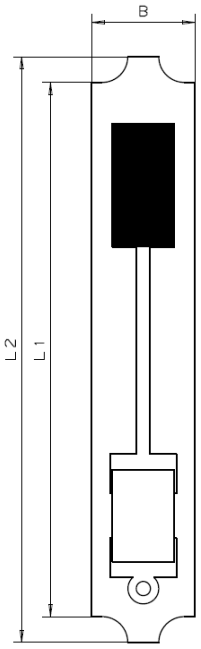
Platinum Resistance Temperature Detector PCB 1325 (0805)

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.	Dimensions in mm L1	L2 +1 -2	B -0,2	FC Type
1000	B	F 0.3	30 201 102	13	15	2,5	0805
500	B	F 0.3	30 201 103	13	15	2,5	0805

Specification	DIN EN 60751
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℃ 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	1) Chip is soldered lead free 2) Connection pads are ready for lead free soldering
Ambient conditions	Use unprotected only in dry environments
Response time	water (v= 0.4m/s): $t_{0,5}$ = 0.05s $t_{0,9}$ = 0.10s air (v=2m/s): $t_{0,5}$ = 1.5s $t_{0,9}$ = 5.0s
Packaging	Supplied in plastic container
Storage life	12 months
Note	Other tolerances and values of resistance are available on request.



RoHS conform

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.

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