

## SP Amp Current Shunt Monitor Single 26V 6-Pin SC-70 T/R

**Manufacturer:** [Texas Instruments, Inc](#)

**Package/Case:** SC70-6

**Product Type:** Amplifier ICs

**RoHS:** RoHS Compliant/Lead free 

**Lifecycle:** Active



Images are for reference only

[Inquiry](#)

### General Description

The INA21x are voltage-output, current-shunt monitors (also called current-sense amplifiers) that are commonly used for overcurrent protection, precision-current measurement for system optimization, or in closed-loop feedback circuits. This series of devices can sense drops across shunts at common-mode voltages from  $-0.3\text{ V}$  to  $26\text{ V}$ , independent of the supply voltage. Six fixed gains are available:  $50\text{ V/V}$ ,  $75\text{ V/V}$ ,  $100\text{ V/V}$ ,  $200\text{ V/V}$ ,  $500\text{ V/V}$ , or  $1000\text{ V/V}$ . The low offset of the zero-drift architecture enables current sensing with maximum drops across the shunt as low as  $10\text{-mV}$  full-scale.

These devices operate from a single  $2.7\text{-V}$  to  $26\text{-V}$  power supply, drawing a maximum of  $100\text{ }\mu\text{A}$  of supply current. All versions are specified over the extended operating temperature range ( $-40^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$ ), and offered in SC70 and UQFN packages.

## Key Features

Wide Common-Mode Range:  $-0.3\text{ V}$  to  $26\text{ V}$

Offset Voltage:  $\pm 35\text{ }\mu\text{V}$  (Maximum, INA210)(Enables Shunt Drops of 10-mV Full-Scale)

Accuracy:

Gain Error (Maximum Over Temperature):

$\pm 0.5\%$  (Version C)

$\pm 1\%$  (Versions A and B)

$0.5\text{-}\mu\text{V}/^\circ\text{C}$  Offset Drift (Maximum)

$10\text{-ppm}/^\circ\text{C}$  Gain Drift (Maximum)

Choice of Gains:

INA210: 200 V/V

INA211: 500 V/V

INA212: 1000 V/V

INA213: 50 V/V

INA214: 100 V/V

INA215: 75 V/V

Quiescent Current:  $100\text{ }\mu\text{A}$  (Maximum)

SC70 and Thin UQFN Packages: All Models

## 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