Platinum Resistance Temperature Detector M 622 10kOhm

M series PRTDs are designed for large volume applications where long term stability, interchangeability and accuracy over a large temperature range are vital. Due to the high resistance value of 10 kΩ the signal gain is excellent. Typical applications are found in White goods, HVAC, Medical and Industrial equipment.

Nominal Resistance R0	Tolerance DIN EN 60751 1996-07	Tolerance DIN EN 60751 2009-05	Order Number Plastic Bag
10000 Ohm at 0°C	Class B	F 0.3	32 208 711

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

Spezification 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

Temperature coefficient TC = 3850 ppm/K

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

Longterm stability Max. R_o – Drift 0,04% after 1000h at 500°C

Lead lengths (L) 10mm ±1mm

Environmental conditions unhoused for dry environments only

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

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

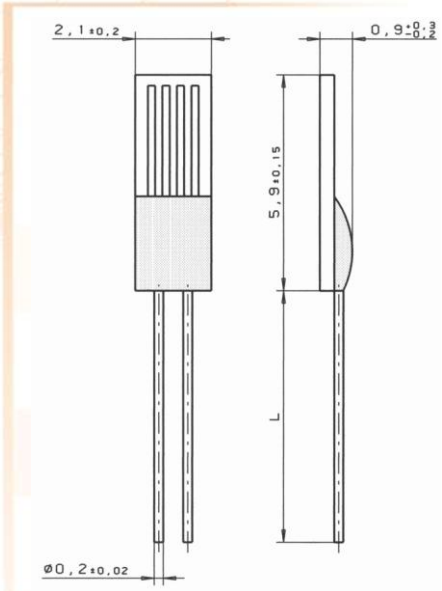
Shock resistance at least 100g acceleration with 8ms half sine wave , depends on installation

Self heating 0.3 K/mW at 0°C

Response time
water current (v = 0.4 m/s): $t_{0.5}$ = 0.08s, $t_{0.9}$ = 0.25s
air stream (v = 2 m/s): $t_{0.5}$ = 3.7s, $t_{0.9}$ = 11.5s

Measuring current 10000Ω: 0.1 to 0.25 mA
(self heating has to be considered)

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



RoHS conform

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