



5A, 20V_{IN} Step-Down μ Module Regulator's Entire Solution Fits within 0.5cm²

MILPITAS, CA – December 17, 2014 – Linear Technology launched the [LTM4625](#), a 5A, 20V_{IN} step-down μ Module[®] (micromodule) regulator in a 6.25mm x 6.25mm x 5.01mm BGA package which, with a few passive components, fits into 0.5cm² on a double-sided PCB. Like other μ Module regulators, the LTM4625 includes the DC/DC controller, power switches, inductor and compensation components in a single package. Only two external ceramic capacitors (1206 case size) and a resistor (0603 case size) are required for operation. The LTM4625 operates from a 4V to 20V input supply, delivering a regulated output adjustable between 0.6V to 5.5V with $\pm 1.5\%$ accuracy over line, load and temperature.

The LTM4625 operates at a user adjustable switching frequency from 800kHz to 4MHz or can be synchronized to an external clock from 700kHz to over 1.3MHz. The module also provides a clock out signal at the same frequency with selectable phase shift (90°, 120° or 180°), useful when current sharing multiple LTM4625 modules for higher output current. With the addition of an external bias supply above 4V, the LTM4625 can operate from an input voltage as low as 2.375V. Output overvoltage, overcurrent and overtemperature fault protection are included in the regulator.

The LTM4625 is available with guaranteed operation over the -40°C to 125°C internal temperature range. The μ Module regulator is available for immediate delivery from stock, priced

starting at \$6.45 each for 1,000 piece quantities. For more information, visit

www.linear.com/product/LTM4625

Photo Caption: 5A, 20V_{IN} Step-Down μ Module[®] Regulator


Summary of Features: LTM4625

- 5A DC/DC Step-Down Solution in Less than 0.5cm²
 - Only Two Surface Mount Ceramic Capacitors & One Resistor Required for a Complete Solution
- 6.25mm x 6.25mm x 5.01mm BGA Package
- 4V to 20V V_{IN} Range
 - As Low as 2.375V_{IN} with External Bias Supply
- User Adjustable V_{OUT} between 0.6V to 5.5V \pm 1.5% Accurate over Line, Load & Temperature

The USA list pricing shown is for budgetary use only. International prices may differ due to local duties, taxes, fees and exchange rates.

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 over 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, μ Module[®] subsystems, and wireless sensor network products. For more information, visit www.linear.com

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