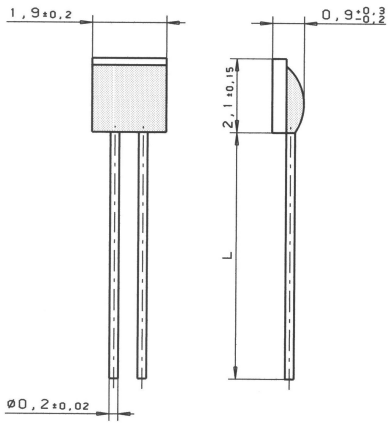
Platinum Resistance Temperature Detector M 219

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, Appliances, HVAC, Energy Management, Life Science and the process industry.

Nominal Resistance R0	Tolerance DIN EN 60751 1996-07	Tolerance DIN EN 60751 2009-05	Order Number Plastic Box	Lead Length (L) ±1mm
1000 Ohm at 0°C	Class 2B	F 0.6	32208 728	7

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



Specification DIN EN 60751

Temperature range -70°C to +500°C (continuous operation)
(temporary use to 550°C possible)
Tolerance Class B und 2B: -70°C +500°C

Tolerance class: Class 2B

Temperature coefficient TC = 3750 ppm/K

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

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, depending 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 0.5 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= 2.0m/s):	$t_{0,5}$ = 3.0s
	$t_{0,9}$ = 10.0s

Measuring current 1000Ω: 0.1 to 0.3mA
(Self heating has to be considered)

RoHS conform

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