

## INST Amp Single $\pm 18V$ 16-Pin SBCDIP Tube



Images are for reference only

[Inquiry](#)

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

**Package/Case:** CDIP16

**Product Type:** Amplifier ICs

**RoHS:** RoHS Compliant/Lead free 

**Lifecycle:** NRND

### General Description

The AD624 is a high precision, low noise, instrumentation amplifier designed primarily for use with low level transducers, including load cells, strain gauges and pressure transducers. A combination of low noise, high gain accuracy, low gain temperature coefficient and high linearity make the AD624 ideal for use in high resolution data acquisition systems.

The AD624C has an input offset voltage drift of less than  $0.25 \mu V/^\circ C$ , output offset voltage drift of less than  $10 \mu V/^\circ C$ , CMRR above 80 dB at unity gain (130 dB at  $\times 1$ ). In addition to these outstanding dc specifications, the AD624 exhibits superior ac performance as well. A 25 MHz gain bandwidth product, 5 V/ $\mu s$  slew rate and 15  $\mu s$  settling time permit the use of the AD624 in high speed data acquisition applications.

The AD624 does not need any external components for trimmed gains of 1, 100, 200, 500 and 1000. Additional gains such as 250 and 333 can be programmed within one percent accuracy with external jumpers. A single external resistor can also be used to set the 624's gain to any value in the range of 1 to 10,000.

### Key Features

Low Noise: 0.2  $\mu V$  p-p 0.1 Hz to 10 Hz

Low Gain TC: 5 ppm max>

Low Nonlinearity: 0.001% max>

High CMRR: 130 dB min>

Pin Programmable Gains of 1, 100, 200, 500, 1000

Low Input Offset Voltage: 25  $\mu V$ , max

Low Input Offset Voltage Drift: 0.25  $\mu V/^\circ C$  max

Gain Bandwidth Product: 25 MHz

No External Components Required

Internally Compensated

## 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  
SOP