

# CMF Series

Precision Chip Resistors



- Resistances from 5.1Ohm to 10MOhms
- Power Rating 0.065 to 0.75 Watts
- Resistance Tolerances to  $\pm 0.05\%$
- TCR's to  $\pm 5$  ppm/K
- Extreme Low Noise
- Precision / Thin Film Resistance Element
- Sizes: 0603 / 0805 / 1206 / 1210 / 2512

## SPECIFICATIONS

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

<sup>1</sup>W @ 70 °C / 0W @ 125 °C

<sup>2</sup>5 / 10 / 15 PPM : +25 °C to +85 °C

<sup>3</sup> 1000V Available / contact factory

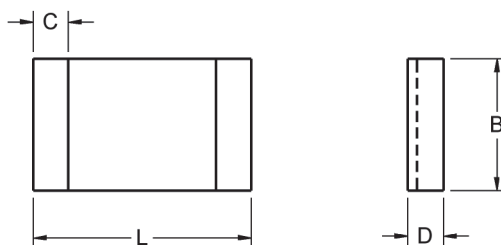
# CMF Series

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## 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	
	< 47Ω	47Ω - 10 MΩ
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%



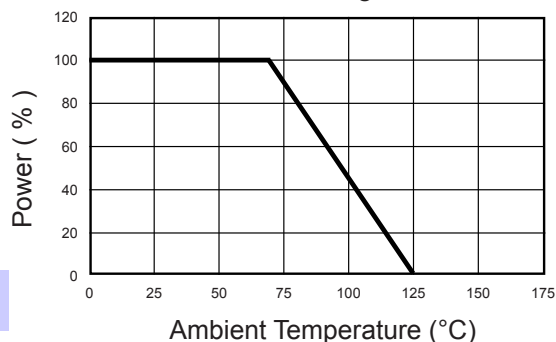
Type	Dimensions			
	L	B	D	C
<b>CMF 0603</b>	0.063 ±0.004 [ 1.6 ±0.1 ]	0.030 ±0.004 [ 0.8 ±0.1 ]	0.018 ±0.004 [ 0.45 ±0.1 ]	0.012 ±0.008 [ 0.3 ±0.2 ]
<b>CMF 0805</b>	0.080 ±0.004 [ 2.0 ±0.1 ]	0.050 ±0.004 [ 1.25 ±0.1 ]	0.022 ±0.004 [ 0.55 ±0.1 ]	0.016 ±0.008 [ 0.4 ±0.2 ]
<b>CMF 1206</b>	0.126 ±0.008 [ 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 )