

LTC News for Immediate Release

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**550kHz, Current Mode Step-Down DC/DC Controller in ThinSOT
Offers 140°C Maximum Junction Temperature**

MILPITAS, CA – August 3, 2005 – Linear Technology Corporation announces the “H-Grade” version of the LTC1772. The LTC1772 is a constant frequency current mode step down DC/DC controller providing excellent AC and DC load and line regulation. The “H” Grade version operates up to a junction temperature of 140°C, compared to the “E” and “I” Grade versions’ 125°C maximum junction temperature. All electrical specifications are identical for the E, I and H grade versions. The “H Grade” parts are both tested and guaranteed to the maximum junction temperature of 140°C. They are ideal for automotive and industrial applications which are subjected to high ambient temperatures.

The LTC1772 provides a $\pm 2.5\%$ output voltage accuracy and consumes only 270uA of quiescent current. It incorporates an accurate undervoltage lockout feature that shuts down the LTC1772 when the input voltage falls below 2.0V. For applications where efficiency is a prime consideration, the LTC1772 is configured for Burst Mode[®] operation, which enhances efficiency at low output current.

The LTC1772HS6 is available from stock in a ThinSOT[™] package. Pricing starts at \$2.30 each for 1,000-piece quantities.

(more...)

Summary of Features: LTC1772H

- High Efficiency: Up to 94%
- High Output Currents Easily Achieved
- Wide V_{IN} Range: 2.5V to 9.8V
- Constant Frequency 550kHz Operation
- Burst Mode Operation at Light Load
- Low Dropout: 100% Duty Cycle
- Tiny 6-Lead ThinSOT Package
- 0.8V Reference Allows Low Output Voltages
- Current Mode Operation for Excellent Line and Load Transient Response
- Low Quiescent Current: 270uA
- Shutdown Mode Draws Only 8uA Supply Current
- $\pm 2.5\%$ Reference Accuracy
- Maximum Junction Temperature of 140°C

COMPANY BACKGROUND: Linear Technology Corporation was founded in 1981 as a manufacturer of high performance linear integrated circuits. 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.

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READER SERVICE: Call toll-free 1-800-4-LINEAR (for literature only), or go to the company's web site: **<http://www.linear.com>**

Note: LT, LTC, Burst Mode and  are registered trademarks and ThinSOT is a trademark of Linear Technology Corp.