

Operational Amplifier, Dual, 2 Amplifier, 80 MHz, 13 V/ μ s, 2.7V to 12V, SOIC, 8 Pins

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



Images are for reference only

Please submit RFQ for ADA4841-2YRZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The ADA4841-2 is a unity gain stable, low noise and distortion, rail-to-rail output amplifier that has a quiescent current of 1.5 mA maximum. In spite of its low power consumption, this amplifier offers low wideband voltage noise performance of 2.1 nV/ $\sqrt{\text{Hz}}$ and 1.4 pA/ $\sqrt{\text{Hz}}$ current noise, along with excellent spurious-free dynamic range (SFDR) of -105 dBc at 100 kHz. To maintain a low noise environment at lower frequencies, the amplifier has low 1/f noise of 7 nV/ $\sqrt{\text{Hz}}$ and 13 pA/ $\sqrt{\text{Hz}}$ at 10 Hz.

The ADA4841-2 output can swing to less than 50 mV of either rail. The input common-mode voltage range extends down to the negative supply. The ADA4841-2 can drive up to 10 pF of capacitive load with minimal peaking.

The ADA4841-2 provides the performance required to efficiently support emerging 16-bit to 18-bit ADCs and is ideal for portable instrumentation, high channel count, industrial measurement, and medical applications. The ADA4841-1 is ideally suited to drive the AD7685/AD7686, 16-bit PulSAR ADCs.

The ADA4841-2 package features RoHS compliant lead finishes. The amplifier is rated to work over the industrial temperature range (-40°C to +125°C).

Features

Low power: 1.1 mA/amp

Low wideband noise

2.1 nV/ $\sqrt{\text{Hz}}$

1.4 pA/ $\sqrt{\text{Hz}}$

Low 1/f noise

7 nV/ $\sqrt{\text{Hz}}$ @ 10 Hz

13 pA/ $\sqrt{\text{Hz}}$ @ 10 Hz

Low distortion: -105 dBc @ 100 kHz,>

High speed

80 MHz, -3 dB bandwidth>

12 V/ μs slew rate

175 ns settling time to 0.1%

Low offset voltage: 0.3 mV maximum

Rail-to-rail output

Power down

Wide supply range: 2.7 V to 12 V

Application

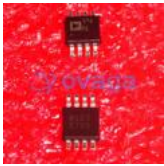
Low power, low noise signal processing

Battery-powered instrumentation

16-bit PulSAR® ADC drivers

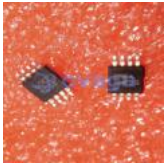


Related Products



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MSOP-8



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MSOP-8



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