

Dual 18MHz, Low Noise, Rail-to-Rail Output, CMOS Op Amp

Manufacturers	Analog Devices, Inc
Package/Case	8-Lead DFN (3mm x 3mm x 0.75mm w/ EP)
Product Type	Amplifier ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for LTC6241HVIDD#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LTC6240/6241/LTC6242 are single, dual and quad low noise, low offset, rail-to-rail output, unity gain stable CMOS op amps that feature 1pA of input bias current. Input bias current is guaranteed to be 1pA max on the single LTC6240. The 0.1Hz to 10Hz noise of only 550nVP-P, along with an offset of just 125 μ V are significant improvements over traditional CMOS op amps. Additionally, noise is guaranteed to be less than 10nV/ \sqrt Hz at 1kHz. An 18MHz gain bandwidth, and 10V/ μ s slew rate, along with the wide supply range and low input capacitance, make them perfect for use as fast signal processing amplifiers.

These op amps have an output stage that swings within 30mV of either supply rail to maximize the signal dynamic range in low supply applications. The input common mode range extends to the negative supply. They are fully specified on 3V and 5V, and an HV version guarantees operation on supplies up to \pm 5V.

The LTC6240 is available in the 8-pin SO and the 5-pin SOT- 23 packages. The LTC6241 is available in the 8-pin SO, and for compact designs it is packaged in a tiny dual fine pitch leadless (DFN) package. The LTC6242 is available in the 16-pin SSOP as well as the 5mm \times 3mm DFN package.

Features

0.1Hz to 10Hz Noise: 550nVP-P

Input Bias Current:

0.2pA (Typ at 25°C)

1pA Max (LTC6240)

Low Offset Voltage: 125 μ V Max

Low Offset Drift: 2.5 μ V/°C Max

Gain Bandwidth Product: 18MHz

Output Swings Rail-to-Rail

Supply Operation:

2.8V to 6V LTC6240/LTC6241/LTC6242

2.8V to \pm 5.5V LTC6240HV/LTC6241HV/LTC6242HV

Low Input Capacitance

H-Grade Temperature Range: -40°C to 125°C

Single LTC6240 in 5-Pin Low Profile (1mm)

ThinSOT™ Package and 8-Pin SO for PCB Guard Ring

Dual LTC6241 in 8-Pin SO and Tiny DFN Packages

Quad LTC6242 in 16-Pin SSOP and 5mm \times 3mm DFN Packages

Application

Photo Diode Amplifiers

Charge Coupled Amplifiers

Low Noise Signal Processing

Medical Instrumentation

High Impedance Transducer Amplifier

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



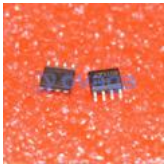
[LT1491ACS](#)

Analog Devices, Inc
SOP14



[LT6105IMS8](#)

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MSOP-8



[LTC1150CS8](#)

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SOP8



[LT1013CN8](#)

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DIP-8