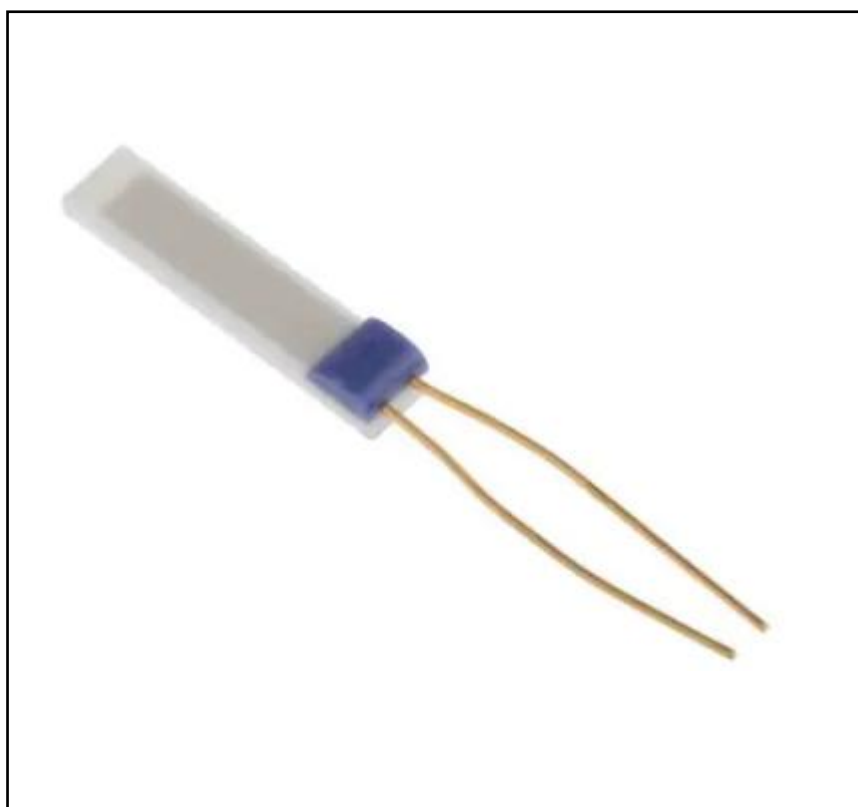


FEATURES

- Thin film construction
- High stability and accurate output
- Linear output over a wide operating range
- A fast thermal response time of 0.1s
- Resistant to vibration and shock
- Temperature measurement range from -50°C to 500°C
- 10mm lead wires

RS PRO 2 wire PT1000 Sensor, -50°C min +500°C max, 10mm Probe Length x 2mm Probe Diameter

RS Stock No.: 362-9907



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

From RS PRO a high-quality and reliable Pt100 and Pt1000 PRT (Platinum Resistance Thermometer) or RTD (Resistance Temperature Detector). These temperature sensors have a thin film construction for accurate and reliable temperature measurement along with a fast response time to temperature changes. This design is also resistant to both vibration and shock. The flat design of these PRTs makes them ideal for measuring temperatures on surfaces

General Specifications

Sensor Type	Pt1000
Probe Material	Platinum
Number Of Wires	2
Accuracy	Class A
Response Time	0.1s
Construction	Thin film, 10mm tails
Vibration Resistant	Yes
Tolerance	Class A
Applications	These thin film PRT temperature sensors are suitable for surface and immersion applications where protected. Their flat design means they offer a minimally intrusive means of measuring temperatures on flat surfaces. Applications include the following: Automotive industry, Chemical industry, Micro-electronics, Air conditioning and refrigeration, Air, gas and liquid temperature measurement, Food processing, Laboratories

Electrical Specifications

Ice point resistance	1000Ω
Fundamental interval (0°C to 100°C)	385Ω (nominal)
Self-heating	<0.5°C/mW
Stability	±0.05%
Measuring current	1mA

Mechanical Specifications

Probe Length	10mm
Probe Diameter	2mm
Termination Type	Solder
Process Connection	Chip
Immersion Effect	Suitable for surface & immersion applications where protected

Operation Environment Specifications

Minimum Temperature Sensed	-50°C
Maximum Temperature Sensed	500°C

Approvals

Compliance/Certifications	IEC751
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Resistance	Dimensions (width x length)	Tolerance Class	Allied code	RS order code
Pt1000	2.0 x 10.0mm	Class A	70643582	362-9907
Pt1000	2.0 x 10.0mm	Class B	70643583	362-9913
Pt1000	2.0 x 10.0mm	1/3 Din	70656472	814-0178
Pt1000	1.0 x 3.0mm	Class B	70656470	814-0171
Pt1000	1.25 x 1.7mm	Class B	70656471	814-0175

