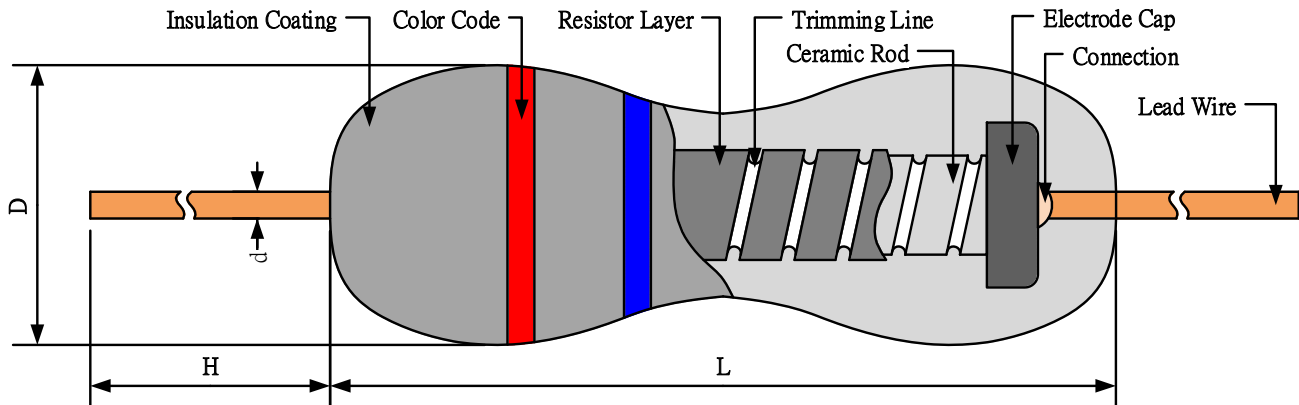


● **PRODUCT FEATURES :**

1. LOW NOISE
2. LOW T.C.R.200ppm, 100ppm, 50ppm, 25ppm, 15ppm
3. HIGH PRECISION 1%, 0.5%, 0.25%, 0.1%,
4. Flameproof Multi-layer Coating Meets UL-94V-0

● **POWER 、 RATINGS 、 DIMENSIONS**

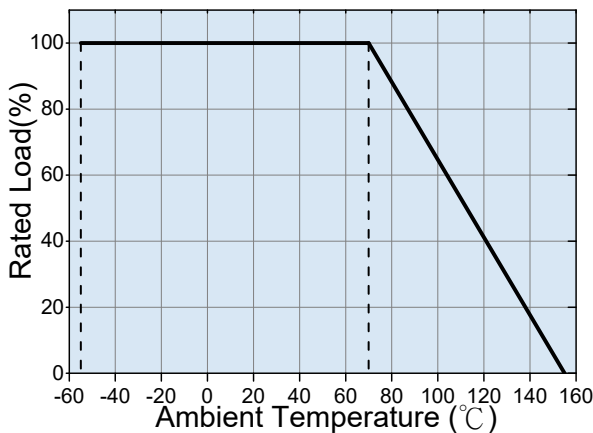
- ◎ Standard Type: 1/4W ~5W
- ◎ Miniature Type: 1/2Ws~7Ws



