



Body Color

Standard(Green)

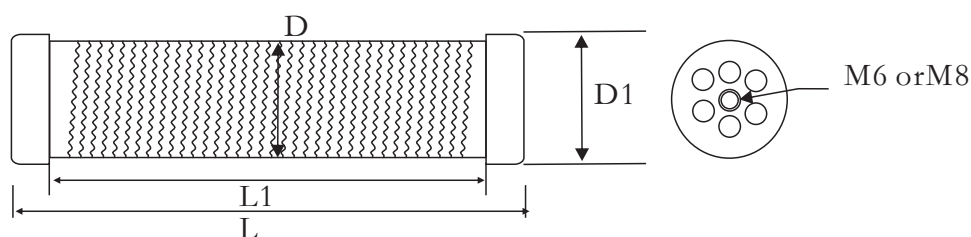
Marking

(According to the customer request to provide corresponding identification)

● Feature

- I Wire wound product structure, no inductance, designed to withstand high current impact
- II Good overload and heat durability capacity , the useful time is longer than the others.
- III Resistance tolerance: $\pm 5\%$ 、 $\pm 10\%$

● Specifications and Dimensions

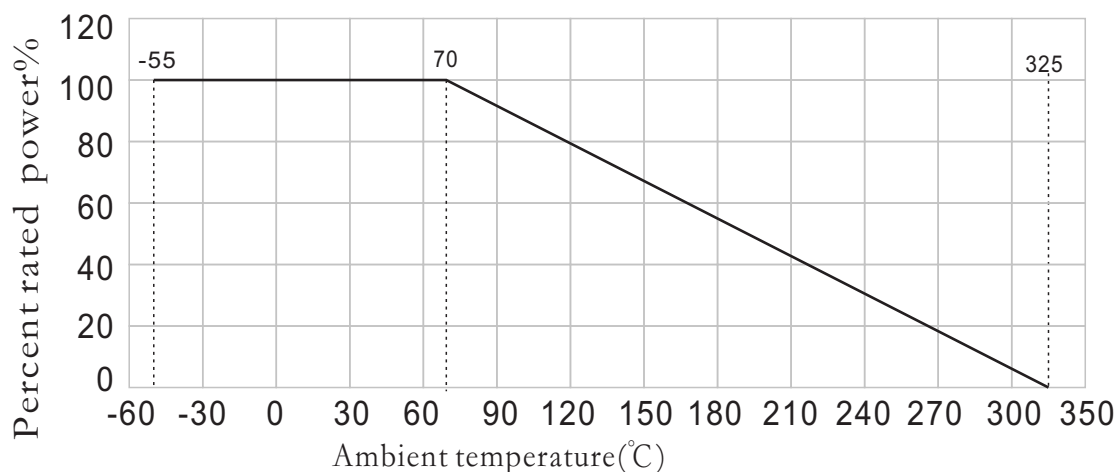


Type	Power	Resistance Range(Ω)	Dimensions (mm)				
			$L \pm 3$	$L1 \pm 3$	$D \pm 1$	$D1 \pm 1$	Terminal
PHR	500W	$1\Omega \sim 100K$	300	250	50	55	M6 or M8
	1000W		300	250	70	75	
	1500W		400	350	80	85	
	2000W		500	450	90	95	
	2500W		600	550	90	95	

● Power And Resistance etc

Type	Power	Resistance Range(Ω)	Tolerance	T.C.R PPM/ $^{\circ}C$	Max Working Voltage (V)	Max Overload Voltage (V)	Operating Temp.Range
PHR	500W	$1\Omega \sim 100K$	$J \pm 5\%$ $K \pm 10\%$	± 350	$\sqrt{P \cdot R}$	$\sqrt{10 P \cdot R}$	$-55^{\circ}C \sim 325^{\circ}C$
	1000W						
	1500W						
	2000W						
	2500W						

Derating Curve



Performance

Test Items	Performance	Test Methods(JIS C 5201-1)
Temperature coefficient	$\pm 350\text{PPM}/^{\circ}\text{C}$	Test resistance value at normal temperature and normal temperature added 100°C , calculate $^{\circ}\text{C}$ resistance value change rate.
Short-time overload	$\Delta R \leq \pm (2\%R_0 + 0.05\Omega)$	According 10 times rated power to account the power or max. overload voltage(get the lower) for 5seconds.
Resistance to soldering heat	$\Delta R \leq \pm (1\%R_0 + 0.05\Omega)$	Immerge into the $350 \pm 10^{\circ}\text{C}$ tin stove for 2~3 seconds
Solderability	Tth soldering area is over 95%	Immerge into the $245 \pm 3^{\circ}\text{C}$ tin stove for 2~3 seconds
Temperature cycle	$\Delta R \leq \pm (2\%R_0 + 0.05\Omega)$	At -55°C for 30min, then at $+25^{\circ}\text{C}$ for 10~15min, then at $+155^{\circ}\text{C}$ for 30min, then at $+25^{\circ}\text{C}$ for 10~5, min, total 5cycles.
Load life in humidity	$\Delta R \leq \pm (5\%R_0 + 0.1\Omega)$	Overload rated voltage or Max.working voltage(get the lower)for 1000hours(1.5hours on and half-hour off) at the $40 \pm 2^{\circ}\text{C}$ and 90~95% relative humidity.
Load life in heat	$\Delta R \leq \pm (5\%R_0 + 0.05\Omega)$	Overload rated voltage or Max.working voltage(get the lower)for 1000hours(1.5hours on and half-hour off) at the $70 \pm 2^{\circ}\text{C}$.
Nonflammability	不可有明显火焰 No visible flame	Respectively load AC voltage by 5,10,16 times rated power for 5 minutes.

Ordering Information

example

PHR	1000	J	10R00	M6
Product Name	Power	Tol	Ohm	Terminal
Painted High Power Ceramic Tube Resistors	500=500W 1000=1000W 1500=1500W 2000=2000W 2500=2500W	$J = \pm 5\%$ $K = \pm 10\%$	1R00=1Ω 10R00=10Ω 10K00=10KΩ 100K00=100KΩ	M6=M6 M8=M8