

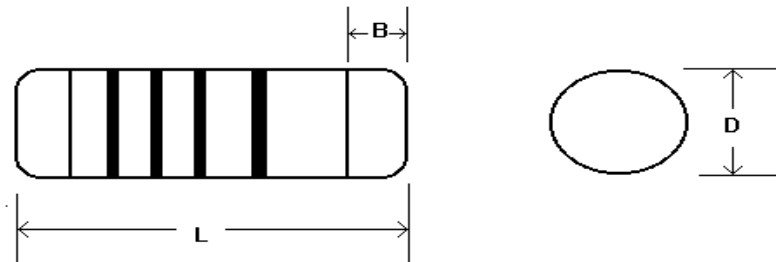
Carbon Film MELF Resistor

Specifications Per

- IEC 115-1 115-2
- JIS C 52021
- MIL-R-226848

Features

- SMD enabled structure
- Conformal Multi-layer Coating Against Humidity
- Excellent Solderability Termination



Dimensions

Type	Body Length (L)	Body Diameter (D)	Soldering spot (B)	Net Weight Per 1000 pcs
CM-16	3.45 +- 0.1mm	1.35 +- 0.1mm	0.6mm Min.	17 grams
CM-204	3.45 +- 0.1mm	1.35 +- 0.1mm	0.6mm Min.	17 grams
CM-207	5.90 +- 0.2mm	2.20 +- 0.1mm	1.0mm Min.	66 grams
CM-52	5.90 +- 0.2mm	2.20 +- 0.1mm	1.0mm Min.	66 grams

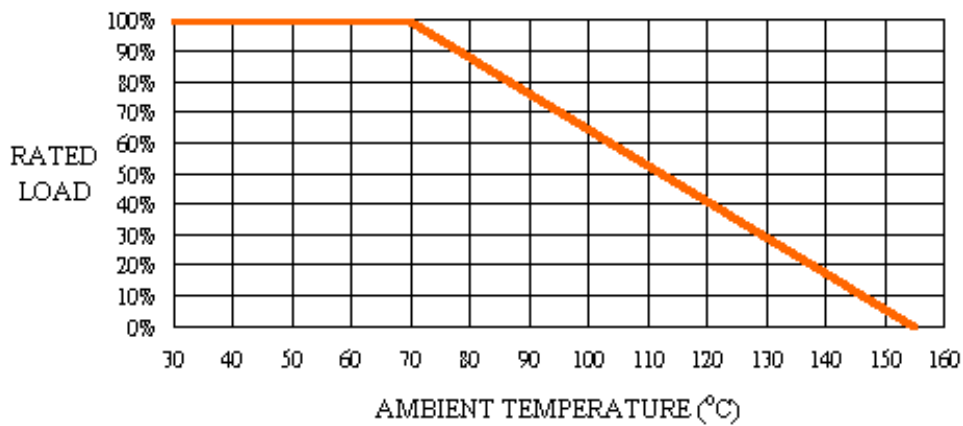
General Specifications

Type	Power Rating at 70 degree C	Max. Working Voltage	Max. Overload Voltage	Resistance Range Min.	Resistance Range Max.	Resistance Tolerance	Standard Resistance Value
CM-16	1/6W	200V	300V	0, 0.1 ohm	1M ohm	+ - 5%	E-24
CM-204	1/4W	200V	300V	0, 0.1 ohm	1M ohm	+ - 5%	E-24
CM-207	1/3W	300V	600V	0, 0.1 ohm	10M ohm	+ - 5%	E-24
CM-52	1/2W	350V	600V	0, 0.1 ohm	10M ohm	+ - 5%	E-24

For zero-ohm jumper resistance value is under 20m ohm. Rated current is 2A for MM-16 & MM-204, 4A for MM-207 & MM-52.

For 0.001~0.1 ohm please see CSM series. Special sizes, values, and specifications not listed available on special order.

POWER DERATING CURVE



Performance Specifications

Characteristics			Limits
Temperature Coefficient	CM-16 CM-204	CM-207 CM-52	PPM value
	1ohm~33K	1ohm~33K	+ - 300 PPM/ degree C
	33K~330K	33K~330K	- 500 PPM/ degree C
	330K~470K	330K~470K	- 700 PPM/ degree C
	470K~910K	470K~1M	-1000 PPM/ degree C
	Over 910K	Over 1M	-1500 PPM/ degree C
Short Time Overload			+ - (1%+0.05R)
Dielectric Withstanding Voltage			CM-16, CM-204: 200VAC CM-207, CM-52: 500VAC
Insulation Resistance			10 ⁴ M ohm
Voltage Coefficient			25 PPM / V
Temperature Cycling			+ - (1%+0.05R)
Humidity			+ - 3%
Load Life In Humidity			+ - 5%
Load Life (at 70 degree C)			+ - 3%
Resistance To Soldering Heat			+ - (1%+0.05R)
Solderability			95% Min.
Vibration			+ - (1%+0.1R)
Terminal Strength			+ - (1%+0.05R)
Thermal Shock			+ - (1%+0.05R)