


INST Amp Single $\pm 18V/36V$ 16-Pin PDIP Tube

Manufacturer:	Texas Instruments, Inc
Package/Case:	DIP-16
Product Type:	Amplifier ICs
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Active



Images are for reference only

[Inquiry](#)

General Description

The INA125 is a low power, high accuracy instrumentation amplifier with a precision voltage reference. It provides complete bridge excitation and precision differential-input amplification on a single integrated circuit.

A single external resistor sets any gain from 4 to 10,000. The INA125 is laser-trimmed for low offset voltage ($250\mu V$), low offset drift ($2\mu V/^\circ C$), and high common-mode rejection (100dB at $G = 100$). It operates on single ($+2.7V$ to $+36V$) or dual ($\pm 1.35V$ to $\pm 18V$) supplies.

The voltage reference is externally adjustable with pin-selectable voltages of 2.5V, 5V, or 10V, allowing use with a variety of transducers. The reference voltage is accurate to $\pm 0.5\%$ (max) with $\pm 35\text{ppm}/^\circ C$ drift (max). Sleep mode allows shutdown and duty cycle operation to save power.

The INA125 is available in 16-pin plastic DIP and SO-16 surface-mount packages and is specified for the $-40^\circ C$ to $+85^\circ C$ industrial temperature range.

Key Features

LOW QUIESCENT CURRENT: $460\mu A$

PRECISION VOLTAGE REFERENCE: 1.24V, 2.5V, 5V or 10V

SLEEP MODE

LOW OFFSET VOLTAGE: $250\mu V$ max

LOW OFFSET DRIFT: $2\mu V/^\circ C$ max

LOW INPUT BIAS CURRENT: $20nA$ max

HIGH CMR: 100dB min

LOW NOISE: $38nV/\sqrt{\text{Hz}}$ at $f = 1\text{kHz}$

INPUT PROTECTION TO $\pm 40V$

WIDE SUPPLY RANGE

Single Supply: 2.7V to 36V

Dual Supply: $\pm 1.35V$ to $\pm 18V$

16-PIN DIP and SO-16 SOIC PACKAGES



Recommended For You

INA823DT

Texas Instruments, Inc
SOP8

INA333AIDRGR

Texas Instruments, Inc
SON-8

INA101AM

Texas Instruments, Inc
CAN10

INA141UA

Texas Instruments, Inc
SOP8

INA111AP

Texas Instruments, Inc
DIP8

INA101AG

Texas Instruments, Inc
DIP

INA116UA

Texas Instruments, Inc
SOP16

INA333AIDRGT

Texas Instruments, Inc
SON8

INA101SM

Texas Instruments, Inc
CAN10

INA129PA

Texas Instruments, Inc
DIP8

INA101CM

Texas Instruments, Inc
CAN10

INA141PA

Texas Instruments, Inc
DIP

TLV2254IN

Texas Instruments, Inc
DIP-14

TLV2464IN

Texas Instruments, Inc
DIP14

INA2126UA

Texas Instruments, Inc
SOP16