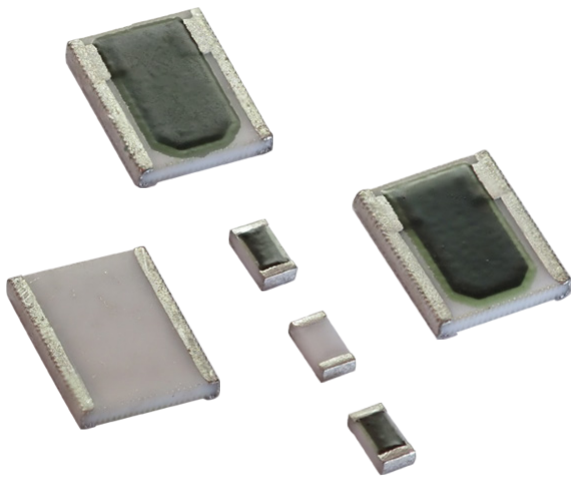




- Trimmable SMD Chip Resistors
- Surface mount thick film technology
- Suitable for laser and air abrasive trimming
- Available without pre-trim (no trim cut)
- Nickel-barrier / matte tin terminations
- Resistance element glass-passivated
- High trimming ratios by special geometries
- 1Ω to 10M resistance range
- Suitable for high vacuum applications - no organics
- Working voltage up to 600V



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 / Tolerance⁴ % / Temperature Coefficient (TCR) ppm/°C³ (Lower resistance tolerances, TCR & VCR on request & by agreement)

	± %	10, 20, 30	10, 20, 30	10, 20, 30	10, 20, 30	10, 20, 30	10, 20, 30
1R - <10R	ppm/°C	250	250	250	250	250	250
	± %	5, 10, 20, 30	5, 10, 20, 30	5, 10, 20, 30	5, 10, 20, 30	5, 10, 20, 30	5, 10, 20, 30
10R - <10M	ppm/°C	50, 100	50, 100	50, 100	50, 100	50, 100	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

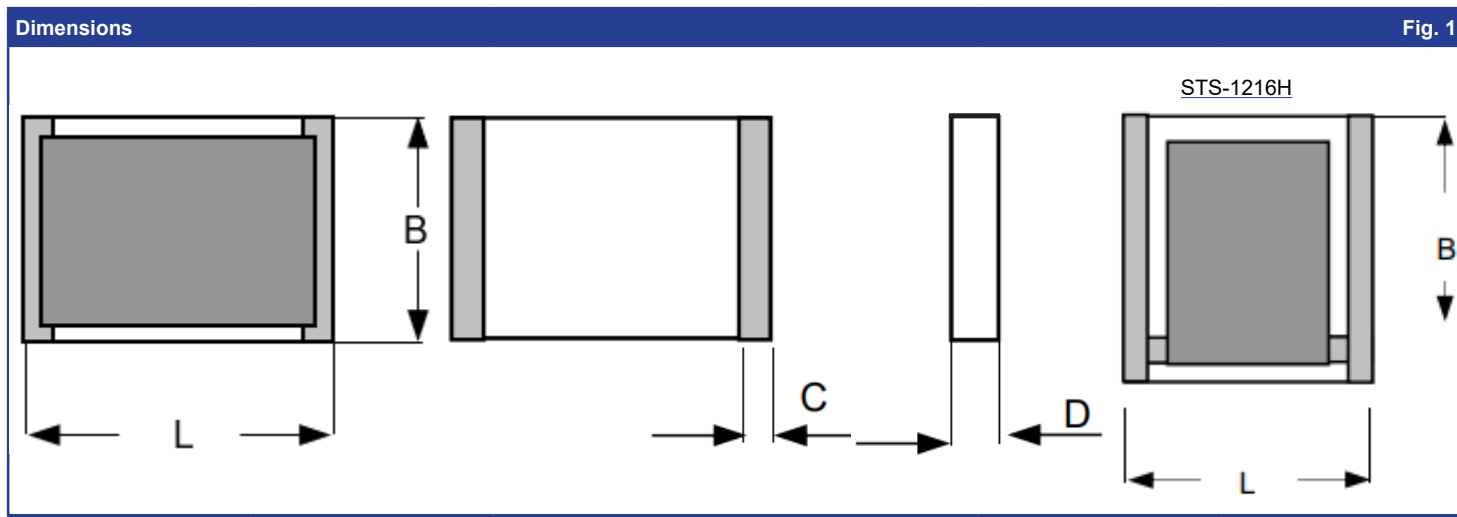
Operating temperature range	-55°C to +155°C
Climatic category acc. to EN 60068-1	55, 155, 56
Solderability acc. to EN 60068-2-58 (lead-free and lead-containing) ⁴	250°C, 3s
Max. soldering temperature acc. to EN 60068-2-58	260°C, 10s

Extended temperature range up to 300°C possible - Series SZTM

	10R - 10M	< 10R
Long term stability		
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%

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				
STS 1206 10M0 J50				
Series	Case Size	Resistance Ω	Tolerance ± % (See table 1)	Temperature Coefficient TCR
STS	0603, 0805, 1206 1210, 1216, 1216H	1 - 10M	J ± 5 M ± 20 K ± 10 N ± 30	50 to 250 ppm (See table 1)

NB: Standard TCR will be the highest value in the table unless otherwise requested - specific requirements must be requested.