

FEATURES

- Resistances from 5.1Ohm to 15MOhms
- Power Rating to 0.75 Watts
- Resistance Tolerances to $\pm 0.05\%$
- TCR's to ± 5 ppm/K
- Extreme Low Noise
- Precision / Thin Film Resistance Element



RoHS*
COMPLIANT

TABLE 1 – SPECIFICATIONS

Type	0603	0805	1206	2512
Power Rating (W) ¹	0.065	0.125	0.25	0.75
Working Voltage (VAC)	100	200	300	300
Resistance Range (Ω)	Tolerances Available (%) Temperature Coefficients Available (\pm ppm/K) ²			
5.1 Ω - <10 Ω	0.1% to 1% 25 / 50	0.1% to 1% 25 / 50	0.1% to 1% 25 / 50	0.1% to 1% 25 / 50
10 Ω - <47 Ω	0.1% to 1% 10 / 15 / 25 / 50	0.1% to 1% 10 / 15 / 25 / 50	0.1% to 1% 10 / 15 / 25 / 50	0.1% to 1% 10 / 15 / 25 / 50
47 Ω - <100 Ω	0.1% to 1% 5 / 10 / 15 / 25 / 50	0.1% to 1% 5 / 10 / 15 / 25 / 50	0.1% to 1% 5 / 10 / 15 / 25 / 50	0.05% to 1% 5 / 10 / 15 / 25 / 50
100 Ω - 332k	0.1% to 1% 5 / 10 / 15 / 25 / 50	0.05% to 1% 5 / 10 / 15 / 25 / 50	0.05% to 1% 5 / 10 / 15 / 25 / 50	0.1% to 1% 5 / 10 / 15 / 25 / 50
>332k - 1M	-	0.05% to 1% 5 / 10 / 15 / 25 / 50	0.05% to 1% 5 / 10 / 15 / 25 / 50	0.05% to 1% 5 / 10 / 15 / 25 / 50
>1M - 2M	-	0.1% to 1% 5 / 10 / 15 / 25 / 50	0.1% to 1% 5 / 10 / 15 / 25 / 50	0.05% to 1% 5 / 10 / 15 / 25 / 50
>2M - 5M	-	-	0.1% to 1% 15 / 25 / 50	0.1% to 1% 10 / 15 / 25 / 50
>5M - 15M	-	-	-	0.1% to 1% 10 / 15 / 25 / 50

¹ W @ 70 °C / 0W @ 125 °C

² 5 / 10 / 15 PPM : +25 °C to +85 °C

³ 1000V Available / contact factory

ORDERING INFORMATION

Part Number - Resistance - Tolerance - TCR - Packaging

CMF 0603 10 kOhms 0.1% 10ppm Tape
(Note: if no TCR is Specified / The highest value will be supplied
Tape available from 100 pieces)

TABLE 1 – SPECIFICATIONS (continued)

Temperature Range	-55°C to +125°C	
Climactic Category	55 / 125 / 56	
Solderability	245°C / 3s	
Max. Soldering Temperature	260°C / 10s	
Long Term Stability	Max ΔR	
	< 47Ω	47Ω - 15 MΩ
Storage 155°C / 1000h	<±0.5%	<±0.35%
Storage 125°C / 1000h	<±0.25%	<±0.15%
Load Life / P=70% / 70°C / 1000h	<±0.25%	<±0.1%
Humidity / 96%RH / 40°C / 56 days	<±0.5%	<±0.15%

FIGURE 1 – DERATING

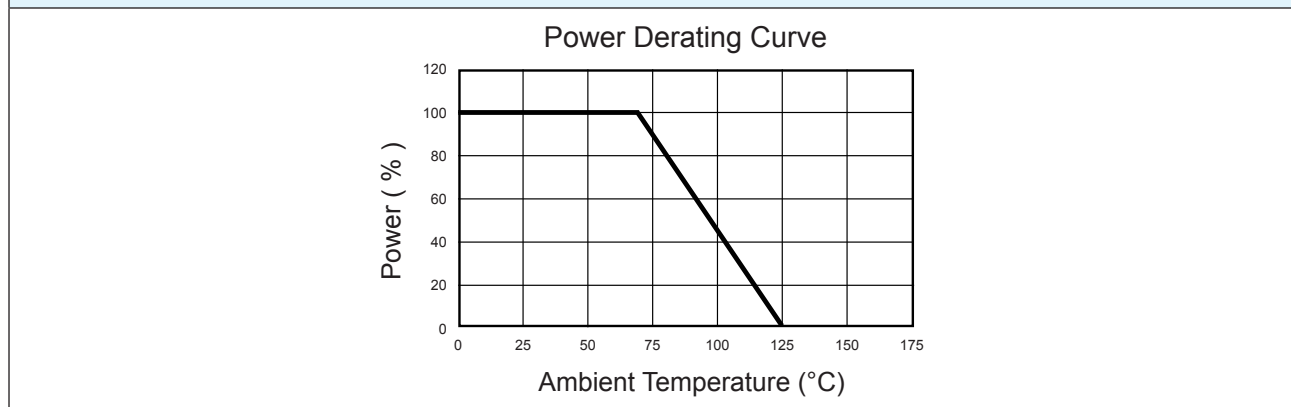
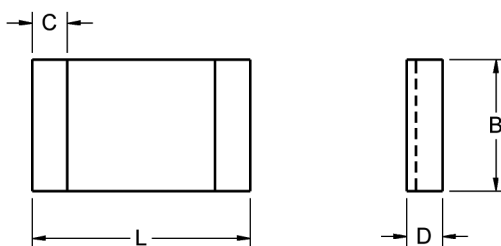


FIGURE 2 – DIMENSIONS in inches [mm]

Type	Dimensions			
	L	B	D	C
CMF 0603	0.063 ±0.004 [1.6 ±0.1]	0.030 ±0.004 [0.8 ±0.1]	0.018 ±0.004 [0.45 ±0.1]	0.012 ±0.008 [0.3 ±0.2]
CMF 0805	0.080 ±0.004 [2.0 ±0.1]	0.050 ±0.004 [1.25 ±0.1]	0.022 ±0.004 [0.55 ±0.1]	0.016 ±0.008 [0.4 ±0.2]
CMF 1206	0.126 ±0.008 [3.2 ±0.2]	0.063 ±0.006 [1.6 ±0.15]	0.022 ±0.004 [0.55 ±0.1]	0.020 ±0.008 [0.5 ±0.2]
CMF 2512	0.248 ±0.008 [6.3 ±0.2]	0.126 ±0.006 [3.2 ±0.15]	0.022 ±0.008 [0.55 ±0.2]	0.020 ±0.008 [0.5 ±0.2]





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