

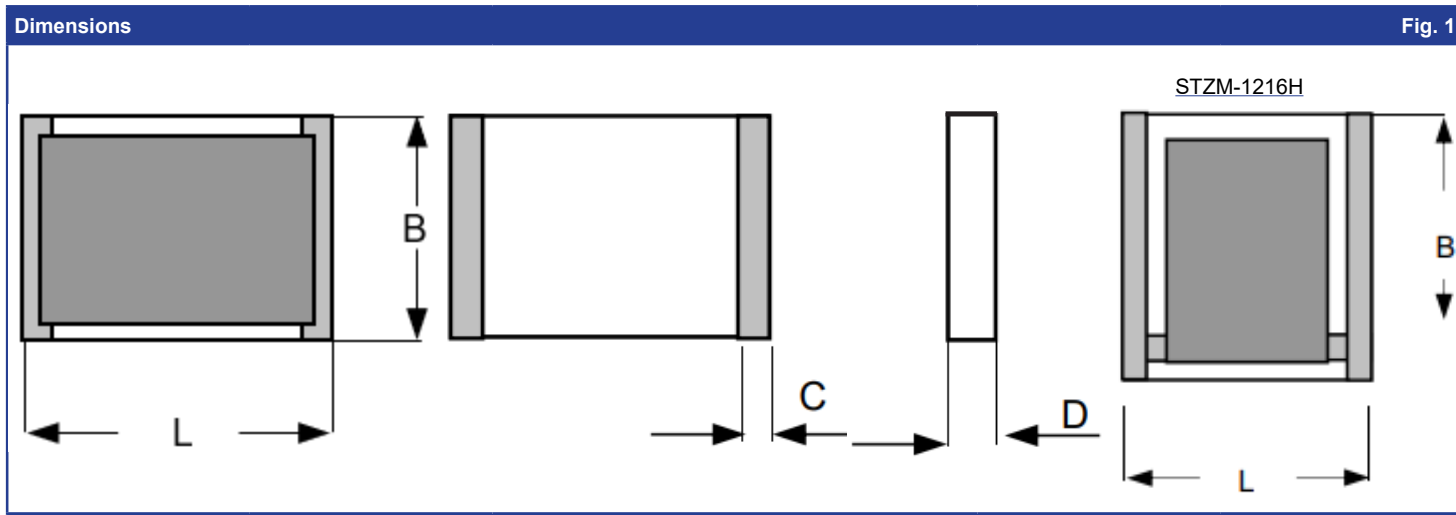
- Trimable High Temperature SMD Chip Resistors
- Suitable for laser and air abrasive trimming
- Available without pre-trim (no trim cut)
- High trimming ratios by special geometries
- Surface mount thick film technology
- 1Ω to 10M Resistance range
- Suitable for high vacuum applications - no organics
- PtAg Terminals for conductive gluing and soldering
- Working voltage up to 600V
- High temperature applications up to 300°C
- Non magnetic



Technical Data								Table 1
Size		0603	0805	1206	1210	1216	1216H	
Power rating P_{70} (W) ($P_{155} = 0W$)		0.1W	0.125W	0.25W	0.35W	0.4W	0.4W	
Working voltage U_{-1} , U_{eff} (V) ²		75V	100V	200V	200V	200V	200V	
Trimmed (by user), untrimmed (as delivered)		220V	300V	600V	600V	600V	600V	
Trimming ratios (single cut) ¹		1.5	1.5	2	3	4	8	
Resistance / Tolerance ⁴ % / Temperature Coefficient (TCR) ppm/°C ³								(Lower resistance tolerances, TCR & VCR on request & by agreement)
1R - <10R	± % ppm/°C	10, 20, 30 250	10, 20, 30 250	10, 20, 30 250	10, 20, 30 250	10, 20, 30 250	10, 20, 30 250	
10R - <10M	± % ppm/°C	5, 10, 20, 30 50, 100	5, 10, 20, 30 50, 100	5, 10, 20, 30 50, 100	5, 10, 20, 30 50, 100	5, 10, 20, 30 50, 100	5, 10, 20, 30 50, 100	
1) Detailed information upon request								
2) Continuous operating voltage (U_{-} , U_{eff}): $V \leq \sqrt{(P \cdot R)}$ or max. working voltage (the lower value)								
3) Temperature coefficient TCR: in ppm/K +25°C to +125°C; TCR lower than standard TCR (highest value) +25°C to +85°C; TCR50 not in the resistance range R<100R.								
4) Non symmetric tolerances also available (e.g. -0/+20%)								

Technical Data - General		
Operating temperature range	-55°C to +300°C	
Climatic category acc. to EN 60068-1	55, 300, 56	
Solderability acc. to EN 60068-2-58 (lead-free and lead-containing) ⁴	250°C, 3s	
Max. soldering temperature acc. to EN 60068-2-58	260°C, 10s	
The temperature coefficient is valid for the temperature range +25°C to +125°C (85°C for special TCR)		
The final measuring of the resistors takes place at room temperature!		
Please pay attention to the interconnection technology at high temperature applications.		
Long term stability	10R - 10M	< 10R
Storage 125°C/1000h	< 0.5%	< 1%
Storage 155°C/1000h	< 1%	< 2%
Load Life 70°C/1000h	< 1%	< 2%
Damp heat (56d/40°C/96%)	< 0.5%	< 1%
⁴) Up to 6 months after shipment (air, 30°C, 60%rH) or up to 12 months at storage in nitrogen or in evacuated dry packs. Other data according to EN 140401-802 (CECC 40401-802).		

Dimensions (mm)				Table 2
Size	L (Length)	B (Width)	D (Thickness)	C (Wrap around width)
0603	1.50 +0.15/-0.05	0.80 +0.15/-0.05	0.40 +0.15/-0.05	0.2 +0.2/-0.1
0805	2.00 +0.15/-0.05	1.25 +0.15/-0.05	0.40 +0.15/-0.05	0.3 +0.2/-0.1
1206	3.20 +0.15/-0.05	1.50 +0.2/-0.05	0.40 +0.15/-0.05	0.3 +0.2/-0.1
1210	3.20 +0.15/-0.05	2.50 +0.2/-0.05	0.50 +0.15/-0.05	0.8 +0.2
1216	3.20 +0.02/-0.05	4.10 +0.2/-0.05	0.50 +0.2/-0.1	0.4 ±0.2
1216H	3.20 +0.02/-0.05	4.10 +0.2/-0.05	0.50 +0.2/-0.1	0.4 ±0.2



Packaging	
Bulk in plastic bags	Contact Durakool for minimum order quantities
Embossed carrier tape acc. to IEC 60286-3	Contact Durakool for minimum order quantities
Reel diameter	180 or 330mm

Example Ordering Code				
S Z T M 0 8 0 5 5 M 0 0 J 5 0				
Series	Case Size	Resistance Ω	Tolerance $\pm$ % (See table 1)	Temperature Coefficient TCR
SZTM	0603, 0805, 1206 1210, 1216, 1216H	1 - 10M	J $\pm$ 5 M $\pm$ 20 K $\pm$ 10 N $\pm$ 30	50 to 250ppm (See table 1)

NB: Standard TCR will be the highest value in the table unless otherwise requested.