

LTC News for Immediate Release

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**Two RF Active Mixers Offer Exceptional Linearity and
Reduce Power Consumption**

MILPITAS, CA – January 27, 2005 – Two new RF Active Mixers from Linear Technology feature low power and high performance, making them ideal for wireless infrastructure transceiver and portable radio applications. The LT5525 and LT5526 consume only one-half the power of other high performance mixers, while delivering excellent linearity to meet the requirements of cellular and wireless repeaters, pico-basestations, point-to-point wireless links and mobile radios.

The LT5526 features an IIP3 (Input Third-Order Intercept) of 16.5dBm at 900MHz, and a Noise Figure of 11dB. This performance is complemented by a conversion gain of 0.6dB. Moreover, the LT5526 requires only -5dBm LO drive, and its port-to-port LO leakage is exceptionally low at -65dBm, reducing external filtering requirements. The LT5526 has fully differential inputs and outputs, and operates over a very wide bandwidth ranging from 100kHz to 2GHz. The device has the capability for use as either a downconverting mixer or as an upconverting mixer in many applications.

The LT5525 features an on-chip RF input transformer, and offers internal 50-Ohm impedance matching at both the RF and the LO (Local Oscillator) inputs. These inputs can be driven single-ended, without external impedance matching components, thus facilitating ease-of-use and reducing costs. The LT5525's IIP3 is 21dBm IIP3 at 900MHz, and 17.6dBm at 1.9GHz. At 900MHz, the Noise Figure is 14dB and the conversion gain is -2.6dB. The LT5525 requires only -5dBm LO drive, and offers high port-to-port isolation.

Both the LT5525 and LT5526 operate from a single supply voltage, ranging from 3.6V to 5.3V. Typical operating current is 28mA. The devices can operate at a supply voltage as low as 3V with reduced linearity performance. These devices are offered in a 16-pin 4mm x 4mm surface mount QFN package. The LT5526 is priced at \$3.40 and the LT5525 is \$3.80 in 1,000-piece quantities. The products are available from stock.

(more...)

Summary of Features:

	<u>LT5525</u>	<u>LT5526</u>
• Frequency Range	100kHz to 2GHz	0.8 to 2.5GHz
• Input IP3 (900MHz)	+21 dBm	+16.5 dBm
• Noise Figure (900MHz)	14 dB	11 dB
• Conversion Gain (900MHz)	-2.6 dB	0.6 dB
• LO Drive Power	-10 to 0 dBm	-10 to 0 dBm
• LO Leakage	<-50dBm	<-65dBm


COMPANY BACKGROUND: Linear Technology Corporation was founded in 1981 as a manufacturer of high performance linear integrated circuits. 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.

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READER SERVICE: Call toll-free 1-800-4-LINEAR (for literature only), or go to the company's web site: **<http://www.linear.com>**

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