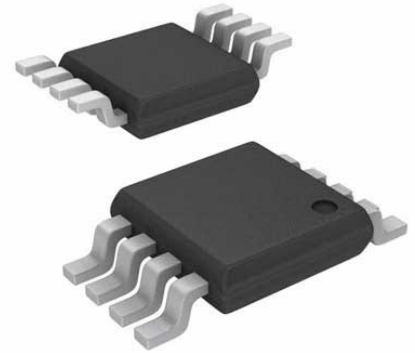


INST Amp Single R-R O/P 5.5V 8-Pin VSSOP T/R**Manufacturer:** [Texas Instruments, Inc](#)**Package/Case:** MSOP8**Product Type:** Amplifier ICs**RoHS:** RoHS Compliant/Lead free **Lifecycle:** Active

Images are for reference only

[Inquiry](#)**General Description**

The INA332 and INA2332 are rail-to-rail output, low-power CMOS instrumentation amplifiers that offer wide range, single-supply, and bipolar-supply operation. Using a special manufacturing flow, the INA332 family provides the lowest cost available, while still achieving low-noise amplification of differential signals with low quiescent current of 415 μ A (dropping to 0.01 μ A when shutdown). Returning to normal operation within microseconds, this INA can be used for battery or multichannel applications.

Configured internally in a gain of 5V/V, the INA332 offers flexibility in higher gains by choosing external resistors.

The INA332 rejects line noise and its harmonics because common-mode error remains low even at higher frequencies.

High bandwidth and slew rate make the INA332 ideal for directly driving sampling Analog-to-Digital (A/D) converters as well as general-purpose applications.

With high precision, low cost, and small packages, the INA332 outperforms discrete designs.

Additionally, because they are specified for wide temperature range of -55°C to $+125^{\circ}\text{C}$ and operating range of -65°C to $+150^{\circ}\text{C}$, the INA331 family can be used in demanding environments.

Key Features

DESIGNED FOR LOW COST

HIGH GAIN ACCURACY: $G = 5$, 0.07%, 2ppm/°C

GAIN SET WITH EXT. RESISTORS FOR $>5V/V$

HIGH CMRR: 73dB DC, 50dB at 45kHz

LOW BIAS CURRENT: 0.5pA

BANDWIDTH,SLEW RATE: 2.0MHz, 5V/μs

RAIL-TO-RAIL OUTPUT SWING: $(V^+) - 0.02V$

WIDE TEMPERATURE RANGE: $-55^{\circ}C$ to $+125^{\circ}C$

LOW QUIESCENT CURRENT: 490 μA max/chan

SHUT DOWN: 0.01 μA

MSOP-8 SINGLE AND TSSOP-14 DUAL PACKAGES

APPLICATIONS

INDUSTRIAL SENSOR AMPLIFIERS:

Bridge, RTD, Thermocouple, Position

PHYSIOLOGICAL AMPLIFIERS: ECG, EEG, EMG

A/D CONVERTER SIGNAL CONDITIONING

DIFFERENTIAL LINE RECEIVERS WITH GAIN

FIELD UTILITY METERS

PCMCIA CARDS

AUDIO AMPLIFIERS

COMMUNICATION SYSTEMS

TEST EQUIPMENT

AUTOMOTIVE INSTRUMENTATION

All trademarks are the property of their respective owners.

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