


INST Amp Single $\pm 18V$ 8-Pin PDIP Tube

Manufacturer:	Texas Instruments, Inc
Package/Case:	DIP8
Product Type:	Amplifier ICs
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Active



Images are for reference only

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General Description

The INA118 is a low-power, general-purpose instrumentation amplifier offering excellent accuracy. The versatile, three op amp design and small size make this device an excellent choice for a wide range of applications. Current-feedback input circuitry provides wide bandwidth, even at high gain (70 kHz at $G = 100$).

A single external resistor sets any gain from 1 to 10000. Internal input protection can withstand up to ± 40 V without damage.

The INA118 is laser-trimmed for low offset voltage (50 μV), drift (0.5 $\mu V/^{\circ}C$), and high common-mode rejection (110 dB at $G = 1000$). The INA118 operates with power supplies as low as $\pm 1.35V$, and quiescent current is only 350 μA , making this device an excellent choice for battery-operated systems.

The INA118 is available in 8-pin plastic DIP and SO-8 surface-mount packages, and specified for the $-40^{\circ}C$ to $+85^{\circ}C$ temperature range.

The upgraded INA818 offers a lower input stage offset voltage (35 μV , maximum), lower input bias current (0.5 nA maximum) and lower noise (8 nV/\sqrt{Hz}) at the same quiescent current. See the Device Comparison Table for a selection of precision instrumentation amplifiers from Texas Instruments.

Key Features

A newer version of this device is now available: INA818

Low offset voltage: 50 μV , maximum

Low drift: 0.5 $\mu V/^{\circ}C$, maximum

Low input bias current: 5 nA, maximum

High CMR: 110 dB, minimum

Inputs protected to ± 40 V

Wide supply range: ± 1.35 to ± 18 V

Low quiescent current: 350 μA

Packages: 8-Pin plastic DIP, SO-8

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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