


INST Amp Single R-R O/P $\pm 2.75V/5.5V$ 8-Pin WSON EP T/R

Manufacturer:	<u>Texas Instruments, Inc</u>
Package/Case:	SON-8
Product Type:	Amplifier ICs
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Active



Images are for reference only

[Inquiry](#)

General Description

The INA333 device is a low-power, precision instrumentation amplifier offering excellent accuracy. The versatile 3-operational amplifier design, small size, and low power make it ideal for a wide range of portable applications.

A single external resistor sets any gain from 1 to 1000. The INA333 is designed to use an industry-standard gain equation: $G = 1 + (100 \text{ k}\Omega / R_G)$.

The INA333 device provides very low offset voltage ($25 \mu\text{V}$, $G \geq 100$), excellent offset voltage drift ($0.1 \mu\text{V}/^\circ\text{C}$, $G \geq 100$), and high common-mode rejection (100 dB at $G \geq 10$). It operates with power supplies as low as 1.8 V (± 0.9 V) and quiescent current is only 50 μA , making it ideal for battery-operated systems. Using autocalibration techniques to ensure excellent precision over the extended industrial temperature range, the INA333 device also offers exceptionally low noise density (50 nV/ $\sqrt{\text{Hz}}$) that extends down to DC.

The INA333 device is available in both 8-pin VSSOP and WSON surface-mount packages and is specified over the $T_A = -40^\circ\text{C}$ to $+125^\circ\text{C}$ temperature range.

Key Features

Low Offset Voltage: 25 μV (Maximum), $G \geq 100$

Low Drift: 0.1 $\mu\text{V}/^\circ\text{C}$, $G \geq 100$

Low Noise: 50 $\text{nV}/\sqrt{\text{Hz}}$, $G \geq 100$

High CMRR: 100 dB (Minimum), $G \geq 10$

Low Input Bias Current: 200 pA (Maximum)

Supply Range: 1.8 V to 5.5 V

Input Voltage: (V-) +0.1 V to (V+) -0.1 V

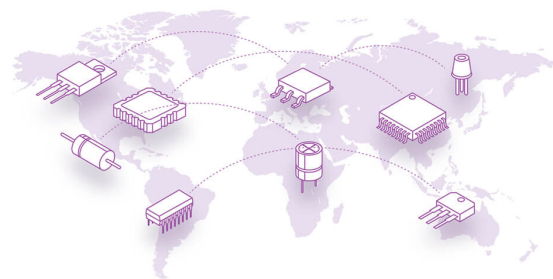
Output Range: (V-) +0.05 V to (V+) -0.05 V

Low Quiescent Current: 50 μA

Operating Temperature: -40°C to $+125^\circ\text{C}$

RFI Filtered Inputs

8-Pin VSSOP and 8-Pin WSON Packages



Recommended For You

INA823DT

Texas Instruments, Inc

SOP8

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

INA117P

Texas Instruments, Inc
DIP8