-piece quantities.


Photo Caption: 4A, 4MHz Synchronous Step-Down in Military Plastic

Summary of Features: LTC3414MPFE

- Performance Guaranteed Over the -55°C to 125°C Temperature Range
- High Efficiency: Up to 95%
- I_{OUT} Up to 4A
- V_{IN} Range of 2.25V to 5.5V
- V_{OUT} Range of 0.8V- V_{IN}
- Low Quiescent Current: 64uA with No Load, <1uA in Shutdown
- 4MHz Constant Frequency with Burst Mode[®] Operation
- $\pm 2.5\%$ Output Voltage Accuracy
- Low Dropout Operation: 100% Duty Cycle
- Over-Temperature Protection
- 20-lead, Thermally Enhanced TSSOP 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.

LT, LTC, LTM, Burst Mode and  are registered trademarks and uModule is a trademark of Linear Technology Corp.

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