

LTC News for Immediate Release

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**300mA VLDOTM Operates from $V_{IN}=0.9V$ and
Maintains Only 45mV of Dropout**

MILPITAS, CA – December 15, 2004 – Linear Technology Corporation announces the LTC3025, a 300mA Very Low Dropout Regulator (VLDO) with input voltage capability down to 0.9V. It has a very low dropout voltage of only 45mV while delivering up to 300mA of output current. The low V_{IN} capability is important, as many emerging handheld applications are using a 1.5V main bus rail, and require output voltages from 1.25V to 0.5V to drive low voltage microprocessor and microcontroller cores. The LTC3025 can also be used for 3.3V/5V down to $V_{OUT} \leq 1.20V$, since it has a 0.4V reference. In addition, the LTC3025 offers micropower operation with only 54uA of quiescent current, and less than 1uA in shutdown, maximizing run time in handheld applications.

The LTC3025 regulator optimizes stability and transient response with low ESR ceramic output capacitors as small as 1uF. Other LTC3025 features include $\pm 2\%$ voltage accuracy over temperature and supply load, fast transient recovery, current limiting and thermal overload shutdown. Its shutdown disconnect feature disconnects both V_{IN} and V_{BIAS} from the output in shutdown mode. The LTC3025 regulator is available in a low profile 6-lead DFN (2mm x 2mm x 0.75mm) package with an exposed pad, offering a very compact and thermally efficient solution.

The LTC3025 is packaged in a 2mm x 2mm QFN-6 and is available from stock. Pricing starts at \$1.65 each for 1,000-piece quantities.

(more...)

Summary of Features: LTC3025

- Wide Input Voltage Range: 0.9V to 5.5V
- Stable with Ceramic Capacitors
- Very Low Dropout: 45mV at 300mA
- Adjustable Output Range: 0.4V to 3.6V
- $\pm 2\%$ Voltage Accuracy over Temperature, Supply Load
- BIAS Voltage Range: 2.5V to 5.5V
- Fast Transient Recovery
- Shutdown Disconnects Load from V_{IN} and V_{BIAS}
- Available in 6-Lead (2mm x 2mm) DFN Package

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).

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