

**PTC Thinfilm Temperature Sensors**  
**Type: TRS**  
**Sizes: 0805, 1206**



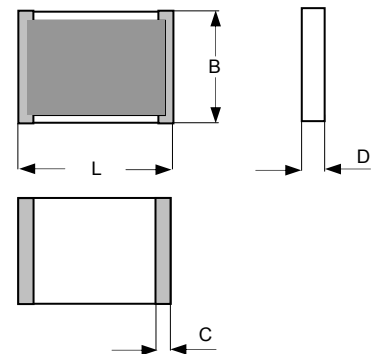
**Features:**

- PTC-Chip Resistors in Thinfilm
- Contact areas tinned – resistant to leaching
- Resistance element resin-passivated
- Tolerances down to 0.5 % – TC available from +3300 to +3850
- Linearity of TCR better than  $\pm 5$  %

**Dimensions:**

Baugröße	L	B	D	C
0805	2.0 $\pm 0.1$	1.25 $\pm 0.1$	0.55 $\pm 0.1$	0.4 $\pm 0.2$
1206	3.2 $\pm 0.2$	1.6 $\pm 0.15$	0.55 $\pm 0.1$	0.5 $\pm 0.2$

L = Length, B = Width, D = Thickness, C = Width of wrap around (in mm)



**Packaging:**

Bulk in plastic bags or tubes – minimum quantity 100 pcs/value  
 Blistertape acc. to IEC 60286-3 – minimum 1000 pcs/value  
 Reel diameter 180 mm or 330 mm

**Ordering Data:**

Type – value – tolerance – TCR – TCR tolerance – packaging  
 Example: TRS1206 1 K  $\pm 1$  % TCR + 3850  $\pm 200$  tape 180 mm

If no requirements for TCR and taping are given, the standard value (highest TCR value and TCR tolerance in table) will be supplied and packaging is bulk

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**Technical data – depending on size:**

Size	0805	1206
Power rating P <sub>70</sub> (mW) (P <sub>125</sub> = 0 mW)	65	125
Working voltage U <sub>-</sub> , U <sub>eff</sub> (V)	100	200

Ranges / Tolerances / TCR / TCR-tolerances			
100R – <10K	Value-tolerances at 25 °C TC (ppm/K): TC-tolerances (ppm/K):	±0.5/1/5% +3300, +3500, +3850 ±200, ±500	±0.5/1/5% +3300, +3500, +3850 ±200, ±500
10K – 100K	Value-tolerances at 25 °C TC (ppm/K): TC-tolerances (ppm/K):	–	±0.5/1/5% +3300, +3500, +3850 ±200, ±500

Lower values of tolerance, TCR and VCR on request and agreement

**Technical data – general:**

Temperature range	- 55°C ... + 125°C
Climatic category acc. to IEC 60068	55/125/56
Solderability acc IEC 60068 T2-20, Ta Meth.1	235°C 2s
Max. soldering temperature acc. IEC 60068, T2-20 Tb Meth. 1A	260°C 10

Long term stability	100R – 100K
Storage 125°C/1000h	<0.25%
Storage 155°C/1000h	<0.5%
Load P <sub>70</sub> /70°C/1000h	<0.5%
Damp heat (56d/40°C/96%)	<0.75%

Data not specified according CECC 40401-801

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