

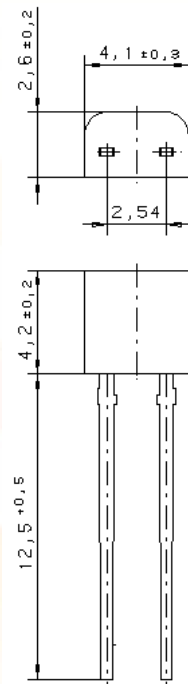
## Housed Platinum Resistance Temperature Detector

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 <sub>0</sub>	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

<b>Specification</b>	DIN EN 60751 (according to IEC 751)	
<b>Temperature range</b>	-50°C to +150°C Tolerance Class B or 2B: -50°C up to +150°C	
<b>Temperature coefficient</b>	TC = 3850 ppm/K	
<b>Soldering connection</b>	Cu alloy with Sn coating	
<b>Long-term stability</b>	max. R <sub>0</sub> -drift 0.06% after 1000 h at 150°C max. R <sub>0</sub> -drift 0.04% after 1000 h at -55°C	
<b>Self heating</b>	Pt100: 0.4 K/mW Pt1000: 0.2 K/mW	
<b>Response time</b>	water current (v = 0.4 m/s):	t <sub>0,5</sub> = 0.7s t <sub>0,9</sub> = 2.0s
	air stream (v = 2 m/s):	t <sub>0,5</sub> = 8.0s t <sub>0,9</sub> = 26s
<b>Resistance to soldering heat</b>	max. deviation 0.03% after 10s at 260°C	
<b>Flammability</b>	UL 94-V0	
<b>Specific volume resistance</b>	20°C: 5 x 10 <sup>16</sup> Ωcm 150°C: 5 x 10 <sup>13</sup> Ωcm	
<b>Physical data of housing</b>	material: duroplastic coefficient of thermal expansion: 13 x 10 <sup>-6</sup> /°C thermal conductivity: 0.65 W/mK moisture absorption: 0.5% (P.C.T.: 121°C, 24h)	
<b>Storing information</b>	≤ 1 year (in dry environments) for best solderability	
<b>Note</b>	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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