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EN55022 Class B Certified 36V, 8A Step-Down μ Module Regulator

MILPITAS, CA – May 16, 2011 – Linear Technology introduces the [LTM4613](#), an 8A step-down μ Module® regulator certified by TUV Rheinland an accredited laboratory, to meet EN55022 Class B EMI (electromagnetic interference) emissions limits at up to 96W of output power. Designed to accept an input voltage from 5V to 36V, the LTM4613 delivers a regulated output voltage from 3.3V to 15V with 2.0% maximum DC error over line, load and temperature. The converter achieves peak operating efficiencies above 95% in a 24V to 12V output application.

The LTM4613 delivers the highest output power in the EN55022 Class B certified family of μ Module regulators. This performance is made possible by an integrated pi-filter, meticulous layout, shielded inductor and carefully controlled power transistor drive. With the formal certificate and associated PCB layout files available at www.linear.com/product/LTM4613, the LTM4613 eliminates the need for external filters, magnetic shields and ferrite beads for a trouble-free design process. Also encapsulated within the surfacemount plastic package are the step-down controller, power transistors, inductor, compensation, input filter and a modest amount of input and output capacitance. A clock input pin is available to synchronize one or more LTM4613 regulators, which is particularly useful when the highly accurate current sharing feature is implemented. Additional features include externally adjustable soft-start, output voltage margining and switching frequency.


The LTM4613 is housed in a thermally efficient 15mm x 15mm x 4.3mm LGA package. Three temperature grades are available: E and I grades for the -40°C to +125°C temperature range as well as the MP grade for operation over the -55°C to +125°C temperature range. Pricing starts at \$24.40 each for 1,000-piece quantities and all temperature grades are available for immediate delivery from stock. For more information or to download the official EN55022 Class B certificate visit: www.linear.com/product/LTM4613

Photo Caption: EN55022 Class B, 8A Step-Down μ Module[®] Regulator**Summary of Features: LTM4613**

- EN55022 Class B Certified by Independent Lab
- 5V to 36V Input Voltage Range
- 3.3V to 15V Output Voltage Range with 2.0% Accuracy
- Output Current up to 8A
- Synchronizable to an External Clock
- Adjustable Soft-Start, Output Voltage Tracking and Margining
- Supports Accurate Current Sharing by Paralleling of Outputs
- Compact, Thermally Efficient 15mm x 15mm x 4.3mm LGA Package

About Linear Technology

Linear Technology Corporation, a member of the S&P 500, has been designing, manufacturing and marketing a broad line of high performance analog integrated circuits for major companies worldwide for three decades. The Company's products provide an essential bridge between our analog world and the digital electronics in communications, networking, industrial, automotive, computer, medical, instrumentation, consumer, and military and aerospace systems. Linear Technology produces power management, data conversion, signal conditioning, RF and interface ICs, and μ Module[®] subsystems.

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