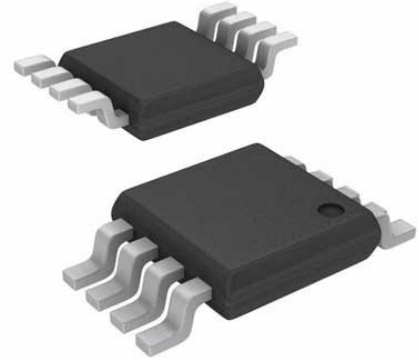


Precision Amplifiers SINGLE PRECISION LOW NOISE OP AMP

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



Images are for reference only

Please submit RFQ for OP1177ARMZ-REEL or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

Unlike previous high voltage amplifiers with very low offset voltages, the OP1177 (single) and OP2177 (dual) amplifiers are available in tiny 8-lead surface-mount MSOP and 8-lead narrow SOIC packages. The OP4177 (quad) is available in TSSOP and 14-lead narrow SOIC packages. Moreover, specified performance in the MSOP and the TSSOP is identical to performance in the SOIC package. MSOP and TSSOP are available in tape and reel only.

The OPx177 family offers the widest specified temperature range of any high precision amplifier in surface-mount packaging. All versions are fully specified for operation from  $-40^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$  for the most demanding operating environments.

Applications for these amplifiers include precision diode power measurement, voltage and current level setting, and level detection in optical and wireless transmission systems. Additional applications include line-powered and portable instrumentation and controls—thermocouple, RTD, strain-bridge, and other sensor signal conditioning—and precision filters.

## Features

Low offset voltage: 60  $\mu$ V maximum

Very low offset voltage drift: 0.7  $\mu$ V/ $^{\circ}$ C maximum

Low input bias current: 2 nA maximum

Low noise: 8 nV/ $\sqrt{\text{Hz}}$  typical

CMRR, PSRR, and AVO > 120 dB minimum

Low supply current: 400  $\mu$ A per amplifier

Dual supply operation:  $\pm$ 2.5 V to  $\pm$ 15 V

Unity-gain stable

No phase reversal

Inputs internally protected beyond supply voltage

## Application

Wireless base station control circuits

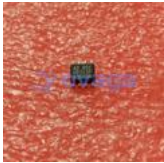
Optical network control circuits

Instrumentation

Sensors and controls

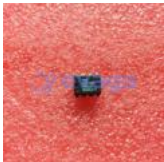
Precision filters

## Related Products



### [OP213F](#)

Analog Devices, Inc  
SMD/DIP-8/SOP-8



### [OP27GP](#)

Analog Devices, Inc  
PDIP-8



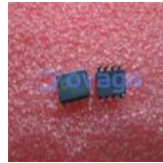
### [OP462GSZ](#)

Analog Devices, Inc  
SOIC-14



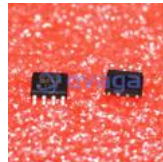
### [OP467GPZ](#)

Analog Devices, Inc  
PDIP-14



### [OP42AZ](#)

Analog Devices, Inc  
CDIP-8



### [OP37GS](#)

Analog Devices, Inc  
SOIC-8



### [OP2177ARM](#)

Analog Devices, Inc  
MSOP8



### [OP400GPZ](#)

Analog Devices, Inc  
PDIP-14