

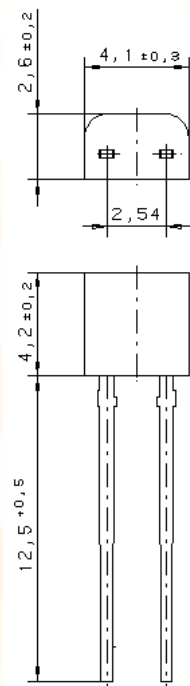
Housed Platinum Resistance Temperature Detector

TO 92

The PRTD in a plastic housing is characterized by its standardized signal according to DIN EN 60751 (according to IEC 751), interchangeability, excellent long time stability and accuracy. It offers an optimal price-performance ratio in large volume applications including Automotive, Domestic Appliances and Industrial Equipment.

Nominal resistance R_0	Tolerance	Order No. Plastic bag
100 Ohm at 0°C	DIN EN 60751, class B DIN EN 60751, class 2B	32 209 210 32 209 216
1000 Ohm at 0°C	DIN EN 60751, class B DIN EN 60751, class 2B	32 209 220 32 209 226

Specification	DIN EN 60751 (according to IEC 751)	
Temperature range	- 50 °C to + 150 °C	
Temperature coefficient	TCR = 3850 ppm/K	
Soldering connection	Cu alloy with Sn coating	
Long-term stability	max. R_0 -drift 0.06% after 1000 h at 150 °C max. R_0 -drift 0.04% after 1000 h at -55 °C	
Self heating	Pt100: 0.4 K/mW Pt1000: 0.2 K/mW	
Response time	water current ($v = 0.4$ m/s):	$t_{0.5} = 0.7$ s $t_{0.9} = 2.0$ s
	air stream ($v = 2$ m/s):	$t_{0.5} = 8.0$ s $t_{0.9} = 26$ s
Resistance to soldering heat	max. deviation 0.03 % after 10s at 260 °C	
Flammability	UL 94-V0	
Specific volume resistance	20 °C: 5×10^{16} Ω cm 150 °C: 5×10^{13} Ω cm	
Physical data of housing	material: duroplastic coefficient of thermal expansion: 13×10^{-6} /°C thermal conductivity: 0.65 W/mK moisture absorption: 0.5% (P.C.T.: 121 °C, 24 h)	
Storing information	≤ 1 year (in dry environments) for best solderability	
Note	Other tolerances and values of resistance 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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