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OP4177ARZ

Data Sheet

Operational Amplifier, Quad, 4 Amplifier, 1.3 MHz, 0.7 V/µs, \pm 2.5V to \pm 15V, SOIC, 14 Pins

Manufacturers	Analog Devices, Inc	a the second
Package/Case	SOIC-14	Stranger Stranger
Product Type	Amplifier ICs	13
RoHS	Pb-free Halide free	
Lifecycle		Images are for reference only
Please submit RFQ for OP4177ARZ or Email to us: sales@ovaga.com We will contact you in 12 hours.		

General Description

The OPx177 family consists of very high precision, single, dual, and quad amplifiers featuring extremely low offset voltage and drift, low input bias current, low noise, and low power consump-tion. Outputs are stable with capacitive loads of over 1000 pF with no external compensation. Supply current is less than 500 μ A per amplifier at 30 V. Internal 500 Ω series resistors protect the inputs, allowing input signal levels several volts beyond either supply without phase reversal.

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° C to $+125^{\circ}$ 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 μ 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/√Hz typical
- CMRR, PSRR, and AVO > 120 dB minimum
- Low supply current: 400 μA per amplifier
- Dual supply operation: ± 2.5 V to ± 15 V
- Unity-gain stable
- No phase reversal
- Inputs internally protected beyond supply voltage

Related Products



<u>OP213F</u>

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



OP27GP Analog Devices, Inc

PDIP-8



OP462GSZ Analog Devices, Inc SOIC-14



<u>OP467GPZ</u>

Analog Devices, Inc PDIP-14



Wireless base station control circuits

- Optical network control circuits
- Instrumentation
- Sensors and controls
- Precision filters



<u>OP42AZ</u>

Analog Devices, Inc CDIP-8



<u>OP37GS</u>

Analog Devices, Inc SOIC-8

<u>OP2177ARM</u>

Analog Devices, Inc MSOP8

<u>OP400GPZ</u>

Analog Devices, Inc PDIP-14

