
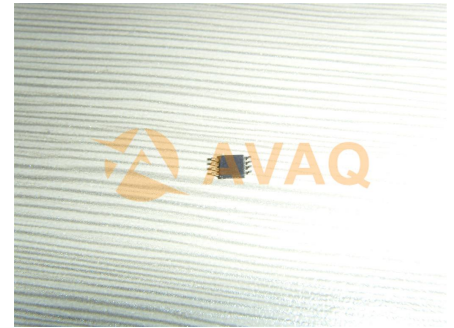


## INST Amp Single R-R O/P 5.5V 8-Pin VSSOP T/R

<b>Manufacturer:</b>	<a href="#">Texas Instruments, Inc</a>
<b>Package/Case:</b>	VSSOP-8
<b>Product Type:</b>	Amplifier ICs
<b>RoHS:</b>	RoHS Compliant/Lead free 
<b>Lifecycle:</b>	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 $\mu$ A (dropping to 0.01 $\mu$ 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  $-55^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$  and operating range of  $-65^{\circ}\text{C}$  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

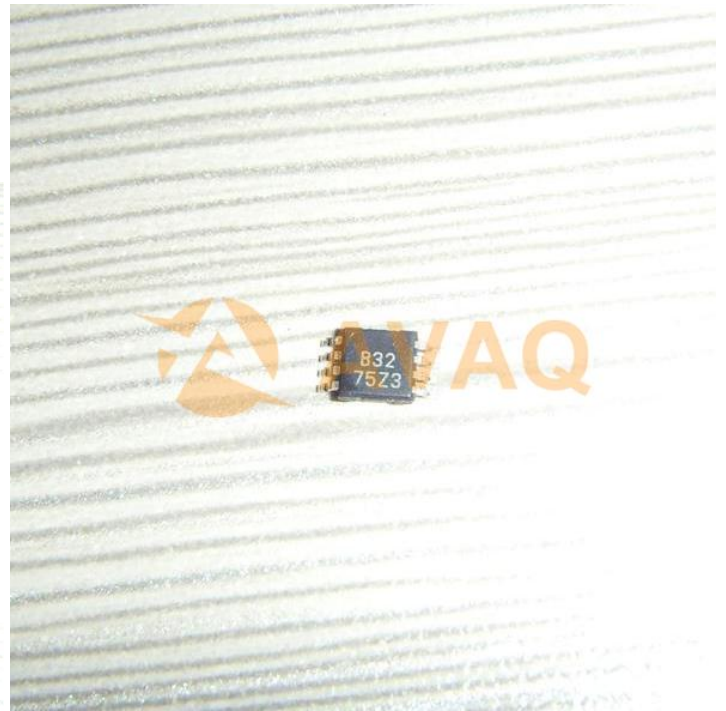
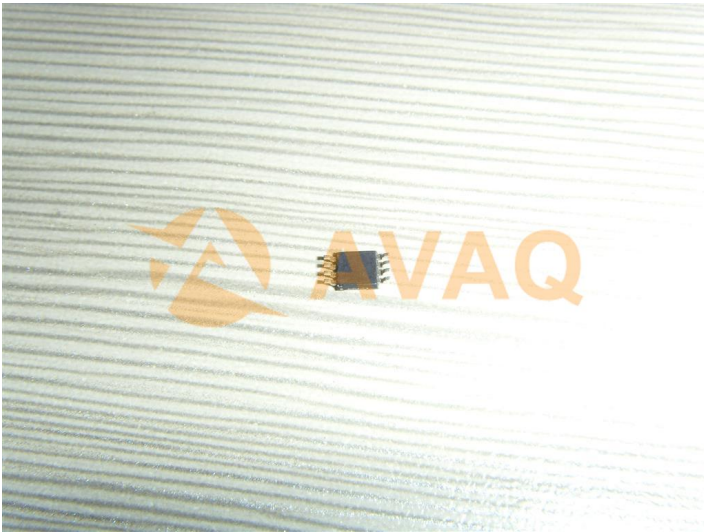
AUDIO AMPLIFIERS

COMMUNICATION SYSTEMS

TEST EQUIPMENT

AUTOMOTIVE INSTRUMENTATION

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## Recommended For You

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### 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