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Dual 2.5A, Single 5A Ultrathin μ Module Regulator in 6.25mm x 6.25mm x 1.8mm LGA Package

MILPITAS, CA – July 22, 2015 – Linear Technology Corporation introduces the [LTM4622](#), a dual 2.5A or single 5A step-down μ Module[®] (micromodule) regulator in a small and ultrathin package. Only three capacitors and two resistors are required, and the solution occupies less than 1cm² single-sided or 0.5cm² on a double-sided PCB. Housed in a 6.25mm x 6.25mm x 1.82mm LGA package, the LTM4622 includes the switching DC/DC regulator, MOSFETs, inductors and supporting circuitry. The ultrathin package allows the LTM4622 to be mounted on the backside of the PCB, freeing space on the topside for components such as memory and FPGAs. This makes the LTM4622 suitable for height-restricted systems such as PCIe and advanced mezzanine cards (AMC) for AdvancedTCA carrier cards in embedded computing systems.

With two independent 2.5A (3A peak) outputs, the LTM4622 allows current sharing to provide up to 5A load current. Multiple devices can be current shared for higher output current. The device has an input supply voltage range of 3.6V to 20V and can also be configured to operate from a 3.3V input supply. The LTM4622's output voltage range is 0.6V and 5.5V. Output voltage total DC accuracy is guaranteed at $\pm 1.5\%$ including load and line regulation from -40°C to 125°C . The LTM4622's 1K-piece price starts at \$7.15 each. For more information, visit www.linear.com/product/LTM4622.

Photo Caption: Dual 2.5A Ultrathin μ Module Regulator


Summary of Features: LTM4622

- Dual 2.5A (3A peak) or Single 5A Ultrathin μ Module Step-Down Regulator
- 3.3V to 20V Input; 0.6V to 5.5V Output
- Small Package: 6.25mm x 6.25mm x 1.82mm LGA
- $\pm 1.5\%$ Maximum Total DC Error Over Line, Load & Temperature (-40°C to 125°C)

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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