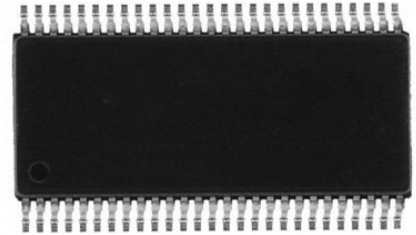


LINEAR TECHNOLOGY LT1028CS8#PBF Operational Amplifier, Single, 1 Amplifier, 50MHz, 15V/ $\mu$ s,  $\pm$  4V to  $\pm$  18V, SOIC, 8Pins

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	8-SOIC (0.154, 3.90mm Width)
Product Type	Amplifier ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LT1028CS8#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The LT1028 (gain of  $-1$  stable)/LT1128 (gain of  $+1$  stable) achieve a new standard of excellence in noise performance with  $0.85\text{nV}/\sqrt{\text{Hz}}$  1kHz noise,  $1.0\text{nV}/\sqrt{\text{Hz}}$  10Hz noise. This ultralow noise is combined with excellent high speed specifications (gain-bandwidth product is 75MHz for LT1028, 20MHz for LT1128), distortion-free output, and true precision parameters ( $0.1\mu\text{V}/^\circ\text{C}$  drift,  $10\mu\text{V}$  offset voltage, 30 million voltage gain). Although the LT1028/LT1128 input stage operates at nearly 1mA of collector current to achieve low voltage noise, input bias current is only 25nA.

The LT1028/LT1128's voltage noise is less than the noise of a  $50\Omega$  resistor. Therefore, even in very low source impedance transducer or audio amplifier applications, the LT1028/LT1128's contribution to total system noise will be negligible.

## Features

Voltage Noise

1.1nV/ $\sqrt{\text{Hz}}$  Max. at 1kHz

0.85nV/ $\sqrt{\text{Hz}}$  Typ. at 1kHz

1.0nV/ $\sqrt{\text{Hz}}$  Typ. at 10Hz

35nV-P Typ., 0.1Hz to 10Hz

Gain-Bandwidth Product

LT1028: 50MHz Min.

LT1128: 13MHz Min.

Slew Rate

LT1028: 11V/ $\mu\text{s}$  Min.

LT1128: 5V/ $\mu\text{s}$  Min.

Offset Voltage: 40 $\mu\text{V}$  Max.

Drift with Temperature: 0.8 $\mu\text{V}/^\circ\text{C}$  Max.

Voltage Gain: 7 Million Min.

Voltage and Current Noise 100% Tested

Available in 8-Pin SO Package

## Application

Low Noise Frequency Synthesizers

High Quality Audio

Infrared Detectors

Accelerometer and Gyro Amplifiers

350 ohms Bridge Signal Conditioning

Magnetic Search Coil Amplifiers

Hydrophone Amplifiers

## Related Products



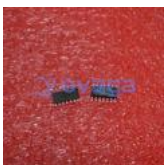
[LT1151CSW#PBF](#)

Analog Devices, Inc  
SOIC-16



[LTC2053CMS8](#)

Analog Devices, Inc  
MSOP8



[LT1491ACS](#)

Analog Devices, Inc  
SOP14



[LT1498CS8](#)

Analog Devices, Inc  
SOP-8



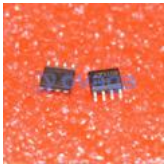
[LTC1150CN8](#)

Analog Devices, Inc  
DIP8



[LT6105IMS8](#)

Analog Devices, Inc  
MSOP-8



[LTC1150CS8](#)

Analog Devices, Inc

SOP8



[LT1013CN8](#)

Analog Devices, Inc

DIP-8