

## Board Mount Temperature Sensors TMP SENSOR

Manufacturers	<a href="#">Microchip Technology, Inc</a>
Package/Case	WDFN-8
Product Type	Temperature Sensors
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for AT30TSE002B-MAH-T or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

Microchip Technology Inc.'s AT30TSE002B digital temperature sensor converts temperature from -40°C and +125°C to a digital word. This sensor meets JEDEC Specification JC42.4 Mobile Platform Memory Module Thermal Sensor Component. It provides an accuracy of  $\pm 0.5^{\circ}\text{C}/\pm 1^{\circ}\text{C}$  (typical/maximum) from +75°C to +95°C. In addition, this device has an internal 256 Byte EEPROM which can be used to store vital system or end product data.

## Features

Meets JEDEC Specification JC42.4

Temperature Sensor + 2 Kbit Serial EEPROM

EEPROM for Serial Presence Detect (SPD)

Optimized for Voltage Range: 2.7V to 3.6V

Shutdown/Standby Current: 3  $\mu$ A (max.)

2-wire I2C™/SMBus Interface

meets 25ms to 35ms SMBus timeout

Available Packages:

DFN-8

Serial EEPROM Features

Operating Current:

Write 1.1 mA (typical) for 3.5 ms (typical)

Read 100  $\mu$ A (typical)

Permanent and Reversible Software Write Protect

Software Write Protection for the lower 1 Kbit

Organized as 1 block of 256 x 8-bit (2 Kbit)

Temperature Sensor Features

Class B — Temperature-to-Digital Converter

Sensor Accuracy:

Operating Current: 200  $\mu$ A (typical)

## Related Products



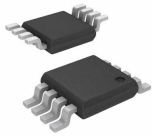
### [MCP9701AT-E/LT](#)

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### [AT30TS00-MAH-T](#)

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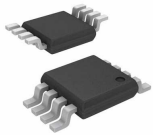
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