

Chip Resistors, non-magnetic
Type: CHR
Sizes: 0402, 0504, 0603, 0805, 1206

Features:

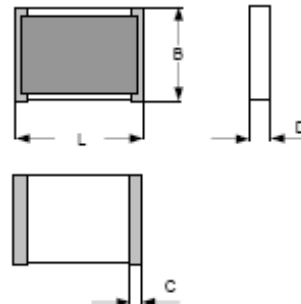
- Chip Resistors in Thickfilm
- Contact areas PtAg – non-magnetic
- Suited for conductive glueing and soldering
- RF-versions untrimmed
- Suitable for high vacuum applicatons – no organics
- High temperature application possible (up to 250°C)
- Non-magnetic



Dimensions:

Size	L	B	D	C
0402	1.04 ±0.05	0.5 ±0.05	0.3 ±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

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
 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: CHR0805 221K ohm/±1%/TCR=100ppm/Tape=180 mm

Untrimmed parts are indicated by adding “NA” to the ordering information.

Part Number:

CHR <size>-Resistance and TC (if applicable)-Tolerance and Pack

- ❖ Sample: CHR0805-221KD-FR is a CHR0805 221KΩ/±1%/100ppm/Reel
- ❖ Sample: CHR0805-221K-JR is a CHR0805 221KΩ/±5%/Reel



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Technical data – depending on size:

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

Ranges / Tolerances / TCR ¹⁾					
1R – <10R	10/20% ²⁾ 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
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
>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⁾ TC50: Temperature range + 25°C...+125°C

²⁾ TC100: for values from 5R1 only

Zero-Ohm-Jumper: < 50 m Ohm, TCR max. + 4000

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 DIN EN 60068-1	55/155/56
Solderability acc. DIN EN 60068-2-58 (lead-free and lead-containing) ²⁾	250°C 3s
Max. soldering temperature acc. DIN EN 60068-2-58	260°C 10s

Extended temperature range up to 250°C possible

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

²⁾ Up to 6 months after shipment resp. at storage in Nitrogen
Data not specified according CECC 40401-802



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