



News Release | www.linear.com

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

MILPITAS, CA – September 15, 2011 – Linear Technology Corporation announces the new high reliability (MP-grade) version of the [LT3512](#), 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. The LT3512 requires no optocoupler, third winding or signal transformer for feedback, as the device's output voltage is sensed from the primary-side flyback signal. The LT3512 operates over a 4.5V to 100V input voltage range, has a 420mA, 150V power switch and delivers up to 4.5 watts of output power, making it well suited for a wide variety of telecom, datacom, automotive, industrial and military applications.

The LT3512 operates in a boundary mode, current-mode control switching scheme, resulting in less than +/-5% regulation over the full line, load and temperature range. Boundary mode, also known as critical conduction mode (ccm), 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. The device's high level of integration results in a simple, clean, tightly regulated application solution to the traditional challenge of isolated power delivery.

The LT3512MP is available in a small MSOP-16 package with 4 pins removed for additional high voltage pin spacing. Pricing starts at \$9.35 each in 1000-piece quantities. For more information, visit www.linear.com/product/LT3512MP


Photo Caption: 100V Isolated Monolithic Flyback Regulator

Summary of Features: LT3512MP

- V_{IN} Range from 4.5V to 100V
- Onboard 420mA, 150V Integrated Power Switch
- No Optocoupler, Transformer or Third Winding Required for Feedback
- Boundary-Mode Operation
- V_{OUT} Set with Two External Resistors
- Off-the-Shelf Transformers
- Programmable Undervoltage Lockout
- Output Voltage Temperature Compensation
- -55°C to 150°C Operating Junction Temperature Range

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 μ Module[®] subsystems.

LT, LTC, LTM, μ Module and  are registered trademarks of Linear Technology Corp. All other trademarks are the property of their respective owners.

Press Contacts:

North America / Worldwide

John Hamburger, Director Marketing
Communications
jhamburger@linear.com
Tel: 408-432-1900 ext 2419

Doug Dickinson, Media Relations Manager
ddickinson@linear.com
Tel: 408-432-1900 ext 2233

UK & Nordic

Alan Timmins
alan@ezwire.com
Tel: +44-1-252-629937