



Phase Modulated Full-Bridge Controller Features -40°C to 150°C Operating Junction Temperature Range

MILPITAS, CA – April 3, 2013 – Linear Technology Corporation announces the H-grade version of the [LTC3722-1](#), a phase-modulated full bridge DC/DC controller with adaptive or manual zero voltage switching (ZVS). The device's ZVS delay control and adjustable synchronous rectification timing optimize efficiency while reducing transformer size and electromagnetic interference, making it well suited for isolated high power applications of up to several kilowatts.

The LTC3722-1's adaptive zero voltage technology is accomplished by sensing the bridge MOSFETs and input voltage, allowing the converter to adapt to any change in load current, temperature, component tolerances, driver circuitry delay or input voltage variations. Additional features include fixed frequency current mode control, adjustable current limit, leading edge blanking, soft start, short-circuit protection and programmable slope compensation. An accurate 5V low dropout regulator provides up to 15mA to power auxiliary circuits.

The H-grade version operates up to a junction temperature of 150°C, compared to the E- and I-grade versions' 85°C maximum junction temperature. The H-grade product is tested and guaranteed to the maximum junction temperature of 150°C, making it ideal for automotive and industrial applications which are subjected to high ambient temperatures.

The LTC3722-1 is available in an SSOP-24 package. The 1000-piece price starts at \$6.24 each for the H-grade device. For more information, visit www.linear.com/product/LTC3722.

Photo Caption: 150°C Full-Bridge Controller

Summary of Features: LTC3722-1

- Adaptive or Manual Zero Voltage Switching
- Adjustable Synchronous Rectification
- Programmable Leading Edge Blanking
- Current Mode Control
- Fixed Programmable Operating Frequency from 100kHz to 600kHz
- Synchronizable Operating Frequency from 100kHz to 600kHz
- Adjustable Current Limit
- Soft Start
- 5V/15mA LDO output
- Programmable Slope Compensation
- Short-Circuit & Overload Protection
- -40°C to 150°C Operating Junction Temp 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, μ Module[®] subsystems, and wireless sensor network products. For more information, visit www.linear.com

 , LT, LTC, LTM, Linear Technology, the Linear logo and μ Module 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