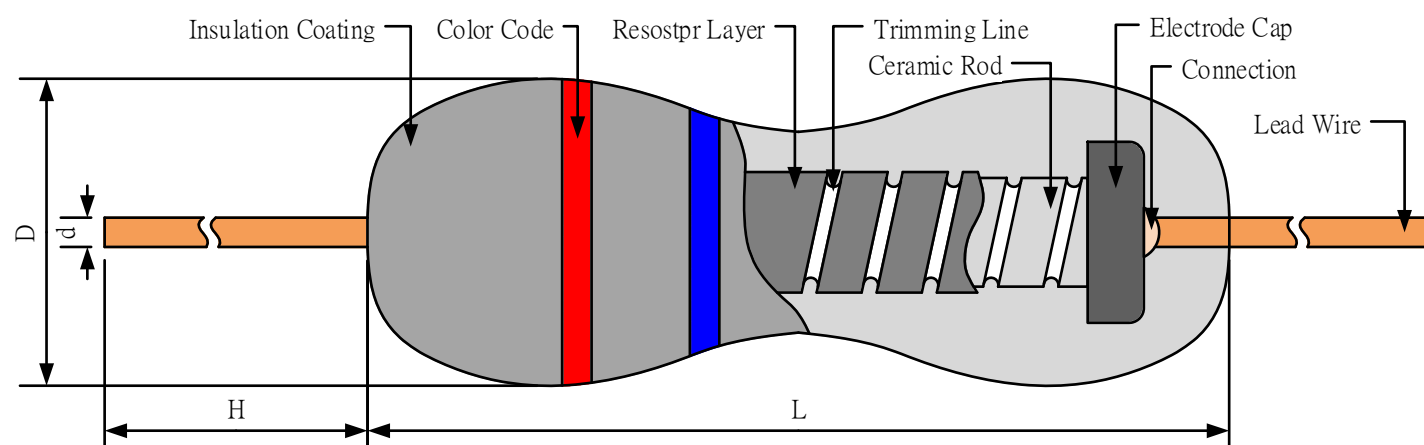


● **PRODUCT FEATURES :**

- ⊙ Lowest Cost
- ⊙ Prompt Delivery
- ⊙ Excellent Long Term Stability
- ⊙ Complete Flameproof Construction UL-94
- ⊙ Wide Resistance Range 0Ω 1~10M Ω
- ⊙ Power Ratings 1/4W~3Ws
- ⊙ Coating And Marking Resist Trichlorethylene , Freon , And Other Cleaning Agents

● **POWER RATINGS DIMENSIONS**



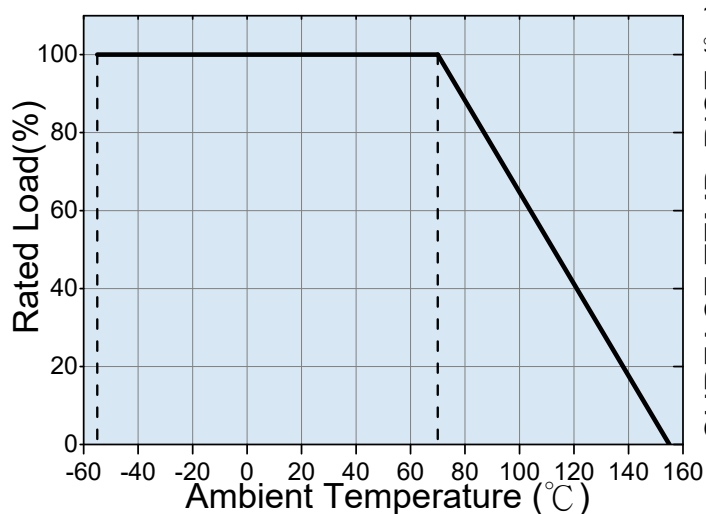
STYLE		DIMENSIONS(mm)				Comment
Normal	Miniature	L	D	H	d	
1/4W	1/2WS	6.3±0.5	2.3±0.3	28±2.0	0.55±0.03	
1/2W	1WS	9.0±0.5	3.2±0.5	26±2.0	0.65±0.03	
1W	2WS	11.5±1.0	4.5±0.5	35±2.0	0.78±0.03	
2W	3WS	15.5±1.0	5.0±0.5	32±2.0	0.78±0.03	

