



36V_{IN}, 1A & 2A DC/DC Pin-Compatible uModule Regulators Make Upgrading Easy

MILPITAS, CA – November 26, 2007 – Linear Technology Corporation introduces the LTM8022 and LTM8023, 1A and 2A high voltage DC/DC uModule™ regulator systems, respectively, with up to 36V (40V_{max}) input voltage and up to 10V output voltage. The 10V output voltage range is ideal for 9.6V intermediate bus systems and the 36V input provides sufficient input protection in 24V and 28V systems. These are the newest members of Linear's LTM802x family of high-voltage uModule regulators. The LTM8022 and LTM8023 are complete DC/DC solutions that include a DC/DC controller IC, power switches, inductor, compensation circuitry and input and output bypass capacitors. The solution is protected in an enclosed plastic 11.25mm x 9mm x 2.8mm LGA (Land Grid Array) surfacemount package that weighs less than 0.86g. With identical pin functions, the two devices are interchangeable and do not require circuit board layout alteration. Because of their high input and output voltage rating, these products are well suited for applications such as 24V industrial and 28V medical and avionics systems.

The LTM8022 and LTM8023 are complete 1A and 2A, current mode, switching DC/DC point-of-load regulator systems with 3.6V to 36V input operation that can regulate an output voltage from 0.8V to 10V with only one resistor. Encapsulated packaging protects the circuit components against mechanical, chemical and ambient factors, thus improving reliability. The LTM8022 and LTM8023 are rated for operation from -40°C to 85°C. These devices are ROHS compliant. Their gold-plated pads allow both Pb- and Pb-free solder to be used during board assembly. 1,000-piece pricing starts at \$6.95 for LTM8022 & \$7.95 for LTM8023.

Photo Caption: 1A & 2A DC/DC uModule Regulators with Identical Layout

Summary of Features: LTM8022 and LTM8023

- Complete Switchmode DC/DC Regulator in a Surface-Mount Package
- Wide Input Voltage Range: 3.6V to 36V
- Wide Output Voltage Range: 0.8V to 10V
- Adjustable Operating Frequency
- Current Mode Operation for Fast Transient Response
- 11.25mm x 9mm x 2.8mm LGA Package

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. For more information, visit www.linear.com.

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