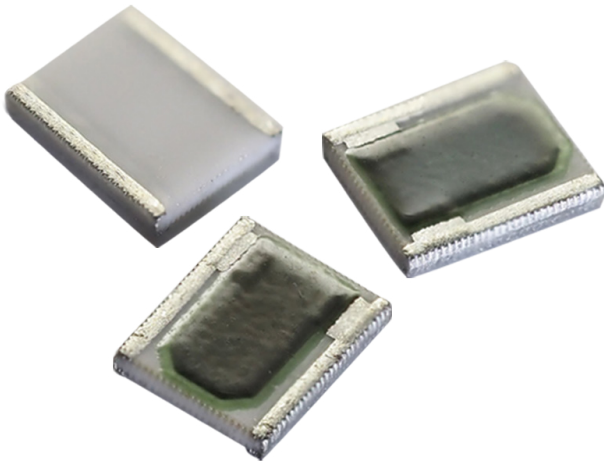




- Trimable SMD Chip Resistors
- Suitable for laser and air abrasive trimming
- Available without pre-trim (no trim cut)
- High trimming ratios by special geometries
- Surface mount thick film technology
- 1Ω to 10M Resistance range
- Suitable for high vacuum applications - no organics
- PtAg Terminals for conductive gluing and soldering
- Working voltage up to 600V
- 300°C High temperature available in 'SZTM Series'
- 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 Trimmed (by user), untrimmed (as delivered)	75V 220V	100V 300V	200V 600V	200V 600V	200V 600V	200V 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)

Resistance Range	± % 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
1R - <10R							
10R - <10M		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

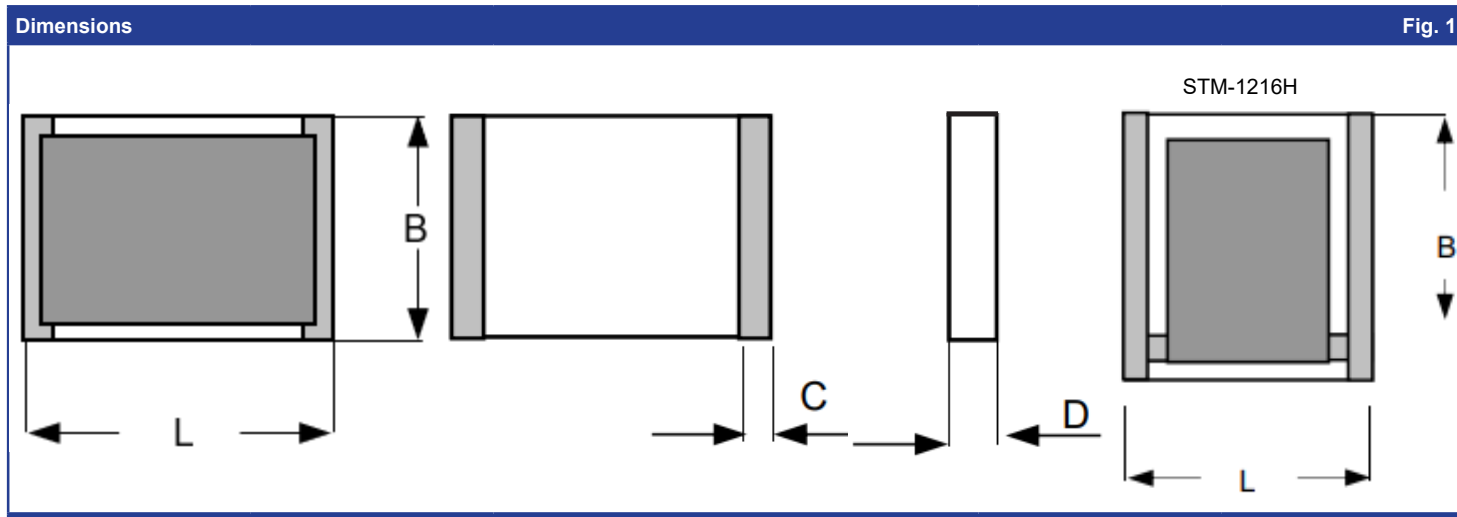
Operating temperature range	-55°C to +155°C
Climatic category acc. to EN 60068-1	55, 155, 56
Solderability acc. to EN 60068-2-58 (lead-free and lead-containing) ⁴	250°C, 3s
Max. soldering temperature acc. to EN 60068-2-58	260°C, 10s

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

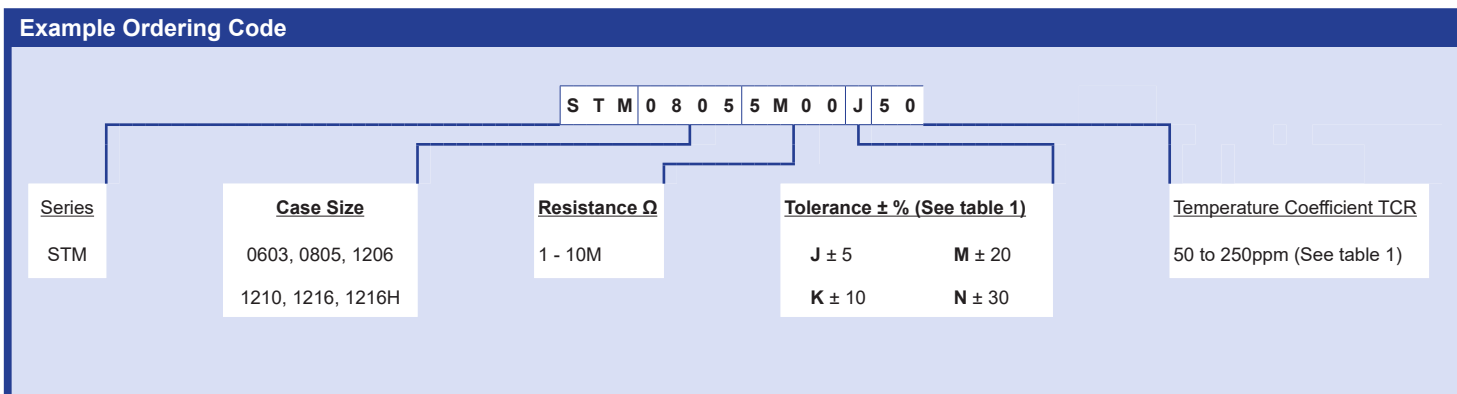
Long term stability	10R - 10M	< 10R
Storage 125°C/1000h	< 0.5%	< 1%
Storage 155°C/1000h	< 1%	< 2%
Load Life 70°C/1000h	< 1%	< 2%
Damp heat (56d/40°C/96%)	< 0.5%	< 1%

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



NB: Standard TCR will be the highest value in the table unless otherwise requested. Measuring voltage will be 10V. Other voltages are available - specific requirements must be requested.