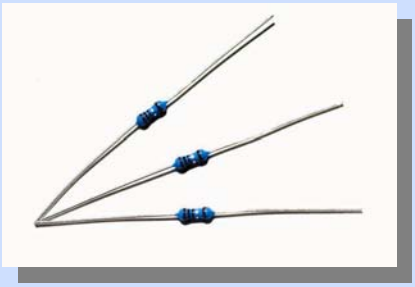
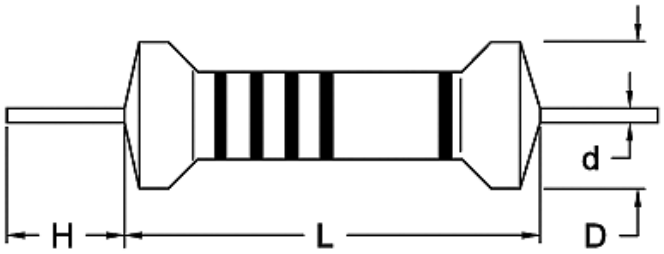
RMFF Series

Metal Film Fixed Resistors – Flame-Proof Type

TRIGON COMPONENTS

Resistor





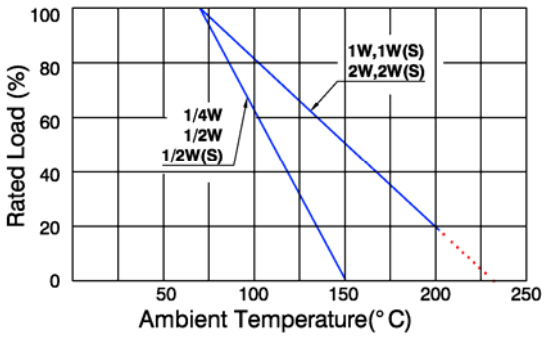
FEATURES

- Power Rating: 0.25W,0.5W, 1W, 2W
- Resistance Tolerance: ±1%
- T.C.R.: ±50ppm/ºC, ±100ppm/ºC
- Complete flameproof construction UL-1412
- Value range: 10Ω ~ 1MΩ

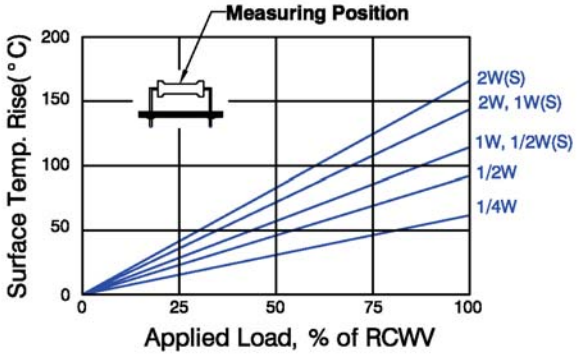
DIMENSIONS (in/mm)

STYLE	L	D	H	d
1/4 W 1/2 W(S)	0.25±0.02 (6.3±0.5)	0.09±0.01 (2.3±0.3)	1.10±0.08 (28 ±2)	0.020±0.002 (0.5±0.05)
1/2 W 1W(S)	0.35±0.02 (9.0±0.5)	0.13±0.02 (3.2±0.5)	1.02±0.08 (26±2)	0.024±0.002 (0.6±0.05)
1 W 2 W(S)	0.45 ±0.04 (11.5 ±1.0)	0.18 ±0.02 (4.5 ±0.5)	1.38 ±0.08 (35 ±2.0)	0.028 ±0.002 (0.7 ±0.05)
2 W -	0.61 ±0.04 (15.5 ±1.0)	0.2 ±0.02 (5.0 ±0.5)	1.30 ±0.08 (33 ±2.0)	0.03 ±0.002 (0.8 ±0.05)

DERATING CURVE



HOT-SPOT TEMPERATURE



ORDERING CODE

RMFF 1002 F B T
(1) (2) (3) (4) (5)

(1) Series Name

(2) Resistance
4-Digit IEC Code (E-96)

(3) Tolerance

(4) Power Rating

(5) Packing Style

※Please refer to complete Ordering Code document (R(Axial)-Ord) for more ordering options.

RMFF Series

Metal Film Fixed Resistors – Flame-Proof Type

TRIGON COMPONENTS

ELECTRICAL CHARACTERISTICS

STYLE	RMFF-B	RMFF-CS	RMFF-C	RMFF-DS	RMFF-D	RMFF-ES	RMFF-E
Power Rating at 70ºC	1/4 W	1/2 W		1 W		2 W	
Operating Temp. Range	-55ºC to +155ºC						
Maximum Working Voltage	250V	300V	350V	400V	500V	500V	500V
Maximum Overload Voltage	500V	600V	700V	800V	1000V	1000V	1000V
Dielectric Withstanding Voltage	400V	400V	500V	600V	750V	750V	750V
Value Range ±1%	10Ω ~ 1MΩ						
Temperature Coefficient (by Type)	±50 ppm/ºC, ±100 ppm/ºC						

※The listed resistance range for standard resistance, below or over this resistance is on request.

ENVIRONMENTAL CHARACTERISTICS

Performance Test	Test Method	Appraise
Short Time Overload	JIS-C-5202 5. 5: 2.5 times RCWV for 5 seconds	±(0.25%+0.05Ω)
Dielectric Withstanding V.	JIS-C-5202 5. 7: in V-Block for 60 seconds	By Type
Temperature Coefficient	JIS-C-5202 5. 2: -55ºC ~ +155ºC	By Type
Insulation Resistance	JIS-C-5202 5. 6: in V-Block	≧ 1000 MΩ
Solderability	JIS-C-5202 6. 5: 235ºC for 5±0.5 seconds	95% min. coverage
Resistance to Solvent	JIS-C-5202 6. 9: Trichroethance for 1 min. with Ultrasonic	No deterioration of coatings and markings
Terminal Strength	Direct load for 10 sec. In the direction of the terminal leads	≧ 2.5 KG/ 24.5 N
Pulse Overload	JIS-C-5202 5. 8: 4 times RCWV 10000 cycles(1 sec.on,25 sec.off)	±(2.0%+0.05Ω)
Load life in Humidity	JIS-C-5202 7. 9: 40±2ºC,90~95%RH at RCWV for 1000 hrs. (1.5 hrs. on, 0.5 hrs. off)	±(1.5%+0.05Ω)
Load Life	JIS-C-5202 7.10: 70ºC at RCWV for 1000 hrs(1.5hrs.on,0.5hrs off)	±(1.5%+0.05Ω)
Temperature Cycling	JIS-C-5202 7. 4: -65ºC~room temp. ~-150ºC~room temp. for 5 cycle	±(0.25%+0.05Ω)
Soldering Heat	JIS-C-5202 6. 4: 350±10ºC for 3±0.5 seconds	±(0.25%+0.05Ω)

※Rated continuous Working Voltage (RCWV) = $\sqrt{\text{Power Rating x Resistance Value}}$