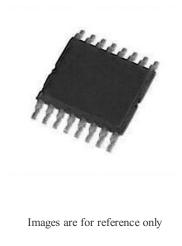


INST Amp Single R-R O/P ±2.75V/5.5V 16-Pin TSSOP Tube

Manufacturer:	Texas Instruments, Inc
Package/Case:	TSSOP16
Product Type:	Amplifier ICs
RoHS:	RoHS Compliant/Lead free WRAMS
Lifecycle:	Active



General Description

The PGA281 is a high-precision instrumentation amplifier with a digitally-controllable gain and signal-integrity test capability. This device uses proprietary autozeroing techniques to offer low offset voltage, near-zero offset and gain drift, excellent linearity, and nearly no 1/f noise.

The PGA281 is optimized to provide an excellent common-mode rejection of greater than 110 dB (G = 1) over a wide frequency range. Superior common-mode and supply rejection supports high-resolution, precise measurement. The 36-V supply capability and wide, high-impedance input range comply with requirements for universal signal measurement.

The PGA281 offers multiple internal gain options from V/V (attenuation) to 176 V/V, making this a universal, high-performance, analog front-end suitable for a wide variety of applications. The fully differential, rail-to-rail output is designed to easily interface a wide range of input signals to the low-voltage domain of high-resolution analog-to-digital converters (ADCs).

The PGA281 is available in a TSSOP-16 package and is specified over a temperature range of -40°C to +105°C.

Key Features

- Wide Input Range: ±15.5 V at ±18 V Supply
- Binary Gain Steps: 128 V/V to 1/8 V/V

Additional Scaling Factor: 1 V/V and 1 3/8 V/V

Low Offset Voltage: 5 μ V at G = 128

Near-Zero Long-Term Drift of Offset Voltage

Near-Zero Gain Drift: 0.5 ppm/°C

Excellent Linearity: 1.5 ppm

Excellent CMRR: 140 dB

High Input Impedance

Very Low 1/f Noise

Differential Signal Output

Overload Detection

TSSOP-16 Package

Recommended For You

PGA203KP

Texas Instruments, Inc

DIP

PGA205AP Texas Instruments, Inc DIP-16

PGA207UA Texas Instruments, Inc SOP16

PGA206PA

Texas Instruments, Inc DIP16 PGA204AP Texas Instruments, Inc DIP

PGA204BP Texas Instruments, Inc DIP16

PGA206UA Texas Instruments, Inc SOP16

INA129PG4 Texas Instruments, Inc DIP

PGA103U

Texas Instruments, Inc SOP8

Texas Instruments, Inc SOP16

PGA206U

PGA205BU

Texas Instruments, Inc SOP

PGA202KP Texas Instruments, Inc DIP14

PGA205AU

Texas Instruments, Inc

SOP16

THS6053CPWPG4

Texas Instruments, Inc

PGA206UAG4

Texas Instruments, Inc

14-HTSSOP

SOP16