



14-Bit, 25Msps ADC Guaranteed for 125°C High Temperature Applications

MILPITAS, CA – June 19, 2007 – Linear Technology announces the LTC2246H, a 25Msps, 14-bit Analog-to-Digital Converter (ADC) for high temperature, high reliability data acquisition systems. The LTC2246H, guaranteed for operation across the -40°C to 125°C temperature range, satisfies the high temperature demands of automotive and military applications. Additionally, the LTC2246H is offered in a leaded package, allowing for easier inspection of solder joints in manufacturing. This high speed ADC is targeted for collision avoidance radar (CAR) automotive systems.

At 14 bits, 25Msps, the LTC2246H consumes only 75mW, and provides excellent 74.5dB signal to noise ratio (SNR) and 90dBc spurious free dynamic range (SFDR) baseband performance. The LTC2246H is packaged in a small 5mm x 5mm TQFP package with integrated bypass capacitors, requiring only a small number of external components for more compact, cost effective designs.


For lower resolution requirements, Linear Technology is also offering the pin-compatible 12-bit 25Msps LTC2226H. Pricing for the H-grade (-40°C to 125°C) LTC2226H and LTC2246H is \$10.80 and \$18.00, respectively, each in 1,000 piece quantities.

Photo Caption: High Temperature 14-Bit 25Msps ADC in TQFP Package**Summary of Features: LTC2246H**

- Sample Rate: 25Msps
- 12-bit, 14-bit Resolution
- 74.5dB SNR, 90dBc SFDR (LTC2246H)
- Low Power: 75mW
- 575MHz Full Power Bandwidth S/H
- Single 3V Supply (2.8V to 3.5V)
- Flexible Input: 1V_{P-P} to 2V_{P-P} Range
- No Missing Codes
- Optional Clock Duty Cycle Stabilizer
- Shutdown & Nap Modes
- 32-Pin 5mm x 5mm TQFP 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, 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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