

Operational Amplifier, Dual, 2 Amplifier, 10 MHz, 16.8 V/ μ s, ± 4.5 V to ± 18 V, SOIC, 8 Pins

Manufacturers	Analog Devices, Inc
Package/Case	SOIC-8
Product Type	Amplifier ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for AD8599ARZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The AD8597/AD8599 are very low noise, low distortion operational amplifiers ideal for use as preamplifiers. The low noise of 1.1 nV/ $\sqrt{\text{Hz}}$ and low harmonic distortion of -120 dB (or better) at audio bandwidths give the AD8597/AD8599 the wide dynamic range necessary for preamplifiers in audio, medical, and instrumentation applications. The excellent slew rate of 14 V/ μ s and 10 MHz gain bandwidth make them highly suitable for medical applications. The low distortion and fast settling time make them ideal for buffering of high resolution data converters.

The AD8597 is available in 8-lead SOIC and LFCSP packages, while the AD8599 is available in an 8-lead SOIC package. They are both specified over a -40°C to $+125^{\circ}\text{C}$ temperature range. The AD8597 and AD8599 are members of a growing series of low noise op amps offered by Analog Devices, Inc.

Features

Low noise: 1.1 nV/ $\sqrt{\text{Hz}}$ at 1 kHz

Low distortion: -120 dB THD at 1 kHz

Input noise, 0.1 Hz to 10 Hz: <76 nV p-p

Slew rate: 14 V/ μs

Wide bandwidth: 10 MHz

Supply current: 4.8 mA/amp typical

Low offset voltage: 10 μV typical

See data sheet for additional features

AD8599-EP supports defense and aerospace applications (AQEC standard)

[Download\(pdf\)](#)

