



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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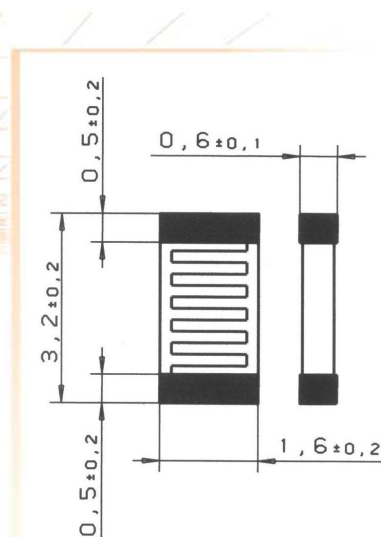
Platinum Resistance Temperature Detector

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
100 Ohm at 0°C	Class B	F 0.3	32 207 590
	Class 2B	F 0.6	32 207 589
1000 Ohm at 0°C	Class B	F 0.3	32 207 595
	Class 2B	F 0.6	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) Tolerance Class B or 2B: -50°C up to +130°C
Temperature coefficient	TCR = 3850 ppm/K
Soldering connection	End-termination galvanic tin plated with Ni-barrier layer
Long term stability	max. R ₀ -drift 0.06% after 1000 h at 130°C
Environmental conditions	unhoused for dry environments only
Insulation resistance	> 100 MΩ at 20°C; > 2 MΩ at 130°C (glass covering)
Measuring current	100Ω: 0.3 to 1.0mA 1000Ω: 0.1 to 0.3mA (self heating has to be considered)
Self heating	0.4 K/mW at 0°C
Response time	water current (v= 0.4m/s): t _{0,5} = 0.15s t _{0,9} = 0.30s air stream (v= 2m/s): t _{0,5} = 3.5s t _{0,9} = 10s
Processing instructions	face up-mounting: reflow soldering or wave soldering, e. g. double wave ≤ 8s / 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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Solderability test of SMD type sensor elements

Assembly conditions

Layout of PCB: Benchmarker II 150µm (material FR4 35µm Cu, size 190.5 x 127 x 1.5mm)
 Tested PCB surfaces: chem. Ag, Cu OSP, NiAu, chem. Sn
 Solder Paste: F640 SA30C5-89 M30 (material SnAgCu 96.5/3.0/0.5)

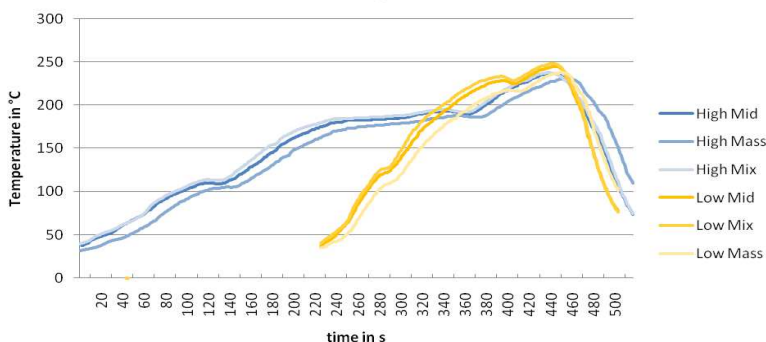
Tested elements

Pt 1000 SMD- V 0603
 Pt 1000 SMD- V 0805
 Pt 1000 SMD- V 1206

Solder conditions

Profiles: High and Low
 Atmosphere: Nitrogen and Air

Profiles High and Low



	Peak (max. temperature)		time above 217 °C in s	
	High	Low	High	Low
Mid ¹	237 °C	245 °C	60	92
Mass ²	231 °C	238 °C	49	68
Mix ³	238 °C	248 °C	65	103

- ¹ Mid: Position of temperature sensor in the middle of the PCB
- ² Mass: Position of temperature sensor at a big mass area on the PCB
- ³ Mix: Position of temperature sensors on right and left side on the PCB

Profile High: complete processing time 520 s
 Profile Low : complete processing time 280 s

Result

All tested samples showed a sufficient wetting under the described profiles High and Low, based on a visual soldering point inspection.

All given data should not be construed as guaranteeing specific properties of the product or its suitability for a specific particular application. The data are an extract from a test report with status from July 2010.

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