

# PLATINUM CHIP SMD TEMPERATURE SENSOR

- -50 to +130 C
- 100 or 1000 ohm DIN RTD
- for automatic insertion
- supplied in belt packaging



The Pt 100 SMD temperature sensor is provided, like other SMD components with solder connections at both ends. The size 1206 and the electro-tinned all-round contact ensures inserton-friendly use on circuit boards.

Compared with styles using connecting wires the SMD temperature sensor is particularly rugged and intended essentially for automatic insertion in large-scale production.

Its platinum temperature sensor characteristics including long-term stability, interchangeability without recalibration and excellent reproducibility of electrical properties suit it to many applications.

It is suitable for surface and environment temperature measurement on circuit boards as well as for temperature compensation.

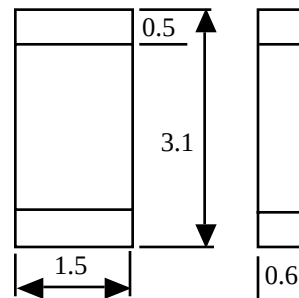
The platinum SMD temperature sensor must not be used without protection in a humid environment.

Platinum SMD temperature sensors are supplied in a belt package to IEC 286-3.

Small quantities can also be supplied loose.

## ORDERING DATA :

**Model: PCS 1.1503.1** 100 ohm class B  
**Model: PCS 1.1503.10** 1000 ohm class B



Dimensions in mm

## TECHNICAL DATA

P Platinum resistance material to EN 60 751 (IEC 751)  
 C chip style  
 S SMD style (size 1206)  
 1. 1 measurement winding  
 15 width W in 0.1 mm (1.5 mm)  
 03 length L in mm (3 mm)  
 .1 nominal value 100 ohms at 0 C

Tolerance Class B ( $0.3 + 0.005 \cdot \text{tabs}$ ) C,  $\alpha = 0.385 \text{ ohms} / ^\circ\text{C}$

Self-heat coefficient in  $^\circ\text{C} / \text{mW}$

water 0.02 air 0.20

Response times in seconds

$t_{50\%}$  0.1  $t_{90\%}$  0.3

Processing-

Reflow soldering (soldering temperature / time 240  $^\circ\text{C}$  max / 8 sec)

Wave soldering (soldering temperature / time 260  $^\circ\text{C}$  max / 10 sec)

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