

AD7892ARZ-1

Data Sheet

1-Channel Single ADC SAR 500ksps 12-bit Parallel/Serial 24-Pin SOIC W Tube

Manufacturers	Analog Devices, Inc
Package/Case	SOIC-24
Product Type	Data Conversion ICs
RoHS	Rohs
Lifecvcle	



Images are for reference only

Please submit RFQ for AD7892ARZ-1 or Email to us: sales@ovaga.com We will contact you in 12 hours.

<u>RFQ</u>

General Description

The AD7892 is a high speed, low power, 12-bit A/D converter that operates from a single +5 V supply. The part contains a 1.47 μ s successive approximation ADC, an on-chip track/hold amplifier, an internal +2.5 V reference and on-chip versatile interface structures that allow both serial and parallel connection to a microprocessor. The part accepts an analog input range of ±10 V or ±5 V (AD7892-1), 0 V to +2.5 V (AD7892-2) and ±2.5 V (AD7892-3). Overvoltage protection on the analog inputs for the AD7892-1 and AD7892-3 allows the input voltage to go to ±17 V or ±7 V respectively without damaging the ports.

The AD7892 offers a choice of two data output formats: a single, parallel, 12-bit word or serial data. Fast bus access times and standard control inputs ensure easy parallel interface to microprocessors and digital signal processors. A high speed serial interface allows direct connection to the serial ports of microcontrollers and digital signal processors.

In addition to the traditional dc accuracy specifications such as linearity, full-scale and offset errors, the part is also specified for dynamic performance parameters including harmonic distortion and signal-to-noise ratio.

The AD7892 is fabricated in Analog Devices' Linear Compatible CMOS (LC^2MOS) process, a mixed technology process that combines precision bipolar circuits with low-power CMOS logic. It is available in a 24-pin, 0.3" wide, plastic or hermetic DIP or in a 24-pin SOIC.

Features

- Fast 12-Bit ADC with 1.47 µs Conversion Time
- 600 kSPS Throughput Rate (AD7892-3)
- 500 kSPS Throughput Rate (AD7892-1, AD7892-2)
- Single Supply Operation
- On-Chip Track/Hold Amplifier
- High Speed Serial and Parallel Interface
- Low Power, 60 mW typ
- Selection of Input Ranges:
- $0\ V$ to +2.5 V for AD7892-2

Overvoltage Protection on Analog Inputs (AD7892-1 and AD7892-3)



Related Products



ADAS3022BCPZ

Analog Devices, Inc LFCSP-40



AD574AJNZ Analog Devices, Inc

PDIP-28



<u>AD7938BSUZ</u>

Analog Devices, Inc TQFP-32



AD7124-8BCPZ-RL7

Analog Devices, Inc LFCSP-32



AD7266BSUZ

Analog Devices, Inc TQPF-32



AD7401YRWZ Analog Devices, I



Analog Devices, Inc SOIC-16

AD7192BRUZ-REEL

Analog Devices, Inc TSSOP-24

AD9680BCPZ-500

Analog Devices, Inc LFCSP-64