

## PTC Thin Film Temperature Sensors

Type: TRS

Sizes: 0805, 1206

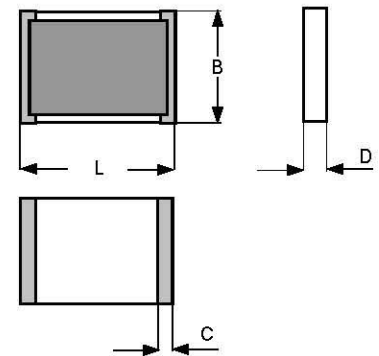
### Features:

- 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  $\pm 5$  %

### 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 – 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  $\pm 200$  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

## PTC-Thinfilm Temperature Sensors

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Sizes: 0805, 1206

### Technical data – depending on size:

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

Range			
100R – <10K	Value-tolerances at 25 °C	$\pm 0.5$ ; $\pm 1$ ; $\pm 5\%$	$\pm 0.5$ ; $\pm 1$ ; $\pm 5\%$
	TCR (ppm/K):	+3300; +3500; +3850	+3300; +3500; +3850
	TCR-tolerances (ppm/K):	$\pm 200$ ; $\pm 500$	$\pm 200$ ; $\pm 500$
10K – 50K	Value-tolerances at 25 °C	–	$\pm 0.5$ ; $\pm 1$ ; $\pm 5\%$
	TCR (ppm/K):	–	+3300; +3500; +3850
	TCR-tolerances (ppm/K):	–	$\pm 200$ ; $\pm 500$

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)