

FEATURES

- Resistances from 0.1Ohm to 500MOhms
- Power Rating 0.1 to 0.25Watt
- Resistance Tolerances to $\pm 0.5\%$
- TCR's to ± 50 ppm/K
- Thick Film Resistance Element
- Sizes: 0504 / 0603 / 0805 / 1206
- for High Vacuum Applications



RoHS*
COMPLIANT

TABLE 1 – SPECIFICATIONS

Type	0504	0603	0805	1206	
Power Rating (W) ¹	0.10	0.10	0.125	0.25	
Working Voltage (U _W , U _{eff} (V)	Trimmed	50	75	100	200
	Untrimmed	100	150	200	400
Resistance Range (Ω)	Tolerances Available (%) Temperature Coefficients Available (\pm ppm/K) ² (lower TCR upon request)				
0.1 Ω - <1 Ω	-	10% to 20% 250	5% to 20% 250	5% to 20% 250	
1 Ω - <10 Ω	5% to 20% 100 / 250	5% to 20% 100 / 250	2% to 20% 100 / 250	2% to 20% 100 / 250	
10 Ω - <100 Ω	2% to 10% 100	1% to 10% 100	1% to 10% 50 / 100	1% to 10% 50 / 100	
100 Ω - 1M	1% to 10% 50 / 100	1% to 10% 50 / 100	0.5% to 10% 50 / 100	0.5% to 10% 50 / 100	
>1M - 10M	1% to 10% 50 / 100	1% to 10% 50 / 100	0.5% to 10% 50 / 100	0.5% to 10% 50 / 100	
>10M - 100M	2% to 20% 100 / 250	1% to 20% 50 / 100	0.5% to 20% 50 / 100	0.5% to 20% 50 / 100	
>100M - 500M	-	5% to 20% 100 / 250	2% to 20% 100 / 250	2% to 20% 100 / 250	

¹ W @ 70 °C / 0W @ 155 °C
² 50 PPM : +25 °C to +125 °C

Temperature Range	-55°C to +155°C
Climactic Category	55 / 155 / 56
Solderability	250°C / 3s
Max. Soldering Temperature	260°C / 10s

ORDERING INFORMATION

Part Number - Resistance - Tolerance - TCR - Packaging

CRS 0603 1 Ohm 5% 100ppm Tape
(Note: if no TCR is specified, the highest value will be supplied)

TABLE 1 – SPECIFICATIONS (continued)

Long Term Stability	Max ΔR		
	<10Ω	10Ω - 100M	>100M
Storage 125°C / 1000h	<1%	<0.5%	<1%
Storage 155°C / 1000h	<2%	<1%	<2%
Load Life / P=70% / 70°C / 1000h	<1%	<0.5%	<1%
Short term overload (rated power x 2.5 for 5s)	<0.5%	<0.25%	<0.5%
Humidity / 96%RH / 40°C / 56 days	<1%	<0.5%	<1%

