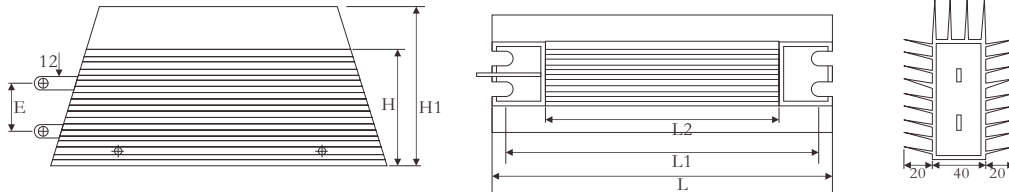


● Features

- I Aluminum crust surface with good performance in heat radiation, suitable for cooling plate installation, can be used in the atrocious environment.
- II Small size, high power load.
- III High insulating capacity, encapsulation by non-flame inorganic material, good performance in vibration.
- IV Multi connection form will be easy to fix.
- V Widely used in power supply, Transducer, Elevator, Arena audio and high requirement equipment industry.
- VI Resistance tolerance: $\pm 1\%$, $\pm 2\%$, $\pm 5\%$, $\pm 10\%$.

● Dimensions



Type	Power (W)	Dimensions(mm)					
		L ± 1	L1 ± 1	L2 ± 0.5	E ± 1	H ± 1	H1 ± 10
MNK	800	260	346	208	38	100	130
	1000	320	306	268	38	100	130
	1200	320	306	268	38	100	130
	1500	380	366	328	38	100	130
	1800	450	436	398	38	100	130

● Ordering Information

Example:

MNK	600	J	10R0
(1)	(2)	(3)	(4)
Series Name	Power Rating	Resistance Tolerance	Resistance

(1)Type: MNK SERIES

(2)Power Rating: 800=800W、1000=1000W、1200=1200W、1500=1500W、1800=1800W

(3)Tolerance: J= $\pm 5\%$

(4)Resistance Value: R100=0.1 Ω , 1R00=1 Ω , 10R0=10 Ω

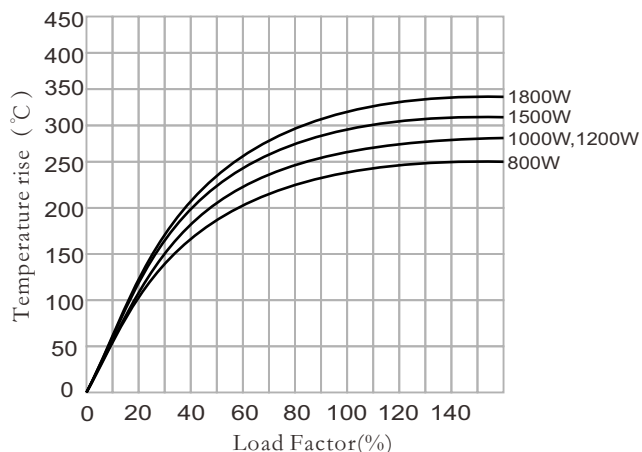
● Reference Standards

JISC 5201-1

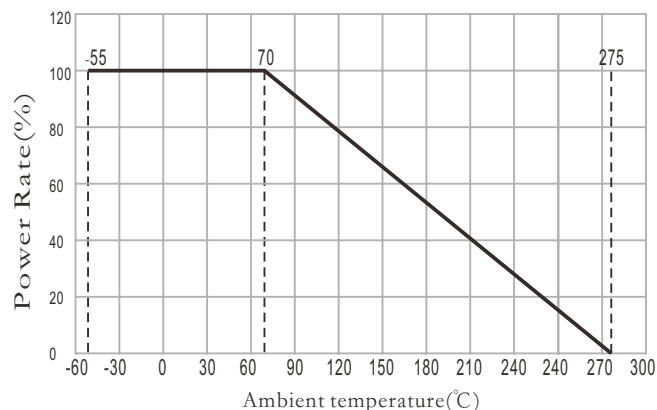
● Applications And Ratings

Rated Power (W)	Resistance Range(Ω)		Tolerance	T.C.R	Max Working Voltage	Max Overload Voltage	Dielectric Withstanding Voltage
	Standard	Non-inductive					
800	1 Ω ~30K	1~2K	J $\pm 5\%$	$\pm 300\text{PPM}/^\circ\text{C}$	$\sqrt{P \cdot R}$	$\sqrt{10 \cdot P \cdot R}$	2500V/Ac
1000	1 Ω ~30K	1~2K					
1200	1 Ω ~30K	1~2K					
1500	1 Ω ~30K	1~2K					
1800	1 Ω ~36K	1~2K					

Surface Temperature Rise



Derating Curve



Performance

Test Items	Performance	Test Methods(JIS C 5201-1)
Resistance and resistance range	$R \geq 1\Omega \pm 5\%$ $R < 1\Omega \pm 10\%$	Accordance with JIS-C-5202 5.1
Temperature Coefficient	$R > 20\Omega, \pm 260 \text{ ppm}/^\circ\text{C}$ $R \leq 20\Omega, \pm 400 \text{ ppm}/^\circ\text{C}$	To run within temperature range $-25 \sim 200^\circ\text{C}$.
Rating load	Superficial temperature $\leq 375^\circ\text{C}$	Correctly mounted on $300 \times 300 \times 3\text{mm}$ plate aluminium
Short time overload	No abnormality $\Delta R \leq \pm (2\%R + 0.05\Omega)$	Application of 10 times higher than rating voltage for 5 seconds under the same environment,
Insulation resistance	No abnormality $R \geq 100\text{M}\Omega$	Insulation resistance shall be $100 \text{ M}\Omega$ or higher between terminal and case when measured with DC 500V insulation resistance tester,
Withstand voltage	No abnormality ,no destroying $\Delta R \leq \pm (0.1\%R + 0.05\Omega)$	No abnormality shall be found when AC 2500V applied between terminal and case for 1 min,
Terminal strength	No abnormal or Loosing	A static load of 100N in the direction of terminal for 30 seconds,
Vibration proof	No abnormal $\Delta R \leq \pm (0.1\%R + 0.05\Omega)$	No mechanical damage shall be observed where vibration applied in a cycle of 10~55HZ 1.5mm wide in the three directions for 1 minute, keeping 2 hours in each direction.
Heat tolerance	No colour changed and abnormality except terminal, sign clear	Where the device is heated to $350 \pm 5^\circ\text{C}$ with no load for 120 ± 5 minutes
Thermal shock	No abnormality $\Delta R \leq \pm (2\%R + 0.05\Omega)$	Apply rating power for 30 minutes, on reaching thermal stability ,within 8-12 s, expose to $-40 \pm 2^\circ\text{C}$ for 15+5 minutes, then constant temperature, 2 hours.
Moisture resistance life	No damage, Sign clear, Insulation resistance $\Delta R \leq \pm (3\%R + 0.05\Omega)$ $\Delta R \leq \pm (3\%R + 0.05\Omega)$ $R \geq 25\text{M}\Omega$	DC voltage of 100V at $40 \pm 2^\circ\text{C}$ at relative humidity 90-95% shall be applied for 1 hour, then cycled off for less than 0.5 hours , for 500+24 hours,
Load life	No damage, Sign clear $\Delta R \leq \pm (5\%R + 0.05\Omega)$	Correctly mounted on $300 \times 300 \times 3\text{mm}$ plate aluminum, rating DC voltage shall be applied at $20 \pm 7^\circ\text{C}$, 90 minutes on 30 minutes off, then cycled for 500+24 hours,