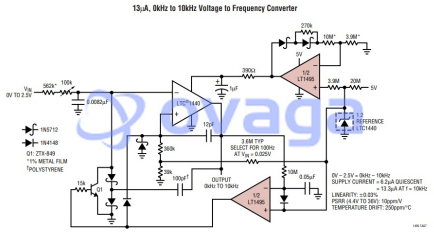
LT1494CMS8#PBF

Data Sheet

LINEAR TECHNOLOGY LT1494CMS8#PBF Operational Amplifier, Single, 1 Amplifier, 2.7kHz, 0.001V/µs, 2.2V to 36V, MSOP, 8Pins



Images are for reference only

Manufacturers	Analog Devices, Inc
Package/Case	MSOP8
Product Type	Amplifier ICs
RoHS	Pb-free Halide free
Lifecycle	

Please submit RFQ for LT1494CMS8#PBF or Email to us: sales@ovaga.com We will contact you in 12 hours. RFQ

General Description

The LT1494/LT1495/LT1496 are the lowest power (IS ≤ 1.5µA) op amps with precision specifications. The extremely low supply current is combined with excellent amplifier specifications: input offset voltage is 375µV maximum with a typical drift of only 0.4µV/°C, input offset current is 100pA maximum. A minimum open-loop gain (AVOL) of 100V/mV ensures that gain errors are small. The device characteristics change little over the supply range of 2.2V to ±15V. Supply rejection is 90dB and the common mode rejection ratio is 90dB. Operation is specified for 3V, 5V and ±15V supplies. Reverse battery protection (–18V min) and inputs that operate above the positive supply make the LT1494/LT1495/LT1496 easy to use in harsh environments.

The low bias currents and offset current of the amplifier permit the use of megohm level source resistors without introducing significant errors. Voltage noise at 4µVP-P is remarkably low considering the low supply current.

The LT1494 is available in the 8-Pin MSOP, PDIP and SO packages.The LT1495 is available in plastic 8-Pin PDIP and SO packages with the standard dual op amp pinout. The LT1496 is available in 14-Pin SO and PDIP packages.

Features

Low Supply Current: 1.5μA Max

Rail-to-Rail Input and Output

Low Offset Voltage: 375μV Max

Wide Supply Range: 2.2V to 36V

Single Supply Input Range: –0.3V to 36V

Low Input Bias Current: 250pA

Low Input Offset Current: 20pA

High AVOL: 100V/mV Minimum Driving 100kΩ Load

Output Sources and Sinks 500μA Load Current

Reverse Battery Protected to 18V

Operating Temperature Range: –40°C to 125°C (LT1494)

Over-The-Top™ Inputs Operate Above V+

Application

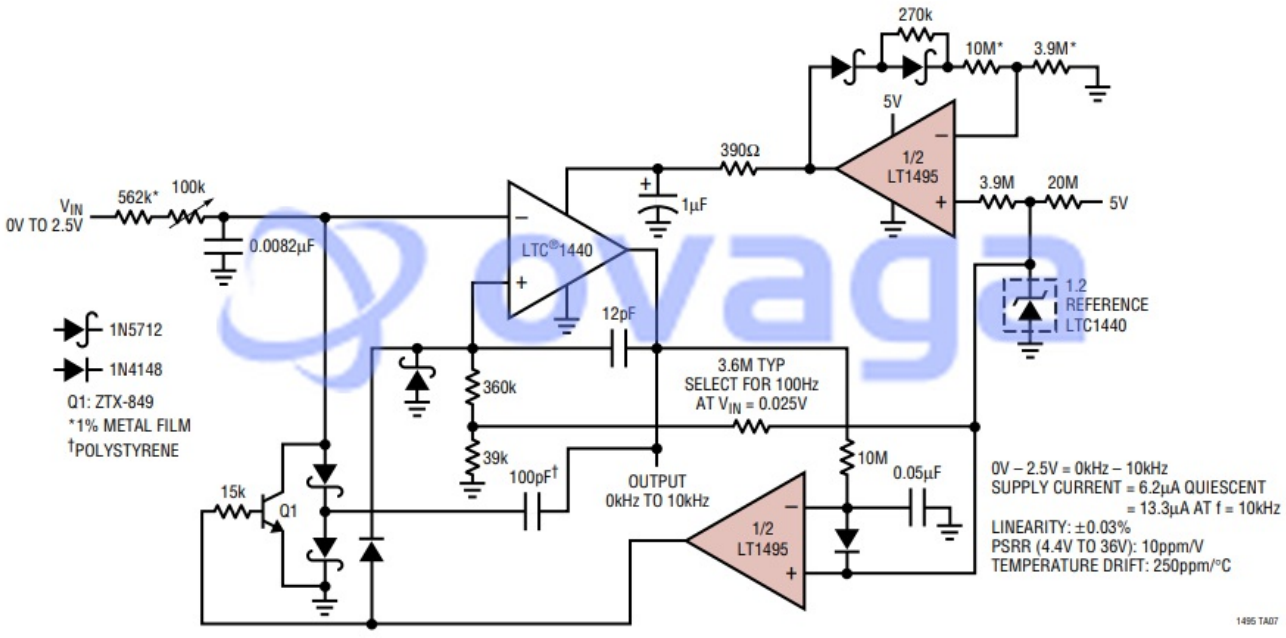
Battery- or Solar-Powered Systems

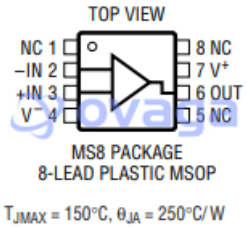
Portable Instrumentation

Remote Sensor Amplifier

Micropower Filter

13μA, 0kHz to 10kHz Voltage to Frequency Converter





T_{JMAX} = 150°C, θ_{JA} = 250°C/W

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](#)

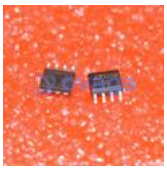
Analog Devices, Inc

SOP14

[LT6105IMS8](#)

Analog Devices, Inc

MSOP-8



[LTC1150CS8](#)

Analog Devices, Inc

SOP8

[LT1013CN8](#)

Analog Devices, Inc

DIP-8