

LTC News for Immediate Release

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SOT-23 Spread Spectrum Clock for Switching Regulators

MILPITAS, CA – April 10, 2006 – Linear Technology Corporation announces the LTC6908, a tiny spread spectrum silicon oscillator optimized for switching regulators. Using a single resistor, the LTC6908 is programmable to any frequency from 50kHz to 10MHz. The LTC6908 comes in two configurations, each with dual outputs. The LTC6908-1's outputs are 180° out of phase and the LTC6908-2's outputs are 90° out of phase.

Enabling the pseudo-random spread-spectrum provides a simple, effective way to reduce EMI. In the event that the switcher bandwidth is limited, the LTC6908 modulation rate can be adjusted to one of three settings. "Implementing spread-spectrum for switchers is now trivial" says Doug LaPorte, design section lead for Linear Technology. "The user sets the frequency with one resistor and selects a modulation rate."

Fully specified over the temperature range of -40°C to 125°C, the LTC6908 offers the same outstanding features available with Linear Technology's silicon oscillator family; rugged and reliable operation under extreme conditions, fast startup and low power consumption. These parts are available in a compact 6-lead ThinSOT™ package and a 2mm x 3mm DFN. The LTC6908 is in full production with prices starting at \$1.65 each in 1,000-piece quantities.

Photo Caption: Tiny Clock Optimized for Switchers**Summary of Features: LTC6908**

- LTC6908-1: Complementary Outputs (0°/180°)
- LTC6908-2: Quadrature Outputs (0°/90°)
- 50kHz to 10MHz Frequency Range
- One Resistor Sets the Frequency
- Optional $\pm 10\%$ Frequency Spreading
- Frequency Error $\leq 1.5\%$ Max
- $\pm 40\text{ppm}/^\circ\text{C}$ Temperature Stability
- Operating Temperature Range: -40°C to 125°C
- Fast Start-Up Time: $< 1.5\text{ms}$
- Outputs Muted Until Stable
- 2.7V to 5.5V Operation
- Available in Low Profile ThinSOT and DFN (2mm x3mm) Packages

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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