

- Resistances from 5.1Ohm to 10MOhms
- Power Rating 0.065 to 0.25 Watts
- Resistance Tolerances to $\pm 0.05\%$
- TCR's to ± 5 ppm/K
- Extreme Low Noise
- Precision / Thin Film Resistance Element
- Sizes: 0603 / 0805 / 1206 / 1210 / 2512



RoHS*
COMPLIANT

SPECIFICATIONS

Type	0603	0805	1206
Power Rating (W) ¹	0.065	0.125	0.25
Working Voltage (VAC)	75	100	200
Resistance Range (Ω)	Tolerances Available (%) Temperature Coefficients Available (\pm ppm/K) ²		
5.1 Ω - <10 Ω	-	-	1% 50
10 Ω - <47 Ω	0.1% to 1% 25 / 50	0.1% to 1% 25 / 50	0.1% to 1% 25 / 50
47 Ω - <100 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
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
>332k - 1M	-	0.1% to 1% 10 / 15 / 25 / 50	0.05% to 1% 10 / 15 / 25 / 50
>1M - 2M	-	-	0.25% to 1% 50
>2M - 10M	-	-	-

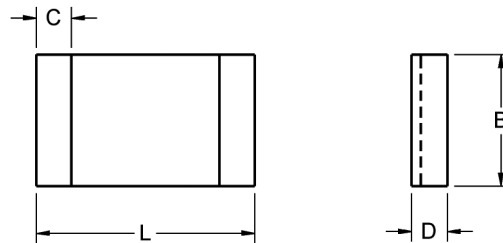
¹ W @ 70 °C / 0W @ 125 °C

² 5 / 10 / 15 PPM : +25 °C to +85 °C

³ 1000V Available / contact factory

SPECIFICATIONS (continued)

Specification	Value	
Temperature Range	-55°C to +125°C	
Climactic Category	55 / 125 / 56	
Solderability	250°C / 3s	
Max. Soldering Temperature	260°C / 10s	
Long Term Stability	Max ΔR	
	$< 47\Omega$	$47\Omega - 10 M\Omega$
Storage 125°C / 1000h	$\pm 0.25\%$	$\pm 0.15\%$
Load Life / P=70% / 70°C / 1000h	$\pm 0.25\%$	$\pm 0.1\%$
Humidity / 96%RH / 40°C / 56 days	$\pm 0.5\%$	$\pm 0.15\%$



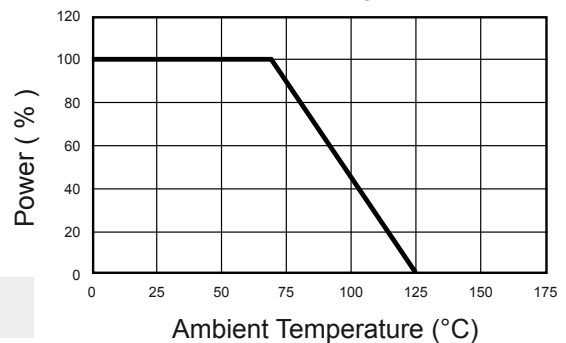
Type	Dimensions			
	L	B	D	C
CMF 0603	0.063 ± 0.004 [1.6 ± 0.1]	0.030 ± 0.004 [0.8 ± 0.1]	0.018 ± 0.004 [0.45 ± 0.1]	0.012 ± 0.008 [0.3 ± 0.2]
CMF 0805	0.080 ± 0.004 [2.0 ± 0.1]	0.050 ± 0.004 [1.25 ± 0.1]	0.022 ± 0.004 [0.55 ± 0.1]	0.016 ± 0.008 [0.4 ± 0.2]
CMF 1206	0.126 ± 0.008 [3.2 ± 0.2]	0.063 ± 0.006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

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

Power Derating Curve



Ordering Information

Part Number - Resistance - Tolerance - TCR - Packaging

Example: CMF 0603 10 kOhms 0.1% 10ppm Tape

(Note: if no TCR is Specified / The highest value will be supplied)

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