

PTC Thin Film Temperature Sensors

Type: TRS

Sizes: 0805, 1206

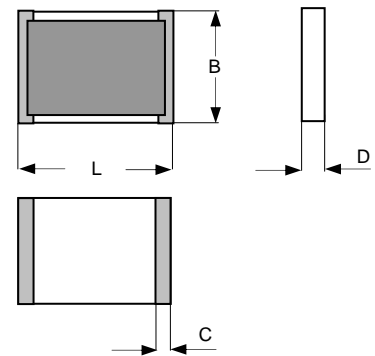
Features:

- PTC-Chip Resistors in Thin Film
- 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 ± 5 %

Dimensions:

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

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



Packaging:

Bulk in plastic bags – minimum quantity 100 pcs./value
Blistertape acc. to EN 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 ± 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

Issue 03-2009

PTC-Thinfilm Temperature Sensors

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Technical data – depending on size:

Size	0805	1206
Power rating P_{70} (mW) ($P_{125} = 0$ mW)	65	125
Working voltage U_{-} , U_{eff} (V)	100	200

Range			
100R – <10K	Value-tolerances at 25 °C TCR (ppm/K): TCR-tolerances (ppm/K):	± 0.5 ; ± 1 ; $\pm 5\%$ +3300; +3500; +3850 ± 200 ; ± 500	± 0.5 ; ± 1 ; $\pm 5\%$ +3300; +3500; +3850 ± 200 ; ± 500
10K – 50K	Value-tolerances at 25 °C TCR (ppm/K): TCR-tolerances (ppm/K):	–	± 0.5 ; ± 1 ; $\pm 5\%$ +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 EN 60068-1	55/125/56
Solderability acc. to EN 60068-2-58 (lead-free and lead-containing)	250°C 3s
Max. soldering temperature acc. to EN 60068-2-58	260°C 10

Long term stability	100R – 50K
Storage 125°C/1000h	< 0.25%
Storage 155°C/1000h	< 0.5%
Load P_{70} /70°C/1000h	< 0.5%
Damp heat (56d/40°C/96%)	< 0.75%

Data not specified according to EN 140401-802 (CECC 40401-802)