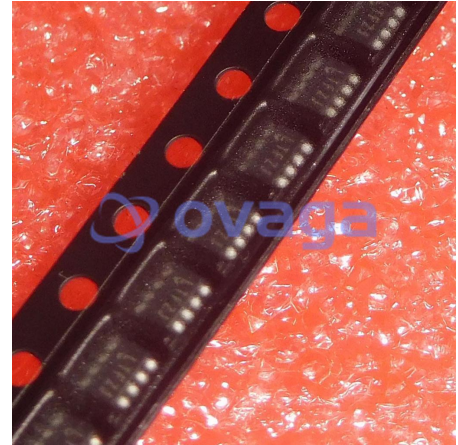


Analogue to Digital Converter, 12 bit, 2.5 MSPS, Single Ended, SPI, Single, 2.7 V

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	SOT-8
Product Type	Data Conversion ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LTC2313ITS8-12#TRMPBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The LTC2313-12 is a 12-bit, 2.5MSPS, serial sampling A/D converter that draws only 5mA from a single 3V or 5V supply. The LTC2313-12 contains an integrated low drift reference and reference buffer providing a low cost, high performance (20ppm/°C maximum) and space saving solution. The LTC2313-12 achieves outstanding AC performance of 72.6dB SINAD and -84dB THD while sampling at 2.5MSPS. The extremely high sample rate-to-power ratio makes the LTC2313-12 ideal for compact, low power, high speed systems. The supply current decreases at lower sampling rates as the device automatically enters nap mode after conversions.

The LTC2313-12 has a high speed SPI-compatible serial interface that supports 1.8V, 2.5V, 3V and 5V logic. The fast 2.5MSPS throughput with no cycle latency makes the LTC2313-12 ideally suited for a wide variety of high speed applications.

BitsLTC2313-12 12LTC2313-14 14

## Features

2.5Msps Throughput Rate

No Cycle Latency

Guaranteed 12-Bit No Missing Codes

Single 3V or 5V Supply

Low Noise: 73dB SNR

Low Power: 14mW at 2.5Msps and 3V Supply

Low Drift (20ppm/°C Maximum) 2.048V or 4.096V Internal Reference

Sleep Mode with < 1μA Typical Supply Current

Nap Mode with Quick Wake-Up < 1 Conversion

Separate 1.8V to 5V Digital I/O Supply

High Speed SPI-Compatible Serial I/O

Guaranteed Operation from -40°C to 125°C

8-Lead TSOT-23 Package

## Application

Communication Systems

High Speed Data Acquisition

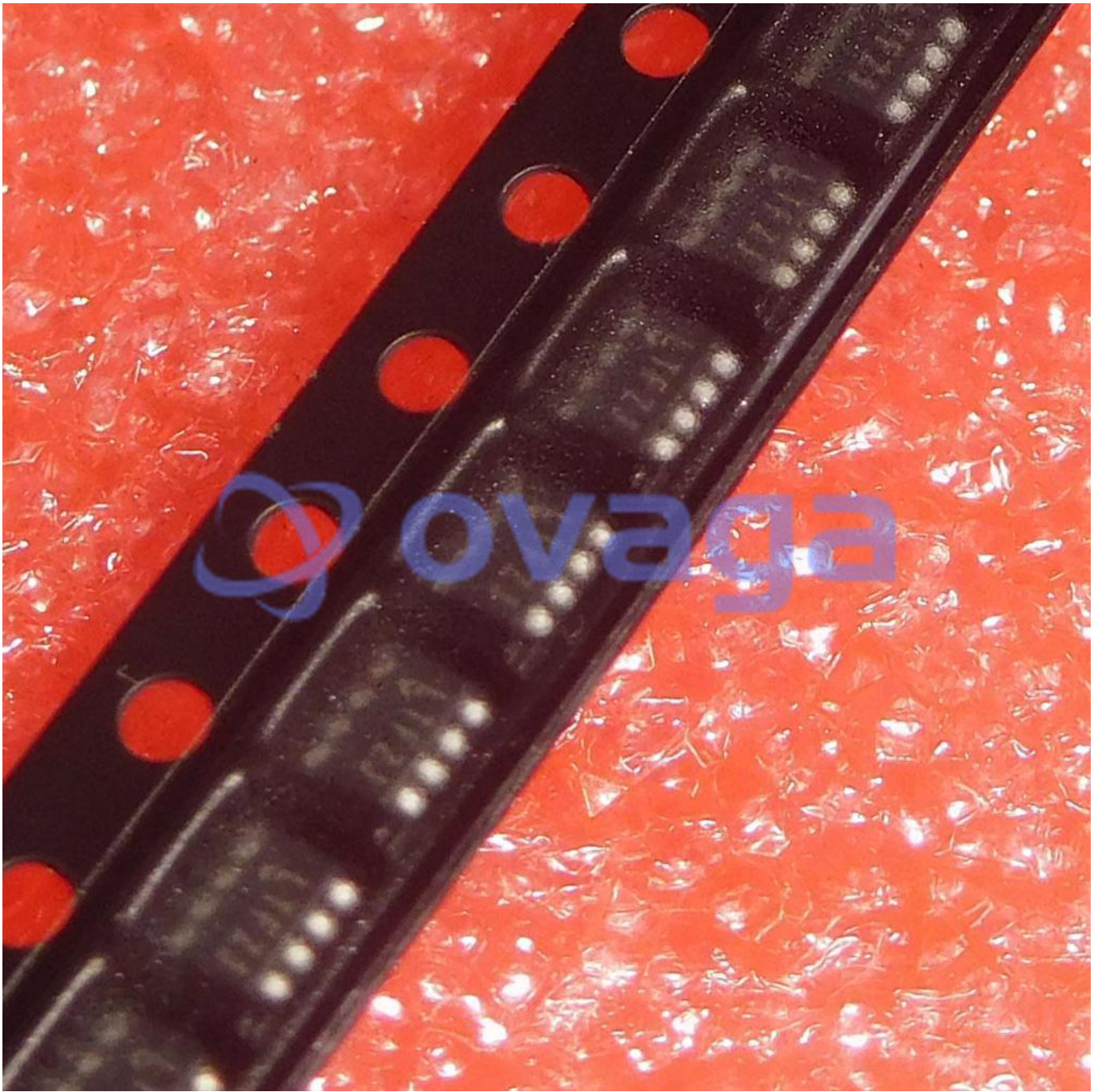
Handheld Terminal Interface

Medical Imaging

Uninterrupted Power Supplies

Battery Operated Systems

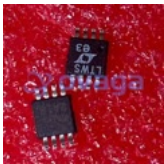
Automotive







### Related Products



[LTC1860IMS8#PBF](#)

Analog Devices, Inc  
MSOP-8



[LT1171CQ](#)

Analog Devices, Inc  
TO-263



[LTC2351IUH-14#PBF](#)

Analog Devices, Inc  
QFN-32



[LTC2600CGN#PBF](#)

Analog Devices, Inc  
SSOP16



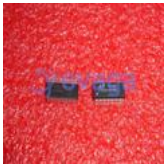
[LTC2485IDD#PBF](#)

Analog Devices, Inc  
DFN-10



[LTC2642CMS-16#PBF](#)

Analog Devices, Inc  
10MSOP



[LTC2418IGN#PBF](#)

Analog Devices, Inc  
SSOP28



[LTC1865AIMS#PBF](#)

Analog Devices, Inc  
MSOP-1