

ADA4805-2ACPZ-R7

Data Sheet

Dual, 0.2 μV/°C Offset Drift, 105 MHz Low Power, Low Noise, Rail-to-Rail Amplifier

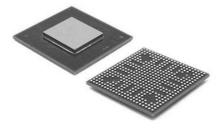
Manufacturers <u>Analog Devices, Inc</u>

Package/Case 10-Lead LFCSP (3mm x 3mm)

Product Type Amplifier ICs

RoHS

Lifecycle



Images are for reference only

Please submit RFQ for ADA4805-2ACPZ-R7 or Email to us: sales@ovaga.com We will contact you in 12 hours.

RFO

General Description

The ADA4805-1/ADA4805-2 are high speed voltage feedback, rail-to-rail output amplifiers with an exceptionally low quiescent current of 500 μ A, making them ideal for low power, high resolution data conversion systems. Despite being low power, these amplifiers provide excellent overall performance. They offer a high bandwidth of 105 MHz at a gain of +1, a high slew rate of 160 V/ μ s, and a low input offset voltage of 125 μ V (maximum).

A shutdown pin allows further reduction of the quiescent supply current to $2.9 \,\mu\text{A}$. For power sensitive applications, the shutdown mode offers a very fast turn on time of $3 \,\mu\text{s}$. This allows the user to dynamically manage the power of the amplifier by turning the amplifier off between ADC samples.

The Analog Devices, Inc., proprietary extra fast complementary bipolar (XFCB) process allows for both low voltage and low current noise (5.9 nV/ $\sqrt{}$ Hz, 0.6 pA/ $\sqrt{}$ Hz). The ADA4805-1/ADA4805-2 operate over a wide range of supply voltages from ± 1.5 V to ± 5 V, as well as single 3 V and 5 V supplies, making them ideal for high speed, low power instruments.

The ADA4805-1 is available in a 6-lead SOT-23 and a 6-lead SC70 package. The ADA4805-2 is available in an 8-lead MSOP package. These amplifiers are rated to work over the industrial temperature range of -40°C to +125°C.

Features

Low input offset voltage: 125 µV (maximum)

Low input offset voltage drift

 $0.2 \,\mu\text{V/}^{\circ}\text{C}$ (typical)

 $1.5 \,\mu\text{V/}^{\circ}\text{C}$ (maximum)

Ultralow supply current: 500 µA per amplifier

Fully specified at>

High speed performance

Slew rate: 160 V/µs

Settling time to 0.1%: 35 ns

Rail-to-rail outputs

See data sheet for additional features

ADA4805-2-EP supports defense and aerospace applications (AQEC standard)

Download the(pdf)

Extended industrial temperature range (-55°C to +125°C)

Controlled manufacturing baseline

1 assembly/test site

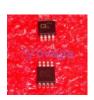
1 fabrication site

Enhanced product change notification

Qualification data available upon request

V62/16621 DSCC Drawing Number

Related Products



AD8418BRMZ-RL
Analog Devices, Inc
MSOP-8



High resolution, high precision analog-to-digital converter (ADC) drivers

Battery-powered instrumentation

Micropower active filters

Portable point of sales terminals

Active radio frequency identification (RFID) readers

Photo multipliers

ADC reference buffers



ADA4528-2ARMZ-R7
Analog Devices, Inc
MSOP-8



ADA4084-2ARMZ
Analog Devices, Inc
MSOP-8



Analog Devices, Inc MSOP8

AD8062ARMZ



AD8567ARUZ
Analog Devices, Inc
TSSOP-14



AD8022ARMZ
Analog Devices, Inc
MSOP-8



AD8628AUJZ
Analog Devices, Inc
SOP23



AD8041AR
Analog Devices, Inc
SOP-8