

Operational Amplifier, Single, 1 Amplifier, 880 MHz, 1200 V/ μ s, ± 3 V to ± 6 V, SOIC, 8 Pins

Manufacturers	Analog Devices, Inc
Package/Case	SOP8
Product Type	Amplifier ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for AD8001ARZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The AD8001 is a low power, high speed amplifier designed to operate on ± 5 V supplies. The AD8001 features unique transimpedance linearization circuitry. This allows it to drive video loads with excellent differential gain and phase performance on only 50 mW of power. The AD8001 is a current feedback amplifier and features gain flatness of 0.1 dB to 100 MHz while offering differential gain and phase error of 0.01% and 0.025°. This makes the AD8001 ideal for professional video electronics such as cameras and video switchers. Additionally, the AD8001's low distortion and fast settling make it ideal for buffer high speed A-to-D converters.

The AD8001 offers low power of 5.5 mA max

The outstanding bandwidth of 800 MHz along with 1200 V/ μ s of slew rate make the AD8001 useful in many general purpose high speed applications where dual power supplies of up to ± 6 V and single supplies from 6 V to 12 V are needed. The AD8001 is available in the industrial temperature range of -40°C to +85°C.

An evaluation board is available for this product and may be ordered using the following product number: AD8001-EB. Schematic and layout for this evaluation board is contained in the product datasheet.

Features

Excellent Video = +2) Gain Flatness 0.1 dB to 100 MHz 0.01% Differential Gain Error 0.025° Differential Phase Error

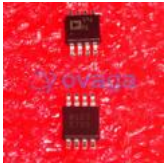
Low Power 5.5 mA Max Power Supply Current (55 mW)

High Speed and Fast Settling 880 MHz, -3 dB Bandwidth = +2)1200 V/μs Slew Rate 10 ns Settling Time to 0.1%

Low Distortion 65 dBc THD, = 10 MHz-66 dB SFDR,>

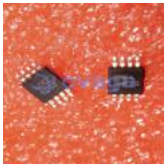
High Output Drive 70 mA Output Current Drives Up to 4 Back-Terminated Loads(75Ω Each) While Maintaining Good Differential Gain/Phase Performance(0.05%/0.25°)

Related Products



[AD8418BRMZ-RL](#)

Analog Devices, Inc
MSOP-8



[ADA4084-2ARMZ](#)

Analog Devices, Inc
MSOP-8



[AD8567ARUZ](#)

Analog Devices, Inc
TSSOP-14



[AD8022ARMZ](#)

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MSOP-8



[ADA4528-2ARMZ-R7](#)

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[AD8062ARMZ](#)

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