

250 kSPS 16-BIT PulSAR® A/D Converter in μ SOIC; Package: MSOP; No of Pins: 8;
Temperature Range: Industrial

Manufacturers	Analog Devices, Inc
Package/Case	MSOP-8
Product Type	Data Conversion ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for AD7694ARMZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The AD7694 is a 16-bit, 250 kSPS, charge redistribution successive-approximation Analog-to-Digital Converter which operates from a single power supply, VDD between 2.7 V to 5.25 V. It contains a very low power high-speed 16-bit sampling ADC with no missing codes (B grade), an internal conversion clock and a SPI compatible serial interface port. The part also contains a low noise, wide bandwidth, very short aperture delay track/hold circuit. On the CNV rising edge, it samples an analog input IN+ between 0 V to REF with respect to a ground sense IN-. The reference voltage REF is applied externally and can be set up to the supply voltage.

Its power scales linearly with throughput.

The AD7694 is housed in a 8-lead μ SOIC with operation specified from -40°C to $+85^{\circ}\text{C}$.

Features

16 Bits Resolution

Throughput: 250 kSPS

INL: ± 4 LSB Max

Power Dissipation: 800 μ A @ 5V/100 kSPS 540 μ A @ 2.7V/100 kSPS

Pseudo-Differential Analog Input Range: 0 V to VREF with VREF up to VDD

S/(N+D): 92 dB @ 20 kHz

No Pipeline Delay

Single Supply Operation 2.7 V or 5 V

Serial Interface SPI®/QSPI™/ μ Wire/DSP compatible

μ SOIC Package (μ SO8)

Improved 2nd Source of LTC1864 and LTC1864L

Application

Battery Powered Equipments:

Medical instruments

Mobile communications

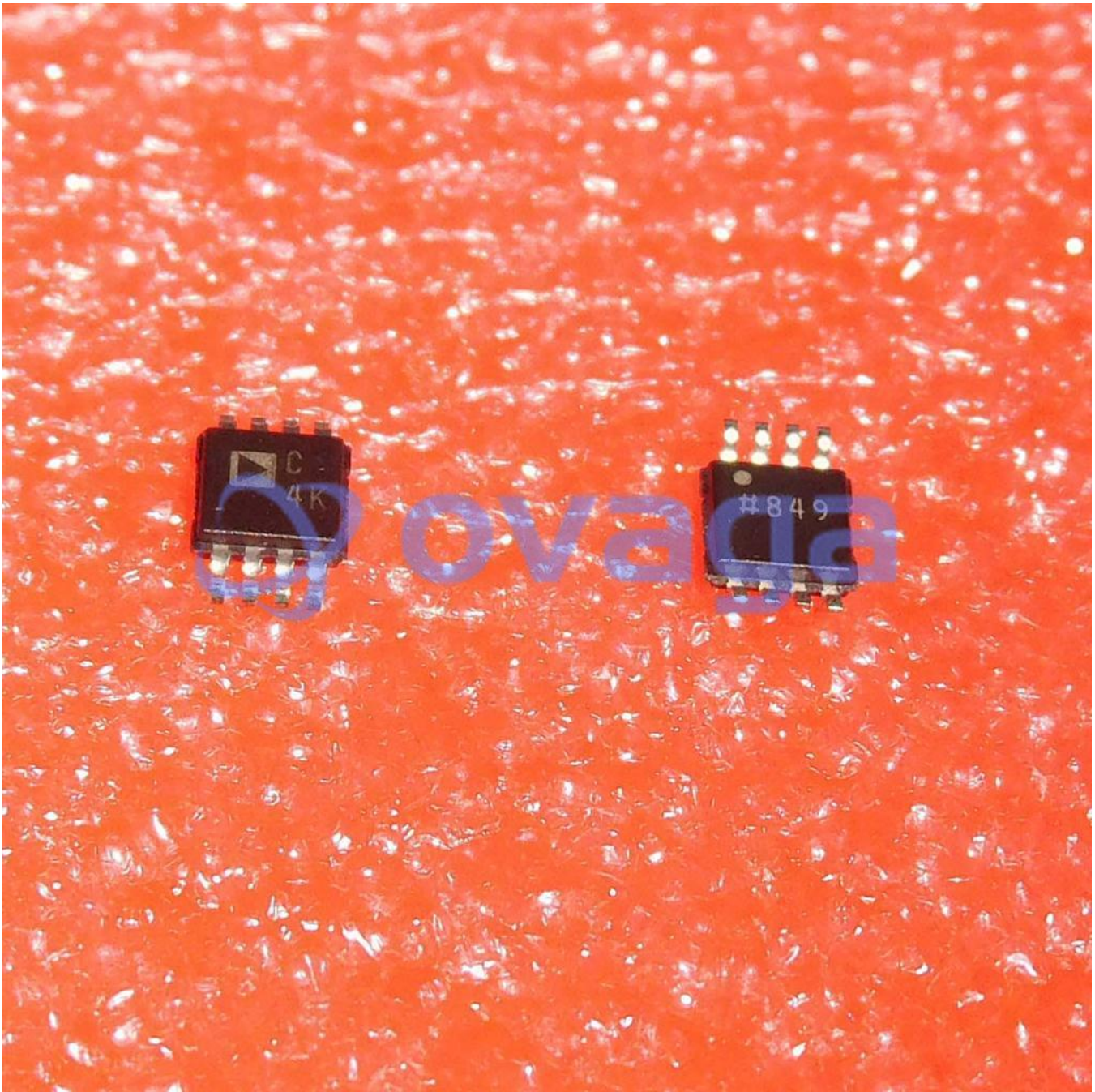
Personal digital assistants

Data Acquisition

Instrumentation

Process Control



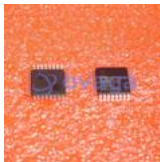


Related Products



[ADAS3022BCPZ](#)

Analog Devices, Inc
LFCSP-40



[AD7266BSUZ](#)

Analog Devices, Inc
TQPF-32



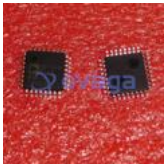
[AD574AJNZ](#)

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SOIC-16



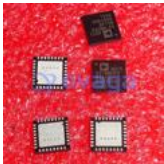
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[AD9680BCPZ-500](#)

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