

Operational Amplifier, Quad, 4 Amplifier, 750 kHz, 0.3 V/ $\mu$ s,  $\pm 1V$  to  $\pm 20V$ , SOIC, 16 Pins

Manufacturers	<a href="#">Analog Devices, Inc</a>
Package/Case	SOP16
Product Type	Amplifier ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LT114S#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The LT1112 dual and LT1114 quad op amps achieve a new standard in combining low cost and outstanding precision specifications.

The performance of the selected prime grades matches or exceeds competitive devices. In the design of the LT1112/LT1114 however, particular emphasis has been placed on optimizing performance in the low cost plastic and SO packages. For example, the 75 $\mu$ V maximum offset voltage in these low cost packages is the lowest on any dual or quad non-chopper op amp.

The LT1112/LT1114 also provide a full set of matching specifications, facilitating their use in such matching dependent applications as two and three op amp instrumentation amplifiers.

Another set of specifications is furnished at  $\pm 1V$  supplies. This, combined with the low 320 $\mu$ A supply current per amplifier, allows the LT1112/LT1114 to be powered by two nearly discharged AA cells.

## Features

Offset Voltage – Prime Grade: 60 $\mu$ V Max

Offset Voltage – Low Cost Grade(Including Surface Mount Dual/Quad): 75 $\mu$ V Max

Offset Voltage Drift: 0.5 $\mu$ V/ $^{\circ}$ C Max

Input Bias Current: 250pA Max

0.1Hz to 10Hz Noise: 0.3 $\mu$ VP-P, 2.2pAP-P

Supply Current per Amplifier: 400 $\mu$ A Max

CMRR: 120dB Min

Voltage Gain: 1 Million Min

Guaranteed Specs with  $\pm$ 1.0V Supplies

Guaranteed Matching Specifications

SO-8 Package – Standard Pinout

LT1114 in Narrow Surface Mount Package

## Application

Picoampere/Microvolt Instrumentation

Two and Three Op Amp Instrumentation Amplifiers

Thermocouple and Bridge Amplifiers

Low Frequency Active Filters

Photo Current Amplifiers

Battery-Powered Systems



## 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



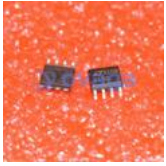
### [LT1491ACS](#)

Analog Devices, Inc  
SOP14



### [LT6105IMS8](#)

Analog Devices, Inc  
MSOP-8



[LTC1150CS8](#)

Analog Devices, Inc  
SOP8



[LT1013CN8](#)

Analog Devices, Inc  
DIP-8