

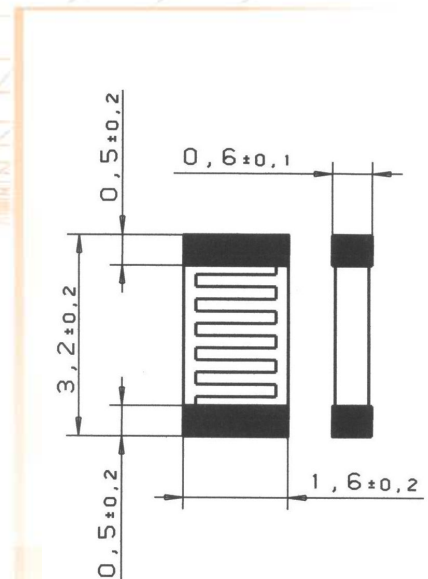
## Platinum Resistance Temperature Detector

## 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 R0	Tolerance DIN EN 60751 1996-07	Tolerance DIN EN 60751 2009-05	Order Number Plastic Box
100 Ohm at 0°C	Klasse B	F 0.3	32 207 590
	Klasse 2B	F 0.6	32 207 589
1000 Ohm at 0°C	Class B	F 0.6	32 207 595
	Class 2B	F 0.3	32 207 594

<b>Specification</b>	DIN EN 60751 (according to IEC 751)
<b>Temperature range</b>	-50°C to +130°C (Possible working temperatures using volume expansion aligned conductor board material: 150°C) Tolerance Class B or 2B: -50°C up to +130°C
<b>Temperature coefficient</b>	TCR = 3850 ppm/K
<b>Soldering connection</b>	End-termination galvanic tin plated with Ni-barrier layer
<b>Long term stability</b>	max. R <sub>0</sub> -drift 0.06% after 1000 h at 130°C
<b>Environmental conditions</b>	unhoused for dry environments only
<b>Insulation resistance</b>	> 100 MΩ at 20°C; > 2 MΩ at 130°C (glass covering)
<b>Measuring current</b>	100Ω: 0.3 to 1.0mA 1000Ω: 0.1 to 0.3mA (self heating has to be considered)
<b>Self heating</b>	0.4 K/mW at 0°C
<b>Response time</b>	water current (v= 0.4m/s): t <sub>0.5</sub> = 0.15s t <sub>0.9</sub> = 0.30s air stream (v= 2m/s): t <sub>0.5</sub> = 3.5s t <sub>0.9</sub> = 10s
<b>Processing instructions</b>	face up-mounting: reflow soldering or wave soldering, e. g. double wave ≤ 8s / 235°C
<b>Storage life</b>	Min. 9 months (in dry environment)
<b>Packaging</b>	„Face-up“ in blister reel, 4000 pcs / reel
<b>Note</b>	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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Name of document: 30910039 Index A  
Status: 10/2009