

LTC News for Immediate Release

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**Miniature 750mA Standalone Li-Ion Battery Charger with
Thermistor Input in 2mm x 2mm Package**

MILPITAS, CA – December 27, 2005 – Linear Technology Corporation introduces the LTC4069, a tiny fully integrated standalone linear battery charger that can charge a single-cell Li-Ion battery at up to 750mA without overheating the device or surrounding components. This full-featured IC offers timer termination, recharge, trickle charge, NTC thermistor input and C/10 detection, and is housed in a miniature 2mm x 2mm DFN package. A complete charger solution requires only four discrete components (input capacitor, NTC thermistor, bias resistor, and a charge current program resistor) and fits into a compact form factor. Applications include digital still cameras, portable point-of-sale and diagnostic equipment, cell phones, wireless headsets, media players and USB-equipped handheld devices.

The LTC4069 requires no external MOSFET, sense resistor or blocking diode. A patented thermal regulation scheme prevents the junction temperature of the IC from exceeding 115°C by reducing charge current during high power or high ambient temperature operation. The NTC thermistor input may be used for temperature-qualified charging. Other features of the LTC4069 include a charge current monitor output for gas gauging, a 4.2V 0.5% accurate float voltage, and 5% charge accuracy. Charge current is adjustable with a standard off-the-shelf resistor. The device is designed to work with supplies up to 5.5V, including those within USB specifications and from 5V wall adapters. During shutdown, the supply current is only 20uA and battery drain current is less than 1uA.

The LTC4069 is rated for operation from -40°C to 85°C. Pricing starts at \$1.10 each in 1,000-piece quantities.

(more...)

Summary of Features: LTC4069

- Standalone Charger: Termination, Pre-Charge, Charge Control and Recharge
- C/10 Charge Current Detection Output
- Safety Timer Termination
- Programmable Charge Current up to 750mA with $\pm 5\%$ Accuracy
- Thermal Regulation Maximizes Charge Rate without Risk of Overheating
- NTC Thermistor Input for Temperature-Qualified Charging
- Charge Current Monitor Output for Gas Gauging
- No External MOSFET, Sense Resistor or Blocking Diode Required
- Tiny Low-Profile (0.75mm) 2mm x 2mm DFN 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

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