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4MHz, 3A Synchronous Step-Down Regulator Now Offered in High Reliability, MP-Grade Temperature Range

MILPITAS, CA – July 2, 2009 – Linear Technology announces the high reliability, MP-grade version of the LTC3412A. The LTC3412A is a high efficiency, 4MHz synchronous buck regulator that uses a constant frequency, current mode architecture. It can deliver up to 3A of continuous output current at voltages as low as 0.8V from a thermally enhanced TSSOP-16 package. It operates from an input voltage range 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 is guaranteed to operate over a -55°C to 125°C junction temperature range. The LTC3412AMP is ideal for high reliability applications that can experience a very wide ambient temperature range.

The LTC3412AMPFE is available in a TSSOP-16E package. Pricing starts at \$6.45 each for 1,000-piece quantities. For more information, visit www.linear.com.


Photo Caption: 3A, 4MHz Synchronous Step-Down

Summary of Features: LTC3412AMPFE

- High Efficiency: Up to 95%
- 3A Output Current
- Low Quiescent Current: 64uA
- Low $R_{DS(ON)}$ Internal Switch: 77mOhm
- 2.25V to 5.5V Input Voltage Range
- Programmable Frequency: 300KHz to 4MHz
- $\pm 2\%$ Output Voltage Accuracy
- 0.8V Reference Allows Low Output Voltage
- Selectable Forced Continuous/Burst Mode[®] Operation with Adjustable Burst Clamp
- Synchronizable Switching Frequency
- Low Dropout Operation: 100% Duty Cycle
- Power Good Output Voltage Monitor
- Overtemperature Protection
- Available in 16-Lead Thermally Enhanced TSSOP Package
- Overtemperature Protection
- -55°C to 125°C Operating Junction Temperature Range

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.

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