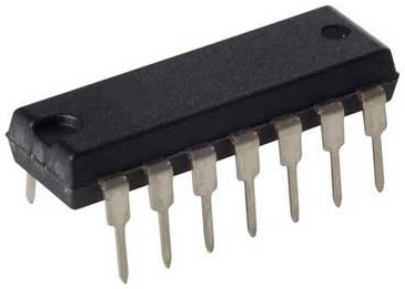
LT1079CN#PBF

Data Sheet

Operational Amplifier, Quad, 4 Amplifier, 200 kHz, 0.07 V/µs, 2.3V to 12V, DIP, 14 Pins

Manufacturers	Analog Devices, Inc
Package/Case	DIP14
Product Type	Amplifier ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LT1079CN#PBF or Email to us: sales@ovaga.com We will contact you in 12 hours. RFQ

General Description

The LT1078 is a micropower dual op amp in 8-pin packages including the small outline surface mount package. The LT1079 is a micropower quad op amp offered in the standard 14-pin packages. Both devices are optimized for single supply operation at 5V. ±15V specifications are also provided.

Micropower performance of competing devices is achieved at the expense of seriously degrading precision, noise, speed and output drive specifications. The design effort of the LT1078/LT1079 was concentrated on reducing supply current without sacrificing other parameters. The offset voltage achieved is the lowest on any dual or quad nonchopper stabilized op amp—micropower or otherwise. Offset current, voltage and current noise, slew rate and gain bandwidth product are all two to ten times better than on previous micropower op amps.

The 1/f corner of the voltage noise spectrum is at 0.7Hz, at least three times lower than on any monolithic op amp. This results in low frequency (0.1Hz to 10Hz) noise performance which can only be found on devices with an order of magnitude higher supply current.

Both the LT1078 and LT1079 can be operated from a single supply (as low as one lithium cell or two Ni-Cad batteries). The input range goes below ground. The all-NPN output stage swings to within a few millivolts of ground while sinking current—no power consuming pull down resistors are needed.

Features

Available in 8-Pin SO Package

50μA Max Supply Current per Amplifier

70μV Max Offset Voltage

180μA Max Offset Voltage in 8-Pin SO

250pA Max Offset Current

0.6μVP-P, 0.1Hz to 10Hz Voltage Noise

3pAP-P, 0.1Hz to 10Hz Current Noise

0.4μV/°C Offset Voltage Drift

200kHz Gain Bandwidth Product

0.07V/μs Slew Rate

Single Supply Operation

Input Voltage Range Includes Ground

Output Swings to Ground while Sinking Current

No Pull-Down

Output Sources and Sinks 5mA Load Current

Application

Battery or Solar-Powered Systems

Portable Instrumentation

Remote Sensor Amplifier

Satellite Circuitry

Micropower Sample-and-Hold

Thermocouple Amplifier

Micropower Filters

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

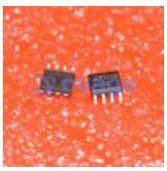
Analog Devices, Inc

SOP14

LT6105IMS8

Analog Devices, Inc

MSOP-8



LTC1150CS8

Analog Devices, Inc

SOP8

LT1013CN8

Analog Devices, Inc

DIP-8