

Platinum Resistance Temperature Detector

SMD 1206 (V)

The PRTD SMD 1206 is designed for automatic mounting in large volume applications on printed circuit boards where long time stability, interchangeability combined with low costs are important.

Nominal Resistance R_0	Tolerance	Order No.
100 Ohm at 0°C	DIN EN 60751, class B	32 207 590
	DIN EN 60751, class 2B	32 207 589
1000 Ohm at 0°C	DIN EN 60751, class B	32 207 595
	DIN EN 60751, class 2B	32 207 594

Specification DIN EN 60751 (according to IEC 751)

Temperature range - 50 °C to + 130 °C (Possible working temperatures using volume expansion aligned conductor board material: 150°C)

Temperature coefficient TCR = 3850 ppm/K

Soldering connection end-termination galvanic tin plated with Ni-barrier

Long term stability max. R_0 -drift 0.06 % after 1000 h at 130 °C

Environmental conditions unhused for dry environments only

Insulation resistance > 100 M Ω at 20 °C;
> 2 M Ω at 130 °C (glass covering)

Measuring current 100 Ω : 0.3 to 1.0 mA
1000 Ω : 0.1 to 0.3 mA
(self heating has to be considered)

Self heating 0.4 K/mW at 0 °C

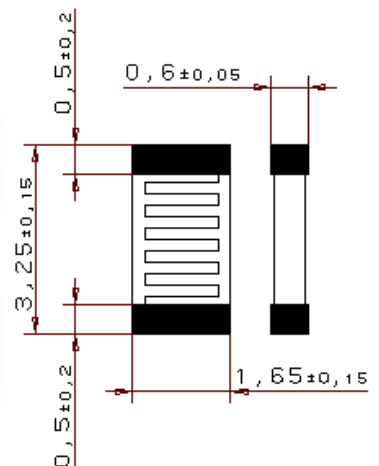
Response time water current ($v = 0.4$ m/s): $t_{0.5} = 0.15$ s;
 $t_{0.9} = 0.30$ s
air stream ($v = 2$ m/s): $t_{0.5} = 3.5$ s; $t_{0.9} = 10$ s

Processing instructions face up-mounting: reflow soldering or wave soldering,
e. g. double wave ≤ 8 s / 235 °C

Storage life Min. 9 months (in dry environment)

Packaging „Face-up“ in blister reel, 4000 pcs / reel

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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