

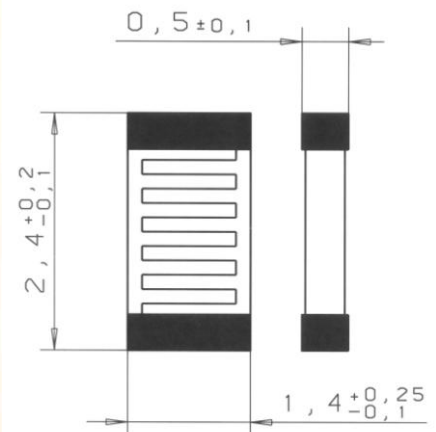
## Platinum Resistance Temperature Detector

## 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 Plastic Bag |
|-----------------------|--------------------------------|--------------------------------|--------------------------|
| 10000 Ohm at 0°C      | Class 2B                       | F 0,6                          | 32 208 655               |

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



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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