



News Release | [www.linear.com](http://www.linear.com)

## **Industry's Lowest Noise 2.5V Voltage Reference Features 2ppm/°C Max Drift**

MILPITAS, CA – September 21, 2009 – Linear Technology announces the LTC6655, an ultra-stable voltage reference with an unequalled noise level of only 625nV<sub>p-p</sub> (0.25ppm<sub>p-p</sub>) from 0.1Hz to 10Hz.

The LTC6655 is an ideal companion to high resolution DACs and ADCs required by instrumentation and test equipment, while the fully specified temperature range of -40°C to 125°C supports automotive and industrial applications. Advanced curvature compensation allows this bandgap reference to achieve a drift of less than 2ppm/°C and an output voltage accurate to ±0.025%, reducing or eliminating the need for system calibration.

The LTC6655 low dropout series references can be powered from as little as 500mV above the output voltage, up to a maximum supply voltage of 13.2V. Superior load regulation of 3ppm/mA and ±5mA source and sink capabilities coupled with only 5ppm/V line rejection give consistent performance over a wide range of line and load conditions. A shutdown mode is provided for low power applications.

“The noise characteristics and precision of the LTC6655 are truly groundbreaking,” says Brendan Whelan, Design Manager for Linear Technology. “This reference offers the best performance available for next generation instruments.”

The LTC6655 is currently in production with a 2.5V output version. Additional voltage options will be available soon. Available in an MSOP-8 package, prices start at \$3.60 each in 1,000-piece quantities. For more information, visit [www.linear.com](http://www.linear.com).


## **Photo Caption: Lowest Noise Precision Voltage Reference**

### **Summary of Features: LTC6655**

- 0.25ppm<sub>p.p</sub> Noise (0.1Hz to 10Hz)
- Excellent Accuracy and Drift:
  - B-Grade (0.025% Initial Accuracy, 2ppm/°C Drift)
  - C-Grade (0.05% Initial Accuracy, 5ppm/°C Drift)
- Fully Specified Over -40°C to 125°C
- 100% Tested at 40°C, 25°C & 125°C
- ±5mA Sink & Source Capability
- Low Power Shutdown: <20uA Maximum
- 500mV Dropout Voltage
- Load Regulation: 3 ppm/mA
- Line Regulation: 5 ppm/V
- 2.5V Voltage Option Available Now
  - Soon to be Released: 1.25V, 2.048V, 3V, 3.3V, 4.096V & 5V
- 8-Lead MSOP 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<sup>®</sup> 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.

LT, LTC, LTM, uModule and  are registered trademarks of Linear Technology Corp. All other trademarks are the property of their respective owners.

#### **Press Contacts:**

##### **North America / Worldwide**

John Hamburger, Director Marketing  
Communications  
[jhamburger@linear.com](mailto:jhamburger@linear.com)  
Tel 408-432-1900 ext 2419

Doug Dickinson, Media Relations Manager  
[ddickinson@linear.com](mailto:ddickinson@linear.com)  
408-432-1900 ext 2233

##### **UK & Nordic**

Alan Timmins  
[alan@ezwire.com](mailto:alan@ezwire.com)  
Tel: +44-1-252-629937