

150MHz, High Slew Rate, Precision Operational Amplifier

November 1996

Features

- High Slew Rate..... 120V/ μ s
- Low Offset Voltage..... 300 μ V
- High Open Loop Gain 130dB
- Gain Bandwidth Product..... 150MHz
- Low Noise Voltage at 1kHz 8.3nV/ $\sqrt{\text{Hz}}$
- Minimum Gain Stability..... ≥ 5

Applications

- High Speed Instrumentation
- Data Acquisition Systems
- Analog Signal Conditioning
- Precision, Wideband Amplifiers
 - Pulse/RF Amplifiers

Ordering Information

PART NUMBER	TEMP. RANGE (°C)	PACKAGE	PKG. NO.
HA2-2548-5	0 to 75	8 Pin Metal Can	T8.C
HA2-2548-9	-40 to 85	8 Pin Metal Can	T8.C
HA3-2548-5	0 to 75	8 Ld PDIP	E8.3
HA7-2548-5	0 to 75	8 Ld SBDIP	D8.3
HA9P2548-5	0 to 75	16 Ld SOIC	M16.3

Description

The HA-2548 is an op amp that offers a unique combination of bandwidth, slew rate, and precision specifications. These features can eliminate the need for composite op amp designs and external calibration circuitry.

Optimized for gains ≥ 5 , the HA-2548 has a gain-bandwidth product of 150MHz and a slew rate of 120V/ μ s while maintaining extremely high open loop gain (130dB Typ) and low offset voltage (300 μ V Typ). These specifications are achieved through uniquely designed input circuitry and a single ultra-high gain stage that minimizes the AC signal path. Capable of delivering over 30mA of output current, the HA-2548 is ideal for precision, high speed applications such as signal conditioning, instrumentation, video/pulse amplifiers and buffers.

For information on the military version of this device please refer to the HA-2548/883 datasheet.

Pinouts

