
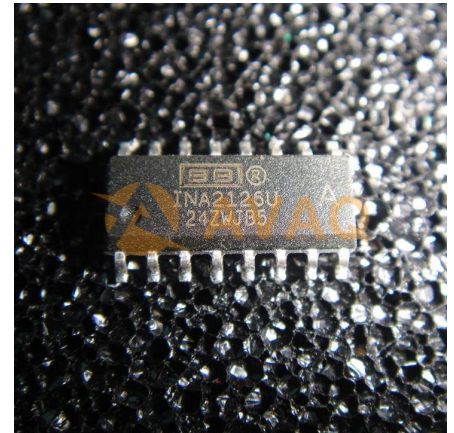


## INST Amp Dual $\pm 18\text{V}/36\text{V}$ 16-Pin SOIC Tube

<b>Manufacturer:</b>	<a href="#">Texas Instruments, Inc</a>
<b>Package/Case:</b>	SOP16
<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 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

Low Quiescent Current:  $175\text{ }\mu\text{A/channel}$

Wide Supply Range:  $\pm 1.35\text{ V}$  to  $\pm 18\text{ V}$

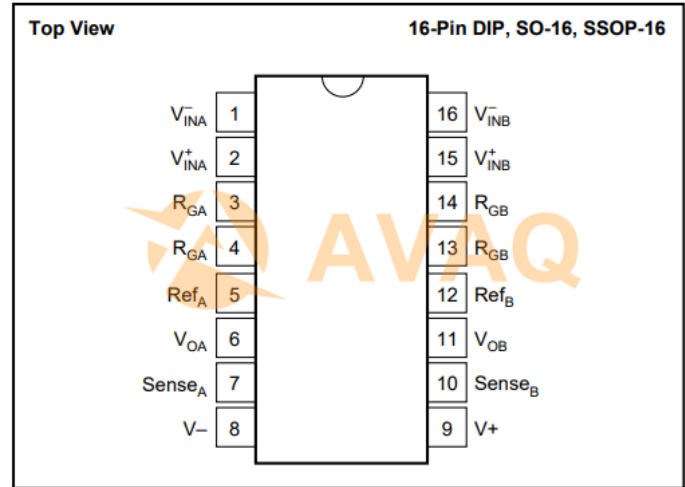
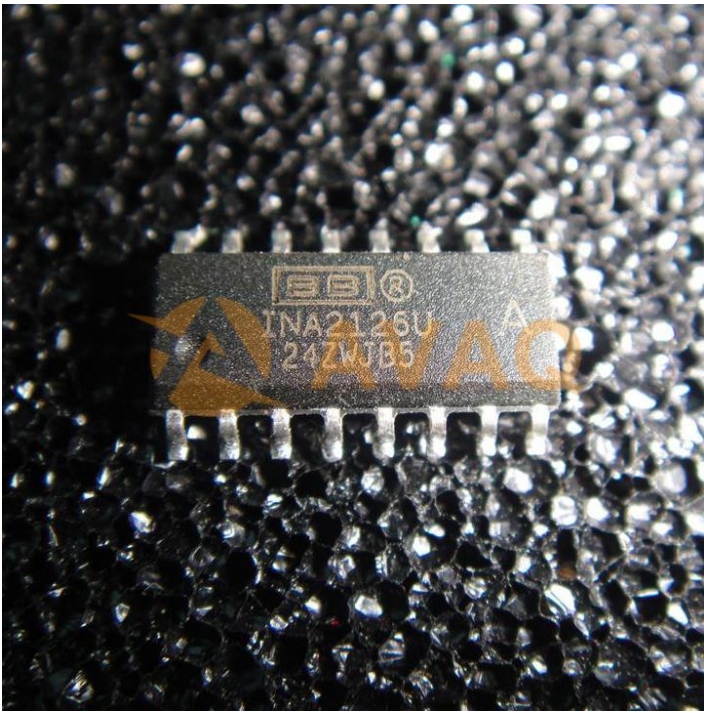
Low Offset Voltage:  $250\text{-}\mu\text{V}$  Maximum

Low Offset Drift:  $3\text{-}\mu\text{V}/^\circ\text{C}$  Maximum

Low Noise:  $35\text{ nV}/\sqrt{\text{Hz}}$

Low Input Bias Current:  $25\text{-nA}$  Maximum

8-Pin PDIP, SOIC, VSSOP Surface-Mount Dual: 16-Pin PDIP, SOIC, SSOP



## 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

### INA117P

Texas Instruments, Inc

DIP8