

Board Mount Temperature Sensors Linear Active Thrmst (TM) IC (10mV/oC)

Manufacturers	<a href="#">Microchip Technology, Inc</a>
Package/Case	SC70-5
Product Type	Temperature Sensors
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for MCP9700T-H/LT or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

Linear Active Thermistor™ ICs are sensors whose output voltage is directly proportional to measured temperature. The MCP9700 can accurately measure temperature from -40C to +150C. The output of the MCP9700 is calibrated to a slope of 10mV/°C and has a DC offset of 500mV. The offset allows reading negative temperatures without the need for a negative supply. The MCP9700 is packaged in space saving 5-pin SC-70 packages, making it ideal for space-critical and low-cost applications.

- Tiny Analog Temperature Sensor
- Available Packages: – SC70-5, SOT-23-5, TO-92-3
- Wide Temperature Measurement Range: – -40°C to +125°C (Extended Temperature) – -40°C to +150°C (High Temperature) (MCP9700/9700A)
- Accuracy: – ±2°C (max.), 0°C to +70°C (MCP9700A/9701A) – ±4°C (max.), 0°C to +70°C (MCP9700/9701)
- Optimized for Analog-to-Digital Converters (ADCs): – 10.0 mV/°C (typical) MCP9700/9700A – 19.5 mV/°C (typical) MCP9701/9701A
- Wide Operating Voltage Range>• Low Operating Current: 6 µA (typical)
- Optimized to Drive Large Capacitive Loads

## Features

AEC-Q100 Qualified Grade 0

## Related Products



[MCP9701AT-E/LT](#)

Microchip Technology, Inc  
SC70-5



[EMC1412-2-ACZL-TR](#)

Microchip Technology, Inc  
MSOP-8

