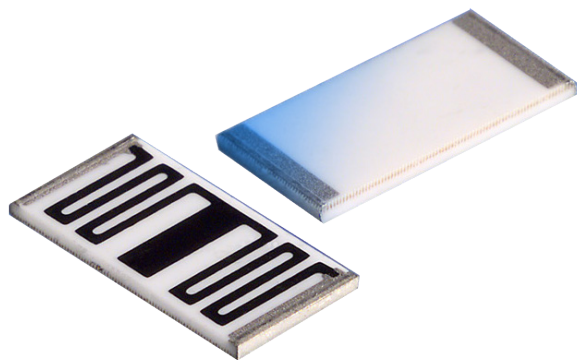




- Surface mount thick film technology
- Precision high ohmic SMD resistors
- 100KΩ to 10TΩ resistance range
- Suitable for high vacuum applications - no organics
- PtAg terminals for conductive gluing & soldering
- Working voltage up to 6kV
- 300°C High temperature available in 'SZXP Series'
- Low temperature & voltage dependency
- Non magnetic



Technical Data

Table 1

Size	0805	1206	1210	2010	2512	4020
Power rating P ₇₀ (W) (P ₁₅₅ = 0W)	0.125W	0.25W	0.35W	0.75W ¹	1W ¹	2W ¹
Working voltage U ₋₁ , U _{eff} (V) Standard (trimmed), untrimmed, Tol. ≥5%	200V 400V	600V 1kV	800V 1.2kV	1.5kV 2kV	2.5kV 3kV	4kV 6kV
Resistance / Tolerance % / Temperature Coefficient (TCR) ppm/°C ² / Voltage Coefficient (VCR) ppm/V ³ (Lower resistance tolerances, TCR & VCR on request & by agreement)						
100K - 100M ± % ppm/°C ppm/V	0.5, 1, 2, 5, 10 25, 50, 100 100	0.5, 1, 2, 5, 10 25, 50, 100 50	0.5, 1, 2, 5, 10 25, 50, 100 50	0.5, 1, 2, 5, 10 25, 50, 100 25	0.5, 1, 2, 5, 10 25, 50, 100 10	0.25, 0.5, 1, 2, 5, 10 25, 50, 100 5
>100M - 1G ± % ppm/°C ppm/V	2, 5, 10, 20 50, 100, 250 250	2, 5, 10, 20 50, 100, 250 100	1, 2, 5, 10, 20 25, 50, 100 50	1, 2, 5, 10, 20 25, 50, 100 50	1, 2, 5, 10, 20 25, 50, 100 25	0.5, 1, 2, 5, 10, 20 25, 50, 100 10
>1G - 10G ± % ppm/°C ppm/V	5, 10, 20 250, 500 500	5, 10, 20 100, 250 250	2, 5, 10, 20 25, 50, 100 100	2, 5, 10, 20 25, 50, 100 100	2, 5, 10, 20 25, 50, 100 50	1, 2, 5, 10, 20 25, 50, 100 10
>10G - 100G ± % ppm/°C ppm/V	10, 20, 30 1000, 2000 1000	10, 20, 30 500, 1000 500	5, 10, 20, 30 500, 1000 500	5, 10, 20, 30 250, 500 250	5, 10, 20, 30 100, 250, 500 100	2, 5, 10, 20, 30 50, 100, 250 50
>100G - 1T ± % ppm/°C ppm/V	20, 30 2000 3000	10, 20, 30 1000, 2000 1000	5, 10, 20, 30 1000, 2000 1000	5, 10, 20, 30 500, 1000 500	5, 10, 20, 30 250, 500 250	5, 10, 20, 30 250, 500 100
>1T - 3T ± % ppm/°C ppm/V	-	On request	On request	On request	10, 20, 30 2000 1000	10, 20, 30 1000 500
>3T - 10T ± % ppm/°C ppm/V	-	-	-	On request	10, 20, 30 3000 2000	10, 20, 30 2000 1000

¹) At continuous power dissipation the dimensions of solder-pads have to secure a sufficient heat removal

