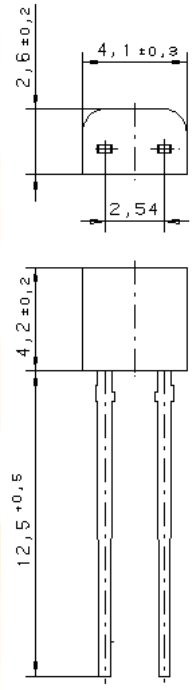
Housed Platinum Resistance Temperature Detector TO 92

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℃	DIN EN 60751, class B DIN EN 60751, class 2B	32 209 210 32 209 216
1000 Ohm at 0℃	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 ℃ to + 150 ℃

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 ℃
max. R_0-drift 0.04% after 1000 h at -55 ℃

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, $t_{0.9}$ = 2.0 s
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 ℃

Flammability UL 94-V0

Specific volume resistance 20 ℃: 5×10^{16} Ω cm
150 ℃: 5×10^{13} Ω cm

Physical data of housing material: duroplastic
coefficient of thermal expansion: 13 $\times 10^{-6}$ /℃
thermal conductivity: 0.65 W/mK
moisture absorption: 0.5% (P.C.T.: 121 ℃, 24 h)

Storing information ≤ 1 year (in dry environments) for best solderability

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

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