

LINEAR TECHNOLOGY LT1468CS8#PBF Operational Amplifier, Single, 1 Amplifier, 90MHz, 22V/ $\mu$ s, 5V to 36V, SOIC, 8Pins

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	SOP8
Product Type	Amplifier ICs
RoHS	Green
Lifecycle	



Images are for reference only

Please submit RFQ for LT1468CS8#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The LT1468 is a precision high speed operational amplifier with 16-bit accuracy and 900ns settling to 150 $\mu$ V for 10V signals. This unique blend of precision and AC performance makes the LT1468 the optimum choice for high accuracy applications such as DAC current-to-voltage conversion and ADC buffers. The initial accuracy and drift characteristics of the input offset voltage and inverting input bias current are tailored for inverting applications.

The 90MHz gain bandwidth ensures high open-loop gain at frequency for reducing distortion. In noninverting applications such as an ADC buffer, the low distortion and DC accuracy allow full 16-bit AC and DC performance.

The 22V/ $\mu$ s slew rate of the LT1468 improves large-signal performance in applications such as active filters and instrumentation amplifiers compared to other precision op amps.

The LT1468 is manufactured on a complementary bipolar process. It is available in a space saving 3mm  $\times$  3mm leadless package, as well as small outline and DIP packages.

## Features

90MHz Gain Bandwidth,>

22V/ $\mu$ s Slew Rate

Settling Time: 900ns>

Low Distortion,  $-96.5$ dB for 100kHz, 10VP-P

Maximum Input Offset Voltage: 75 $\mu$ V

Maximum Input Offset Voltage Drift: 2 $\mu$ V/ $^{\circ}$ C

Maximum(-) Input Bias Current: 10nA

Minimum DC Gain: 1000V/mV

Minimum Output Swing into 2k:  $\pm 12.8$ V

Unity Gain Stable

Input Noise Voltage: 5nV/ $\sqrt{\text{Hz}}$

Input Noise Current: 0.6pA/ $\sqrt{\text{Hz}}$

Total Input Noise Optimized for 1k < RS < 20k

Specified at  $\pm 5$ V and  $\pm 15$ V

## Application

16-Bit DAC Current-to-Voltage Converter

Precision Instrumentation

ADC Buffer

Low Distortion Active Filters

High Accuracy Data Acquisition Systems

Photodiode Amplifiers

## Related Products



### [LTC1151CSW#PBF](#)

Analog Devices, Inc  
SOIC-16



### [LT1498CS8](#)

Analog Devices, Inc  
SOP-8



### [LTC2053CMS8](#)

Analog Devices, Inc  
MSOP8



### [LTC1150CN8](#)

Analog Devices, Inc  
DIP8



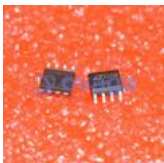
### [LT1491ACS](#)

Analog Devices, Inc  
SOP14



### [LT6105IMS8](#)

Analog Devices, Inc  
MSOP-8



### [LTC1150CS8](#)

Analog Devices, Inc  
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### [LT1013CN8](#)

Analog Devices, Inc  
DIP-8