

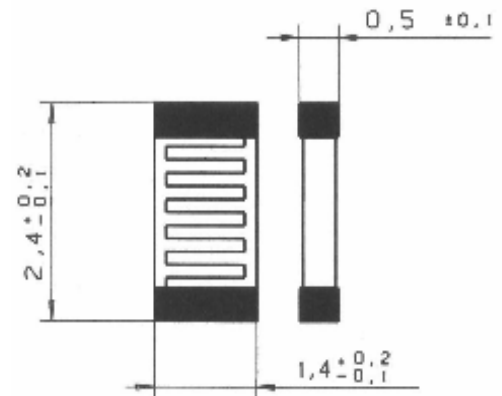
Platinum Resistance Temperature Detector

SMD 0805 (V) 10kOhm

The PRTD SMD 0805 is designed for automatic mounting in large volume applications on printed circuit boards where long term stability and interchangeability combined with low costs are important.

Nominal Resistance R_0	Tolerance	Order No.
10000 Ohm at 0°C	DIN EN 60751, class 2B	32 208 655

Specification	DIN EN 60751	
Tolerance	Class 2B ($R_0: \pm 0.24\%$);	
Temperature range	- 50°C 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 M Ω at 20°C	
Measuring current	10000 Ω : 0.1 to 0.25 mA (self heating has to be considered)	
Self heating	0.8 K/mW at 0°C	
Reaction time	Flowing water ($v = 0.4$ m/s):	$t_{0.5} = 0.10$ s $t_{0.9} = 0.25$ s
	Air flow ($v = 2$ m/s):	$t_{0.5} = 2.5$ s $t_{0.9} = 8$ 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.	
Status	Objective	



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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Status: 07/2008, HSTUSA 10/09