

Operational Amplifier, Dual, 2 Amplifier, 2.5 MHz, 4 V/ μ s, 4.75V to 16V, DIP, 8 Pins

Manufacturers	Analog Devices, Inc
Package/Case	DIP8
Product Type	Amplifier ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LTC1051CN8#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LTC1051/LTC1053 are high performance, low cost dual/quad zero-drift operational amplifiers. The unique achievement of the LTC1051/LTC1053 is that they integrate on chip the sample-and-hold capacitors usually required externally by other chopper amplifiers. Further, the LTC1051/LTC1053 offer better combined overall DC and AC performance than is available from other chopper stabilized amplifiers with or without internal sample/hold capacitors.

The LTC1051/LTC1053 have an offset voltage of 0.5 μ V, drift of 0.01 μ V/ $^{\circ}$ C, DC to 10Hz, input noise voltage typically 1.5 μ V-P and typical voltage gain of 140dB. The slew rate of 4V/ μ s and gain bandwidth product of 2.5MHz are achieved with only 1mA of supply current per op amp.

Overload recover times from positive and negative saturation conditions are 1.5ms and 3ms respectively, about a 100 or more times improvement over chopper amplifiers using external capacitors.

The LTC1051 is available in an 8-lead standard plastic dual-in-line package as well as a 16-pin SW package. The LTC1053 is available in a standard 14-pin plastic package and an 18-pin SO. The LTC1051/LTC1053 are plug in replacements for most standard dual/quad op amps with improved performance.

Features

Dual/Quad Low Cost Precision Op Amp

No External Components Required

Maximum offset Voltage: 5 μ V

Maximum Offset Voltage Drift: 0.05 μ V/ $^{\circ}$ C

Low Noise 1.5 μ V_{P-P} (0.1Hz to 10Hz)

Minimum Voltage Gain: 120dB

Minimum PSRR: 120dB

Minimum CMRR: 114dB

Low Supply Current: 1mA/Op Amp

Single Supply Operation: 4.75V to 16V

Input Common Mode Range Includes Ground

Output Swings to Ground

Typical Overload Recovery Time: 3ms

Pin Compatible with Industry Standard Dual and Quad Op Amps

Application

Thermocouple Amplifiers

Electronic Scales

Medical Instrumentation

Strain Gauge Amplifiers

High Resolution Data Acquisition

DC Accurate R, C Active 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



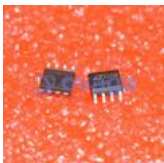
[LT1491ACS](#)

Analog Devices, Inc
SOP14



[LT6105IMS8](#)

Analog Devices, Inc
MSOP-8



[LTC1150CS8](#)

Analog Devices, Inc
SOP8



[LT1013CN8](#)

Analog Devices, Inc
DIP-8