



15V, 2.5A Synchronous Boost DC/DC Converter Now Offered in 150°C “H” Grade

MILPITAS, CA – September 11, 2013 – Linear Technology announces the high temperature H-grade version of the [LTC3122](#) in a 12-lead thermally enhanced MSOP package. The LTC3122 is a 3MHz current-mode, synchronous boost DC/DC converter with integrated output disconnect. Its internal 2.5A switches deliver output voltages as high as 15V from an input voltage range of 1.8V at start-up (0.5V when running) to 5.5V, making it ideal for various battery chemistries or standard 3.3V and 5V power sources. The LTC3122 can deliver up to 800mA of continuous output current at 12V from a 5V input. Pin-selected Burst Mode[®] operation lowers quiescent current to only 25µA, providing extended battery run time in handheld applications. The combination of its thermally enhanced MSOP-12 package and a constant switching frequency up to 3MHz enables the designer to balance printed circuit board solution size with required efficiency.

The H-grade version is specified over an operating junction temperature range of -40°C to +150°C. The electrical specifications are identical to the existing E and I grades. This version is ideal for automotive, industrial and military applications that are subject to high ambient temperatures.

The LTC3122HMSE is available in a 12-lead thermally enhanced MSOP package, priced starting at \$2.98 each for 1,000-piece quantities and is available from stock. For more information, visit www.linear.com/product/LTC3122


Photo Caption: High Temperature Version of 15V, 2.5A Synchronous Boost DC/DC Converter

Summary of Features: LTC3122HMSE

- 150°C Max Operating Junction Temperature
- V_{IN} Range: 1.8V to 5.5V, 500mV After Start-Up
- Output Voltage Range: 2.2V to 15V
- 800mA Output Current for $V_{IN} = 5V$ & $V_{OUT} = 12V$
- Output Disconnects from Input when Shutdown
- Synchronous Rectification: up to 95% Efficiency
- Inrush Current Limit
- Up to 3MHz Adjustable Switching Frequency Synchronizable to External Clock
- Selectable Burst Mode® Operation: 25µA I_Q
- Output Overvoltage Protection
- Soft-Start
- <1µA I_Q in Shutdown
- 12-Lead Thermally Enhanced MSOP Package

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 over 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, µModule® subsystems, and wireless sensor network products. For more information, visit www.linear.com

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