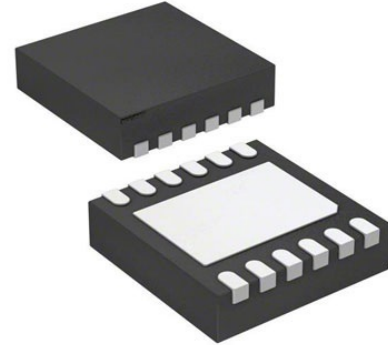


3 nV/Hz Ultralow Distortion, High Speed Op Amp

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



Images are for reference only

Please submit RFQ for AD8045ACPZ-R2 or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The AD8045 is a unity-gain stable voltage feedback amplifier with ultralow distortion, low noise, and high slew rate. With a spurious-free dynamic range of -90 dBc at 20 MHz, the AD8045 is an ideal solution in a variety of applications, including ultrasound, automated test equipment (ATE), active filters, and analog-to-digital converter (ADC) drivers. The Analog Devices, Inc., proprietary next generation XFCB process and innovative architecture enable such high performance amplifiers.

The AD8045 features a low distortion pinout for the LFCSP, which improves second harmonic distortion and simplifies the layout of the circuit board.

The AD8045 has a 1 GHz bandwidth, a 1350 V/ μ s slew rate, and settles to 0.1% in 7.5 ns. With a wide supply voltage range (3.3 V to 12 V) and a low offset voltage (200 μ V), the AD8045 is an ideal candidate for systems that require high dynamic range, precision, and high speed.

The AD8045 amplifier is available in a 3 mm \times 3 mm LFCSP and the standard 8-lead SOIC. Both packages feature an exposed paddle that provides a low thermal resistance path to the printed circuit board (PCB). This enables more efficient heat transfer and increases reliability. The AD8045 works over the extended industrial temperature range (-40°C to $+125^\circ\text{C}$).

Features

Ultralow distortion

SFDR

Third-order intercept

43 dBm at 10 MHz

Low noise

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

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

High speed

1 GHz, -3 dB bandwidth

1350 V/ μs slew rate

7.5 ns settling time to 0.1%

Standard and low distortion pinout

Supply current: 15 mA

Offset voltage: 1.0 mV max

Wide supply voltage range: 3.3 V to 12 V

Application

Instrumentation

IF and baseband amplifiers

Active filters

ADC drivers

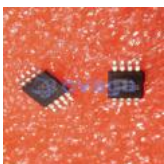
DAC buffers

Related Products



[AD8418BRMZ-RL](#)

Analog Devices, Inc
MSOP-8



[ADA4084-2ARMZ](#)

Analog Devices, Inc
MSOP-8



[AD8567ARUZ](#)

Analog Devices, Inc
TSSOP-14



[ADA4528-2ARMZ-R7](#)

Analog Devices, Inc
MSOP-8



[AD8062ARMZ](#)

Analog Devices, Inc
MSOP8



[AD8628AUJZ](#)

Analog Devices, Inc
SOP23



[AD8022ARMZ](#)

Analog Devices, Inc

MSOP-8



[AD8041AR](#)

Analog Devices, Inc

SOP-8