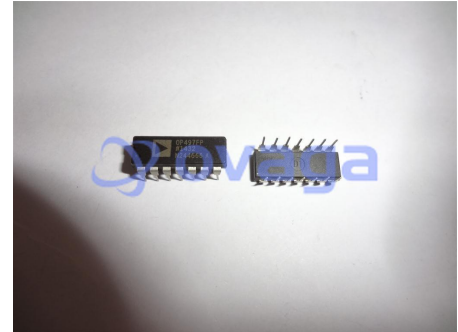


Precision Amplifiers PREC QUAD PICOAMP OP AMP

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	DIP-14
Product Type	Amplifier ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for OP497FPZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

Precision performance of the OP497 includes very low offset ( $<50 \mu\text{V}$ ) and low drift ( $<0.5 \mu\text{V}/^\circ\text{C}$ ). Open-loop gain exceeds 2000 V/mV ensuring high linearity in every application. Errors due to common-mode signals are eliminated by its common-mode rejection of  $>120 \text{ dB}$ . The OP497 has a power supply rejection of  $>120 \text{ dB}$  which minimizes offset voltage changes experienced in battery-powered systems. The supply current of the OP497 is  $<625 \mu\text{A}$  per amplifier, and it can operate with supply voltages as low as  $\pm 2 \text{ V}$ .

The OP497 uses a superbeta input stage with bias current cancellation to maintain picoamp bias currents at all temperatures. This is in contrast to FET input op amps whose bias currents start in the picoamp range at  $25^\circ\text{C}$  but double for every  $10^\circ\text{C}$  rise in temperature to reach the nanoamp range above  $85^\circ\text{C}$ . The input bias current of the OP497 is  $<100 \text{ pA}$  at  $25^\circ\text{C}$ .

Combining precision, low power, and low bias current, the OP497 is ideal for a number of applications, including instrumentation amplifiers, log amplifiers, photodiode preamplifiers, and long-term integrators. For a single device, see the OP97 data sheet, and for a dual device, see the OP297 data sheet.

