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DC/DC Controllers Generate Positive or Negative Regulated Voltage & Feature -55°C to 150°C Maximum Junction Temperature

MILPITAS, CA – April 12, 2010 – Linear Technology Corporation announces the H- and MP-grade versions of the LT3757 and LT3758 wide input range DC/DC controllers for boost, flyback, SEPIC and inverting power supply applications. These devices are capable of generating either a positive or negative regulated output voltage with a single device by having two internal voltage feedback error amplifiers and reference voltages. These H- and MP-grade versions are tested and guaranteed to operating junction temperature ranges from -40°C to 150°C and -55°C to 125°C, respectively.

The LT3757 operates with an input voltage ranging from 2.9V to 40V and the LT3758 operates over a 5.5V to 100V input voltage range. The devices achieve efficiencies up to 96%, making them well suited for industrial, automotive, military, medical and telecom applications. With a programmable fixed or synchronizable operating frequency from 100kHz to 1MHz, designers can choose a wide range of inductors and capacitors to optimize size, performance and cost. The fixed frequency, current mode control results in stable operation over a wide range of supply and output voltages, along with all ceramic capacitor designs, enabling a smaller solution size. Additional features include programmable soft-start, input undervoltage lockout, output overvoltage and overcurrent protection.

Both grades are available in the thermally enhanced MSOP-10 package. The 1000-piece price starts at \$2.56 each for the H-grade devices and \$5.98 each for the MP-grade parts. For more information, visit www.linear.com.


Photo Caption: -55°C to 150°C Operating Temperature Boost, Multitopology Controller

Summary of Features: LT3757/LT3758

- For Boost, Flyback, SEPIC & Inverting Applications
- LT3757 Input Operating Voltage: 2.9V to 40V
- LT3758 Input Operating Voltage: 5.5V to 100V
- Positive or Negative Output Voltage Setting with a Single Feedback Pin
- Selectable Fixed 100kHz to 1MHz Operating Frequency
- Synchronizable to an External Cloc
- Integrated Low-Side Driver
- True Current Mode Control
- Low Shutdown Current < 1uA
- Output Overvoltage & Overcurrent Protection
- Programmable Input Undervoltage Lockout with Hysteresis
- H-Grade: -40°C to 150°C Operating Junction Temperature
- MP-Grade: -55°C to 125°C Operating Junction Temperature

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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