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Dual, 26V_{IN}, 4A DC/DC uModule Regulator in 15mm x 15mm Surface Mount Package

MILPITAS, CA – August 25, 2009 – Linear Technology Corporation introduces the LTM4619, a complete dual step-down DC/DC uModule[®] regulator system, including inductors and MOSFETs in a tiny surface mount package. The LTM4619 regulates two output voltages ranging from 0.8V to 5V at up to 4A each from an input supply of 4.5V to 26.5V (28V abs max). The outputs are regulated with 180° out-of-phase operation to minimize input ripple current, thus requiring fewer input capacitors. This complete dual DC/DC system solution includes all the necessary components for two point-of-load regulator circuits: inductors, bypass capacitors, DC/DC controllers, compensation circuitry and power switches. All components are encapsulated and protected within a plastic surface mount LGA (land grid array) package. Package dimensions are 15mm x 15mm with only 2.8mm of thickness, providing a low profile point-of-load regulator for more efficient air cooling in densely populated circuit boards. The LTM4619 is a simple single part dual DC/DC solution in an IC form factor, designed for systems requiring localized multirail regulation from input supplies such as 5V, 12V or 24V. Applications range from avionics and medical systems to datacom and enterprise equipment.

The LTM4619 has guaranteed total DC output error of only +/-1.5%, which encompasses errors from the reference voltage as well as line and load regulation. As a current mode device with high switching frequency, the LTM4619 has very fast transient response to line and load changes while operating with excellent stability with a variety of external output capacitors. The efficiency is nominally 89% for 12V_{IN} to 3.3V_{OUT} at 4A. The device supports output voltage tracking and safety features, including overvoltage and overcurrent protection.

The LTM4619 is guaranteed for operation from -40°C to 125°C (internal temperature). The device is RoHS compliant with the ability to be soldered with Pb-free (lead-free) and Pb-based solder during board assembly. The LTM4619 is now available, priced at \$16.75 each in 1,000-piece quantities. For more information, visit www.linear.com.


Photo Caption: Two DC/DC Step-Down Circuits in One Package

Summary of Features: LTM4619

- Complete Dual 4A DC/DC System in a 15mm x 15mm x 2.8mm LGA Package
- 4.5V to 26.5V Input Operation, Ideal for 5V, 12V & 24V Systems
- 0.8V to 5V Output Voltage Range
- 2-phase Operation for Minimum Input Ripple Current
- Output Voltage Tracking & Margining
- Current Mode Operation with Fast Short Circuit Protection

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[®] 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.

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