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Wide V_{IN} Range Flyback Controller is Specified over a -55°C to 150°C Junction Temperature Range

MILPITAS, CA – May 25, 2011 – Linear Technology Corporation announces the high reliability (MP-grade) version of the [LTC3805/-5](#), a programmable frequency flyback controller that operates over a -55°C to 150°C junction temperature range. This high-performance shunt regulated input voltage PWM (pulse width modulation) controller enables for wide input voltages ranging from 5V to off-line applications and is ideal for users requiring one power supply for both 48V and 24V nominal input systems.

The LTC3805/-5 has a current-mode control architecture that provides excellent transient response and cycle-by-cycle current limit while simplifying feedback loop stability. Fixed frequency operation is from 70kHz to 700kHz and can be synchronized to an external clock. The low start-up (40μA) and operating currents (360μA) minimize power loss and improve efficiency. Its low 100mV current-limit threshold further reduces power loss. Additional features include adjustable soft start, programmable slope compensation, remote on/off and overvoltage protection. The LTC3805MP-5 features a lower turn-on voltage of 4.5V versus 8.4V for the LTC3805MP.

The LTC3805MP/-5 versions are available from stock in the thermally enhanced MSOP-10 package. Pricing starts at \$4.76 each for 1,000 piece quantities. For more information, visit www.linear.com/product/LTC3805


Photo Caption: -55°C to 150°C Operating Junction Temperature Flyback Controllers

Summary of Features: LTC3805MP/-5

- Shunt Regulated Input Voltage
- Low Start-Up & Operating Current
- Current Mode Control
- Low 100mV Current Sense Threshold Voltage
- 70kHz to 700kHz Programmable Constant Frequency Operation
- Synchronizable to an External Clock
- Programmable Turn-On Voltage
- Adjustable Slope Compensation
- Cycle-by-Cycle & Hiccup Current-Limit Protection
- Overvoltage Protection
- Programmable Soft Start
- Thermally Enhanced MSOP-10 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 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.

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