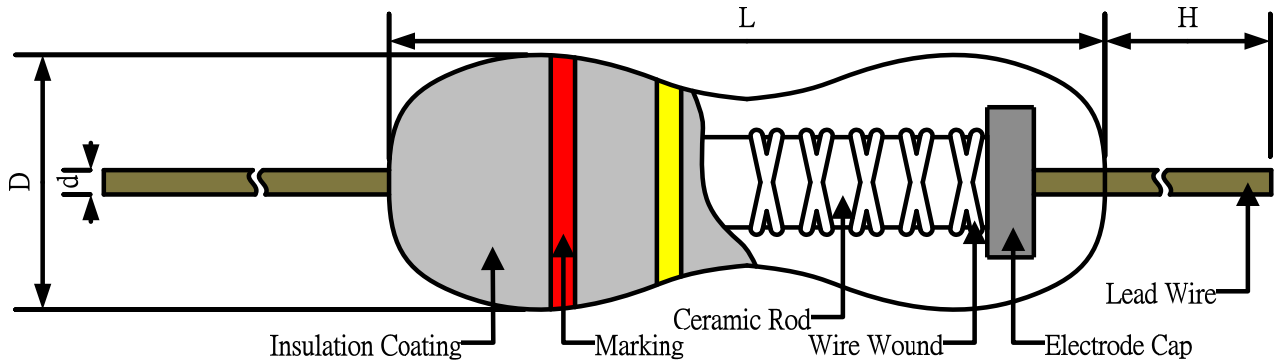


● PRODUCT FEATURES :

- ⊙ Super heat dissipation ; Small linear temperature coefficient
- ⊙ Instant overload capability ; Low noise figure and without annual shift on resistance value
- ⊙ Complete flameproof construction UL-1412
- ⊙ Value Range、 $\pm 5\%$ 、 $\pm 2\%$ 、 $\pm 1\%$
- ⊙ RoHS compliant

● Power ratings Dimensions



- ⊙ Standard Type: 1/2W ~5W
- ⊙ Miniature Type: 1/WS~7WS

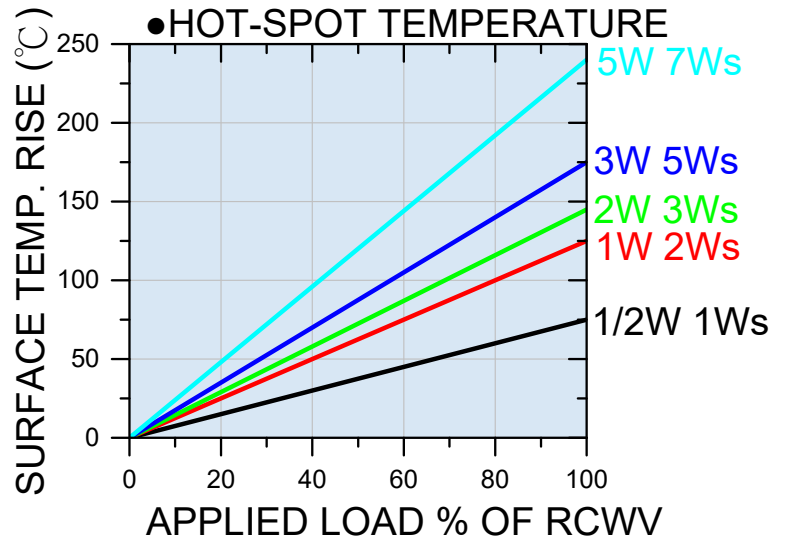
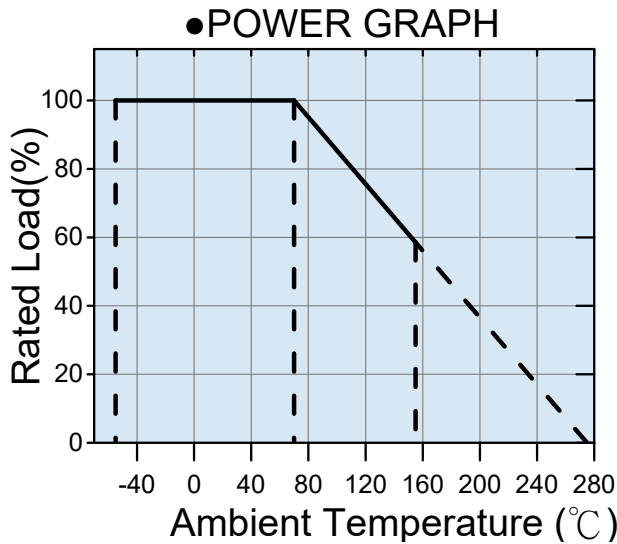
● Dimensions

STYLE		DIMENSIONS(mm)				Value Range
Normal	Miniature	L	D	H	d	
1/2W	1WS	9.0±0.5	3.2±0.5	26±2.0	0.65±0.03	0.08Ω~10Ω
1W	2WS	11.5±1.0	4.5±0.5	35±2.0	0.78±0.03	0.05Ω~22Ω
2W	3WS	15.5±1.0	5.0±0.5	32±2.0	0.78±0.03	0.03Ω~33Ω
3W	5WS	17.5±1.0	6.0±0.5	32±2.0	0.78±0.03	0.1Ω~39Ω
5W	7WS	24.5±1.0	8.0±0.5	38±2.0	0.78±0.03	0.1Ω~47Ω
7W	10WS	40.0±1.0	8.0±0.5	35±3.0	0.78±0.03	0.18Ω~50Ω

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

● ELECTRICAL CHARACTERISTICS

STYLE	1/2W	1W	2W	3W	5W
	1WS	2WS	3WS	5WS	7WS
Operating Temp. Range	-55°C to +350°C				
Resistance Temp. Coeff.	±400PPM/°C				
Dielectric Withstanding volt.	300V		400V		



● ENVIRONMENTAL CHARACTERISTICS

PERFORMANCE TEST	TEST METHOD	APPRAISE
Short Time Overload	Power Rating x 5 for 5 seconds	±(2%+0.05Ω)
Temperature Coefficient	Resistance value at room (+25°C)	By Type
	Temperature and room Temperature(+125°C)	
Dielectric Withstanding Voltage	In V-Block for 60 seconds	By Type
Insulation Resistance	In V-Block	> 100MΩ
Load Life	70°C at RCWV for1000hrs.(1.5hrs. on , 0.5hrs.off)	±(5%+0.05Ω)
Load Life In Humidity	40±2°C 90~95%RH at 0.1 times RCWV for1000hrs. (1.5hrs. on , 0.5hrs.off)	±(5%+0.05Ω)
Solder Ability	260±5°C for 2±0.5 seconds	95% min. coverage
Terminal Strength	Direct load for 10 sec. In the direction off the terminal leads.	Tensile: ≥ 2.5kg
Resistance to Solvent	IPA for 5±0.5 Min. with ultrasonic	No abnormality in coatings and markings.

Reference Standards: IEC 60115-1

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

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

