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SOT23 Voltage Reference Offers 10ppm/°C Drift While Limiting Noise to Only 1.6ppm

MILPITAS, CA – August 11, 2010 – Linear Technology introduces the [LT6654](#), a SOT23 series voltage reference designed specifically for precision operation from -40°C to 125°C. This voltage reference combines 0.05% initial accuracy, 10ppm temperature drift and low frequency noise of only 1.6ppm. The LT6654 can operate on a supply voltage as low as 100mV above the output, and it maintains a line regulation error of only 5ppm/V on a supply voltage up to 36V. The buffered output enables source or sink capability up to 10mA, and limits load regulation error to only 8ppm/mA. In addition, the sink capability allows the LT6654 to operate as a negative voltage reference without compromising precision. Advanced design, processing and packaging techniques ensure long term stability, as well as low thermal hysteresis over the full temperature range of -40°C to 125°C.

“The LT6654 expands the precision and stability performance of SOT23 references,” says Brendan Whelan, Design Manager for Linear Technology. “This makes the LT6654 a strong candidate for automotive and industrial applications, as well as high resolution instrumentation and data acquisition.”

The LT6654 is currently in production with a 2.5V output version. Additional voltage options will be available soon. Prices start at \$1.55 each in 1,000-piece quantities. For more information, visit www.linear.com/6654.

Photo Caption: Low Noise Precision SOT23 Reference

Summary of Features: LT6654

- Excellent Accuracy & Drift:
 - A-Grade (0.05% Initial Accuracy, 10ppm/°C Drift)
 - B-Grade (0.10% Initial Accuracy, 20ppm/°C Drift)
- Fully Specified from -40°C to 125°C
- 1.6ppm_{P,P} Noise (0.1Hz to 10Hz)
- ±10mA Sink & Source Capability
- 100mV Dropout Voltage
- Supply Voltage up to 36V
- Load Regulation: 8 ppm/mA Max
- Line Regulation: 5 ppm/V Max
- 2.5V Voltage Option Available Now
- Soon to be released: 1.25V, 2.048V, 3V, 3.3V, 4.096V & 5V
- 6-Lead SOT23 Package

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, uModule[®] products, 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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Press Contacts:

North America / Worldwide

John Hamburger, Director Marketing
Communications
jhamburger@linear.com
Tel 408-432-1900 ext 2419

UK & Nordic

Alan Timmins
alan@ezwire.com
Tel: +44-1-252-629937

Doug Dickinson, Media Relations Manager
ddickinson@linear.com
408-432-1900 ext 2233