


INST Amp Single $\pm 18V$ 8-Pin SOIC N T/R

| | |
|----------------------|--|
| Manufacturer: | Analog Devices, Inc |
| Package/Case: | SOP8 |
| Product Type: | Amplifier ICs |
| RoHS: | RoHS Compliant/Lead free  |
| Lifecycle: | Active |



Images are for reference only

[Inquiry](#)

General Description

The AD622 is a low cost, moderately accurate instrumentation amplifier in the traditional pin configuration that requires only one external resistor to set any gain between 2 and 1000. For a gain of 1, no external resistor is required. The AD622 is a complete difference or subtractor amplifier system that also provides superior linearity and common-mode rejection by incorporating precision laser-trimmed resistors.

The AD622 replaces low cost, discrete, two or three op amp instrumentation amplifier designs and offers good common-mode rejection, superior linearity, temperature stability, reliability, power, and board area consumption. The low cost of the AD622 eliminates the need to design discrete instrumentation amplifiers to meet stringent cost targets. While providing a lower cost solution, it also provides performance and space improvements.

Key Features

- Easy to use
- Low cost solution
- Higher performance than two or three op amp design
- Unity gain with no external resistor
- Optional gains with one external resistor (Gain range: 2 to 1000)
- Wide power supply range: $\pm 2.6 V$ to $\pm 15 V$
- Available in 8-lead PDIP and 8-lead SOIC_N packages
- Low power, 1.5 mA maximum supply current
- DC performance 0.15% gain accuracy: = 1
- Noise $12 \text{ nV}/\sqrt{\text{Hz}}$ @ 1 kHz input voltage noise $0.60 \mu\text{V}$ p-p noise: 0.1 Hz to 10 Hz,>
- AC characteristics 800 kHz bandwidth: = 1 to 100 $1.2 \text{ V}/\mu\text{s}$ slew rate

Application

- Transducer interface
- Low cost thermocouple amplifier
- Industrial process controls
- Difference amplifier
- Low cost data acquisition

Recommended For You

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