

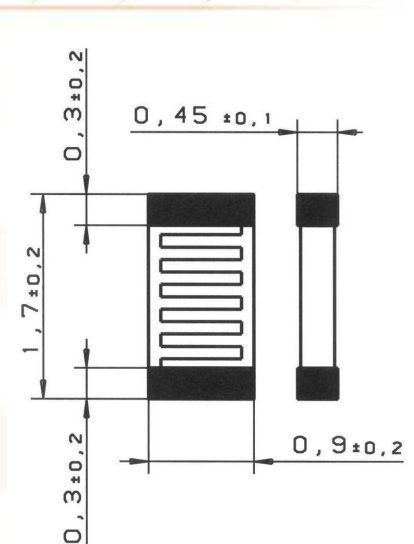
## Platinum Resistance Temperature Detector

## SMD 0603 (V)

The PRTD SMD 0603 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.
1000 Ohm at 0°C	DIN EN 60751, class B	32 207 638
	DIN EN 60751, class 2B	32 207 637

<b>Specification</b>	DIN EN 60751	
<b>Tolerance</b>	Class B ( $R_0: \pm 0.12\%$ ) Class 2B ( $R_0: \pm 0.24\%$ )	
<b>Temperature range</b>	- 50°C to + 130°C	
<b>Temperature coefficient</b>	TCR = 3850 ppm/K	
<b>Soldering connection</b>	end-termination: galvanic tinned with Ni- barrier	
<b>Long term stability</b>	max $R_0$ -Drift 0,06% after 250h with 130°C	
<b>Environmental conditions</b>	unhoused for dry environments only	
<b>Insulation resistance</b>	> 100 M $\Omega$ at 20°C; > 2 M $\Omega$ at 130°C (glass cover)	
<b>Measuring current</b>	1000 $\Omega$ : 0,1 up to 0.3 mA (self heating has to be considered)	
<b>Self heating</b>	0,8 K/mW at 0 °C	
<b>Reaction time</b>	Flowing water ( $v = 0.4$ m/s):	$t_{0.5} < 0.1$ s, $t_{0.9} < 0.25$ s
	Air flow ( $v = 2$ m/s):	$t_{0.5} < 2.5$ s, $t_{0.9} < 8$ s
<b>Processing instructions</b>	face up-mounting: reflow soldering or wave soldering, e. g. double wave $\leq 8$ s / 235 °C	
<b>Storage life</b>	Min. 9 months (in dry environment)	
<b>Packaging</b>	„Face-up“ in blister reel, 4000 pcs	
<b>Note</b>	Other tolerances, 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.

## Heraeus Sensor Technology USA

1901 Route 130  
North Brunswick, NJ 08902  
Phone 732-940-4400 Fax 732-940-4445  
Email info.hst-us@heraeus.com  
www.hst-us.com

Name of document: 30910036  
Status: 06/2008, HSTUSA 10/09