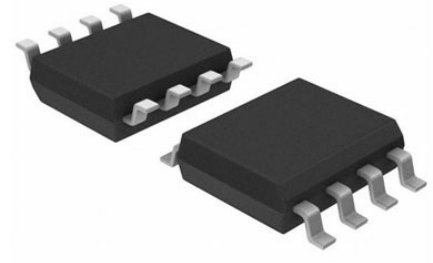


LINEAR TECHNOLOGY LTC6090HS8E#PBF Operational Amplifier, Single, 1 Amplifier, 10MHz, 19V/ $\mu$ s, 9.5V to 140V, NSOIC, 8Pins

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	SO-8
Product Type	Amplifier ICs
RoHS	Green
Lifecycle	



Images are for reference only

Please submit RFQ for LTC6090HS8E#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The LTC6090/LTC6090-5 are high voltage, precision monolithic operational amplifiers. The LTC6090 is unity gain stable. The LTC6090-5 is stable in noise gain configurations of 5 or greater. Both amplifiers feature high open loop gain, low input referred offset voltage and noise, and pA input bias current and are ideal for high voltage, high impedance buffering and/or high gain configurations.

The amplifiers are internally protected against overtemperature conditions. A thermal warning output, TFLAG, goes active when the die temperature approaches 150°C. The output stage may be turned off with the output disable pin OD. By tying the OD pin to the thermal warning output (TFLAG), the part will disable the output stage when it is out of the safe operating area. These pins easily interface to any logic family.

Both amplifiers may be run from a single 140V or split  $\pm$ 70V power supplies and are capable of driving up to 200pF of load capacitance. They are available in either an 8-lead SO or 16-lead TSSOP package with exposed pad for low thermal resistance.

## Features

Supply Range:  $\pm 4.75\text{V}$  to  $\pm 70\text{V}$  (140V)

0.1Hz to 10Hz Noise:  $3.5\mu\text{V}_{\text{P-P}}$

Input Bias Current: 50pA Maximum

Low Offset Voltage: 1.25mV Maximum

Low Offset Drift:  $\pm 5\mu\text{V}/^\circ\text{C}$  Maximum

CMRR: 130dB Minimum

Rail-to-Rail Output Stage

Output Sink and Source: 50mA

12MHz Gain Bandwidth Product

21V/ $\mu\text{s}$  Slew Rate

11nV/ $\sqrt{\text{Hz}}$  Noise Density

Thermal Shutdown

Available in Thermally Enhanced SOIC-8E or TSSOP-16E Packages

## Application

ATE

Piezo Drivers

Photodiode Amplifier

High Voltage Regulators

Optical Networking

## 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



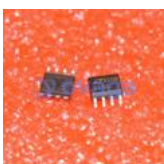
### [LT1491ACS](#)

Analog Devices, Inc  
SOP14



### [LT6105IMS8](#)

Analog Devices, Inc  
MSOP-8



### [LTC1150CS8](#)

Analog Devices, Inc  
SOP8



### [LT1013CN8](#)

Analog Devices, Inc  
DIP-8