

INST Amp Single R-R O/P $\pm 2.75V/5.5V$ 16-Pin TSSOP Tube**Manufacturer:** [Texas Instruments, Inc](#)**Package/Case:** TSSOP16**Product Type:** Amplifier ICs**RoHS:** RoHS Compliant/Lead free **Lifecycle:** Active

Images are for reference only

[Inquiry](#)**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 $+105^{\circ}\text{C}$.

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/ $^{\circ}$ 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

PGA204AP

Texas Instruments, Inc

DIP

PGA103U

Texas Instruments, Inc

SOP8

PGA205AP

Texas Instruments, Inc

DIP-16

PGA204BP

Texas Instruments, Inc

DIP16

PGA205BU

Texas Instruments, Inc

SOP16

PGA207UA

Texas Instruments, Inc

SOP16

PGA206UA

Texas Instruments, Inc

SOP16

PGA206U

Texas Instruments, Inc

SOP

PGA206PA

Texas Instruments, Inc

DIP16

INA129PG4

Texas Instruments, Inc

DIP

PGA202KP

Texas Instruments, Inc

DIP14

PGA205AU

Texas Instruments, Inc

SOP16

THS6053CPWPG4

Texas Instruments, Inc

14-HTSSOP

PGA206UAG4

Texas Instruments, Inc

SOP16