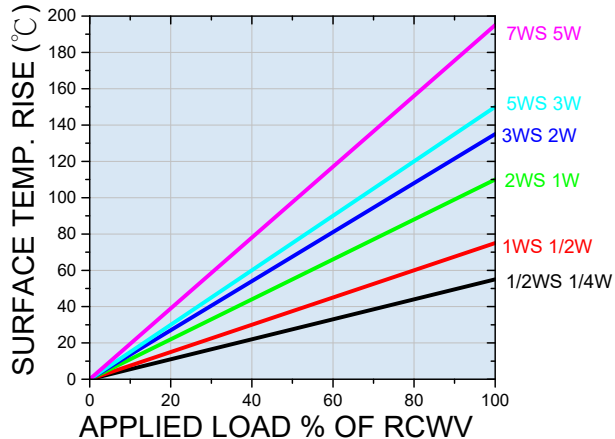
TYPE	Dimension(mm)				Resistance Range(Ω)		Max Working Voltage	Operating Temp. Range	Max. Overload Voltage	Dielectric Withstanding voltage.
	D	L	H	d	0.5%/1%	0.25%/0.1%				
1/4W	2.3±0.3	6.3±0.5	28±2.0	0.55±0.03	0.1Ω~4M7	10Ω~100K	250V	-55℃ to +155℃	500V	350V
1/2WS							300V			
0.6W(0207)							350V			
1/2W	3.2±0.5	9.0±0.5	26±2.0	0.65±0.03	0.1Ω~4M7	10Ω~100K	400V		500V	400V
1WS							500V		700V	
1W	4.5±0.5	11.5±1.0	35±2.0	0.78±0.03	0.1Ω~4M7	10Ω~100K	500V		700V	500V
2WS							500V		1000V	
2W	5.0±0.5	15.5±1.0	32±2.0	0.78±0.03	0.1Ω~4M7	10Ω~100K	500V		1000V	500V
3WS							750V		750V	
3W	6.0±0.5	17.5±1.0	35±2.0	0.78±0.03	0.1Ω~4M7	10Ω~100K	750V		1000V	750V
5Ws							1000V	750V		
5W	8.0±0.5	24.5±1.0	35±2.0	0.78±0.03	0.1Ω~4M7	10Ω~100K	1000V	1000V	750V	
7Ws							1000V	750V		

☆ Value Range for standard resistance , below or over this resistance on request.

● **POWER GRAPH**



● **HOT-SPOT TEMPERATURE**



● ENVIRONMENTAL CHARACTERISTICS

Performance Test	Test Method	Appraise $\Delta R_{\pm}(\%+0.05\Omega)$	
Short Time Overload	2.5 times RCWV for 5 seconds	0.25	
Temperature Coefficient(T.C.R.)	Resistance value at room (+25°C) Temperature and room Temperature(+125°C)	Standard	under 9R9Ω ±200 ppm 10Ω to 4.7MΩ ±100 ppm
		Special	By Type
Voltage Proof	In V-Block for 60 seconds	By Type	
Pulse Overload	4 times RCWV for 10000 cycles (1sec.on , 25secs.off)	0.75	
Insulation Resistance	In V-Block	> 10000MΩ	
Load Life	70°C at RCWV for 1000hrs. (1.5hrs. on , 0.5hrs.off)	1.5	
Load Life In Humidity	40±2°C 90~95%RH at 0.1 times RCWV for 1000hrs.(1.5hrs. on , 0.5hrs.off)	1.5	
Temperature Cycling.	-55°C/125°C with 5 cycles. (30min for both low and high Temperature transfer time less 30s)	0.75	
Solder Ability	260±5°C for 2±0.5 seconds	95% min. coverage	
Resistance to Soldering Heat	The solder iron heated to 260°C ±5°C and applied to the termination for a duration of 10±1 seconds.	1/8W 1/6W 1/4Ws 0.4W	0.75
		1/4W 1/2Ws 0.6W 1/2W 1Ws	0.5
		1W 2Ws 2W 3Ws 5W 7Ws	0.25
Resistance to Solvent	IPA for 5±0.5 Min. with ultrasonic	No abnormality in coatings and markings.	
Terminal Strength	Direct load for 10 sec. In the direction off the terminal leads.	Tensile: ≥ 2.5kg	

Reference Standards: IEC 60115-1

Storage Temperature: 25±3°C; Humidity < 80%RH

Rated continuous Working Voltage (RCWV) = $\sqrt{POWER.RATING. * RESISTANCE.VALUE}$

● Resistor body color

- ⊙ Flame Proof : Silicone Coating-----Grey (Normal)
- ⊙ Flame Proof : Silicone Coating-----Blue (Customization)

● **PART NUMBER:**

FMF		1/4W	3K		F		TB			
↓		↓	↓		↓	↓	↓			
Type		Power rating	Resistance		Tolerance	T.C.R		Packaging		
FMF	Flame Proof	1/4W	1R	1Ω	B	± 0.1%	B	200ppm	TB	Taping Box
	Metal Film	1/2WS	10R	10Ω	C	± 0.25%		Standard	TR	Taping Reel
		100R	100Ω	D	± 0.5%		100ppm	BU	Bulk
		5W	1K2	1K2Ω	F	± 1%	E	50ppm	
		7WS	1M	1MΩ	J	± 5%	G	25ppm	FCK	FCK-TYPE
							H	15ppm		