

## SP Amp LOG Amp Single R-R O/P 5.5V 8-Pin MSOP Tube

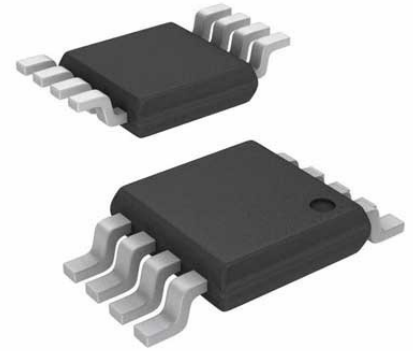
**Manufacturer:** [Analog Devices, Inc](#)

**Package/Case:** MSOP8

**Product Type:** Amplifier ICs

**RoHS:** RoHS Compliant/Lead free 

**Lifecycle:** Active



Images are for reference only

[Inquiry](#)

### General Description

The AD8313 is a complete multistage demodulating logarithmic amplifier that can accurately convert an RF signal at its input to an equivalent decibel-scaled value at its dc output. The AD8313 maintains a high degree of log conformance for signal frequencies from 0.1 GHz to 2.5 GHz. Application is straightforward, requiring only a single supply of 2.7 V to 5.5 V and the addition of a suitable input and supply decoupling. Operating on a 3 V supply, its 13.7 mA consumption (for >

The AD8313 is fabricated on Analog Devices, Inc., advanced 25 GHz silicon bipolar IC process and is available in an 8-lead MSOP package. The operating temperature range is  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$ .

### Key Features

Wide bandwidth

High dynamic range

High accuracy

40ns Full-scale typical fast response

Controller mode with error output

Scaling stable over supply and temperature

Low power

Complete and easy to use

### Recommended For You

**ADF4153BCPZ**

Analog Devices, Inc  
QFN

**ADF5355BCPZ**

Analog Devices, Inc  
LFCSP32

**AD8318ACPZ**

Analog Devices, Inc  
LFCSP

**AD6620ASZ**

Analog Devices, Inc  
QFP

**ADF4107BCPZ**

Analog Devices, Inc  
QFN

**ADL5513ACPZ-R7**

Analog Devices, Inc  
LFCSP-16

**AD8319ACPZ**

Analog Devices, Inc  
LFCSP

**ADRF6755ACPZ**

Analog Devices, Inc  
QFN

**ADL5535ARKZ-R7**

Analog Devices, Inc  
SOT89

**AD608AR**

Analog Devices, Inc  
SOP16

**ADF4107BRUZ-REEL7**

Analog Devices, Inc  
TSSOP16

**ADRF6780ACPZN**

Analog Devices, Inc  
QFN

**AD8317ACPZ**

Analog Devices, Inc  
LFCSP

**AD608ARZ**

Analog Devices, Inc  
SOP16

**AD8318ACPZ-REEL7**

Analog Devices, Inc  
LFCSP