

LTC News for Immediate Release

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**No R_{SENSE} Synchronous DC/DC Controller with
Output Tracking in a 3mm x 3mm DFN**

MILPITAS, CA – September 20, 2005 – Linear Technology Corporation announces the LTC3809-1, a No R_{SENSE} ™ synchronous step-down controller in a 3mm x 3mm DFN-10 (or MSOPE-10). The device's 550KHz frequency and current mode architecture with MOSFET V_{DS} sensing eliminates the need for a current sense resistor while delivering efficiencies as high as 95%. The LTC3809-1's input voltage range of 2.75V to 9.8V makes it ideal for single or dual Li-Ion or multi-cell NiMH/NiCd/Alkaline applications, as well as standard 3.3V and 5V rails to operate in Burst Mode® with only 100uA of quiescent current, or in a pulse skipping or forced continuous mode for low out put voltage ripple.

The LTC3809-1 off a user-adjustable tracking/soft-start input that smoothly ramps the out put voltage during startup. Other features include default internal soft-start circuitry, an auxiliary winding regulation and output over-voltage protection.

The LTC3809EDD-1 and LTC3809EMSE-1 are both available from stock in 3mm x 3mm DFN-10 and MSOPE-10 packages, respectively. Pricing starts at \$2.50 each in 1,000-piece quantities.

(more...)

Summary of Features: LTC3809-1

- Programmable Output Voltage Tracking
- No Current Sense Resistor Required
- Constant Frequency Current Mode Operation for Excellent Line and load Transient Response
- Wide V_{IN} Range: 2.25V to 9.8V
- 0.6V $\pm 1.5\%$ Reference
- Low Dropout Operation: 100% Duty Cycle
- Selectable Burst Mode®/Pulse Skipping/Forced Continuous Operation
- Internal Soft-Start Circuitry
- Selectable Maximum Peak Current Sense Threshold
- Micropower Shutdown: $I_Q = 9\mu A$
- Tiny Thermally Enhanced Leadless (3mm x 3mm) DFN or 10-lead MOSP Package

COMPANY BACKGROUND: 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 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

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