

## RF Detector 50MHz to 3800MHz 16-Pin TSSOP Tube

<b>Manufacturer:</b>	<a href="#">Analog Devices, Inc</a>
<b>Package/Case:</b>	TSSOP16
<b>Product Type:</b>	RF Integrated Circuits
<b>Lifecycle:</b>	Obsolete



Images are for reference only

[Inquiry](#)

### General Description

AD8362ARU is a high-performance, voltage-controlled amplifier (VCA) designed by Analog Devices Inc., which is a leading semiconductor company specializing in analog and digital signal processing technology. The AD8362ARU is a specific part number within the AD8362 family of VCAs, and the "ARU" suffix refers to its package type, which is a 16-pin TSSOP (thin shrink small outline package).

### Key Features

**Wide dynamic range:** The AD8362ARU offers a linear-in-dB response over a wide gain control range of up to 70 dB, making it suitable for applications requiring precise control of signal amplitude.

**High accuracy:** The AD8362ARU has a typical gain control accuracy of  $\pm 0.25$  dB, ensuring accurate and consistent gain control performance.

**Fast response time:** The AD8362ARU has a fast response time of less than 3 ns, allowing for rapid gain control in time-critical applications.

**Low noise:** The AD8362ARU has a low noise figure of typically 5.5 dB, which minimizes the added noise to the signal during amplification.

### Application

**Automatic Gain Control (AGC) systems:** The AD8362ARU can be used in AGC systems to automatically adjust the gain of a signal in real-time, maintaining a consistent output level despite changes in input signal strength.

**Wireless communication systems:** The AD8362ARU can be used in wireless communication systems, such as cellular base stations, to provide gain control and signal conditioning for RF (radio frequency) signals.

**Test and measurement equipment:** The AD8362ARU can be used in test and measurement equipment, such as spectrum analyzers, to provide precise gain control for signal processing and analysis.



## Recommended For You

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### **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**

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LFCSP