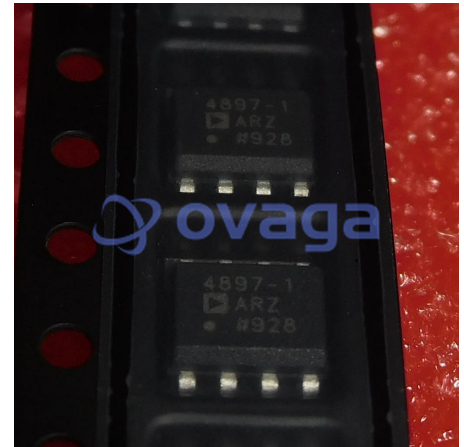


Operational Amplifier, Single, 1 Amplifier, 230 MHz, 120 V/ μ s, 3V to 10V, SOIC, 8 Pins

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



Images are for reference only

Please submit RFQ for ADA4897-1ARZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The ADA4896-2/ADA4897-1 are unity gain stable, low noise, rail-to-rail output, high speed voltage feedback amplifiers that have a quiescent current of 3 mA. With the 1/f noise of 2.4 nV/ $\sqrt{\text{Hz}}$ at 10 Hz and a spurious-free dynamic range of -80 dBc at 2 MHz, the ADA4896-2/ADA4897-1 are an ideal solution in a variety of applications, including ultrasound, low noise preamplifiers, and drivers of high performance ADCs. The Analog Devices, Inc., proprietary next generation SiGe bipolar process and innovative architecture enable such high performance amplifiers.

The ADA4896-2/ADA4897-1 have 230 MHz bandwidth, 120 V/ μ s slew rate, and settle to 0.1% in 45 ns. With a wide supply voltage range (3 V to 10 V), the ADA4896-2/ADA4897-1 are ideal candidates for systems that require high dynamic range, precision, and high speed.

The ADA4896-2 is available in 8-lead LFCSP and 8-lead MSOP packages. The ADA4897-1 is available in 8-lead SOIC and 6-lead SOT-23 packages. Both the ADA4896-2 and ADA4897-1 work over the extended industrial temperature range of -40°C to +125°C.

Features

Low wideband noise $1 \text{ nV}/\sqrt{\text{Hz}}$ $2.8 \text{ pA}/\sqrt{\text{Hz}}$

Low 1/f noise: $2.4 \text{ nV}/\sqrt{\text{Hz}}$ @ 10 Hz

Low distortion: -115 dBc @ 100 kHz

Low power: 3 mA/amp

Low input offset voltage: 0.5 mV maximum

High speed 230 MHz , -3 dB bandwidth

Rail-to-rail output

Wide supply range: 3 V to 10 V

Disable feature (ADA4897-1)

ADA4897-1 supports defense and aerospace applications (AQEC standard)

[Download\(pdf\)](#)

Extended industrial temperature range (-55°C to $+125^\circ\text{C}$)

Controlled manufacturing baseline

1 assembly/test site

1 fabrication site

Enhanced product change notification

Qualification data available on request

V62/13614 DSCC Drawing Number

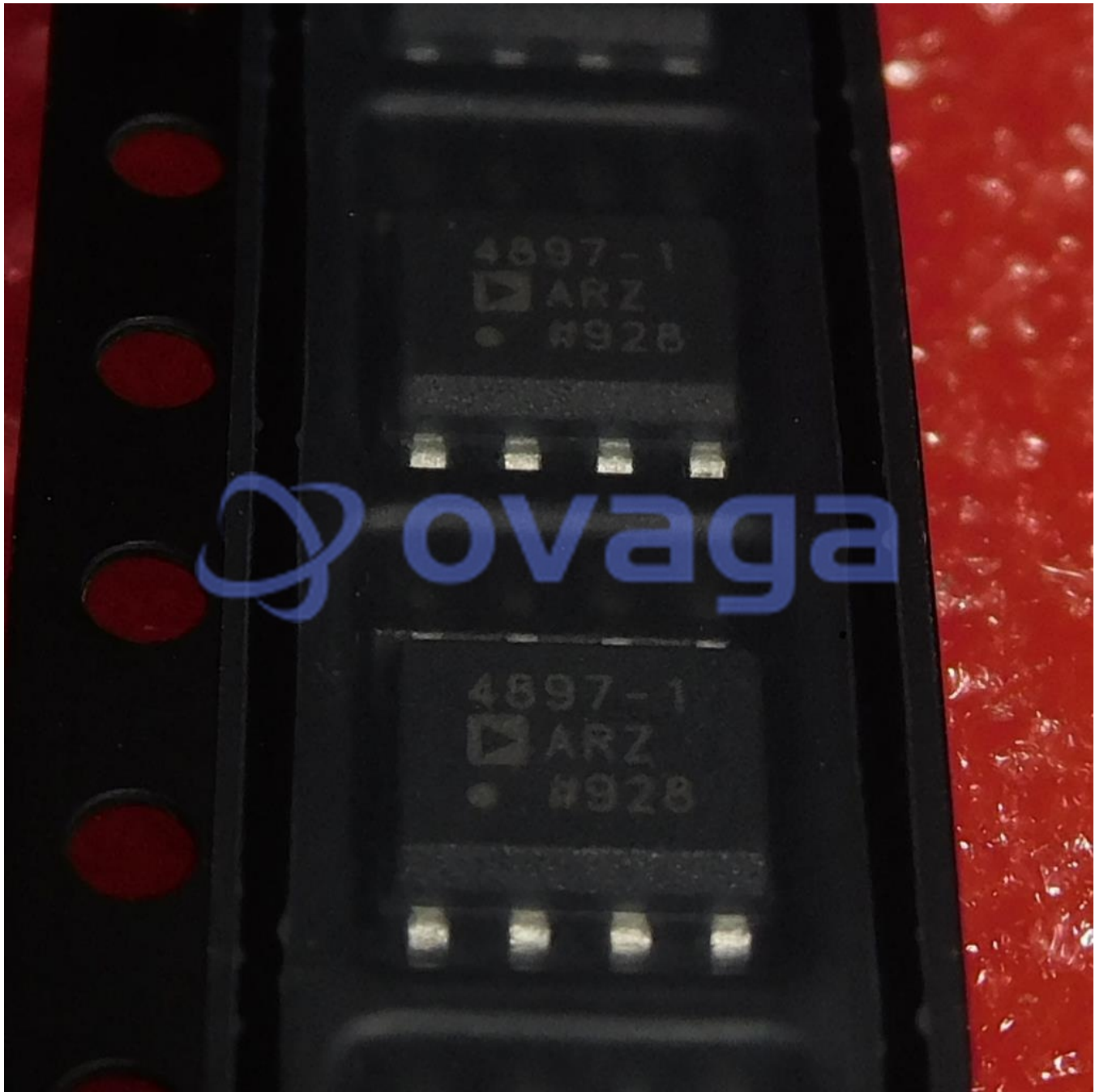
Application

Low noise preamplifier

Ultrasound amplifiers PLL loop filters

High performance ADC drivers

DAC buffers



Related Products



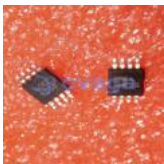
[AD8418BRMZ-RL](#)

Analog Devices, Inc
MSOP-8



[ADA4528-2ARMZ-R7](#)

Analog Devices, Inc
MSOP-8



[ADA4084-2ARMZ](#)

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