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

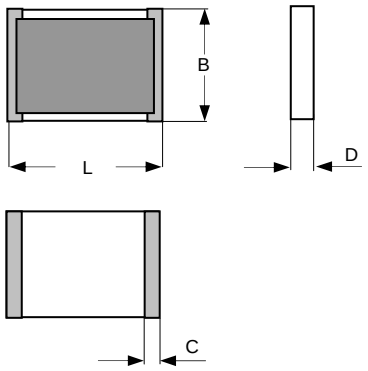
Features:

- 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
Blistertape 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.

Willow Technologies Ltd. Shawlands Court, Newchapel Road, Lingfield, Surrey, RH7 6BL, United Kingdom
Tel . + 44 (0) 1342 835234 Fax. + 44 (0) 1342 834306 E-Mail. sales@willow.co.uk Web. www.willow.co.uk

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

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 Issue 07/04

Willow Technologies Ltd. Shawlands Court, Newchapel Road, Lingfield, Surrey, RH7 6BL, United Kingdom
Tel . + 44 (0) 1342 835234 Fax. + 44 (0) 1342 834306 E-Mail. sales@willow.co.uk Web. www.willow.co.uk