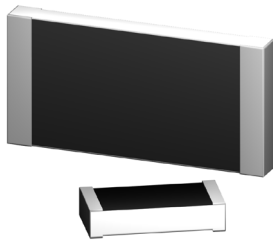


CHR Series

Non-magnetic Chip Resistors



- Resistances from 10hm to 10MOhms
- Power Rating 0.05 to 0.25Watt
- Resistance Tolerances to $\pm 0.5\%$
- TCR's to ± 50 ppm/K
- Non-Magnetic (contact PtAg)
- Suitable for Glueing or Soldering
- Sizes: 0402 / 0504 / 0603 / 0805 / 1206
- Special HT Version to 300°C



SPECIFICATIONS

Type (larger sizes upon request)	0402	0504	0603	0805	1206	2010	2512	
Power Rating (W) ¹	0.05	0.10	0.10	0.125	0.25	0.50	1.0	
Working Voltage (VAC)	Trimmed	30	50	75	100	200	250	300
	Untrimmed	100	150	220	300	600	900	1200
Resistance Range (Ω)	Tolerances Available (%) Temperature Coefficients Available (\pm ppm/K) (others upon request)							
1 Ω - <10 Ω	10% to 20% 100 / 250	5% to 20% 100 / 250	5% to 20% 100 / 250	5% to 20% 100 / 250	5% to 20% 100 / 250	5% to 20% 100 / 250	5% to 20% 100 / 250	
10 Ω - <100 Ω	5% to 10% 50 / 100	2% to 10% 50 / 100	2% to 10% 50 / 100	1% to 10% 50 / 100	1% to 10% 50 / 100	1% to 10% 50 / 100	1% to 10% 50 / 100	
100 Ω - 1M	1% to 10% 50 / 100	1% to 10% 50 / 100	1% to 10% 50 / 100	0.5% to 10% 50 / 100	0.5% to 10% 50 / 100	0.5% to 10% 50 / 100	0.5% to 10% 50 / 100	
>1M - 10M	5% to 20% 50 / 100	1% to 10% 50 / 100	1% to 10% 50 / 100	1% to 10% 50 / 100	1% to 10% 50 / 100	1% to 10% 50 / 100	1% to 10% 50 / 100	

¹W @ 70 °C / 0W @ 155 °C

Specification	Value
Temperature Range	-55°C to +155°C (Standard) -55°C to +125°C (50ppm/°C Parts) -55°C to +300°C (HT Version, TCR valid +25°C to +125°C)
Climactic Category	55 / 155 / 56
Solderability	250°C / 3s (up to 6 month after shipment resp. at storage in Nitrogen)
Max. Soldering Temperature	260°C / 10s

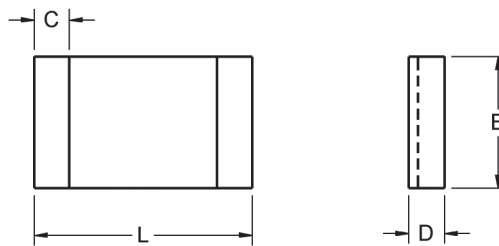
CHR Series

Non-magnetic Chip Resistors



SPECIFICATIONS (continued)

Long Term Stability	Max ΔR	
	<10 Ω	10 Ω - 10M
Storage 125°C / 1000h	$\pm 1\%$	$\pm 0.5\%$
Storage 155°C / 1000h	$\pm 2\%$	$\pm 1\%$
Load Life / P=70% / 70°C / 1000h	$\pm 1\%$	$\pm 0.5\%$
Short term overload	$\pm 0.5\%$	$\pm 0.25\%$
Humidity / 96%RH / 40°C / 56 days	$\pm 1\%$	$\pm 0.5\%$



Type	Dimensions			
	L	B	D	C
CHR 0402	0.040 ± 0.006 [1.04 ± 0.15]	0.020 ± 0.006 [0.5 ± 0.15]	0.012 ± 0.002 [0.3 ± 0.05]	0.004 ± 0.004 / -0.002 [0.1 ± 0.1 / -0.05]
CHR 0504	0.050 ± 0.006 / -0.002 [1.25 ± 0.15 / -0.05]	0.040 ± 0.006 / -0.002 [1.0 ± 0.15 / -0.05]	0.012 ± 0.006 / -0.002 [0.3 ± 0.15 / -0.05]	0.008 ± 0.008 / -0.004 [0.2 ± 0.2 / -0.1]
CHR 0603	0.060 ± 0.006 / -0.002 [1.5 ± 0.15 / -0.05]	0.030 ± 0.008 / -0.002 [0.8 ± 0.2 / -0.05]	0.016 ± 0.006 / -0.002 [0.4 ± 0.15 / -0.05]	0.008 ± 0.008 / -0.004 [0.2 ± 0.2 / -0.1]
CHR 0805	0.080 ± 0.006 / -0.002 [2.0 ± 0.15 / -0.05]	0.050 ± 0.006 / -0.002 [1.25 ± 0.15 / -0.05]	0.016 ± 0.006 / -0.002 [0.4 ± 0.15 / -0.05]	0.012 ± 0.008 / -0.004 [0.3 ± 0.2 / -0.1]
CHR 1206	0.120 ± 0.006 / -0.002 [3.2 ± 0.15 / -0.05]	0.060 ± 0.008 / -0.002 [1.5 ± 0.2 / -0.05]	0.016 ± 0.006 / -0.002 [0.4 ± 0.15 / -0.05]	0.012 ± 0.008 / -0.004 [0.3 ± 0.2 / -0.1]
CHR 2010	0.200 ± 0.006 / -0.002 [5.1 ± 0.15 / -0.05]	0.100 ± 0.008 / -0.002 [2.5 ± 0.2 / -0.05]	0.024 ± 0.008 / -0.004 [0.6 ± 0.20 / -0.1]	0.047 ± 0.008 [1.2 ± 0.2]
CHR 2512	0.250 ± 0.006 / -0.002 [6.2 ± 0.15 / -0.05]	0.120 ± 0.008 / -0.002 [3.2 ± 0.2 / -0.05]	0.024 ± 0.008 / -0.004 [0.6 ± 0.20 / -0.1]	0.035 ± 0.008 [0.9 ± 0.2]

Packaging:

Bulk or Blister tape to IEC 60286-3

Tape width 8mm / Reel Diameter 180 or 330mm
 Minimum quantity Bulk / 100 pieces per value
 Minimum quantity Tape & Reel / 1000 pieces per value

Ordering Information

Part Number - Resistance - Tolerance - TCR - Packaging

Example: CHR 0603 10 kOhms 5% 50ppm Tape

(Note: if no TCR is specified, the highest value will be supplied)

Power Derating Curve

