

Platinum Resistance Temperature Detector

PCB 1325 (0805)

This platinum temperature sensor on a printed circuit board has been specially designed for use in calorimetry. When designing these sensors, the stringent requirements of this sector with regard to precision, long-term stability, cost minimisation as well as the option for fully automatic further processing were of prime concern.

The temperature sensor in an SMD model forms the measurement active element on a PCB. The chip is connected with terminal faces with a thin conductive path in order to reduce heat dissipation and to prevent corruption of the measuring results. As a cable set sensor, it is suitable for a wide range of applications within a temperature range of 0℃ to 150℃.

Nominal Resistance R ₀	Tolerance DIN EN 60751 1996-07	Tolerance DIN EN 60751 2009-05	Ordner No.	Dir L1	nensions ir L2 +1 -2	n mm B -0,2	FC Type
1000	В	F 0.3	30 201 102	13	15	2,5	0805
500	В	F 0.3	30 201 103	13	15	2,5	0805

DIN EN 60751 Specification

Tolerance classes Class B

Temperature range 0℃ to 150℃

Temperature coefficient TC = 3850 ppm/K

Long-term stability ≤ 0.1 K after 1000 h at 150°C energized with:

Pt 1000: 0.3 mA Pt 500: 0.7 mA

Measuring current 1000Ω: 0.1 to 0.3mA

500Ω: 0.1 to 0.7mA

Self-heating 0.15 K/mW in ice water

Temperature change resistance ≤ 0.1 K after 1000 change 0℃/150℃ in air

Contact Cu connection pad with chem. Sn surface

Soldering Chip is soldered lead free

Connection pads are ready for lead free

soldering

Ambient conditions Use unprotected only in dry environments

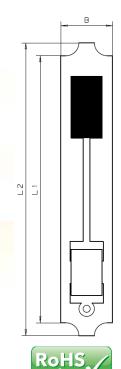
water (v = 0.4m/s): $t_{0,5} = 0.05s$ $t_{0,9} = 0.10s$ Response time $t_{0,5} = 1.5s$ $t_{0,9} = 5.0s$ air (v=2m/s):

Packaging Supplied in plastic container

Storage life 12 months

Other tolerances and values of resistance are Note

available on request.





We reserve the right to make alterations and technical data printed. All technical data serves as a guideline and does not guarantee particular properties to any products.

Heraeus Sensor Technology USA

1901 Route 130 North Brunswick, NJ 08902 Phone 732-940-4400 Fax 732-940-4445 Email info.hst-us@heraeus.com www.hst-us.com

Name of document: 30910064 Index A Status: 07/2012

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Heraeus: 30201102