


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

<b>Manufacturer:</b>	<a href="#">Analog Devices, Inc</a>
<b>Package/Case:</b>	SOP8
<b>Product Type:</b>	Amplifier ICs
<b>RoHS:</b>	RoHS Compliant/Lead free 
<b>Lifecycle:</b>	Active



Images are for reference only

[Inquiry](#)

### General Description

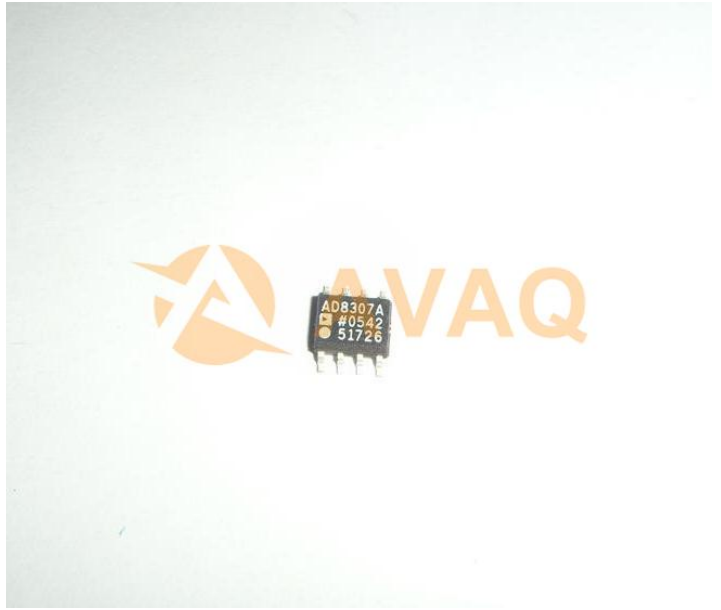
The AD8307 is the first logarithmic amplifier made available in an 8-lead SOIC\_N package. It is a complete 500 MHz monolithic demodulating logarithmic amplifier based on the progressive compression (successive detection) technique, providing a dynamic range of 92 dB to  $\pm 3$  dB law conformance and 88 dB to a tight  $\pm 1$  dB error bound at all frequencies up to 100 MHz. The AD8307 is extremely stable and easy to use, requiring no significant external components. A single-supply voltage of 2.7 V to 5.5 V at 7.5 mA is needed. A fast acting CMOS-compatible control pin can disable the AD8307 to a standby current of 150  $\mu$ A. The AD8307 operates over the industrial temperature range of  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$  and is available in an 8-lead SOIC package and an 8-lead PDIP.

### Key Features

- Complete multistage
- Slope of 25mV/dB, intercept of -84dBm
- Highly stable scaling over-temperature
- Fully differential DC-coupled signal path
- 100ns Power-up time
- 150 $\mu$ A Sleep current

### Application

- Conversion of signal level to decibel form
- Transmitter antenna power measurement
- Receiver signal strength indication (RSSI)
- Low cost radar and sonar signal processing
- Network and spectrum analyzers (to 120 dB)
- Signal level determination down to 20 Hz
- True decibel ac mode for multimeters



## Recommended For You

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### **AD8309ARUZ**

Analog Devices, Inc

TSSOP16

### **AD524BDZ**

Analog Devices, Inc

CDIP-16

### **AD8221BR**

Analog Devices, Inc

SOP-8

### **AD8221ARZ**

Analog Devices, Inc

SOP8

### **AD627BRZ**

Analog Devices, Inc

SOP8

### **AD622ANZ**

Analog Devices, Inc

DIP8

### **ADA4930-2YCPZ-R7**

Analog Devices, Inc

LFCSP24

### **AD8034ARZ**

Analog Devices, Inc

SOP8

### **AD8561ARZ**

Analog Devices, Inc

SOP8

### **AD633JRZ**

Analog Devices, Inc

SOP8

### **AD632AH**

Analog Devices, Inc

CAN10

### **AD8422BRZ**

Analog Devices, Inc

SOP8

### **ADCMP600BKSZ-R2**

Analog Devices, Inc

SC70-5

### **AD620BN**

Analog Devices, Inc

DIP8

### **AD620BR**

Analog Devices, Inc

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