

**FEATURES**

- Resistances from 10Ω to 10MΩ
- Power Rating 0.05 to 0.25Watt
- Resistance Tolerances to ± 0.5%
- TCR's to ± 50 ppm/K
- Non-Magnetic (contact PtAg)
- Suitable for Glueing or Soldering
- Sizes: 0402 / 0504 / 0603 / 0805 / 1206
- High Temperature Applications possible up to 300°C (CHR-HT)



**RoHS\***  
COMPLIANT

**TABLE 1 – SPECIFICATIONS**

Type (larger sizes upon request)	0402	0504	0603	0805	1206	
Power Rating ( W )	0.05	0.10	0.10	0.125	0.25	
Working Voltage ( U <sub>Ueff</sub> (V) )	Trimmed	30	50	75	100	200
	Untrimmed (≥ 5%)	60	100	150	200	400
Resistance Range ( Ω )	Tolerances Available ( % ) Temperature Coefficients Available ( ± ppm/K ) (lower TCR upon request)					
1Ω - <10Ω	10% to 20% 250	5% to 20% 100 / 250	5% to 20% 100 / 250	5% to 20% 100 / 250	5% to 20% 100 / 250	
10Ω - <100Ω	5% to 10% 100	2% to 10% 50 / 100	2% to 10% 50 / 100	1% to 10% 50 / 100	1% to 10% 50 / 100	
100Ω - 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	
>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	

Temperature Range	-55°C to +155°C (extended range up to 300°C upon request)
Climactic Category	55 / 155 / 56
Solderability (lead free or tin lead)	250°C / 3s (up to 6 month after shipping resp. at storage in Nitrogen)
Max. Soldering Temperature	260°C / 10s

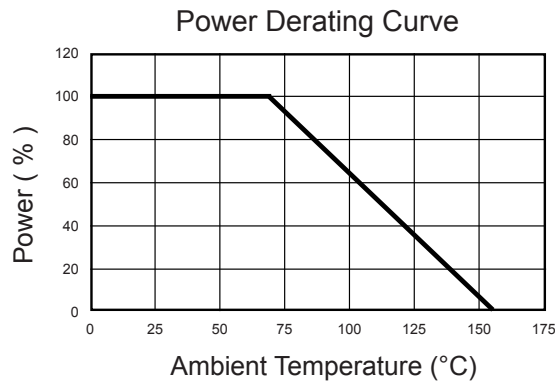
Long Term Stability	Max DR	
	<10Ω	10Ω - 10M
Storage 125°C / 1000h	<1%	<0.5%
Storage 155°C / 1000h	<2%	<1%
Load Life / P=70% / 70°C / 1000h	<1%	<0.5%
Short term overload	<0.5%	<0.25%
Humidity / 96%RH / 40°C / 56 days	<1%	<0.5%

**ORDERING INFORMATION**

**Part Number - Resistance - Tolerance - TCR - Packaging**

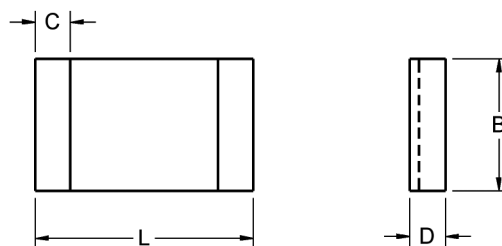
CHR 0603 10 kΩ 5% 50ppm Tape  
( Note: if no TCR is specified, the highest value will be supplied )

**FIGURE 1 – DERATING**



**FIGURE 2 – DIMENSIONS** inches [mm]

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	0.126 +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 ]



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