

Miniature/Standard Chip Resistors
Type: CRS
Sizes: 0504, 0603, 0805, 1206

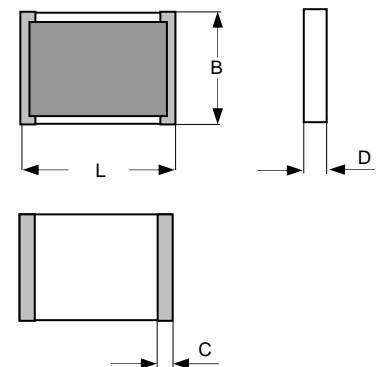


Features:

- Chip Resistors in Thickfilm
- Resistance element glass-passivated
- Contact areas Nickel-barrier/tinned
- RF-versions untrimmed
- Resistance values up to 500M
- Working voltage up to 600V

Dimensions:

Size	L	B	D	C
0504	1.25 ^{+0.15/-0.05}	1.0 ^{+0.15/-0.05}	0.3 ^{+0.15/-0.05}	0.2 ^{+0.2/-0.1}
0603	1.5 ^{+0.15/-0.05}	0.8 ^{+0.15/-0.05}	0.4 ^{+0.15/-0.05}	0.2 ^{+0.2/-0.1}
0805	2.0 ^{+0.15/-0.05}	1.25 ^{+0.15/-0.05}	0.4 ^{+0.15/-0.05}	0.3 ^{+0.2/-0.1}
1206	3.2 ^{+0.15/-0.05}	1.5 ^{+0.2/-0.05}	0.4 ^{+0.15/-0.05}	0.3 ^{+0.2/-0.1}



L = Length, B = Width, D = Thickness, C = Width of wrap around (in mm)

Packaging:

Bulk in plastic bags or tubes – minimum quantity 100 pieces per value
 Blister tape acc. to IEC 60286-3 – minimum 1000 pieces per value
 Reel diameter 180 mm or 330 mm

Ordering Data:

Type – value – tolerance – TCR – packaging
 Example: CRS 0805 100K ± 1% - TC 100 Tape 180 mm

If no requirements for TCR and taping are given the standard value (highest value in table) will be supplied and packaging is bulk.

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Technical data – depending on size:

Size	0504	0603	0805	1206
Power rating P ₇₀ (mW) (P ₁₅₅ = 0 mW)	100	100	125	250
Working voltage U ₋ , U _{eff} (V) trimmed untrimmed (Tol. ≥ 5%)	50 150	75 200	100 300	200 600

Ranges / Tolerances / TCR ¹⁾ / VCR				
0R1 – <1R	–	10/20% TC100/250	5/10/20% TC100/250	5/10/20% TC100/250
1R – <10R	5/10/20% TC100/250	5/10/20% TC100/250	2/10/20% TC100/250	2/10/20% TC100/250
10R – <100R	2/5/10% TC100	1/2/5/10% TC100	1/2/5/10% TC50/100	1/2/5/10% TC50/100
100R – 1M	1/2/5/10% TC50/100	1/2/5/10% TC50/100	0.5/.../10% TC50/100	0.5/.../10% TC50/100
>1M – 10M	1/2/5/10% TC50/100	1/2/5/10% TC50/100	0.5/.../10% TC50/100	0.5/.../10% TC50/100
>10M – 100M	2/5/10/20% TC100/250	1/.../20% TC50/100	0.5/.../20% TC50/100	0.5/.../20% TC50/100
>100M – 500M	–	5/.../20% TC100/250	2/.../20% TC100/250	2/.../20% TC100/250

¹⁾ TC 50: Temperature range + 25°C...+ 125°C
 Zero-Ohm-Jumper: < 50 mOhm. TCR max. + 4000
 Sizes 0805/1206 in range 1M – 100 M as special product also with TCR 25 available.

Technical data – general:

Temperature range	-55°C ... +155°C
Climatic category acc. to IEC 60068	55/155/56
Solderability acc IEC 60068 T2-20. Ta Meth.1	235°C 2s
Max. soldering temperature acc. IEC 60068 T2-20. Tb M. 1A	260°C 10s

Long term stability	10R – 100M	<10R / >100M
Storage 125°C/1000h	<0.5%	<1%
Storage 155°C/1000h	<1%	<2%
Load P ₇₀ /70°C/1000h	<0.5%	<1%
Short term overload	<0.25%	<0.5%
Damp heat (56d/40°C/96%)	<0.5%	<1%

Data not specified according CECC 40401-802

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