## Features

Low offset voltage: 75  $\mu$ V maximum

Low offset voltage drift: 1.0  $\mu$ V/ $^{\circ}$ C maximum

Very low bias current

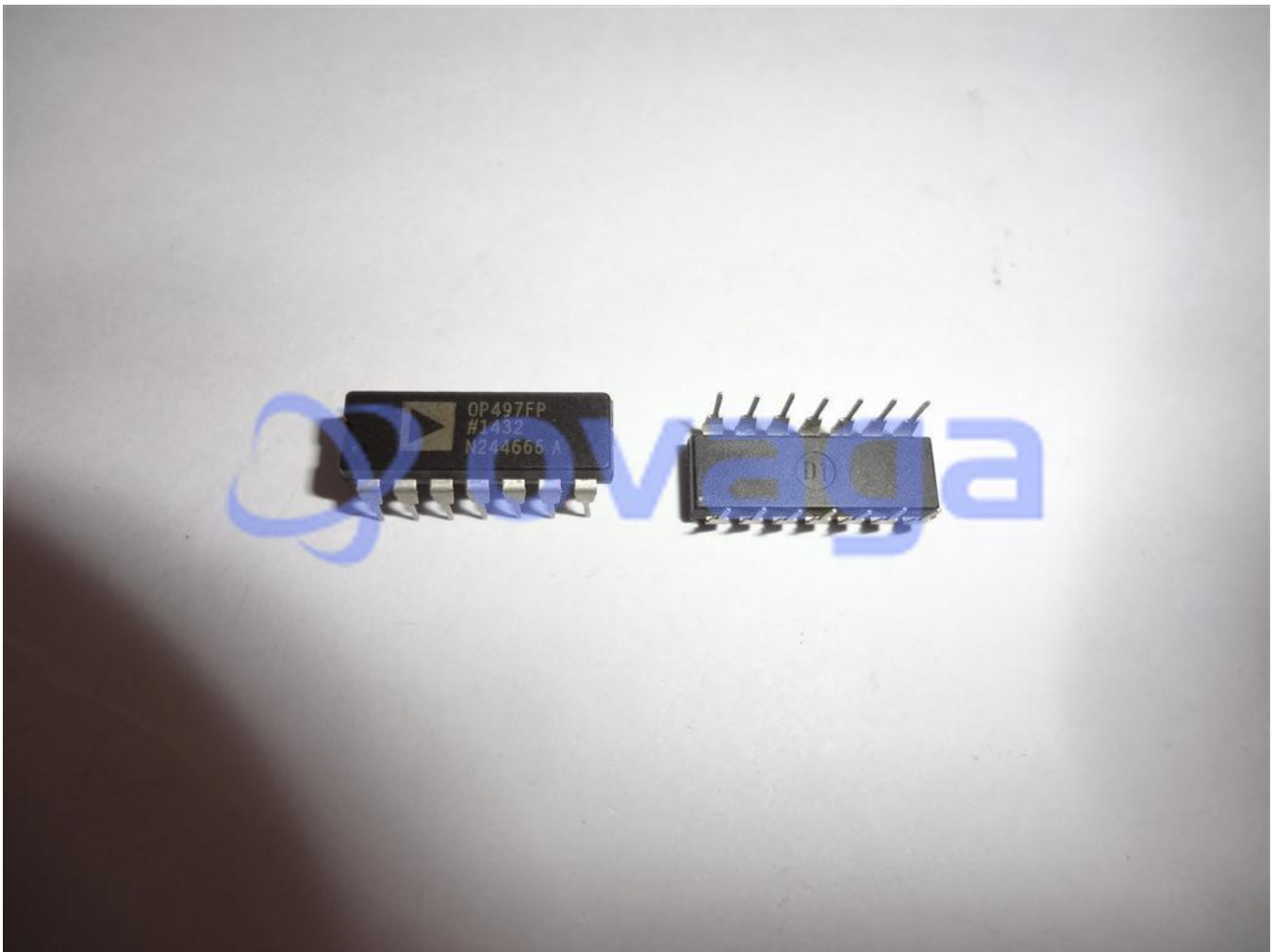
25 $^{\circ}$ C: 150 pA maximum

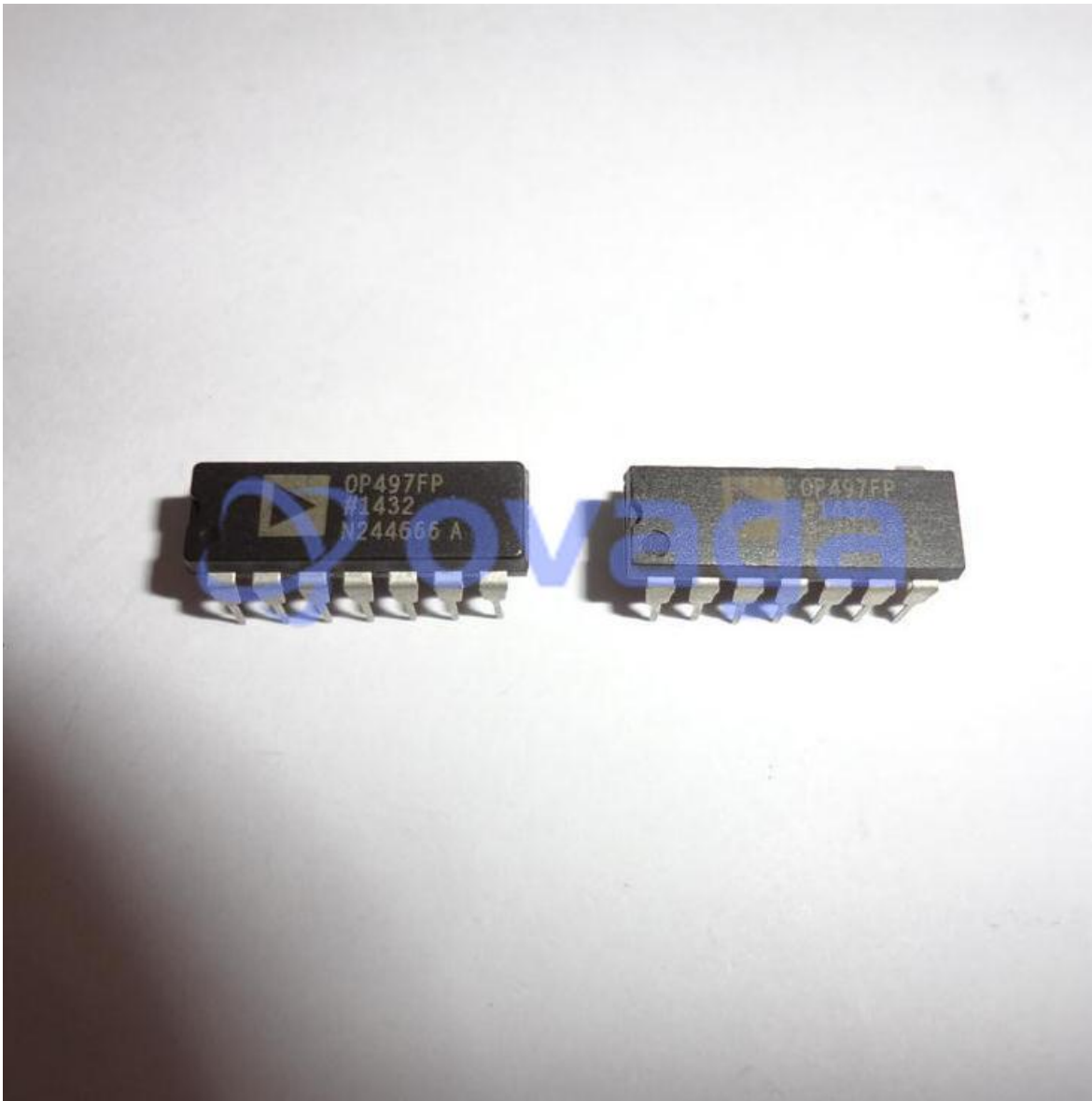
Very high open-loop gain: 2000 V/mV minimum

Low supply current (per amplifier): 625  $\mu$ A maximum

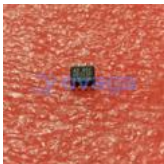
Operates from  $\pm$ 2 V to  $\pm$ 20 V supplies

High common-mode rejection: 114 dB minimum





## Related Products



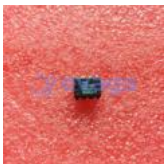
### [OP213F](#)

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



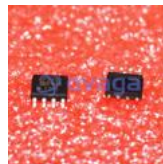
### [OP42AZ](#)

Analog Devices, Inc  
CDIP-8



### [OP27GP](#)

Analog Devices, Inc  
PDIP-8



### [OP37GS](#)

Analog Devices, Inc  
SOIC-8



### [OP462GSZ](#)

Analog Devices, Inc  
SOIC-14



### [OP2177ARM](#)

Analog Devices, Inc  
MSOP8



[OP467GPZ](#)

Analog Devices, Inc

PDIP-14



[OP400GPZ](#)

Analog Devices, Inc

PDIP-14