

Operational Amplifiers - Op Amps 4GHz Ultra-L Bias C FET In Op Amp

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



Images are for reference only

Please submit RFQ for LTC6268IS8-10#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LTC6268-10/LTC6269-10 is a single/dual 4GHz FET-input operational amplifier with extremely low input bias current and low input capacitance. It also features low input-referred current noise and voltage noise making it an ideal choice for high speed transimpedance amplifiers, and high-impedance sensor amplifiers. It is a decompensated op amp that is gain-of-10 stable.

It operates on 3.1V to 5.25V supply and consumes 16.5mA per amplifier. A shutdown feature can be used to lower power consumption when the amplifier is not in use.

The LTC6268-10 single op amp is available in 8-lead SOIC and 6-lead SOT-23 packages. The SOIC package includes two unconnected pins which can be used to create an input pin guard ring to protect against board leakage currents. The LTC6269-10 dual op amp is available in 8-lead MSOP with exposed pad and 3mm × 3mm 10-lead DFN packages. They are fully specified over the -40°C to 85°C and the -40°C to 125°C temperature ranges.

Features

Gain Bandwidth Product: 4GHz

Low Input Bias Current:

4pA Max at 125°C

Current Noise (100kHz): 7fA/√Hz

Voltage Noise (1MHz): 4.0nV/√Hz

Extremely Low CIN 0.45pF

Rail-to-Rail Output

AV ≥ 10

Slew Rate: +1500V/μs, -1000V/μs

Supply Range: 3.1V to 5.25V

Quiescent Current: 16.5mA

Operating Temp Range: -40°C to 125°C

Single in 8-Lead SO-8, 6-Lead TSOT-23 Packages

Dual in 8-Lead MS8, 3mm × 3mm 10-Lead DFN 10 Packages

Application

Transimpedance Amplifiers

ADC Drivers

Photomultiplier Tube Post-Amplifier

Low IBIAS Circuits

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



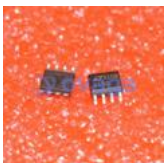
[LT1491ACS](#)

Analog Devices, Inc
SOP14



[LT6105IMS8](#)

Analog Devices, Inc
MSOP-8



[LTC1150CS8](#)

Analog Devices, Inc
SOP8



[LT1013CN8](#)

Analog Devices, Inc
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