FIGURE 1 – DERATING

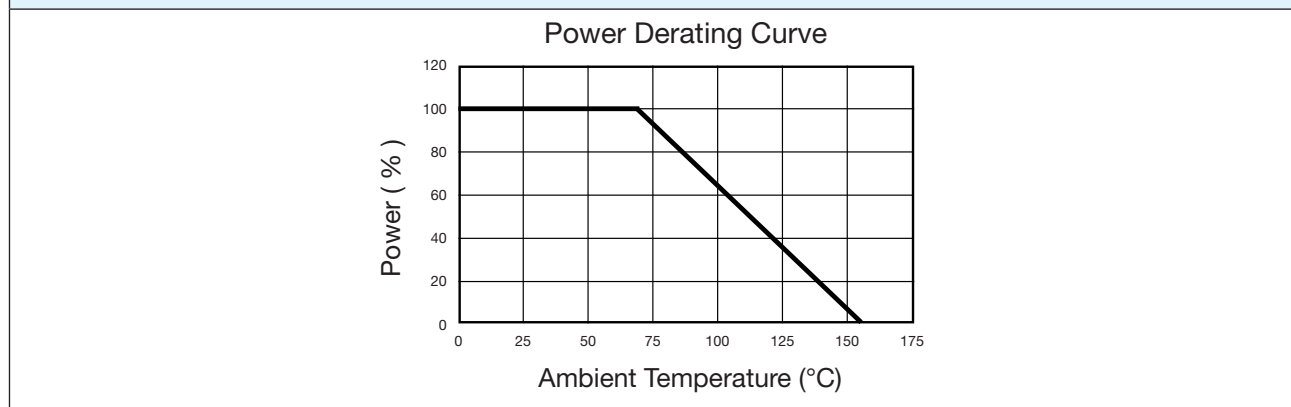
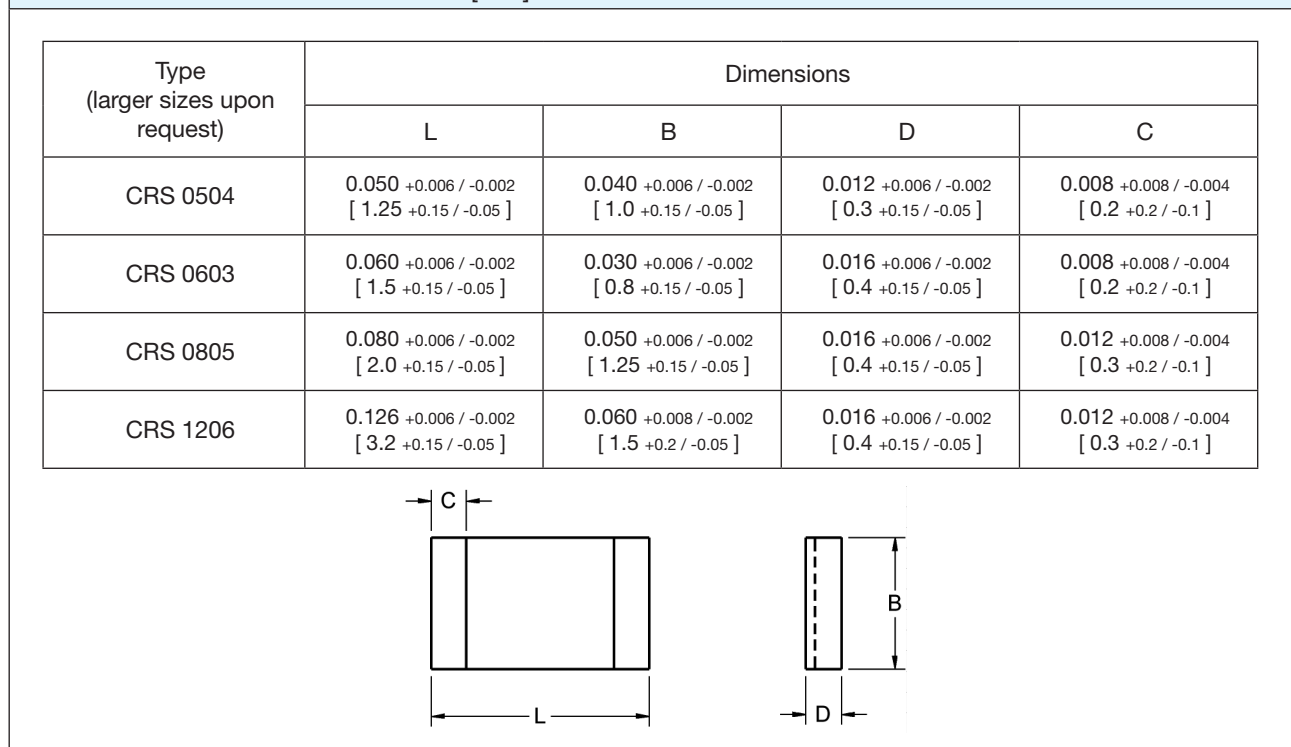


FIGURE 2 – DIMENSIONS in inches [mm]





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