

16MSOP SP Amp Difference Amplifier Single R-R O/P 50V 12-Pin MSOP Tube

Manufacturers	Analog Devices, Inc
Package/Case	16MSOP
Product Type	Amplifier ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LT6375HMS#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LT6375 is a unity-gain difference amplifier which combines excellent DC precision, a very high input common mode range and a wide supply voltage range. It includes a precision op amp and a highly-matched thin film resistor network. It features excellent CMRR, extremely low gain error and extremely low gain drift.

Comparing the LT6375 to existing difference amplifiers with high common mode voltage range, the selectable resistor divider ratios of the LT6375 offer superior system performance by allowing the user to achieve maximum SNR, precision and speed for a specific input common mode voltage range.

The op amp at the core of the LT6375 has Over-The-Top® protected inputs which allow for robust operation in environments with unpredictable voltage conditions. See the Applications Information section for more details.

The LT6375 is specified over the -40°C to 125°C temperature range and is available in space-saving MSOP16 and DFN14 packages.

Features

97dB Minimum CMRR (LT6375A)

0.0035% (35ppm) Maximum Gain Error (LT6375A)

1ppm/°C Maximum Gain Error Drift

2ppm Maximum Gain Nonlinearity

Wide Supply Voltage Range: 3.3V to 50V

Rail-to-Rail Output

350μA Supply Current

Selectable Internal Resistor Divider Ratio

300μV Maximum Offset Voltage (LT6375A)

575kHz –3dB Bandwidth (Resistor>

375kHz –3dB Bandwidth (Resistor>

Low Power Shutdown: 20μA (DFN Package Only)

Space-Saving MSOP and DFN Packages

Application

High Side or Low Side Current Sensing

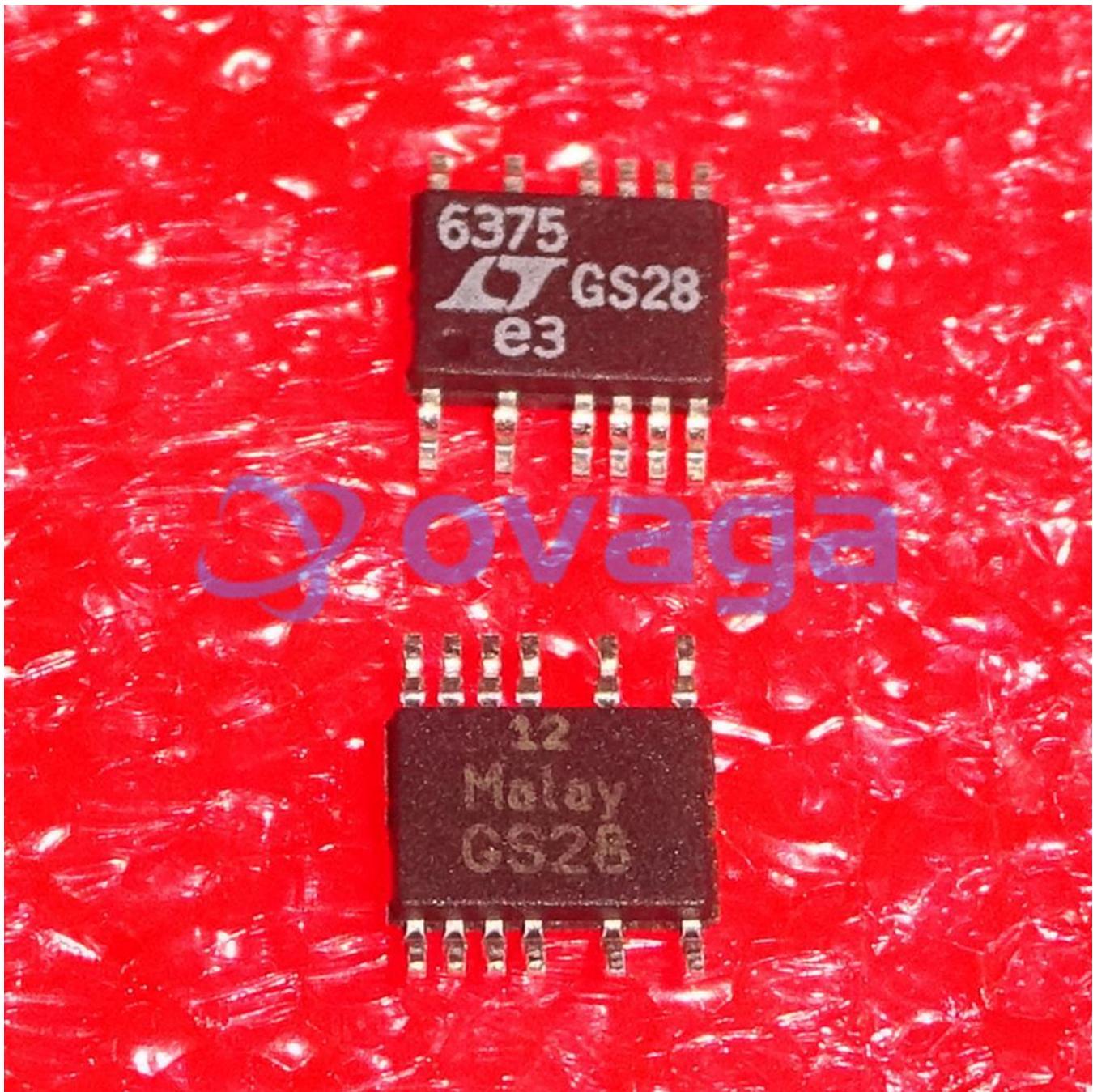
Bidirectional Wide Common Mode Range Current Sensing

High Voltage to Low Voltage Level Translation

Precision Difference Amplifier

Industrial Data-Acquisition Front-Ends

Replacement for Isolation 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



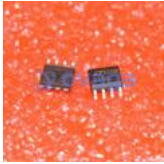
[LT1491ACS](#)

Analog Devices, Inc
SOP14



[LT6105IMS8](#)

Analog Devices, Inc
MSOP-8



[LTC1150CS8](#)

Analog Devices, Inc
SOP8



[LT1013CN8](#)

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DIP-8