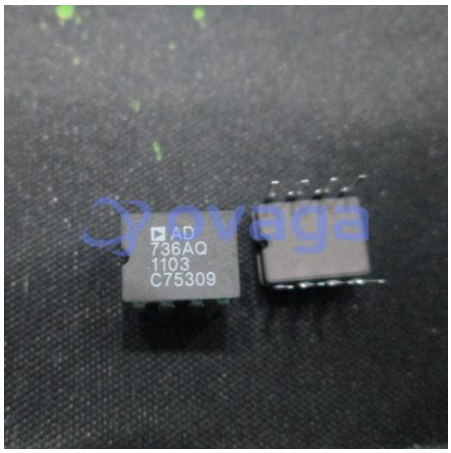
AD736AQ

Data Sheet

RMS to DC Converter 12V 200000uA 190kHz/460kHz 8-Pin CDIP Tube

Manufacturers	Analog Devices, Inc
Package/Case	CDIP-8
Product Type	Analog Functions ; RMS to DC Converters
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for AD736AQ or Email to us: sales@ovaga.com We will contact you in 12 hours. RFQ

General Description

The AD7366/AD7367 are dual 12-bit/14-bit, high speed, low power, successive approximation analog-to-digital converters (ADCs) that feature throughput rates up to 1 MSPS. The device contains two ADCs, each preceded by a 2-channel multiplexer, and a low noise, wide bandwidth track-and-hold amplifier.

The AD7366/AD7367 are fabricated on the Analog Devices, Inc., industrial CMOS process (iCMOS1), which is a technology platform combining the advantages of low and high voltage CMOS. The iCMOS process allows the AD7366/AD7367 to accept high voltage bipolar signals in addition to reducing power consumption and package size. The AD7366/AD7367 can accept true bipolar analog input signals in the ±10 V range, ±5 V range, and 0 V to 10 V range.

The AD7366/AD7367 have an on-chip 2.5 V reference that can be disabled to allow the use of an external reference. If a 3 V reference is applied to the DCAPA and DCAPB pins, the AD7366/AD7367 can accept a true bipolar ±12 V analog input. Minimum ±12 V VDD and VSS supplies are required for the ±12 V input range.

Product Highlights

The AD7366/AD7367 can accept true bipolar analog input signals, as well as ±10 V, ±5 V, ±12 V (with external reference), and 0 V to 10 V unipolar signals.

Two complete ADC functions allow simultaneous sampling and conversion of two channels.

1 MSPS serial interface: SPI-/QSPI-/DSP-/MICROWIRE-compatible interface.

1iCMOS Process Technology. For analog systems designers within industrial/instrumentation equipment OEMs who need high performance ICs at higher voltage levels, iCMOS is a technology platform that enables the development of analog ICs capable of 30 V and operating at ±15 V supplies while allowing dramatic reductions in power consumption and package size, and increased ac and dc performance.

Features

Dual 12-bit/14-bit, 2-channel ADC

True bipolar analog inputs

Programmable input ranges: ±10 V, ±5 V, 0 V to 10 V ±12 V with 3 V external reference

Throughput rate: 1 MSPS

Simultaneous conversion with read in less than 1 µs

Low current consumption: 8.3 mA typical in normal mode 320 nA typical in shutdown mode

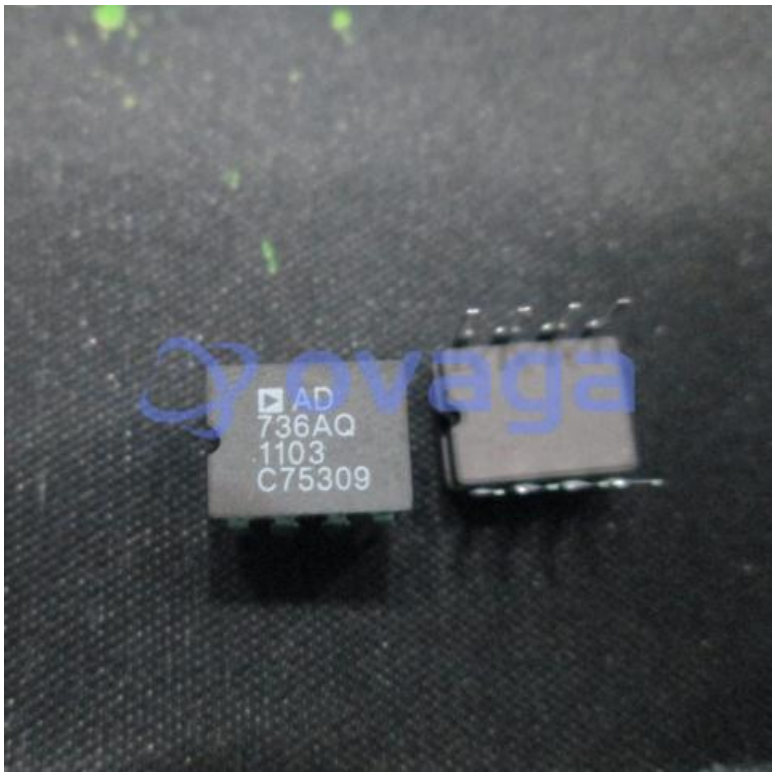
High analog input impedance

AD7366 72 dB SNR at 50 kHz input frequency 12-bit no missing codesAD7367

AD736776 dB SNR at 50 kHz input frequency 14-bit no missing codes

Accurate on-chip reference: 2.5 V ± 0.2%

High speed serial interface Compatible with SPI®, QSPI™, MICROWIRE™, and DSP



Related Products

[ADP3336ARMZ-REEL7](#)

Analog Devices, Inc

MSOP-8

[AD737JRZ](#)

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SOP-8

[ADP3367ARZ](#)

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