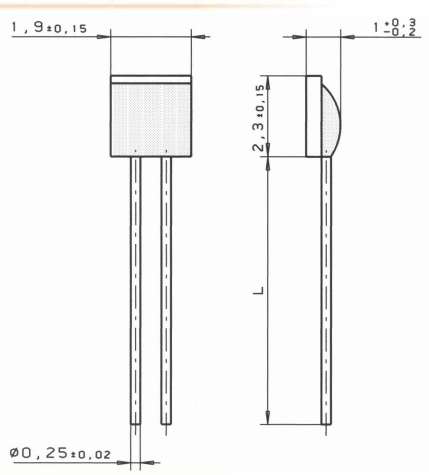
Platinum Resistance Temperature Detector C 220

The C series thin-film PRTDs combine the ideal curve characteristics of ceramic wire-wound RTDs with the vibration resistance of glass wire-wound RTDs and represent an excellent alternative to wire-wound RTDs. They are characterized by high long-term stability, excellent temperature shock resistance and a wide temperature range of -196°C to +150°C. The deviation from the DIN EN 60751 (according to IEC 751) characteristic curve is minimal over the entire temperature range, they show no hysteresis. These features make them best suited for applications in aerospace, chemical and power generation plants and analytical equipment.

Nominal Resistance R0	Tolerance DIN EN 60751 1996-07	Tolerance DIN EN 60751 2009-05	Order Number Plastic Box
100 Ohm at 0°C	Class B	F 0.3	32 207 399

The measuring point for the nominal resistance is defined at 8mm from the end of the sonsor body.



Specification DIN EN 60751

Nominal resistance 100Ω at 0°C

Temperature range -196°C to +150°C
Tolerance Class B: -196°C to +150°C

Temperature coefficient TC= 3850 ppm/K

Leads AgPd- wire

Lead lengths (L) 10mm ±1mm

Long-term stability max. R0-Drift 0.03% after 1000 h at 150°C

Environmental conditions unhoused for dry environments only

Vibration resistance at least 40g acceleration at 10 to 2000 Hz, depends on installation

Shock resistance at least 100g acceleration with 8ms half sine wave, depends on installation

Insulation resistance > 100 MΩ at 150°C

Self heating 0.4 K/mW at 0°C

Response time

water current (v= 0.4m/s):	$t_{0.5}$ = 0.06s
	$t_{0.9}$ = 0.20s
air stream (v= 2m/s):	$t_{0.5}$ = 3.5s
	$t_{0.9}$ = 13.0s

Measuring current 100Ω: 0.3 to 1.0mA
(self heating has to be considered)

Note Other tolerances, values of resistance and wire lengths 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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