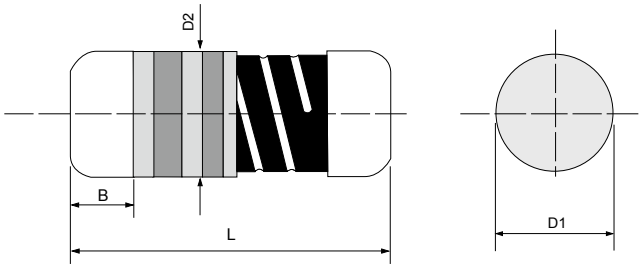
RMMW Series

PULSE WITHSTANDING

Metal Film MELF Resistor



Specifications Per

- IEC 60115-1
- EN 140401-803

Features

- SMD enabled structure
- Excellent solderability termination
- Products meet RoHS requirements and do not contain substances of very high concern identified by European Chemicals Agency

DIMENSIONS

Type	Body Length (L, mm)	Cap Diameter (D1, mm)	Body Diameter (D2, mm)	Soldering Spot (B, mm)	Net Weight Per 1000 pcs
RMMW16P	3.52 ± 0.15	1.35 ± 0.1	D1+0.02/ -0.15	0.6 Min.	17 grams
RMMW204P	3.52 ± 0.15	1.35 ± 0.1	D1+0.02/ -0.15	0.6 Min.	17 grams
RMMW207P	5.90 ± 0.20	2.20 ± 0.1	D1+0.02/ -0.2	1.0 Min.	66 grams
RMMW52P	5.90 ± 0.20	2.20 ± 0.1	D1+0.02/ -0.2	1.0 Min.	66 grams

GENERAL SPECIFICATIONS

Type	Power Rating At 70°C	Maximum Working Voltage	Maximum Overload Voltage	Minimum Resistance	Maximum Resistance	Resistance Tolerance	Available Resistance Values
RMMW16P	1/6W	200V	400V	0.1Ω	100KΩ	±1%	E-24/E-96
						±2%, ±5%	E-24
RMMW204P	1/4W	200V	400V	0.1Ω	100KΩ	±1%	E-24/E-96
						±2%, ±5%	E-24
RMMW207P	1/3W	300V	500V	0.1Ω	330KΩ	±1%	E-24/E-96
						±2%, ±5%	E-24
RMMW52P	1/2W	300V	500V	0.1Ω	330KΩ	±1%	E-24/E-96
						±2%, ±5%	E-24

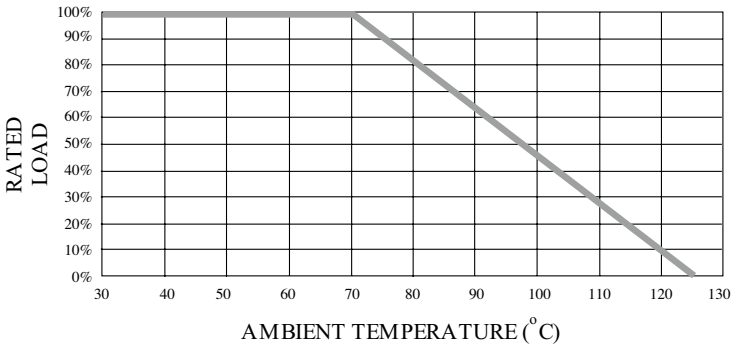
For zero-ohm jumper, please see ZMM series. For 10~510mΩ please see RCSM series.
Special sizes, values, and specifications not listed available on special order.

RMMW Series

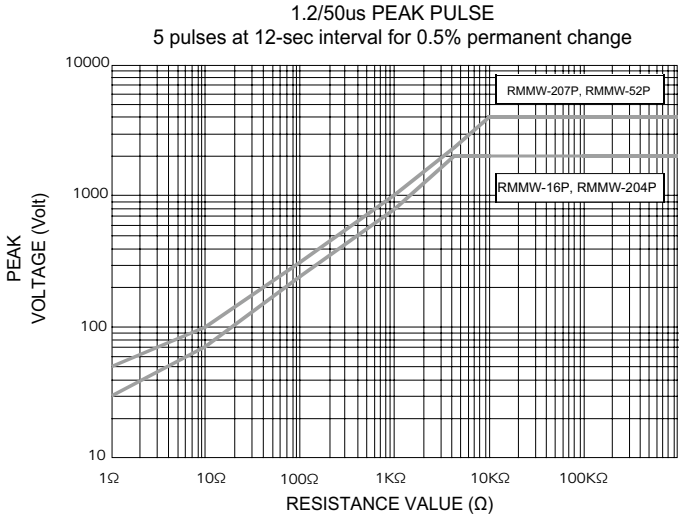
PULSE WITHSTANDING

Metal Film MELF Resistor

POWER DERATING CURVE



SURGE PERFORMANCE



TECHNICAL SUMMARY

Characteristics	Limits			
Dielectric Withstanding Voltage, VAC or DC	RMMW16P, RMMW204P: 200 RMMW207P, RMMW52P: 500			
Temperature Coefficient, PPM / °C*	±1%, ±2%		±50	
	±5%		±100	
Operating Temperature Range, °C	-55 ~ +125			
Film Temperature, °C	RMMW16P	RMMW204P	RMMW207P	RMMW52P
	125	125	125	140
Insulation Resistance, MΩ	$>10^4$			
Tin Whisker (JESD201 Temperature Cycling & High Temp. / Humidity Storage), μm	< 5			

*** Not applicable to all resistance values. Please check with us regarding the PPM of specific resistance value(s).**

RMMW Series

PULSE WITHSTANDING

Metal Film MELF Resistor

PERFORMANCE SPECIFICATIONS

Characteristics	Test Conditions	Limits
Short Time Overload	**IEC 60115-1 4.13** 5 seconds 2.5x rated voltage (not over max. overload voltage)	±0.5%
Load Life In Humidity	**IEC 60115-1 4.24** 56 days rated load (not over max. working voltage) at (40±2)°C and (93±3)% relative humidity	±1.5%
Load Life	**IEC 60115-1 4.25.1** Rated load (not over max. working voltage) 1,000 hours with 1.5 hours ON, 0.5 hours OFF, at (70±2)°C	±1.5%
Resistance To Soldering Heat	**IEC 60115-1 4.18.2** Dip the resistor into a solder bath measured (260±5)°C and hold it for a 10±1 seconds	±0.5%
Solderability	**IEC 60115-1 4.17.2** Solder area covered after (235±3)°C/(2±0.2) seconds with flux applied	95% min.coverage
Vibration	**IEC 60115-1 4.22** Six hours in each parallel and axial direction with a simple harmonic motion having an amplitude of 1.52mm and 10 to 2,000 Hz.	±1%
Thermal Endurance	**IEC 60115-1 4.25.3** 1000 hours at 125°C without load	±1%
Thermal Shock	**IEC 60115-1 4.19** -55°C 30minutes, +125°C 30minutes, 5 cycles	±0.5%

PART NUMBER

Example: **RMMW16P1/6W22RF50ppmNIL**

RMMW16P	**1/6W**	**22R**	**F**	**50ppm**	**NIL**
Type	**Power**	Resistance	Tolerance	TCR	Packaging
	1W	22R=22Ω 22K=22KΩ 1M=1MΩ R = 1 K = 10^3 M = 10^6 G = 10^9	J (5%) K (10%) M (20%)	**3-7-character code** **TYL=Typical** ± 5 ppm=5ppm ± 1000ppm=1000ppm	Nil = Bulk **T/R = Tape and Reel** **T/B = Tape and Box**