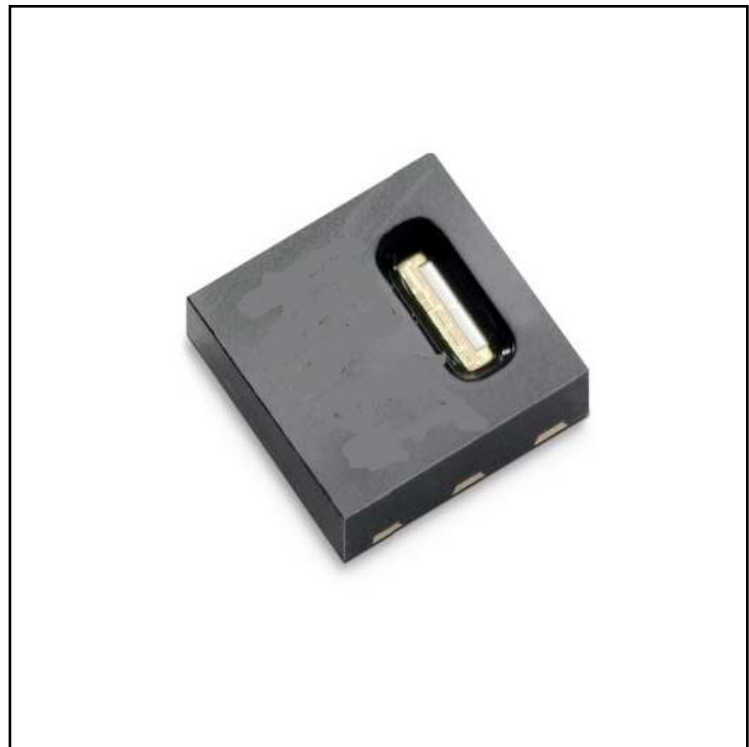


FEATURES

- Fully calibrated
- Digital output, I2C interface
- Low power consumption
- Excellent long term stability
- DFN type package – reflow solderable

RS PRO Sensors

RS Stock No.: 2465632, 2465633



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

Product Description

- This is a fully calibrated high accuracy Digital Temperature Sensor. It has the same superior performance and space saving 3x3mm footprint. It is pin compatible. Therefore it is custom-made for solutions in which temperature measurement is a prerequisite and humidity measurement is optional, as the same hardware can be used for both options. The outstanding accuracy and low power consumption paired with a competitive price make this an ideal solution for applications with high demands on both performance and economy.

General Specifications

Product Name	Temperature Sensor IC
Type	Digital
No. of Pins	6Pins
Sensor Case Style	DFN

Temperature Specifications

Sensing Temperature Range	-40°C~120°C
Sensing Accuracy Range	± 0.2°C
Repeatability	± 0.1°C
Long Term Drift	< 0.04 ° C/yr
Resolution ¹	14 bit, 0.01° C; 12 bit, 0.04° C
Response time (τ63%)	5s

Electrical Specifications

Supply Voltage, VDD	2.1~3.6V
Supply Current, IDD ⁴	sleep mode 0.4 μ A; measuring range 200~330 μ A
Power Dissipation ⁴	sleep mode 1.2 μ W; measuring range 0.6~1.0 mW; average 11bit 8.6 μ W
Communication	digital 2-wire interface, I2C protocol
Dimensions	3 x 3 x 1.1mm ³
Width	3 mm ³
Length	3 mm ³
Height	1.1mm ³

Approvals

Compliance/Certifications	UL/ EN / IEC
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