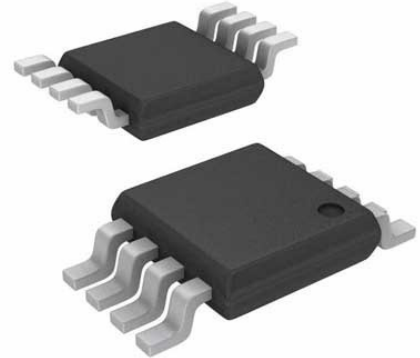


Precision, Low Power Differential Amplifier/ADC Driver Family

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



Images are for reference only

Please submit RFQ for LTC6363IMS8#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LTC6363 family consists of four fully differential, low power, low noise amplifiers with rail-to-rail outputs optimized to drive SAR ADCs. The LTC6363 is a standalone differential amplifier, where the gain is typically set using four external resistors. The LTC6363-0.5, LTC6363-1, and LTC6363-2 each have internal matched resistors to create fixed gain blocks with gains of 0.5V/V, 1V/V, and 2V/V respectively. Each of the fixed-gain amplifiers features precision laser trimmed on-chip resistors for accurate, ultrastable gain and excellent CMRR.

Features

Available with User Settable Gain or Fixed-Gain of 0.5V/V, 1V/V, or 2V/V

2.9nV/ $\sqrt{\text{Hz}}$ Input-Referred Noise

2mA Maximum Supply Current

45ppm Max Gain Error

0.5ppm/ $^{\circ}\text{C}$ Max Gain Error Drift

94dB Min CMRR

100 μV Max Offset Voltage

50nA Max Input Offset Current

Fast Settling: 720ns to 18-Bit, 8VP-P Output

2.8V ($\pm 1.4\text{V}$) to 11V ($\pm 5.5\text{V}$) Supply Voltage Range

Differential Rail-to-Rail Outputs

Input Common Mode Range Includes Ground

Low Distortion: 118dB SFDR at 2kHz, 18VP-P

500MHz Gain-Bandwidth Product

35MHz -3dB Bandwidth

Low Power Shutdown: 20 μA >

8-Lead MSOP, 2mm \times 3mm 8-Lead DFN and 3mm \times 3mm 16-lead LFCSP Packages

Application

20-Bit, 18-Bit and 16-Bit SAR ADC Drivers

Single-Ended-to-Differential Conversion

Low Power ADC Drivers

Level Shifter

Differential Line Drivers

Battery-Powered Instrumentation

Related Products



[LTC1151CSW#PBF](#)

Analog Devices, Inc
SOIC-16



[LTC2053CMS8](#)

Analog Devices, Inc
MSOP8



[LT1491ACS](#)

Analog Devices, Inc
SOP14



[LT1498CS8](#)

Analog Devices, Inc
SOP-8



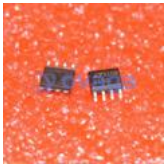
[LTC1150CN8](#)

Analog Devices, Inc
DIP8



[LT6105IMS8](#)

Analog Devices, Inc
MSOP-8



[LTC1150CS8](#)

Analog Devices, Inc
SOP8



[LT1013CN8](#)

Analog Devices, Inc
DIP-8