

M series PRTDs are designed for large volume applications where long term stability, interchangeability and accuracy over a large temperature range are vital. Typical applications are Automotive, White goods, HVAC, Energy management, Medical and Industrial equipment.

Nominal Resistance R ₀	Tolerance DIN EN 60751 1996-07	Tolerance DIN EN 60751 2009-05	Order Number Plastic Box
100 Ohm at 0°C	Class 1/3 B	F 0.1	32 207 692
	Class A	F 0.15	32 207 691
	Class B	F 0.3	32 207 690
1000 Ohm at 0°C	Class B	F 0.3	32 207 695

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

Specification DIN EN 60751 (according to IEC 751)

Temperature range -70°C to +500°C (continuous operation)
(temporary use to 550 °C possible)
Tolerance Class B: -70°C to +500°C
Tolerance Class A: -50°C to +300°C
Tolerance Class 1/3 B: 0°C to +150°C

Temperature coefficient TC = 3850 ppm/K

Leads Pt clad Ni- wire
Recommended connection technology:
Welding, Crimping and Brazing

Lead lengths (L) 10mm ±1mm

Long-term stability max. R₀-drift 0.04% after 1000h at 500°C

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

Environmental conditions unhoisted for dry environments only

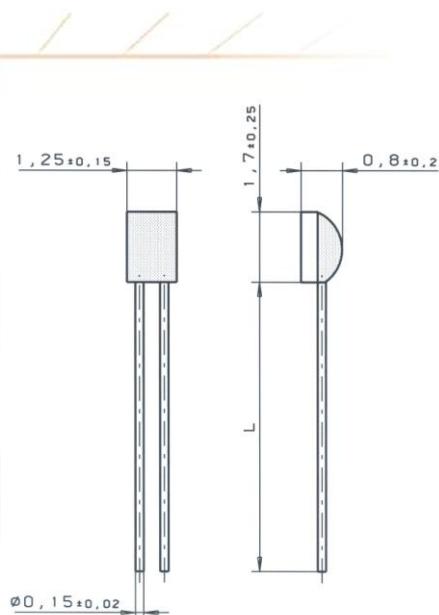
Insulation resistance > 100 MΩ at 20°C; > 2 MΩ at 500°C

Self heating 0.6 K/mW at 0°C

Response time water current (v= 0.4m/s): t_{0.5} = 0.04s
t_{0.9} = 0.12s
air stream (v= 2m/s): t_{0.5} = 2.2s
t_{0.9} = 7.0s

Measuring current 100Ω: 0.3 to 1.0 mA
1000Ω: 0.1 to 0.3 mA
(self heating has to be considered)

Note Other tolerances, values of resistance and wire
lengths are 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.

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