

SP Amp ISOL Amp Single 16.5V 11-Pin SIP Tube

Manufacturer:	Analog Devices, Inc
Package/Case:	DIP
Product Type:	Amplifier ICs
Lifecycle:	NRND



Images are for reference only

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General Description

The AD204 is a general purpose, two-port, transformer-coupled isolation amplifier that may be used in a broad range of applications where input signals must be measured, processed and/or transmitted without a galvanic connection. This industry standard isolation amplifier offers a complete isolation function, with both signal and power isolation provided for in a single compact plastic SIP or DIP style package. The AD204 is powered by an externally supplied clock, such as the recommended AD246 Clock Driver.

The AD204 provides total galvanic isolation between the input and output stages of the isolation amplifier through the use of internal transformer-coupling. The functionally complete AD204 eliminates the need for an external, user-supplied dc/dc converter. This permits the designer to minimize the necessary circuit overhead and consequently reduce the overall design and component costs.

The design of the AD204 emphasizes maximum flexibility and ease of use, including the availability of an uncommitted op amp on the input stage. It features a bipolar ± 5 V output range, an adjustable gain range of from 1 to 100 V/V, $\pm 0.025\%$ max nonlinearity (K grade), 130 dB of CMR and consumes a low 35 mW of power.

Key Features

Small Size: 4 Channels/Inch

Low Power; 35 mW

High Accuracy: $\pm 0.025\%$ Max Nonlinearity (K Grades)

High CMR: 130 dB (Gain = 100 V/V)

Wide Bandwidth: 5 kHz Full-Power

High CMV Isolation: ± 2000 V pk Continuous (K Grade) (Signal and Power)

Isolated Power Outputs

Uncommitted Input Amplifier

Application

Multichannel Data Acquisition

Current Shunt Measurements

Motor Controls

Process Signal Isolation

High Voltage Instrumentation Amplifier



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