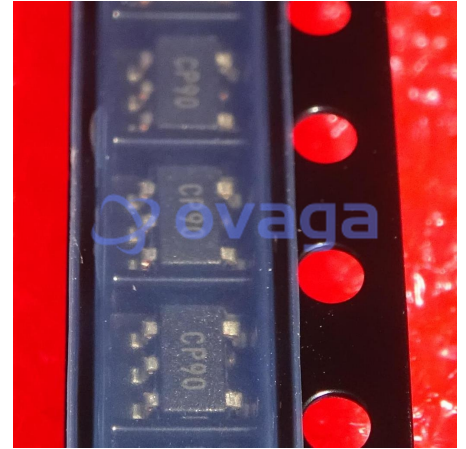


Thermal Sensor with SPI Interface, Board Mount Temperature Sensors High-Accuracy 13-bit

Manufacturers	<a href="#">Microchip Technology, Inc</a>
Package/Case	SOT-23A-5
Product Type	Temperature Sensors
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for TC77-5.0MCTTR or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

The TC77 is a serially accessible digital temperature sensor particularly suited for low cost and small form-factor applications. Temperature data is converted from the on-board thermal sensing element and made available at anytime as a 13-bit two's complement digital word. Communication with the TC77 is accomplished via an SPI/ Microwire compatible interface. The device features a 12-bit plus sign temperature resolution of 0.0625°C per LSB. The TC77 offers a temperature accuracy of +/-1.0°C (max) over the temperature range of +25°C to +65°C. The SHUTDOWN bits in the Configuration register can be used to activate the low power Standby mode (0.1 uA typical). When operating, the TC77 consumes only 250 µA (typ), 400 µA max. Small size, low installed cost and ease of use make the TC77 an ideal choice for implementing thermal management in a variety of systems.

## Features

3-wire SPI™/Microwire Compatible Interface

13-Bit Resolution (0.0625°C/Bit)

Low Operating Current: 250 uA (typical)

Shutdown Mode: 1 uA (max)

Space Saving SOT-23 Package Available



### Related Products



#### [TCN75AVOA713](#)

Microchip Technology, Inc  
SOIC-8



#### [TC620CCPA](#)

Microchip Technology, Inc  
PDIP-8



#### [TC620CEOA](#)

Microchip Technology, Inc  
SOIC-8



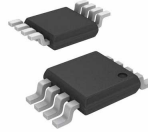
#### [TC622EPA](#)

Microchip Technology, Inc  
PDIP-8



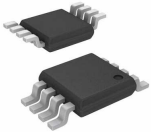
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