

Data Conversion

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DC1009A-C - LTC2486 Evaluation Kit

FEATURES	DESCRIPTION	PACKAGING	ORDER INFO	SIMULATE	
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FEATURES

- LTC2488 Evaluation Kit
- [To be used in conjunction with DC590 USB Serial Controller Board](#)
- **Disclaimer:** Linear Technology cannot assume responsibility for use of any circuitry other than circuitry entirely embodied in a Linear Technology product. No circuit patent licenses are implied. Linear Technology reserves the right to change the circuitry and specifications without notice at any time.

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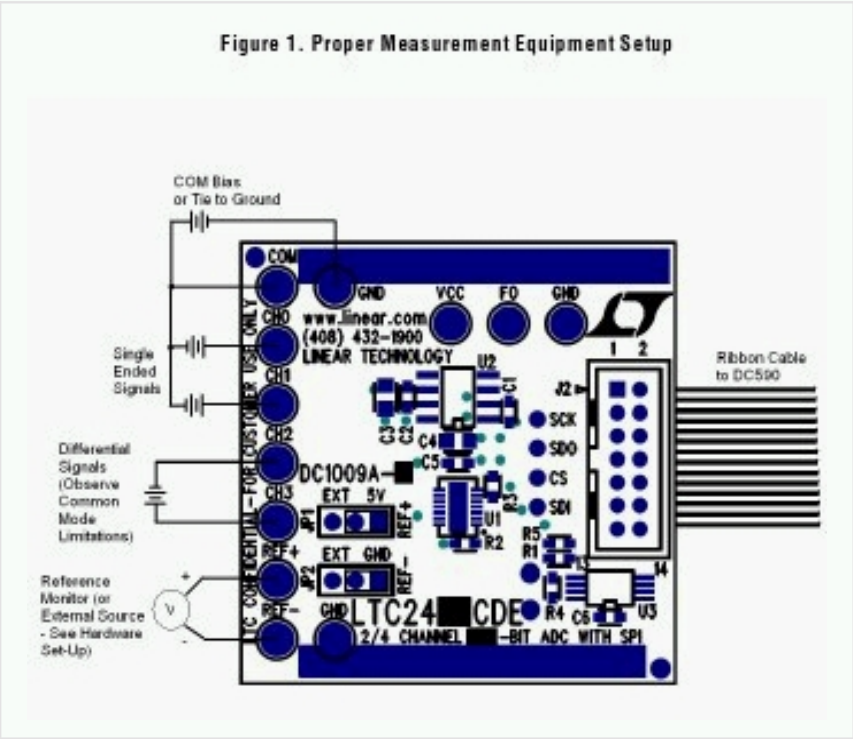
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Documentation

Reference Design
[DC1009A - LTC2492 Evaluation Kit Quick Start Guide](#)

TYPICAL APPLICATION



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DESCRIPTION

Demonstration circuit 1009A-A features the LTC2492 2/4 channel, 24Bit ? ? ADC with EasyDrive inputs. Key DC specifications include 2ppm INL, 1ppm offset, 25ppm full-scale error and 10nV/°C offset drift. In the 6.8Hz/600nVRMS mode, input normal mode rejection of 50Hz and 60Hz noise is better than 87dB. The LTC2492 also includes an internal temperature sensor that is accurate to 2 degrees C over the operating temperature range.

Demonstration circuit 1009A-B features the LTC2488 16Bit ADC that is pinout and software compatible with the LTC2492.

Demonstration circuit 1009A-C features the LTC2486 16/PGABit ADC that also includes a PGA with a gain range from 1 to 256 and the same temperature sensor as the LTC2492.

DC1009 is a member of Linear Technology's QuickEval™ family of demonstration boards. It is designed to allow easy evaluation of the LTC2492, LTC2488 or LTC2486. DC1009 may be connected directly to the target application's analog signals while using the DC590 USB Serial Controller board and supplied software to measure performance. After evaluating with LTC's software, the digital signals can be connected to the application's processor / controller for development of the serial interface.

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PACKAGING

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ORDER INFO

- Part numbers ending in PBF are [lead free](#). Please contact LTC marketing for information on lead based finish parts.
- Part numbers containing TR or TRM are shipped [in tape and reel or 500 unit mini tape and reel](#) respectively
- Please refer to our [general ordering information](#) or the product datasheet for more details

Evaluation Kits

Part Number	Description	Price
DC1009A-C	LTC2486 16bit 2-ch ADC with Temp Sensor, PGA, req DC590	\$50.00
DC590B	none USB Serial Controller	\$125.00
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APPLICATIONS

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SIMULATE

To simulate selected Linear Technology products, please download [LTSpice / SwitcherCAD III](#) This powerful schematic capture and simulation tool includes macro models for 80% of Linear Technology's switching regulators, over 200 op amp models, as well as resistors, transistors and MOSFET models.

For other simulation tools, visit our [Design Simulation and Device Models](#) page.

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