AD9260ASZ

Data Sheet

16-Bit High Speed Oversampled A/D Converter; Package: MQFP (13.20mm wide); No of Pins: 44; Temperature Range: Industrial

Manufacturers	Analog Devices, Inc
Package/Case	QFP-44
Product Type	Data Conversion ICs
RoHS	Pb-free Halide free
Lifecycle	

Images are for reference only

Please submit RFQ for AD9260ASZ or Email to us: sales@ovaga.com We will contact you in 12 hours. RFQ

General Description

The AD9260 is a 16-bit, high speed oversampled analog-to-digital converter (ADC) that offers exceptional dynamic range over a wide bandwidth. The AD9260 is manufactured on an advanced CMOS process. High dynamic range is achieved with an oversampling ratio of 8X through the use of a proprietary technique which combines the advantages of sigma-delta and pipeline converter technologies.

The AD9260 is a switched-capacitor ADC with a nominal full-scale input range of 4V. It offers a differential input with 60dB of common mode rejection of common mode signals. The signal range of each differential input is +/- 1V centered on a 2.0V common-mode level.

The on-chip decimation filter is configured for maximum performance and flexibility. A series of three half-band FIR filter stages provide 8X decimation filtering with 85 dB of stopband attenuation and 0.004dB of passband ripple. An on-board digital multiplexerallows the user to access data from the various stages of the decimation filter.The on-chip programmable reference and reference buffer amplifier are configured for maximum accuracy and flexibility. An external reference can also be chosen to suit the users specific dc accuracy and drift requirements.

The AD9260 operates on a single +5V supply, typically consuming 550mW of power. A power scaling circuit is provided allowing the AD9260 to operate at power consumption levels as low as 150mW at reduced clock and data rates. The AD9260 is available in a 44-pin MQFP package and is specified to operate over the industrial temperature range.

Features

8x Oversampling Mode, 20 MSPS Clock

2.5 MHz Output Word Rate

1.01 MHz Signal Passband w/ 0.004 dB Ripple

Signal-to-Noise Ratio: 88.5 dB

Total Harmonic Distortion: –96 dB

Spurious Free Dynamic Range:100 dB

Input Referred Noise: 0.6 LSB

Selectable Oversampling Ratio: 1x, 2x, 4x, 8x

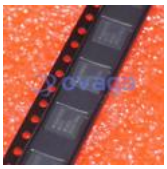
Selectable Power Dissipation: 150 mW to 585 mW

85 dB Stopband Attenuation

Single +5 V Analog Supply, +5 V/+3 V Digital Supply

Synchronize Capability for Parallel ADC Interface

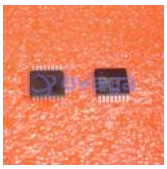
Related Products



ADAS3022BCPZ

Analog Devices, Inc

LFCSP-40



AD7266BSUZ

Analog Devices, Inc

TQPF-32

AD574AJNZ

Analog Devices, Inc

PDIP-28

AD7401YRWZ

Analog Devices, Inc

SOIC-16

AD7938BSUZ

Analog Devices, Inc

TQFP-32

AD7192BRUZ-REEL

Analog Devices, Inc

TSSOP-24

AD7124-8BCPZ-RL7

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LFCSP-32

AD9680BCPZ-500

Analog Devices, Inc

LFCSP-64