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 Class 2B	F 0,3 F 0,6	32 209 210 32 209 216
1000 Ohm at 0°C	Class B Class 2B	F 0,3 F 0,6	32 209 220 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

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): $t_{0.5}$ = 0.7s, $t_{0.9}$ = 2.0s
air stream (v = 2 m/s): $t_{0.5}$ = 8.0s, $t_{0.9}$ = 26s

Resistance to soldering heat max. deviation 0.03% after 10s at 260°C

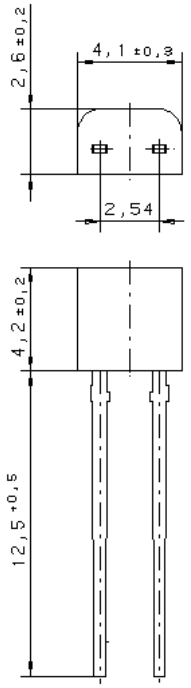
Flammability UL 94-V0

Specific volume resistance 20°C: $5 \times 10^{16}\Omega$cm
150°C: $5 \times 10^{13}\Omega$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, 24h)

Storing information $\leq$ 1 year (in dry environments) for best solderability

Note Other tolerances and values of resistance are available on request.



RoHS conform

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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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