Heraeus

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 R0	Tolerance DIN EN 60751 1996-07	Tolerance DIN EN 60751 2009-05	Order Number Plastic Box
100 Ohm at 0°C	Class B	F 0,3	32 209 210
	Class 2B	F 0,6	32 209 216
1000 Ohm at 0°C	Class B	F 0,3	32 209 220
	Class 2B	F 0,6	32 209 226

Specification	DIN EN 60751 (according to IEC 751)			
Temperature range	-50°C to +150°C Tolerance Class B or 2B: -50°C up to +150°C			
Temperature coefficient	TC = 3850 ppm/K			
Soldering connection	Cu alloy with Sn coating	+17	t0,2	
Long-term stability	max. R_0 -drift 0.06% after 1000 max. R_0 -drift 0.04% after 1000			
Self heating	Pt100: 0.4 K/mW Pt1000: 0.2 K/mW			
Response time	water current (v = 0.4 m/s):	$t_{0.5} = 0.7s$ $t_{0.9} = 2.0s$		
	air stream (v = 2 m/s):	t _{0.5} = 8.0s t _{0.9} = 26s	2 ±0.2	
Resistance to soldering heat	max. deviation 0.03% after 10s			
Flammability	UL 94-V0		ן ו מ	
Specific volume resistance	20°C: 5 x 10 ¹⁶ Ωcm 150°C: 5 x 10 ¹³ Ωcm		12,5 ^{40,}	
Physical data of housing	material: duroplastic coefficient of thermal expansion thermal conductivity: 0.65 W/m moisture absorption: 0.5% (P.C			
Storing information	\leq 1 year (in dry environments) for best solderability			
Note	Other tolerances and values of resistance are available on request.			

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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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