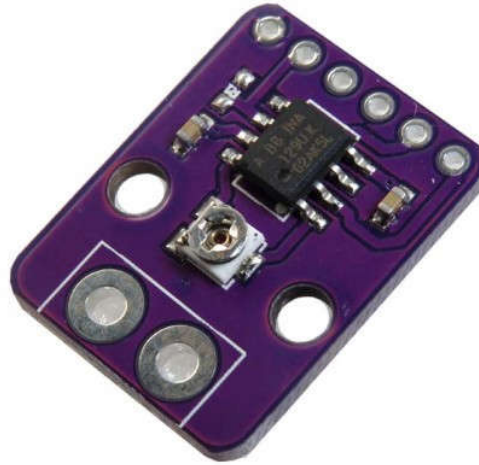


# INA129-HT Module



## **Description:**

The INA128-HT and INA129-HT are low-power, general-purpose instrumentation amplifiers offering excellent accuracy. The versatile three-operational-amplifier design and small size make them ideal for a wide range of applications. Current-feedback input circuitry provides wide bandwidth even at high gain. A single external resistor sets any gain from 1 to 10000. The INA128-HT provides an industry-standard gain equation; the INA129-HT gain equation is compatible with the AD620.

The INA128-HT and INA129-HT are laser trimmed for very low offset voltage (25  $\mu\text{V}$  Typ) and high common-mode rejection (93 dB at  $G \geq 100$ ). These devices operate with power supplies as low as  $\pm 2.25\text{ V}$ , and quiescent current of 2 mA, typically. Internal input protection can withstand up to  $\pm 40\text{ V}$  without damage.

Texas Instruments' high-temperature products use highly optimized silicon (die) solutions with design and process enhancements to maximize performance over extended temperatures.

The INA129-HT is available in 8-pin ceramic DIP and 8-pin ceramic surface-mount packages, specified for the  $-55^{\circ}\text{C}$  to  $210^{\circ}\text{C}$  temperature range. The INA128-HT is available in an 8-pin SOIC-8 surface-mount package, specified for the  $-55^{\circ}\text{C}$  to  $175^{\circ}\text{C}$  temperature range.

## **Application:**

- Bridge Amplifiers
- Thermocouple Amplifiers
- RTD Sensor Amplifiers
- Medical Instrumentation
- Data Acquisition

## **Features:**

- Low Offset Voltage: 25  $\mu\text{V}$  Typical
- Low Input Bias Current: 50 nA Typical

High CMR: 95 dB Typical  
Inputs Protected to  $\pm 40$  V  
Wide Supply Range:  $\pm 2.25$  V to  $\pm 18$  V  
Low Quiescent Current: 2 mA Typical

