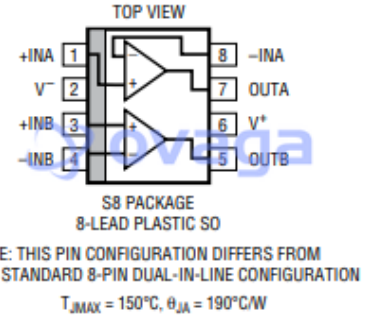


Operational Amplifier, Dual, 2 Amplifier, 10 Hz, 0.4 V/ μ s, $\pm 2V$ to $\pm 18V$, SOIC, 8 Pins

LT1013

Manufacturers	Analog Devices, Inc
Package/Case	SOIC8
Product Type	Amplifier ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LT1013IS8#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LT1013x devices are dual precision operational amplifiers, featuring high gain, low supply current, low noise, and low-offset-voltage temperature coefficient.

The LT1013x devices can be operated from a single 5-V power supply; the common-mode input voltage range includes ground, and the output can also swing to within a few millivolts of ground. Crossover distortion is eliminated. The LT1013x can be operated with both dual ± 15 -V and single 5-V supplies.

The LT1013C and LT1013D are characterized for operation from $0^{\circ}C$ to $70^{\circ}C$. The LT1013DI is characterized for operation from $-40^{\circ}C$ to $105^{\circ}C$. The LT1013M, LT1013AM, and LT1013DM are characterized for operation over the full military temperature range of $-55^{\circ}C$ to $125^{\circ}C$.

Features

Single-Supply Operation

Input Voltage Range Extends to Ground

Output Swings to Ground While Sinking Current

Phase Reversal Protection

Input Offset Voltage

150 μV Maximum at 25°C for LT1013AM

Offset-Voltage Temperature Coefficient

2 $\mu\text{V}/^\circ\text{C}$ Maximum for LT1013AM

Input Offset Current

0.8 nA Maximum at 25°C for LT1013AM

High Gain

0.8 $\text{V}/\mu\text{V}$ Minimum

Low Supply Current

0.5 mA Maximum at

Low Peak-to-Peak Noise Voltage

0.55 μV Typical

Low Current Noise

0.07 $\text{pA}/\sqrt{\text{Hz}}$ Typical

For Die Only Option, See LT1013-DIE

Application

Battery-Powered Precision Instrumentation

Strain Gauge Signal Conditioners

Thermocouple Amplifiers

Instrumentation Amplifiers

4mA to 20mA Current Loop Transmitters

Multiple Limit Threshold Detection

Active Filters

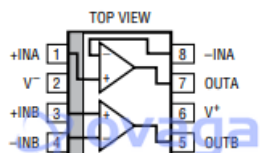
Multiple Gain Blocks

Strain Gauge Signal Conditioners

Thermocouple Amplifiers

Instrumentation Amplifiers

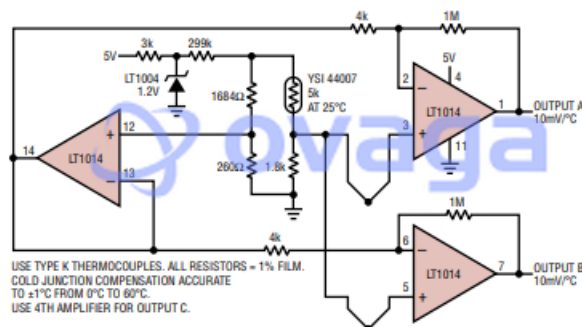
LT1013



S8 PACKAGE
8-LEAD PLASTIC SO

NOTE: THIS PIN CONFIGURATION DIFFERS FROM
THE STANDARD 8-PIN DUAL-IN-LINE CONFIGURATION

$T_{JMAX} = 150^\circ\text{C}$, $\theta_{JA} = 190^\circ\text{C}/\text{W}$



USE TYPE K THERMOCOUPLES. ALL RESISTORS = 1% FILM.
COLD JUNCTION COMPENSATION ACCURATE
TO $\pm 1^\circ\text{C}$ FROM 0°C TO 60°C .
USE 4TH AMPLIFIER FOR OUTPUT C.

Related Products



[LTC1151CSW#PBF](#)

Analog Devices, Inc
SOIC-16



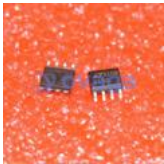
[LTC2053CMS8](#)

Analog Devices, Inc
MSOP8



[LT1491ACS](#)

Analog Devices, Inc
SOP14



[LTC1150CS8](#)

Analog Devices, Inc
SOP8



[LT1498CS8](#)

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[LTC1150CN8](#)

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[LT6105IMS8](#)

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