

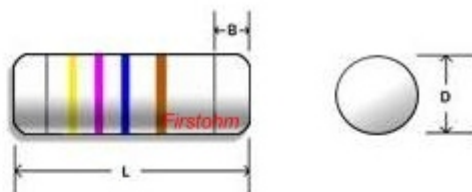
## MM - Metal Film MELF Resistor

### Specifications Per

- ˆ IEC 115-1 115-2
- ˆ CECC 40101
- ˆ DIN 44061

### Features:

- ˆ SMD enabled structure
- ˆ Conformal Multi-layer Coating Against Humidity
- ˆ Excellent Solderability Termination
- ˆ 5% is 3-band coded, 1% and under is 4-band coded



### Dimensions:

Type	Body Length (L)	Body Diameter (D)	Soldering spot (B)	Net Weight Per 1000 pcs
MM16	3.45mm $\pm$ 0.1mm	1.35 $\pm$ 0.1mm	0.6mm Min.	17 grams
MM102	2.2mm max.	1.1mm max.	0.45 mm max.	7.5 grams
MM204	3.45mm $\pm$ 0.1mm	1.35 $\pm$ 0.1mm	0.6mm Min.	17 grams
MM207	5.9mm $\pm$ 0.2mm	2.2 $\pm$ 0.1mm	1.0mm Min.	66 grams
MM52	5.9mm $\pm$ 0.2mm	2.2 $\pm$ 0.1mm	1.0mm Min.	66 grams

### Specifications:

Type	Power Rating (at 70 $\pm$ J)	Max. Working Voltage	Max. Overload Voltage	Resistance Range Min.	Resistance Range Max.	Resistance Tolerance $\pm$ @	Standard Resistance Value
MM16	1/6W	200V	400V	0 & 0.1 $\Omega$ [	1M $\Omega$ [	$\pm$ 0.1%	E-24/E-96
						$\pm$ 0.2%, 5%	E-24
MM102	1/5W	150V	300	0 & 10 $\Omega$ [	2.21M $\Omega$ [	$\pm$ 0.5~5%	E-24/E-96
MM204	1/4W	200V	400V	0 & 0.1 $\Omega$ [	1M $\Omega$ [	$\pm$ 0.1%	E-24/E-96
						$\pm$ 0.2%, 5%	E-24
MM207	1/3W	300V	500V	0 & 0.1 $\Omega$ [	10M $\Omega$ [	$\pm$ 0.1%	E-24/E-96
						$\pm$ 0.2%, 5%	E-24
MM52	1/2W	300V	500V	0 & 0.1 $\Omega$ [	10M $\Omega$ [	$\pm$ 0.1%	E-24/E-96
						$\pm$ 0.2%, 5%	E-24

For zero-ohm jumper, resistance value is under 20 m $\Omega$ [. Rated current is 2A for MM16 & MM204, 4A for MM207 and MM52. For 1m~100m $\Omega$ [ please see CSM series. Special sizes, values, and specifications not listed available on special order.

### Technical Specifications

Characteristics	Limits				
Dielectric Withstanding Voltage, VAC or DC	MM16, MM102, MM204: 200 MM207, MM52: 500				
Temperature Coefficient, PPM / $\Delta$ J	$\pm$ 0.1%, 2%	$\pm$ 0.50			
	$\pm$ 0.5%	$\pm$ 0.100			
Operating Temperature Range, $\Delta$ J	-55 ~ +125				
Film Temperature, $\Delta$ J	MM16	MM102	MM204	MM207	MM52
	125	125	125	125	140
Insulation Resistance, M $\Omega$ [	>10 <sup>4</sup>				