Platinum Resistance Temperature Detector   M 222
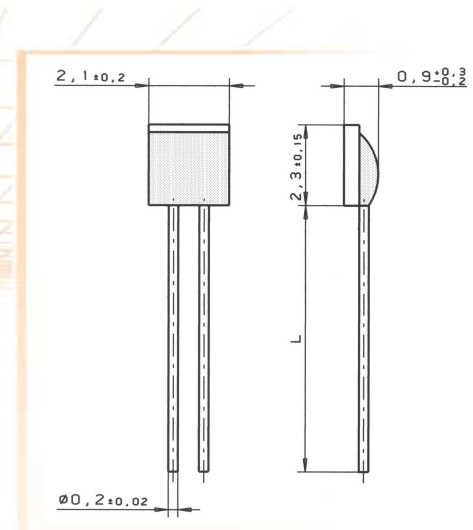
Mseries PRTDs are designed for large volume applications where long term stability, interchangeability and accuracy over a large temperature range are vital. Typical applications are Automotive, White Goods, HVAC, Energy management, Medical and Industrial equipment.

Nominal Resistance R0	Tolerance DIN EN 60751 1996-07	Tolerance DIN EN 60751 2009-05	Order Number Plastic Box
1000 Ohm at 0°C	Class B	F 0.3	32 208 233

The measuring point for the nominal resistance is defined at 6mm from the end of the sensor body.

Temperature range	-70°C to +500°C (continuous operation) (temporary use to 550 °C/ 750 hours possible) Tolerance Class B: -70°C up to 500°C
Temperature coefficient	TCR = 3750 ppm/K
Leads	Pt clad Ni- wire Recommend connection technology: Welding, Crimping and Brazing
Lead lengths (L)	8mm ±1mm
Long-term stability	max. R_0-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	unhoused for dry environments only
Insulation resistance	> 100 MΩ at 20°C; > 2 MΩ at 500°C
Self heating	0.4 K/mW at 0°C
Response time	water current (v= 0.4m/s): $t_{0.5}$ = 0.05s $t_{0.9}$ = 0.15s air stream (v= 2m/s): $t_{0.5}$ = 3.0s $t_{0.9}$ = 10.0s
Measuring current	500Ω: 0.1 to 0.7mA 1000Ω: 0.1 bis 0.3mA (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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