²) Temp. coefficient TCR: in ppm/°C; +25°C to +125°C; TCR lower than standard TCR (highest value) or R >100G: +25°C to +85°C

³) VCR: typical values, all negative, not for all temperature coefficient values available

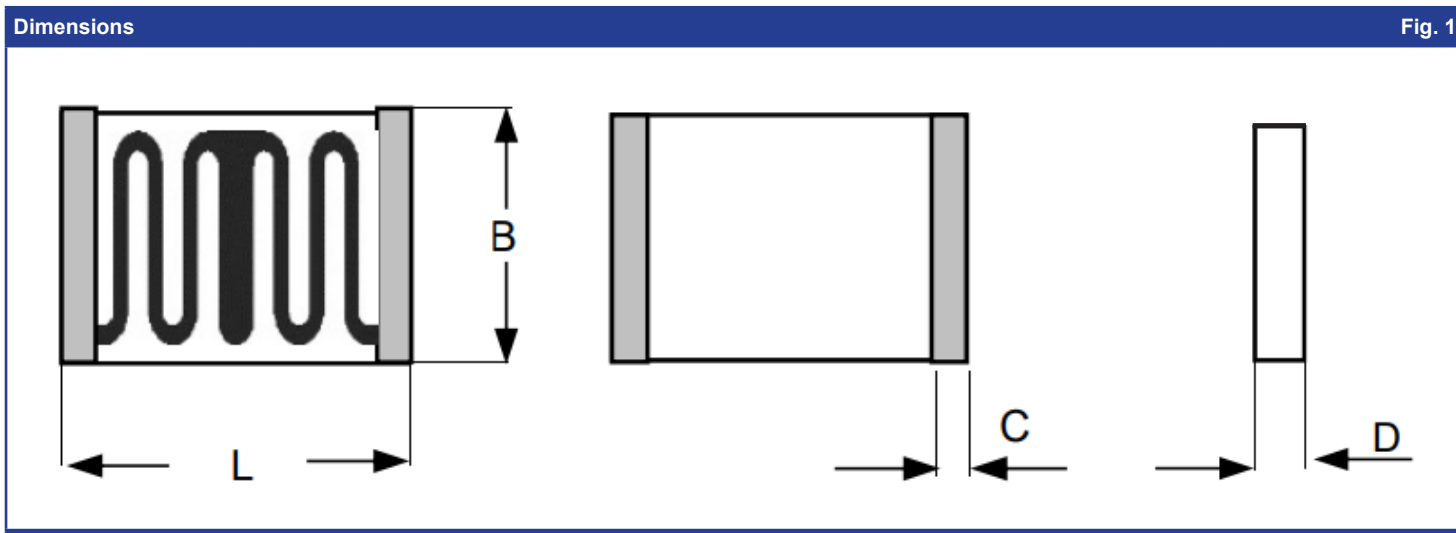
Technical Data - General

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: see datasheet “High temperature chip resistors” SZXP datasheet			
Long term stability	< 1G	< 10G	≥ 10G
Load Life 70°C/1000h	< 0.25%	< 0.5%	< 1%
Storage 125°C/1000h	< 0.5%	< 1%	< 2%
Max. voltage/1000h	< 0.5%	< 1%	< 2%

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)
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
2010	5.10 +0.15/-0.05	2.50 +0.2/-0.05	0.60 +0.20/-0.1	1.2 ±0.2
2512	6.30 +0.15/-0.05	3.50 +0.2/-0.05	0.60 +0.15/-0.05	0.9 ±0.2
4020	10.20 +0.20/-0.05	5.10 +0.2/-0.05	0.60 +0.20/-0.1	0.9 ±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 X P 2 5 1 2 U 1 0 G 0 K 1 0 0					
Series	Case Size	Trimming	Resistance Ω	Tolerance $\pm$ % (See table 1)	Temperature Coefficient TCR
SXP	0805, 1206, 1210, 2010, 2512, 4020	T = Trimmed U = Untrimmed	100K - 10T	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	25 to 3000ppm (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.