

Ultra-Tiny 16-Bit $\Delta\Sigma$ ADC Family

		30Hz/60Hz ADCs with External Reference	60Hz ADCs with 10ppm/°C Reference	Fast (250Hz/1000Hz) ADCs with 10ppm/°C Reference
SPI	Single-Ended	2450/ 2450-1	2460	2470
	Differential	2452	2462	2472
	Packages	2mm × 2mm DFN, 3mm × 2mm DFN, 8-Lead TSOT-23	3mm × 3mm DFN, 12-Lead MSOP	3mm × 3mm DFN, 12-Lead MSOP
I ² C	Single-Ended	2451	2461	2471
	Differential	2453	2463	2473
	Packages	3mm × 2mm DFN, 8-Lead TSOT-23	3mm × 3mm DFN, 12-Lead MSOP	3mm × 3mm DFN, 12-Lead MSOP

LTC2470–LTC2473: Fast, 16-Bit $\Delta\Sigma$ ADCs with 10ppm/°C Reference

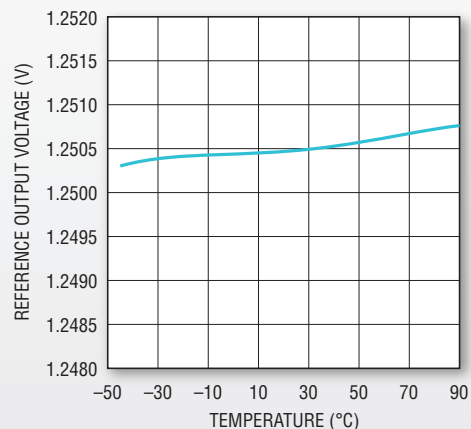
Features

- 16-Bit Resolution, No Missing Codes, at Maximum Output Rate (1ksps)
- Internal, High Accuracy Reference – 10ppm/°C (Max)
- 0V to 1.25V Single-Ended Input or $\pm 1.25V$ Differential Inputs
- Selectable 250sps/1ksps Output Rate
- 1mV Offset Error, 0.01% Gain Error
- 3.5mA (Typ) Supply Current
- 2 μ A (Max) Sleep Current
- 2.7V to 5.5V Single Supply
- Internal Oscillator – No External Components Required
- Small 12-Lead, 3mm × 3mm DFN and MSOP Packages

Applications

- System Monitoring
- Environmental Monitoring
- Direct Temperature Measurements
- Instrumentation
- Industrial Process Control
- Data Acquisition
- Embedded ADC Upgrades

V_{REF} vs Temperature



LT, LT, LTC, LTM, Linear Technology and the Linear logo are registered trademarks and Easy Drive is a trademark of Linear Technology Corporation. All other trademarks are the property of their respective owners.

Complete Easy Drive ADC Family



LTC2498: 24-Bit, 16-Channel Easy Drive $\Delta\Sigma$ ADC

Features

- 8 Differential/16 Single-Ended Input Channels
- Easy Drive™ Technology Enables Rail-to-Rail Inputs with Zero Differential Current
- Directly Digitizes High Impedance Sensors with Full Accuracy
- 600nV_{RMS} Noise
- Internal Temperature Sensor (2°C Maximum), Internal Oscillator
- Selectable 50Hz, 60Hz Rejection, Up to 15Hz Output Rate

