



1.6V High Precision Op Amps Consume Less than 1uA

MILPITAS, CA – September 28, 2006 – Linear Technology Corporation announces a new family of ultralow power op amps that set a new standard for precision low voltage operation and tiny footprint. The LT6003 (single), LT6004 (dual) and LT6005 (quad) amplifiers draw less than 1uA and operate from 1.6V to 16V. With input offset voltage of 500uV max at 25°C and a maximum drift of 5uV/°C, the LT6003 family is the most precise low voltage ultra low op amp. A tiny 2mm x 2mm DFN package makes the footprint of the LT6003 the smallest in this class and inputs and outputs feature rail-to-rail operation. The LT6003 family is ideal for battery-operated, handheld instrumentation due to the combination of low supply current, 1.6 to 16V operating range and tiny packages.

For many micropower amplifiers, rail-to-rail operation compromises the supply current, with up to a threefold current increase as the output approaches the rails. According to Linear Technology Design Manager, Mike Kultgen, “The LT6003 family uses unique design techniques to preserve its micropower operation in all normal operating conditions as well as during startup, when the amplifier output is likely to be at the supply rail.”

Both leaded and leadless DFN packages are available with fully guaranteed specs over commercial (0°C to 70°C), industrial (-40°C to 85°C) and automotive (-40°C to 125°C) temperature ranges. The LT6003 family is available now with 1000-piece prices of \$0.72, \$1.10 and \$1.75 for the single LT6003, dual LT6004, and quad LT6005, respectively.


Photo Caption: Tiny Micropower Op Amp Boasts Wide Supply Range and Best-in-Class Precision.

Summary of Features: LT6003 / LT6004 / LT6005

- Ideal for Battery-Powered Applications
 - Low Voltage: 1.6V to 16V Operation
 - Low Current: 1uA/Amplifier Max @ 25°C on 1.8V Supplies
 - Rail-to-Rail Input and Output
 - Low Current Draw During Power-Up
- Excellent Input Performance
 - 500uV Offset – 25°C Max
 - 5uV/°C Drift – Max
 - 90pA Input Bias Current – 25°C Max
 - 3uVp-p typ. Input Noise Voltage, 0.1Hz to 10Hz
- Available in Commercial, Industrial and Automotive Temperature Grades
- Tiny Packages
 - Single 2mm x 2mm DFN or ThinSOT™
 - Dual 3mm x 3mm DFN or MSOP
 - Quad 5mm x 3mm DFN or TSSOP

About Linear Technology

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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