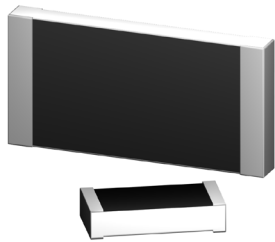


# CMF Series

Precision Chip Resistors



- Resistances from 10Ω to 4.7MΩ
- 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



## 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 ( Ω )	Tolerances Available ( % ) Temperature Coefficients Available ( $\pm$ ppm/K ) <sup>2</sup>		
5.1Ω - <10Ω	-	-	1% 50
10Ω - <47Ω	0.1% to 1% 25 / 50	0.1% to 1% 25 / 50	0.1% to 1% 25 / 50
47Ω - <100Ω	0.1% to 1% 10 / 15 / 25 / 50	0.1% to 1% 10 / 15 / 25 / 50	0.1% to 1% 10 / 15 / 25 / 50
100Ω - 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

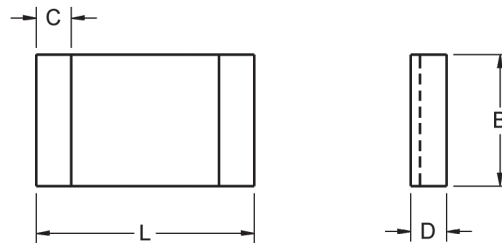
# CMF Series

Precision Chip Resistors



## 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 $\Delta R$	
	< 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	$\pm 0.5\%$	$\pm 0.15\%$



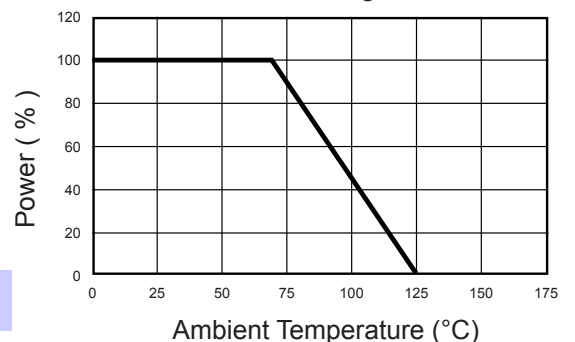
Type	Dimensions			
	L	B	D	C
<b>CMF 0603</b>	0.063 $\pm 0.004$ [ 1.6 $\pm 0.1$ ]	0.030 $\pm 0.004$ [ 0.8 $\pm 0.1$ ]	0.018 $\pm 0.004$ [ 0.45 $\pm 0.1$ ]	0.012 $\pm 0.008$ [ 0.3 $\pm 0.2$ ]
<b>CMF 0805</b>	0.080 $\pm 0.004$ [ 2.0 $\pm 0.1$ ]	0.050 $\pm 0.004$ [ 1.25 $\pm 0.1$ ]	0.022 $\pm 0.004$ [ 0.55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

### 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 )