

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 ± 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) 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 | - | - | - |

¹W @ 70 °C / 0W @ 125 °C

²5 / 10 / 15 PPM : +25 °C to +85 °C

³ 1000V Available / contact factory

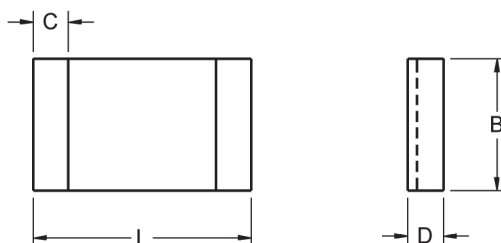
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SPECIFICATIONS (continued)

| 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% |



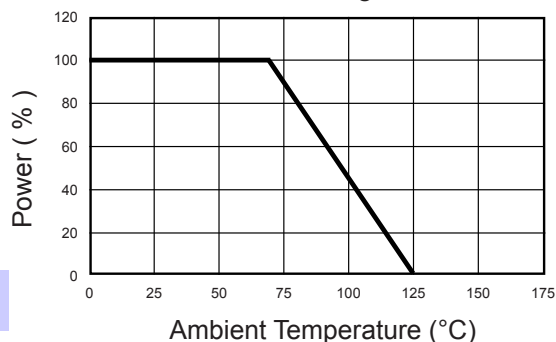
| Type | Dimensions | | | |
|-----------------|------------------------------|-------------------------------|-------------------------------|------------------------------|
| | L | B | D | C |
| CMF 0603 | 0.063 ±0.004 [1.6 ±0.1] | 0.030 ±0.004 [0.8 ±0.1] | 0.018 ±0.004 [0.45 ±0.1] | 0.012 ±0.008 [0.3 ±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)