

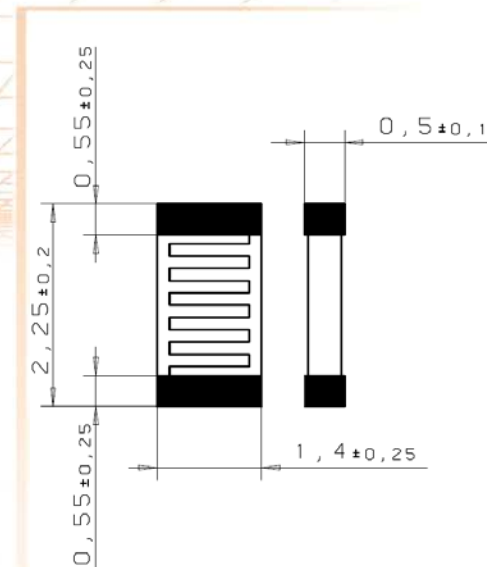
Platinum Resistance Temperature Detector

SMD 0805 (V) 10kOhm

The PRTD SMD 0805 is designed for automatic mounting in large volume applications on printed circuit boards where long 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
10000 Ohm at 0°C	Class 2B	F 0,6	32 208 655

Specification	DIN EN 60751	
Tolerance	Class 2B (R ₀ : ±0.24%)	
Temperature range	-50°C to +130°C Tolerance Class 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 1000h at 130°C	
Environmental conditions	unhoused for dry environments only	
Insulation resistance	> 100 MΩ at 20°C	
Measuring current	10000Ω: 0.1 to 0.25mA (self heating has to be considered)	
Self heating	0.8 K/mW at 0°C	
Reaction time	Flowing water (v= 0.4m/s):	t _{0.5} = 0.10s t _{0.9} = 0.25s
	Air flow (v= 2m/s):	t _{0.5} = 2.5s t _{0.9} = 8s
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.	
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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