



4.5V to 26.5V Input 6A DC/DC uModule Regulator with Tracking & Phase-Lockable Frequency Synchronization in 135mm² Footprint

MILPITAS, CA – July 21, 2010 – Linear Technology Corporation introduces the [LTM4618](#), a 6A DC/DC uModule[®] Regulator, which includes the inductor, MOSFETs, DC/DC regulator, input and output bypass capacitors and supporting circuitry in a 2.3g, 9mm x 15mm x 4.32mm LGA package. The LTM4618 features output voltage tracking for systems that need to sequence multiple rails for proper power up and down, and 250kHz to 780kHz fixed frequency PLL capability for noise-sensitive applications that require the switching frequency of the regulator to be a set value. For low voltage loads such as Vcore of FPGAs and processors, the LTM4618 includes safety features such as output overvoltage and short-circuit protection, as well as guaranteed $\pm 1.75\%$ maximum total output DC error. Applications for the LTM4618 include medical systems, ATCA cards, single-board computers, plus industrial and networking equipment.

The LTM4618's current-mode topology and its high switching frequency operation deliver very fast transient response to line and load changes without sacrificing stability. The device operates from 4.5V to 26.5V input supplies and regulates an output voltage from 0.8V to 5V. Burst Mode[®] operation or pulse-skipping mode enable selection of either the highest operating efficiency or lower output ripple at light loads. The LTM4618 is rated for operation from -40°C to 125°C. Pricing starts at \$11.30 each for 1,000-piece quantities. For more information, visit www.linear.com/4618.


Photo Caption: 6A DC/DC uModule Regulator in 9mm x 15mm LGA

Summary of Features: LTM4618

- Complete 6A Power Supply in 9mm x 15mm x 4.32mm LGA
- 4.5V to 26.5V Input Range
- 0.8V to 5V Output Range
- Output Voltage Tracking, PLL, Overvoltage & Short-Circuit Protection
- $\pm 1.75\%$ Maximum Total Output DC Error

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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