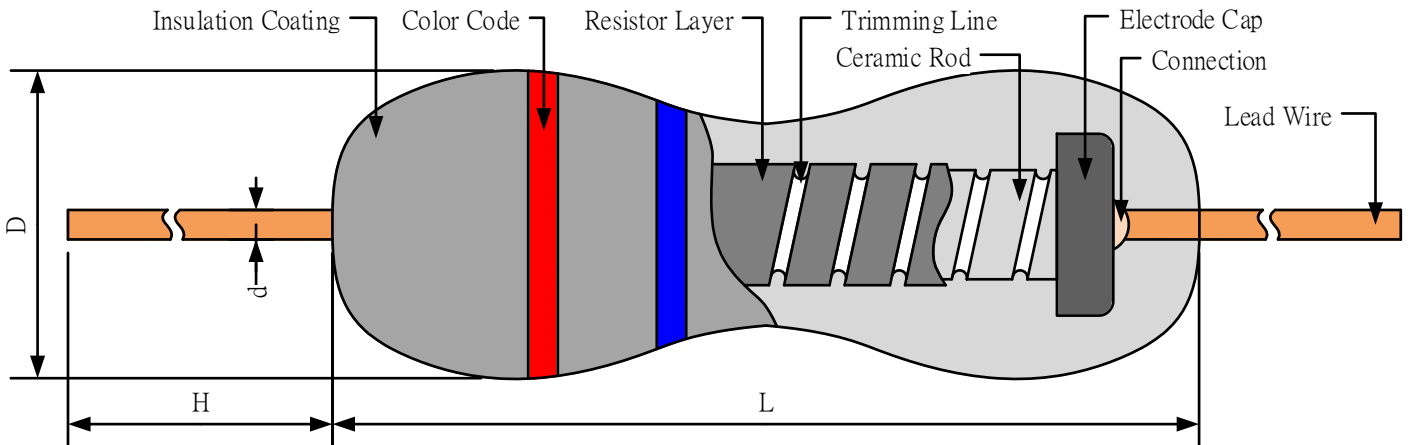


● **PRODUCT FEATURES :**

- ⊙ Excellent Long-Time Stability
- ⊙ Complete Flameproof Construction UL-94V0
- ⊙ Wide Resistance Range: 0.1 Ω~22MΩ
- ⊙ Controlled Temperature Coefficient
- ⊙ Resistance Standard Tolerance : ±5% (Consult Factory For±2% ±1%)
- ⊙ Coating And Marking Resist Trichlorethylene , Freon , And Other Cleaning Agents

● **POWER RATINGS DIMENSIONS**

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



● **Dimensions**

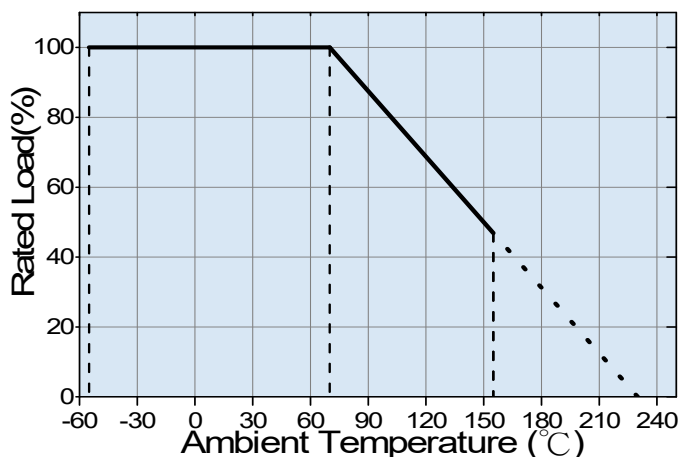
STYLE		DIMENSIONS(mm)				Comment
Normal	Miniature	L	D	H	d	
1/4W	1/2Ws	6.3±0.5	2.3±0.3	28±3.0	0.55±0.03	
1/2W	1Ws	9.0±0.5	3.2±0.5	26±3.0	0.65±0.03	
1W	2Ws	11.5±1.0	4.5±0.5	35±3.0	0.78±0.03	
2W	3Ws	15.5±1.0	5.0±0.5	32±3.0	0.78±0.03	
3W	5Ws	17.5±1.0	6.0±0.5	35±3.0	0.78±0.03	
5W		24.5±1.0	8.0±0.5	35±3.0	0.78±0.03	

