

# SRT Resistor Technology

## Chip Resistors, non-magnetic

Type: CHR

Sizes: 0402, 0504, 0603, 0805, 1206, 2010, 2512

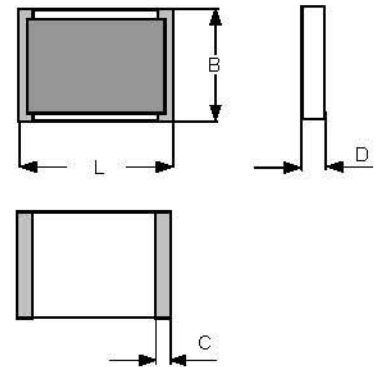
### Features:

- Chip Resistors in Thickfilm
- Contact areas PtAg – non-magnetic
- Suited for conductive glueing and soldering
- RF-versions untrimmed
- Suitable for high vacuum applications – no organics
- High temperature application possible (up to 300°C)
- Non-magnetic



### Dimensions:

Size	L	B	D	C
0402	1.04 $\pm 0.05$	0.5 $\pm 0.05$	0.3 $\pm 0.05$	0.1 $+0.1/-0.05$
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 $+0.2/-0.1$
2010	5.10 $+0.15/-0.05$	2.50 $+0.2/-0.05$	0.60 $+0.20/-0.1$	1.2 $\pm 0.2$
2512	6.30 $+0.15/-0.05$	3.50 $+0.2/-0.05$	0.60 $+0.15/-0.05$	0.9 $\pm 0.2$



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

### Packaging:

Bulk in plastic bags – 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: CHR 0805 221k  $\pm 0.5\%$  - TCR 100 - Tape 180 mm

Untrimmed parts are indicated by the extension "NA" in the order code:

Type – value – tolerance – NA – TCR – packaging

Example: CHR 0805 221k  $\pm 10\%$  NA TCR 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

# SRT Resistor Technology

## Chip Resistors, non-magnetic

Type: CHR

Sizes: 0402, 0504, 0603, 0805, 1206, 2010, 2512

### Technical data – depending on size:

Size	0402	0504	0603	0805	1206	2010	2512
Power rating $P_{70}$ (mW) ( $P_{155} = 0$ mW)	50	100	100	125	250	500	1000
Working voltage $U_{-}$ , $U_{eff}$ (V) trimmed untrimmed	30 100	50 150	75 220	100 300	200 600	250 900	300 1200

Ranges / Tolerances / TCR <sup>1)</sup>							
1R – <10R	10/20% <sup>2)</sup> TC100/250	5/10/20% TC100/250	5/10/20% TC100/250	5/10/20% TC100/250	5/10/20% TC100/250	5/10/20% TC100/250	5/10/20% TC100/250
10R – <100R	5/10% TC50/100	2/5/10% TC50/100	2/5/10% TC50/100	1/2/5/10% TC50/100	1/2/5/10% TC50/100	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	1/2/5/10% TC50/100	0,5/.../10% TC50/100	0,5/.../10% TC50/100	0,5/.../10% TC50/100	0,5/.../10% TC50/100
>1M – 10M	5/10/20% TC50/100	1/2/5/10% TC50/100	1/2/5/10% TC50/100	1/2/5/10% TC50/100	1/2/5/10% TC50/100	1/2/5/10% TC50/100	1/2/5/10% TC50/100

<sup>1)</sup> TC50: temperature range + 25°C...+125°C

<sup>2)</sup> TC100: for values from 5R1 only

Zero-Ohm-Jumper: < 50 mOhm

Lower values of tolerance, TCR and VCR or other sizes on request

### Technical data – general:

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

Extended temperature range up to 300°C possible- see datasheet: "High temperature chip resistors"

Long term stability	10R – 10 M	< 10R
Storage 125°C/1000h	< 0,5%	< 1%
Storage 155°C/1000h	< 1%	< 2%
Load $P_{70}$ /70°C/1000 h	< 0,5%	< 1%
Short term overload	< 0,25%	< 0,5%
Damp heat (56d/40°C/96%)	< 0,5%	< 1%

<sup>2)</sup> Up to 6 months after shipment; longer at storage in Nitrogen

Data not specified according EN 140401-802 (CECC 40401-802)