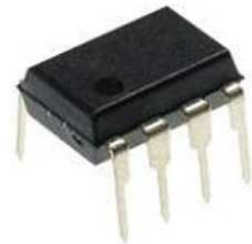


Ultra Low Noise Precision High Speed Op Amps; Package: PDIP; No of Pins: 8;
Temperature Range: 0°C to +70°C

| | |
|---------------|-------------------------------------|
| Manufacturers | Analog Devices, Inc |
| Package/Case | 8PDIP |
| Product Type | Amplifier ICs |
| RoHS | Pb-free Halide free |
| Lifecycle | |



Images are for reference only

Please submit RFQ for LT1028ACN8#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 0.85nV/√Hz 1kHz noise, 1.0nV/√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 (0.1μV/°C drift, 10μV 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 50Ω 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/ μs Min.

LT1128: 5V/ μs Min.

Offset Voltage: 40 μV 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



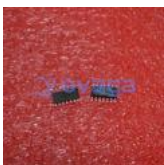
[LT1151CSW#PBF](#)

Analog Devices, Inc
SOIC-16



[LTC2053CMS8](#)

Analog Devices, Inc
MSOP8



[LT1491ACS](#)

Analog Devices, Inc
SOP14



[LT1498CS8](#)

Analog Devices, Inc
SOP-8



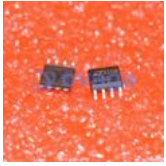
[LTC1150CN8](#)

Analog Devices, Inc
DIP8



[LT6105IMS8](#)

Analog Devices, Inc
MSOP-8



[LTC1150CS8](#)

Analog Devices, Inc
SOP8



[LT1013CN8](#)

Analog Devices, Inc
DIP-8