● **ELECTRICAL CHARACTERISTICS**

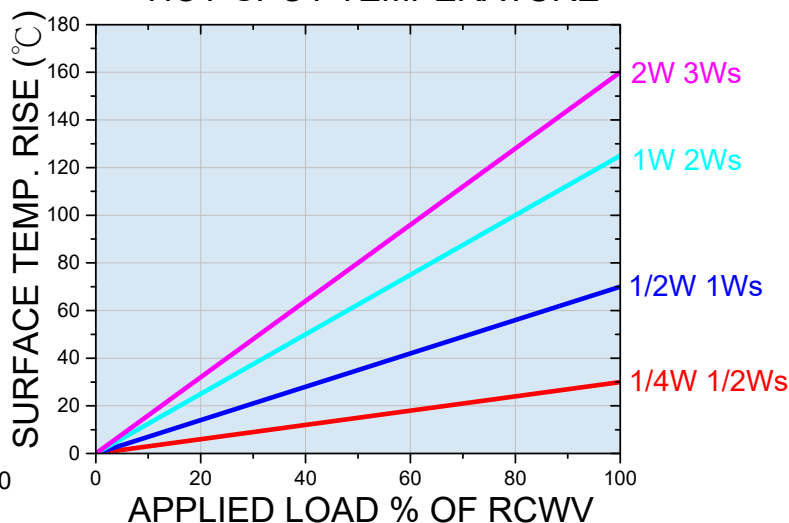
Power rating at 70°C	1/4W	1/2Ws	1/2W	1Ws	1W	2Ws	2W	3Ws
Operating Temp. Range	-55°C to +155°C							
Max. Working Vol.	250	300	350	400	450	500	500	500
Max. Overload Vol.	500	500	700	800	1000	1000	1000	1000
Dielectric Withstanding Vol.	350	350	350	400	500	500	500	600
Value Range , ±5%	0.1 Ω ~0.68 Ω -E6 Series; 1 Ω ~10M Ω -E24 series							

- ★ Rated Continuous Working Voltage (RCWV) = $\sqrt{POWER.RATING. \times RESISTANCE.VALUE}$
- ★ Value Range for standard resistance , below or over this resistance on request.

●POWER GRAPH



●HOT-SPOT TEMPERATURE



● TEMPERATURE COEFFICIENT (T.C.R.)

STYLE	Max. Value of Temp. Coefficient ppm/°C			
	under 1Ω	1Ω to 100KΩ	100KΩ to 1MΩ	1MΩ to 4M7Ω
1W.2Ws.2W. 3Ws	±1500 ppm	±350 ppm	-0ppm -500ppm	-0ppm -1000ppm
1/4W. 1/2Ws. 1/2W.1Ws	±1500 ppm	+350ppm- 500ppm	-0ppm-700ppm	-0ppm-1500ppm

● ENVIRONMENTAL CHARACTERISTICS.

PERFORMANCE TEST	TEST METHOD	APPRAISE
Short Time Overload	2.5 times RCWV for 5 seconds	±(0.75%+0.05Ω)
Temperature Coefficient(T.C.R)	Resistance value at room (+25°C) Temperature and room Temperature(+125°C)	By Type
Dielectric Withstanding Voltage	In V-Block for 60 seconds	By Type
Pulse Overload	4 times RCWV for10000cycles(1sec.on , 25secs.off)	±(1%+0.05Ω)
Insulation Resistance	In V-Block	> 10000MΩ
Load Life	70°C at RCWV for1000hrs.(1.5hrs. on , 0.5hrs.off)	±(3%+0.05Ω)
Load Life In Humidity	40±2°C 90~95%RH at 0.1 times RCWV for1000hrs. (1.5hrs. on , 0.5hrs.off)	Less than 100KΩ±3% 100KΩ or more±5%
Solder Ability	260±5°C for 2±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

● **Resistor body color :**

Flame Proof Silicone Coating-----Grey

● **PART NUMBER:**

FCF	1/4W	3K	J	TB
↓	↓	↓	↓	↓
Type	Power rating	Resistance		Packaging
Flame Proof Carbon Film Fixed Resistors	1/4W	1R	1Ω	TB
	1/2WS	10R	10Ω	TR

	2W	1K2	1K2Ω	BU
	3WS	1M	1MΩ	M
				M-TYPE