


Op Amp Dual Low Offset Voltage Amplifier $\pm 18V$ 8-Pin PDIP

Tube

Manufacturer:	Texas Instruments, Inc
Package/Case:	DIP8
Product Type:	Amplifier ICs
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Active



Images are for reference only

[Inquiry](#)

General Description

The OPAx277 series precision operational amplifiers replace the industry standard OP-177. They offer improved noise, wider output voltage swing, and are twice as fast with half the quiescent current. Features include ultralow offset voltage and drift, low bias current, high common-mode rejection, and high power supply rejection. Single, dual, and quad versions have identical specifications, for maximum design flexibility.

OPAx277 series operational amplifiers operate from $\pm 2V$ to $\pm 18V$ supplies with excellent performance. Unlike most operational amplifiers which are specified at only one supply voltage, the OPAx277 series is specified for real-world applications; a single limit applies over the $\pm 5V$ to $\pm 15V$ supply range. High performance is maintained as the amplifiers swing to their specified limits. Because the initial offset voltage ($\pm 20 \mu V$ maximum) is so low, user adjustment is usually not required. However, the single version (OPA277) provides external trim pins for special applications.

OPA277 operational amplifiers are easy to use and free from phase inversion and the overload problems found in some other operational amplifiers. They are stable in unity gain and provide excellent dynamic behavior over a wide range of load conditions. Dual and quad versions feature completely independent circuitry for lowest crosstalk and freedom from interaction, even when overdriven or overloaded.

Key Features

Ultralow Offset Voltage: $10 \mu V$

Ultralow Drift: $\pm 0.1 \mu V/^\circ C$

High Open-Loop Gain: 134 dB

High Common-Mode Rejection: 140 dB

High Power Supply Rejection: 130 dB

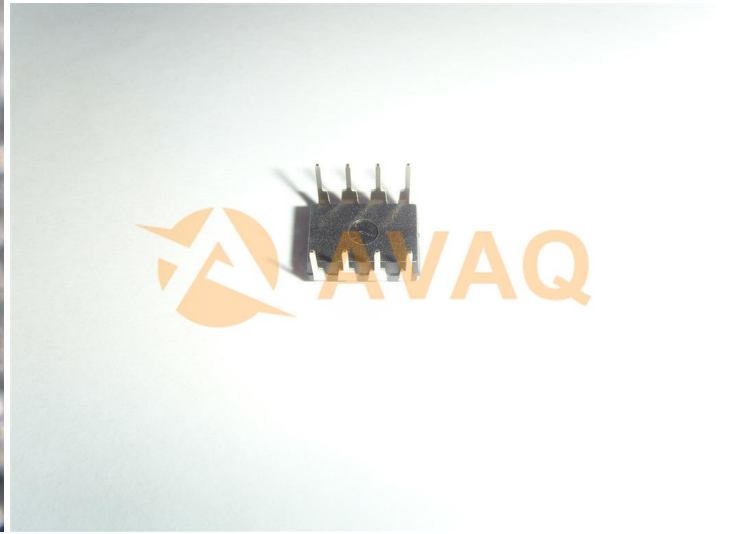
Low Bias Current: 1-nA maximum

Wide Supply Range: $\pm 2 V$ to $\pm 18 V$

Low Quiescent Current: $800 \mu A$ /amplifier

Single, Dual, and Quad Versions

Replaces OP-07, OP-77, and OP-177



Recommended For You

OPA445BM

Texas Instruments, Inc

CAN

OPA1611AIDR

Texas Instruments, Inc

SOP8

OPA388QDBVRQ1

Texas Instruments, Inc

SOT23-5

OPA2365AQDRQ1

Texas Instruments, Inc

SOP8

OPA334AIDBVR

Texas Instruments, Inc

SOT23-6

OPA2835IDGSR

Texas Instruments, Inc

MSOP10

OPA656U

Texas Instruments, Inc

SOP8

OPA360AIDCKR

Texas Instruments, Inc

SC70-6

LMI11H/NOPB

Texas Instruments, Inc

CAN8

OPA353UA

Texas Instruments, Inc

SOP8

LMI3700MX/NOPB

Texas Instruments, Inc

SOP16

OPA633KP

Texas Instruments, Inc

DIP8

OPA453FAKTWT

Texas Instruments, Inc

TO263-7

OPA4251UA

Texas Instruments, Inc

SOP14

LMV321M5X/NOPB

Texas Instruments, Inc

SOT23-5