

Operational Amplifier, Dual, 2 Amplifier, 4 MHz, 1 V/ $\mu$ s,  $\pm 5V$  to  $\pm 15V$ , NSOIC, 8 Pins

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	SOIC-8
Product Type	Amplifier ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for ADA4077-2ARZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The single ADA4077-1, dual ADA4077-2, and quad ADA4077-4 amplifiers feature extremely low offset voltage and drift, and low input bias current, noise, and power consumption. Outputs are stable with capacitive loads of more than 1000 pF with no external compensation.

Applications for this amplifier include sensor signal conditioning (such as thermocouples, resistance temperature detectors (RTDs), strain gages), process control front-end amplifiers, and precision diode power measurement in optical and wireless transmission systems. The ADA4077-1/ADA4077-2/ADA4077-4 are useful in line powered and portable instrumentation, precision filters, and voltage or current measurement and level setting.

Unlike other amplifiers, the ADA4077-1/ADA4077-2/ADA4077-4 have an MSL1 rating that is compliant with the most stringent of assembly processes, and they are specified over the extended industrial temperature range from  $-40^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$  for the most demanding operating environments.

The ADA4077-1 and ADA4077-2 are available in an 8-lead SOIC package, including the B grade, and in an 8-lead MSOP (A grade only). The ADA4077-4 is offered in a 14-lead TSSOP and a 14-lead SOIC package.

## Features

Offset voltage:

25  $\mu\text{V}$  maximum at 25°C (B grade, 8-lead SOIC, single/ dual)

50  $\mu\text{V}$  maximum at 25°C (A grade, 8-lead SOIC, single/ dual)

50  $\mu\text{V}$  maximum at 25°C (A grade, 14-lead SOIC, quad)

Offset voltage drift:

0.25  $\mu\text{V}/^\circ\text{C}$  maximum (B grade, 8-lead SOIC, single/dual)

0.55  $\mu\text{V}/^\circ\text{C}$  maximum (A grade, 8-lead SOIC, single/dual)

See data sheet for additional features

ADA4077-EP supports defense and aerospace applications (AQEC standard)

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Extended industrial temperature range:  $-55^\circ\text{C}$  to  $+125^\circ\text{C}$

Controlled manufacturing baseline

1 assembly/test site

1 fabrication site

Product change notification

Qualification data available upon request

V62/17604 DSCC Drawing Number

## Application

Process control front-end amplifiers

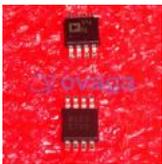
Optical network control circuits

Instrumentation

Precision sensors and controls

Precision filters

## Related Products



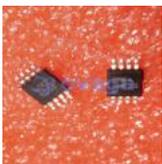
### [AD8418BRMZ-RL](#)

Analog Devices, Inc  
MSOP-8



### [ADA4528-2ARMZ-R7](#)

Analog Devices, Inc  
MSOP-8



### [ADA4084-2ARMZ](#)

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MSOP-8



### [AD8062ARMZ](#)

Analog Devices, Inc  
MSOP8



[AD8567ARUZ](#)

Analog Devices, Inc  
TSSOP-14



[AD8628AUJZ](#)

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SOP23



[AD8022ARMZ](#)

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