

MNW Aluminum Encased Wire-wound Resistor

Catalogue

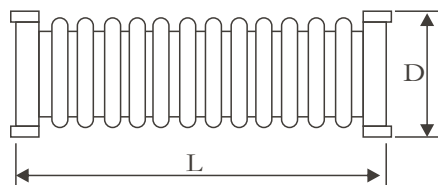
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Features

- I Small volume, big power, heat resistance, is suitable for mechanical and electrical equipment, shell made of alumina or aluminum alloy shell, the maximum to adapt to the environment ,high reliability, high temperature resistance, high pressure resistance.
- II Applicable to electric power, locomotive, electrical and mechanical equipment, high-frequency device on power absorbing element or load.

Dimensions, Applications And Ratings



Type	Rate Power(W)	Shock Power(W)	Limiting Voltage(V)	Pulse Voltage(V)	Insulation Voltage(MΩ)	Resistance Range(Ω)	Resistance Tolerance (%)	Dimensions(mm)		
								D	L	M
MNW	200	300	4000	5KV	1000	5R1~2K	G ± (2%) J ± (5%) K ± (10%)	51	165	6
	300	400	4000	5KV	1000	5R1~3K		66	165	8
	400	600	4000	6KV	1000	5R1~4K7		51	265	6
	600	800	4000	8KV	1000	5R1~6K8		68	253	10
	600	800	4000	8KV	1000	6R8~10K		85	230	12
	600	800	4000	10KV	1000	5R1~7K5		66	265	12
	800	1000	4000	10KV	1000	10R~12K		85	270	12

Ordering Information

Example:

MNW	200	J	1K00
(1)	(2)	(3)	(4)
Series Name	Power Rating	Resistance Tolerance	Resistance

(1)Type: MNW SERIES

(2)Power Rating: 200=200W、 300=300W、 400=400W、 600=600W、 800=800W

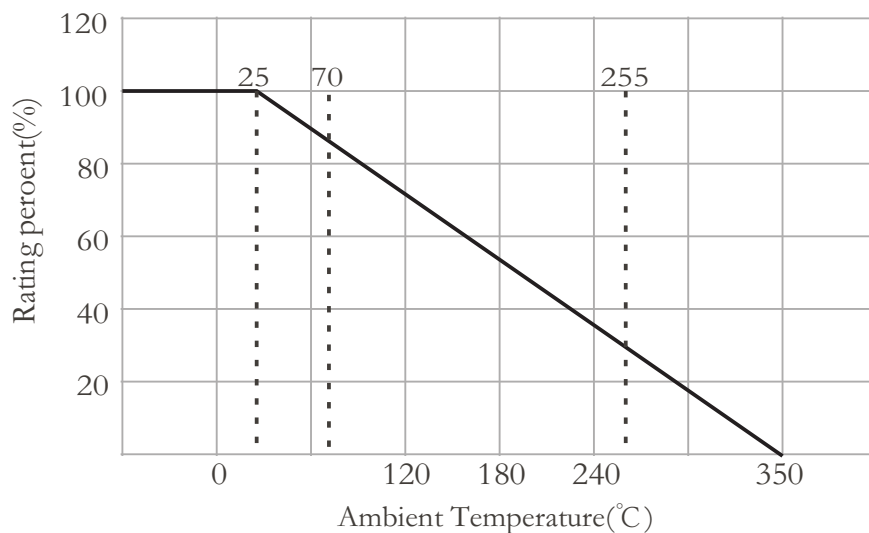
(3)Tolerance:G= ± 2%、 J= ± 5%、 K= ± 10%

(4)Resistance Value:1K00=1KΩ

Reference Standards

JISC 5201-1

Derating Curve



Performance

Test Items	Performance Requirements	Test Methods(JIS C 5201-1)
Insulation Voltage	No spark-over	DC 2000V or peak value for 50H
Insulation Resistance	>1000MΩ	500V DC voltage
Vibratious	$\Delta R \leq \pm (1\%R + 0.05\Omega)$	Frequency 10-500Hz, acceleration 98m/s ² , 1h
Bump	$\Delta R \leq \pm (2\%R + 0.05\Omega)$	Frequency 40-80 times/min, acceleration 245m/s ² , 2000 times
Temperature Rise	$\leq 325^\circ\text{C}$	Add rated power
Fast Temperature Change	$\Delta R \leq \pm (2\%R + 0.1\Omega)$	-55°C, +200°C, 5 cycles
Dampheat, steady state	$\Delta R \leq \pm (2\%R + 0.1\Omega)$	Temperature 40 ± 2°C, temperature 93 ± 2°C, 56h
Overload	$\Delta R \leq \pm (2\%R + 0.1\Omega)$	Add 10 time of rated power for 5s
Endurace at room temperature	$\Delta R \leq \pm (2\%R + 0.1\Omega)$	Add rated power load 1000h under the room tmeperature