Extended temperature range: -55°C to +125°C

Controlled manufacturing baseline

One assembly/test site

One fabrication site Enhanced product change notification

Qualification data available on request

V62/16604 DSCC Drawing Number

Application

Professional audio preamplifiers

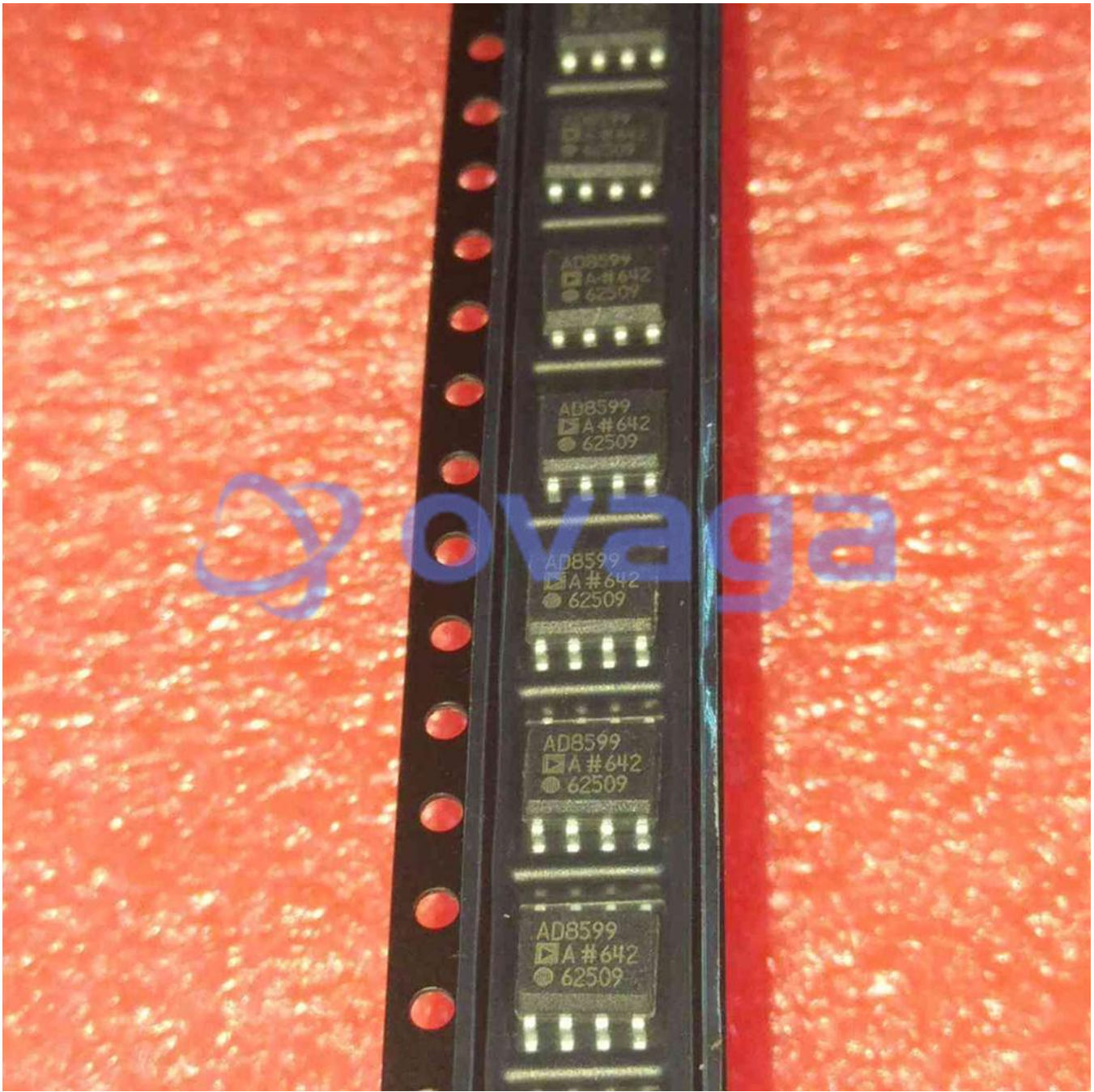
ATE/precision testers

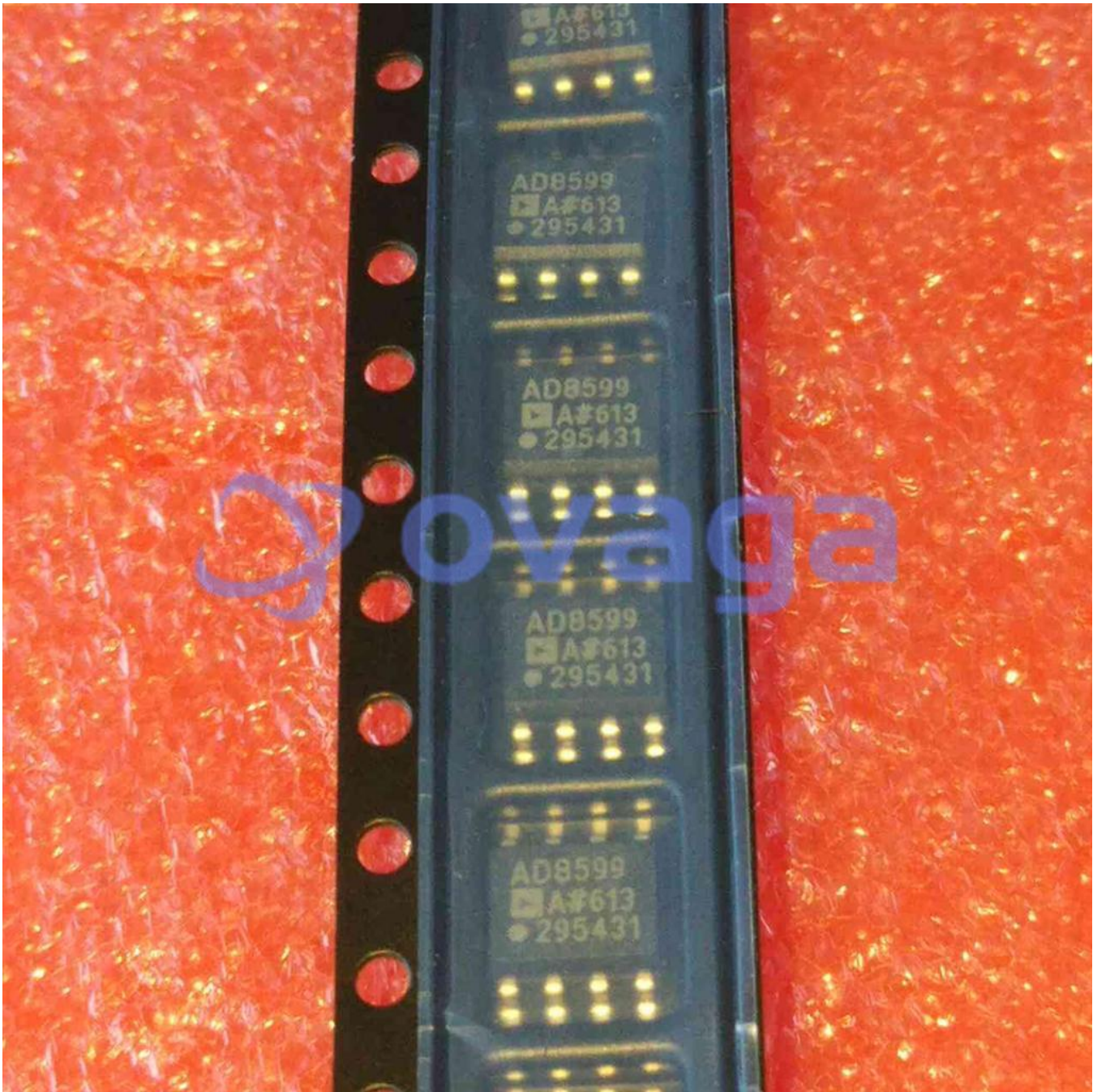
Imaging systems

Medical/physiological measurements

Precision detectors/instruments

Precision data conversion



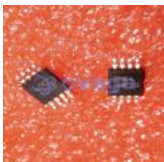


Related Products



[AD8418BRMZ-RL](#)

Analog Devices, Inc
MSOP-8



[ADA4084-2ARMZ](#)

Analog Devices, Inc
MSOP-8



[ADA4528-2ARMZ-R7](#)

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[AD8062ARMZ](#)

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[AD8567ARUZ](#)

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