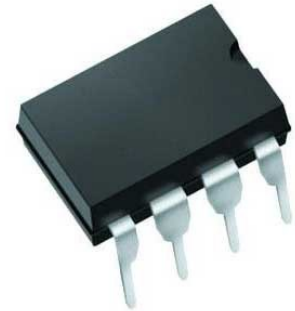


## INST Amp Single R-R O/P $\pm 18V/36V$ 8-Pin PDIP Tube



Images are for reference only

[Inquiry](#)

**Manufacturer:** [Texas Instruments, Inc](#)

**Package/Case:** DIP8

**Product Type:** Amplifier ICs

**RoHS:** RoHS Compliant/Lead free 

**Lifecycle:** Active

### General Description

The INA122 is a precision instrumentation amplifier for accurate, low noise differential signal acquisition. Its two-op-amp design provides excellent performance with very low quiescent current, and is ideal for portable instrumentation and data acquisition systems.

The INA122 can be operated with single power supplies from 2.2V to 36V and quiescent current is a mere 60 $\mu$ A. It can also be operated from dual supplies. By utilizing an input level-shift network, input common-mode range extends to 0.1V below negative rail (single supply ground).

A single external resistor sets gain from 5V/V to 1000V/V. Laser trimming provides very low offset voltage (250 $\mu$ V max), offset voltage drift (3 $\mu$ V/ $^{\circ}$ C max) and excellent common-mode rejection.

Packages options include 8-pin plastic DIP and SO-8 surface-mount packages. Both are specified for the -40 $^{\circ}$ C to +85 $^{\circ}$ C extended industrial temperature range.

### Key Features

LOW QUIESCENT CURRENT: 60 $\mu$ A

WIDE POWER SUPPLY RANGE

Single Supply: 2.2V to 36V

Dual Supply: -0.9/+1.3V to  $\pm 18V$

COMMON-MODE RANGE to (V<sub>-</sub>)-0.1V

RAIL-TO-RAIL OUTPUT SWING

LOW OFFSET VOLTAGE: 250 $\mu$ V max

LOW OFFSET DRIFT: 3 $\mu$ V/ $^{\circ}$ C max

LOW NOISE: 60nV/sqrt(Hz)

LOW INPUT BIAS CURRENT: 25nA max

8-PIN DIP AND SO-8 SURFACE-MOUNT

## Recommended For You

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### **INA823DT**

Texas Instruments, Inc  
SOP8

### **INA333AIDRGR**

Texas Instruments, Inc  
SON-8

### **INA101AM**

Texas Instruments, Inc  
CAN10

### **INA141UA**

Texas Instruments, Inc  
SOP8

### **INA111AP**

Texas Instruments, Inc  
DIP8

### **INA101AG**

Texas Instruments, Inc  
DIP

### **INA116UA**

Texas Instruments, Inc  
SOP16

### **INA333AIDRGT**

Texas Instruments, Inc  
SON8

### **INA101SM**

Texas Instruments, Inc  
CAN10

### **INA129PA**

Texas Instruments, Inc  
DIP8

### **INA101CM**

Texas Instruments, Inc  
CAN10

### **INA141PA**

Texas Instruments, Inc  
DIP

### **TLV2254IN**

Texas Instruments, Inc  
DIP-14

### **TLV2464IN**

Texas Instruments, Inc  
DIP14

### **INA2126UA**

Texas Instruments, Inc  
SOP16