

Analog Devices,, Op Amp, 50MHz, 8-Pin PDIP

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



Images are for reference only

Please submit RFQ for AD827AQ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The AD8276/AD8277 are general-purpose, unity-gain difference amplifiers intended for precision signal conditioning in power critical applications that require both high performance and low power. They provide exceptional 86 dB common-mode rejection ratio (CMRR) and high bandwidth while amplifying signals well beyond the supply rails. The on-chip resistors are laser trimmed for gain drift of 1 ppm/°C and high CMRR. The AD8276/AD8277 also have extremely low gain drift vs. temperature.

The common-mode range of the amplifiers extends to almost double the supply voltage, making these amplifiers ideal for single-supply applications that require a high common-mode voltage range. The internal resistors and electrostatic discharge (ESD) circuitry at the inputs also provide overvoltage protection to the op amps.

The AD8276/AD8277 are unity-gain stable. Although they are optimized for use as difference amplifiers, they can also be connected in high precision, single-ended configurations with

The AD8276/AD8277 operate on single supplies (2.0 V to 36 V) or dual supplies (± 2 V to ± 18 V). The maximum quiescent supply current is 200 μ A per channel, which is ideal for battery-operated and portable systems.

The AD8276 is available in the space-saving 8-lead mini small outline package (MSOP) and the standard small outline (SOIC) package, as well as in die form, and the AD8277 is offered in a 14-lead SOIC package. Both are specified for performance over the industrial temperature range of -40°C to $+85^{\circ}\text{C}$ and are fully RoHS compliant.

Features

Wide input range beyond supplies

Rugged input overvoltage protection

Low supply current: 200 μ A maximum per channel

Low power dissipation: 0.54 mW at >

Bandwidth: 550 kHz

CMRR: 86 dB minimum, dc to 10 kHz

System offset voltage: ± 2 μ V/ $^{\circ}$ C maximum (B Grade)

Low gain drift: 1 ppm/ $^{\circ}$ C maximum (B Grade)

Enhanced slew rate: 1.1 V/ μ s

Wide power supply range

Single supply: 2.0 V to 36 V

Dual supplies: ± 2 V to ± 18 V

Application

Voltage measurement and monitoring

Current measurement and monitoring

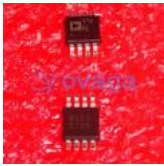
Differential output instrumentation amplifier

Portable, battery-powered equipment

Test and measurement



Related Products



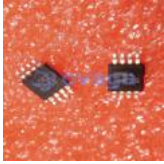
[AD8418BRMZ-RL](#)

Analog Devices, Inc
MSOP-8



[ADA4528-2ARMZ-R7](#)

Analog Devices, Inc
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[ADA4084-2ARMZ](#)

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[AD8062ARMZ](#)

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TSSOP-14



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