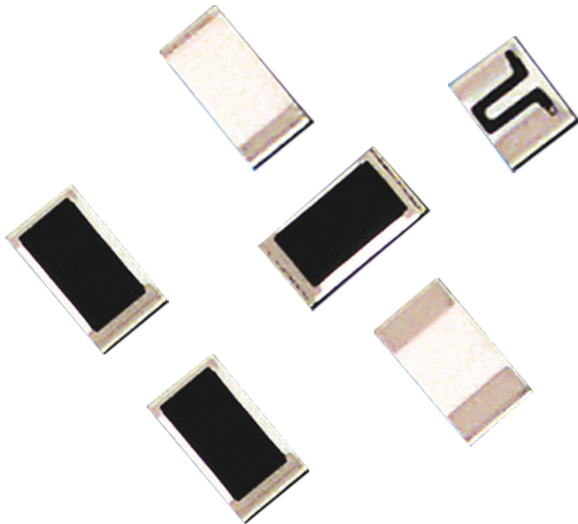




- Surface mount thick film technology
- 0.1Ω to 500MΩ Resistance range
- Suitable for high vacuum applications - no organics
- Nickel barrier, matte tin terminations
- Working voltage up to 400V
- Resistance element glass passivated
- RF Versions untrimmed
- Size 0402, 0603, 0805 and 1206



Technical Data

Table 1

Size	0402	0603	0805	1206
Power rating P_{70} (W) ($P_{155} = 0W$)	0.05W	0.1W	0.125W	0.25W
Working voltage U_{-1} , U_{eff} (V) ¹ Trimmed (by user), untrimmed (as delivered)	30V 60V	75V 150V	100V 200V	200V 400V
Resistance / Tolerance % / Temperature Coefficient (TCR) ppm/°C ² (Lower resistance tolerances, TCR & VCR on request & by agreement)				
0R1 - <1R ± % ppm/°C	-	10, 20 250	5, 10, 20 250	5, 10, 20 250
1R - <10R ± % ppm/°C	10, 20 250	5, 10, 20 100, 250	2, 5, 10, 20 100, 250	2, 5, 10, 20 100, 250
10R - <100R ± % ppm/°C	5, 10, 20 100	1, 2, 5, 10, 20 100	1, 2, 5, 10, 20 50, 100	1, 2, 5, 10, 20 50, 100
100R - <1M ± % ppm/°C	1, 2, 5, 10, 20 50, 100	1, 2, 5, 10, 20 50, 100	0.5, 1, 2, 5, 10, 20 50, 100	0.5, 1, 2, 5, 10, 20 50, 100
>1M - 10M ± % ppm/°C	2, 5, 10, 20 100, 250	1, 2, 5, 10, 20 50, 100	0.5, 1, 2, 5, 10, 20 50, 100	0.5, 1, 2, 5, 10, 20 50, 100
>10M - 100M ± % ppm/°C	5, 10, 20 100, 250	1, 2, 5, 10, 20 50, 100	0.5, 1, 2, 5, 10, 20 50, 100	0.5, 1, 2, 5, 10, 20 50, 100
>100M - 500M ± % ppm/°C	-	5, 10, 20 100, 250	2, 5, 10, 20 100, 250	2, 5, 10, 20 100, 250

¹) Continuous operating voltage (U_{-1} , U_{eff}): $V \leq \sqrt{(P \cdot R)}$ or max. working voltage (the lower value)

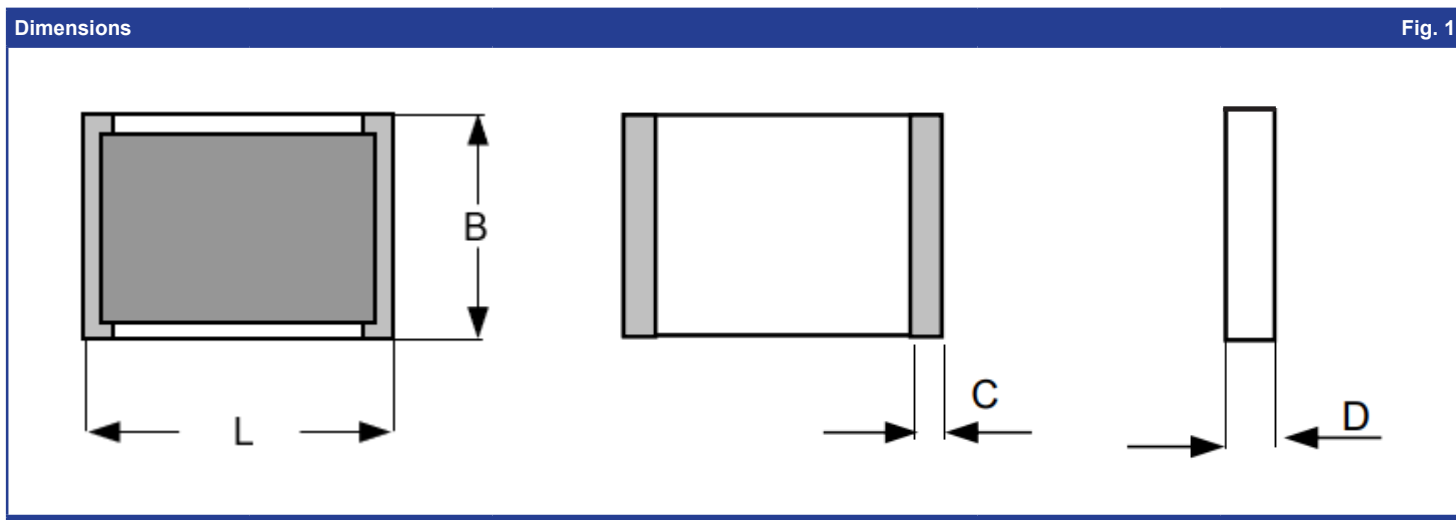
²) Temperature coefficient TCR: in ppm/K +25°C to +125°C; TCR lower than standard TCR (highest value) +25°C to +85°C;
Zero Ω Jumper: <50M Ω

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		
Long term stability	<10R	10R - 100M	>100M
Storage 125°C/1000h	< 1%	< 0.5%	< 1%
Storage 155°C/1000h	< 2%	< 1%	< 2%
Load Life 70°C/1000h	< 1%	< 0.5%	< 1%
Short term overload	< 0.5%	< 0.25%	< 0.5%
Damp heat (56d/40°C/96%)	< 1%	< 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)
0402	0.95 +0.10/-0.05	0.48 +0.10/-0.05	0.28 +0.10/-0.05	0.1 +0.1/-0.05
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
Larger sizes on request				



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					
SSS 0402 T 100 R F 5 0					
Series	Case Size	Trimming	Resistance Ω	Tolerance $\pm$ % (See table 1)	Temperature Coefficient TCR
SSS	0402, 0603, 0805, 1206	T = Trimmed U = Untrimmed	0.1 - 500M	B $\pm$ 0.1 F $\pm$ 1 K $\pm$ 10 C $\pm$ 0.25 G $\pm$ 2 M $\pm$ 20 D $\pm$ 0.5 J $\pm$ 5 N $\pm$ 30	50 to 250 ppm (See table 1)

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.