

#### INST Amp Single R-R O/P ±6V/12V 8-Pin SOIC N Tube

Manufacturer:	Analog Devices, Inc
Package/Case:	SOP-8
Product Type:	Amplifier ICs
Lifecycle:	Obsolete



### **General Description**

The AD623 is an integrated, single- or dual-supply instrumentationamplifier that delivers rail-to-rail output swing using supplyvoltages from 3 V to 12 V. The AD623 offers superior userflexibility by allowing single gain set resistor programming and byconforming to the 8-lead industry standard pinout configuration. With no external resistor, the AD623 is configured for unitygain (G = 1), and with an external resistor, the AD623 can be programmed for gains of up to 1000.

The superior accuracy of the AD623 is the result of increasing ac common-mode rejection ratio (CMRR) coincident withincreasing gain; line noise harmonics are rejected due to constant CMRR up to 200 Hz. The AD623 has a wide input common-mode range and amplifies signals with commonmodevoltages as low as 150 mV below ground. The AD623 maintains superior performance with dual and single polarity power supplies.

#### **Key Features**

Easy to use

Rail-to-rail output swing

Input voltage range extends 150 mV below ground (single supply)

Low power, 550  $\mu$ A maximum supply current

Gain set with one external resistor

Gain range: 1 to 1000

High accuracy dc performance

- 0.10% gain accuracy (G = 1)
- 0.35% gain accuracy (G > 1)

Noise: 35 nV/√Hz RTI noise at 1 kHz

Excellent dynamic specifications

800 kHz bandwidth (G = 1)

20  $\mu$ s settling time to 0.01% (G = 10)

## Application

Low power medical instrumentation

Transducer interfaces

Thermocouple amplifiers

Industrial process controls

Difference amplifiers

Low power data acquisition

## **Recommended For You**

AD8309AR	UZ	AD524BDZ	AD8221BR
Analog Devi	ces, Inc	Analog Devices, Inc	Analog Devices, Inc
TSSOP16		CDIP-16	SOP-8
AD8221AR	Z	AD627BRZ	AD622ANZ
Analog Devi	ces, Inc	Analog Devices, Inc	Analog Devices, Inc
SOP8		SOP8	DIP8
ADA4930-2	YCPZ-R7	AD8034ARZ	AD8561ARZ
Analog Devi	ces, Inc	Analog Devices, Inc	Analog Devices, Inc
LFCSP24		SOP8	SOP8
AD633JRZ		AD632AH	AD8422BRZ
Analog Devi	ces, Inc	Analog Devices, Inc	Analog Devices, Inc

CAN10

Analog Devices, Inc SOP8

SOP8

# ADCMP600BKSZ-R2

Analog Devices, Inc

SC70-5

# AD620BN

Analog Devices, Inc

AD620BR

Analog Devices, Inc

DIP8

SOP