

LTC News for Immediate Release

For more information, tel. 408-432-1900
Doug Dickinson, Media Relations Mgr., ext. 2233
John Hamburger, Dir., Mktg Comm., ext. 2419
www.linear.com

**4MHz, 4A Synchronous Step-Down Regulator Now
Offered in I-Grade Temperature Range**

MILPITAS, CA – January 11, 2006 – Linear Technology announces the I-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 multi-cell NiMH applications, as well as more general purpose fixed rail systems. The I-grade version operates from a -40°C to +85°C junction temperature and is guaranteed and production tested across this entire temperature range. All electrical specifications are identical to that with the E grade version. These devices are ideal for automotive and industrial applications, which are subjected to high ambient temperatures.

The LTC3414IFE is available from stock in a TSSOP-20E package. Pricing starts at \$5.45 each for 1,000-piece quantities.

(more...)

Summary of Features: LTC3414IFE

- 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: 64 μ A with No Load, <1 μ A in Shutdown
- 4MHz Constant Frequency with Burst Mode[®] Operation
- $\pm 2\%$ Output Voltage Accuracy
- Low Dropout Operation: 100% Duty Cycle
- Overtemperature Protection
- 20-lead, Thermally Enhanced TSSOP Package

About Linear Technology Corporation

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, 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

Contact:

Doug Dickinson, Media Relations Manager

Linear Technology Corporation

1630 McCarthy Boulevard


Milpitas, CA 95035-7417

ddickinson@linear.com

408-432-1900

READER SERVICE: Call toll-free 1-800-4-LINEAR (for literature only), or go to the company's web site:

<http://www.linear.com>

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