

10Bit FET Bus-Exchange Switches 24-SOIC -40°C to 85°C

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



Images are for reference only

Please submit RFQ for LTC6081HMS8#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LTC6081/LTC6082 are dual/quad low offset, low drift, low noise CMOS operational amplifiers with rail-to-rail input/output swing.

The 70 μ V maximum offset, 1pA input bias current, 120dB open loop gain and 1.3 μ V_{P-P} 0.1Hz to 10Hz noise make it perfect for precision signal conditioning. The LTC6081/ LTC6082 features 100dB CMRR and 98dB PSRR.

Each amplifier consumes only 330 μ A of current on a 3V supply. The 10-lead DFN has an independent shutdown function that reduces each amplifier's supply current to 1 μ A.

LTC6081/LTC6082 is specified for power supply voltages of 3V and 5V from -40°C to 125°C. The dual LTC6081 is available in 8-lead MSOP and 10-lead DFN10 packages. The quad LTC6082 is available in 16-lead SSOP and DFN packages.

Features

Maximum Offset Voltage: $70\mu\text{V}$ (25°C)

Maximum Offset Drift: $0.8\mu\text{V}/^\circ\text{C}$

Maximum Input Bias: 1pA (25°C) 40pA ($\text{TA} \leq 85^\circ\text{C}$)

Open Loop Voltage Gain: 120dB Typ

Gain Bandwidth Product: 3.6MHz

CMRR: 100dB Min

PSRR: 98dB Min

0.1Hz to 10Hz Noise: $1.3\mu\text{V}$ VP-P

Supply Current: $330\mu\text{A}$

Rail-to-Rail Inputs and Outputs

Unity Gain Stable

2.7V to 5.5V Operation Voltage

Dual LTC6081 in 8-Lead MSOP and 10-Lead DFN10

Packages; Quad LTC6082 in 16-Lead SSOP and DFN Packages

Application

Photodiode Amplifier

Strain Gauge

High Impedance Sensor Amplifier

Microvolt Accuracy Threshold Detection

Instrumentation Amplifiers

Thermocouple Amplifiers



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



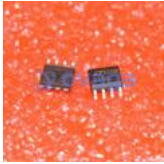
[LT1491ACS](#)

Analog Devices, Inc
SOP14



[LT6105IMS8](#)

Analog Devices, Inc
MSOP-8



[LTC1150CS8](#)

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SOP8



[LT1013CN8](#)

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DIP-8