● **ELECTRICAL CHARACTERISTICS**

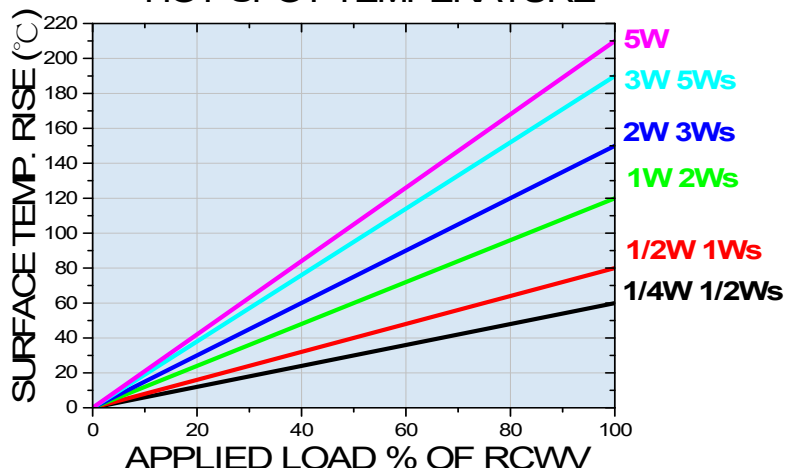
STYLE	1/4W	1/2Ws	1/2W	1Ws	1W	2Ws	2W	3Ws	3W	5Ws	5W
Max. Working Voltage	200V	250V	250V	300V	500V	500V	500V	500V	500V	700V	750V
Max. Overload Voltage	350V	400V	400V	500V	600V	600V	600V	800V	1000V	1000V	1000V
Dielectric Withstanding volt.	350V	350V	350V	400V	500V	500V	500V	600V	750V	750V	750V
Operating Temp. Range	-55°C to +235°C										
TEMP. COEFFICIENT	±300ppm/°C										
Value Range.±1%±2%±5%.	1 Ω~510K Ω , E24 series										

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

●POWER GRAPH



●HOT-SPOT TEMPERATURE



● ENVIRONMENTAL CHARACTERISTICS

PERFORMANCE TEST	TEST METHOD	APPRAISE
Short Time Overload	2.5 times RCWV for 5 seconds	±(1%+0.05Ω) for Normal style ±(2.0%+0.05Ω_ for Miniature style
Temperature Coefficient(T.C.R.)	Resistance value at room (+25°C) Temperature and room Temperature(+125°C)	By Type
Voltage Proof	In V-Block for 60 seconds	By Type
Pulse Overload	4 times RCWV for 10000cycles(1sec.on , 25secs.off)	±10%+0.05 Ω
Insulation Resistance	In V-Block	> 10000MΩ
Load Life	70°C at RCWV for 1000hrs.(1.5hrs. on , 0.5hrs.off)	±(5%+0.05Ω)
Load Life In Humidity	40±2°C 90~95%RH at 0.1 times RCWV for 1000hrs. (1.5hrs. on , 0.5hrs.off)	±(5%+0.05Ω)
Solder Ability	260±5°C for 3±0.5 seconds	95% min. coverage
Resistance To Solvent	IPA for 5±0.5 Min. with ultrasonic	No deterioration of 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) = $\sqrt{\text{Power. Rating.} \times \text{Resistance. Value.}}$

● Resistor body color

- ⊙ Silicone Resin Normal size----- Grey
- ⊙ Silicone Resin Small size-----Pink

● **PART NUMBER:**

MOR/RSF	1/4W	3K	J	TB				
↓	↓	↓	↓	↓				
Type	Power rating		Resistance		Tolerance		Packaging	
Flame Proof	1/4W	1/2Ws	1R	1 Ω	F	± 1%	TB	Taping Box
Metal Oxide	1/2W	1Ws	10R	10 Ω	G	± 2%	TR	Taping Reel
Fixed Resistors	1W	2Ws	100R	100 Ω	J	± 5%	BU	Bulk
	2W	3Ws	1K2	1K2 Ω			F	F-TYPE
	3W	5Ws	1M	1M Ω			M	M-TYPE
	5W		22M	22M Ω			PANA	PANA