

PTC Thinfilm Temperature Sensors

Type: TRS

Sizes: 0805, 1206



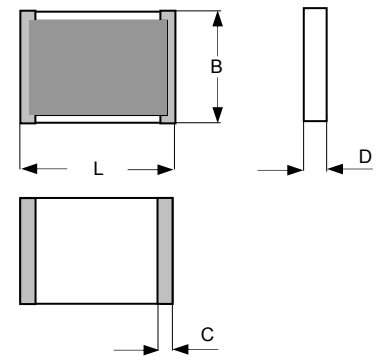
Features:

- 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 ± 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 or tubes – minimum quantity 100 pcs/value
Blister tape 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 ± 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

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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

Ranges / Tolerances / TCR / TCR-tolerances			
100R – <10K	Value-tolerances at 25 °C TC (ppm/K): TC-tolerances (ppm/K):	$\pm 0.5/1/5\%$ +3300, +3500, +3850 ± 200 , ± 500	$\pm 0.5/1/5\%$ +3300, +3500, +3850 ± 200 , ± 500
10K – 100K	Value-tolerances at 25 °C TC (ppm/K): TC-tolerances (ppm/K):	–	$\pm 0.5/1/5\%$ +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 $P_{70}/70^{\circ}\text{C}/1000\text{h}$	<0.5%
Damp heat (56d/40°C/96%)	<0.75%

Data not specified according CECC 40401-801

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