

LTC News for Immediate Release

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**7GHz Precision RF Detector with Fast Comparator
Eliminates External Components and Saves Space**

MILPITAS, CA – March 28, 2006 – Linear Technology introduces the LTC5536 RF power detector, the first to include a fast comparator. The device combines wide frequency range operation and low power in a small, cost-effective solution that allows precise detection of an RF signal. The LTC5536's voltage output is compared against a DC voltage threshold that is set by the user. The comparator output transitions when the RF input level goes above or below the threshold point. The device is ideal for detecting the presence of RF signals in 802.11 and 802.16 networks, optical data links, wireless data modems, WiMAX and cellular basestations and cable headends. The LTC5536 can also be used as an RF power monitor or envelope detector in RF ID tag readers.

The LTC5536 operates over a wide RF frequency range of 600MHz to 7GHz, supporting multi-band operation. The device incorporates temperature compensation circuitry that provides exceptionally stable and accurate RF detection over the full range of temperature extremes.

The device's on-chip comparator has a fast 20ns response time, sufficient to be used for recovery of bit stream data. The integrated functions eliminate the need to glue many discrete components together, saving considerable circuit board space.

The LTC5536 operates from a single 2.7V to 5.25V supply, drawing a typical quiescent current of only 2.1mA. The device is available from stock in a 6-lead ThinSOT™ package, priced at \$2.25 each in 1,000-piece quantities.

Summary of Features: LTC5536

- Temperature-Compensated Internal Schottky Diode RF Detector
- Wide Input Frequency Range: 600MHz to 7GHz
- Fast Comparator Output with Latch Enable
- 20ns Response Time with 0dBm RF Input Level
- Wide Input Power Range: -26dBm to 12dBm

Company Background

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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<http://www.linear.com>

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