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## **No-Opto 100V Isolated Monolithic Flyback Regulator Operates over a -55°C to 150°C Junction Temperature Range**

MILPITAS, CA – May 3, 2011 – Linear Technology Corporation announces a new high reliability (MP-grade) version of the [LT3511](#), a high voltage isolated monolithic flyback regulator that operates over a -55°C to 150°C junction temperature range. This device simplifies the design of an isolated DC/DC converter since it needs no optocoupler, third winding or signal transformer for feedback, as the device's output voltage is sensed from the primary-side flyback signal. The LT3511 operates over a 4.5V to 100V input voltage range, has a 240mA, 150V onboard power switch and delivers up to 2.5 watts, making it well suited for a wide variety of telecom, datacom, automotive, industrial and medical applications.

The LT3511 operates in a boundary mode, a current-mode control switching scheme, resulting in +/-5% typical regulation over the full line, load and temperature range. Boundary mode, also known as critical conduction mode (CrCM), permits the use of a smaller transformer compared to equivalent continuous conduction mode designs. The output voltage is easily set by two external resistors and the transformer turns ratio. Several transformers identified in the data sheet can be used for numerous applications. Additional features include an onboard low dropout regulator for IC power, undervoltage lockout and output voltage temperature compensation. The high level of integration results in a simple, clean, tightly regulated solution for isolated power delivery.

The LT3511MPMS is available in a small MSOP-16 package with 4 pins removed for additional high voltage pin spacing. Pricing starts at \$8.95 each in 1000-piece quantities. For more information, visit [www.linear.com/product/LT3511](http://www.linear.com/product/LT3511)


## **Photo Caption: 100V Isolated Monolithic Flyback Regulator**

### **Summary of Features: LT3511MP**

- VIN Range from 4.5V to 100V
- Onboard 240mA, 150V Integrated Power Switch
- No Optocoupler, Transformer or Third Winding Required for Feedback
- Current-Mode Control
- Boundary-Mode Operation
- VOUT Set with Two External Resistors
- Off-the-Shelf Transformers
- Programmable Undervoltage Lockout
- Output Voltage Temperature Compensation
- -55°C to 150°C Junction Temperature

### **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  $\mu$ Module<sup>®</sup> subsystems.

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