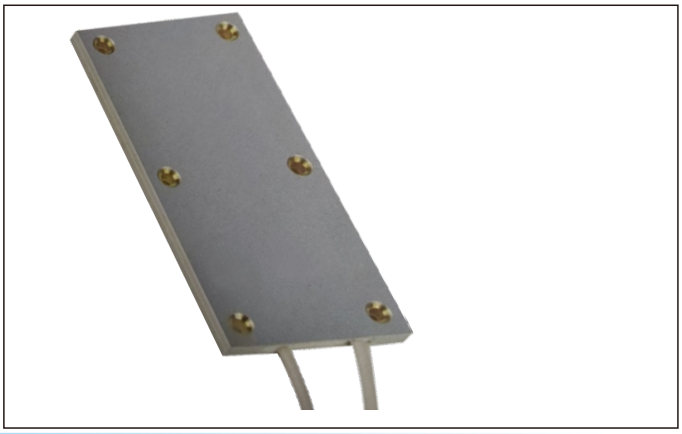
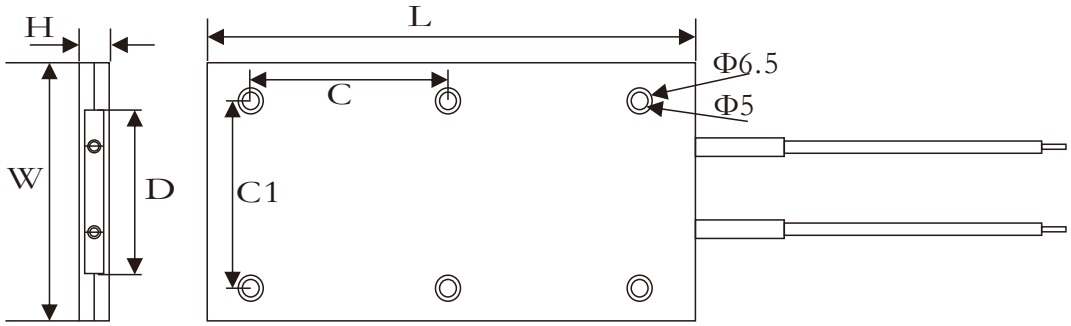
MNI Aluminum Shell Resistor



Feature

1、Aluminum crust surface with good performance in heat radiation, suitable for cooling plate installation, can be used in the atrocious environment.
2、Small size, high power load.
3、High insulating capacity, encapsulation by non-flame inorganic Material, good performance in vibration.
4、Multi connection form will be easily to fix.
5、Widely used in power supply, Transducer , Elevator , Arena audio and high requirement equipment industry.
6、Resistance tolerance: ± 5%, ± 10%.

Dimensions



Type	Power (W)	Dimensions(mm)					
		L±1	W±1	D±0.5	H±0.5	C±0.5	C1±0.5
MNI	50	69	60	36	6	53	44
	100	122	60	36	6	53	44
	150	160	60	36	6	65	44

Power And Resistance etc

Rated Power (W)	Resistance Range(Ω)	Tolerance	T.C.R	Max Working Voltage	Max Overload Voltage	Dielectric Withstanding Voltage
50	1R~500R	J±5% K±10%	±300PPM/℃	$\sqrt{P \cdot R}$	$\sqrt{10 \cdot P \cdot R}$	1000V/Ac
100						
150						

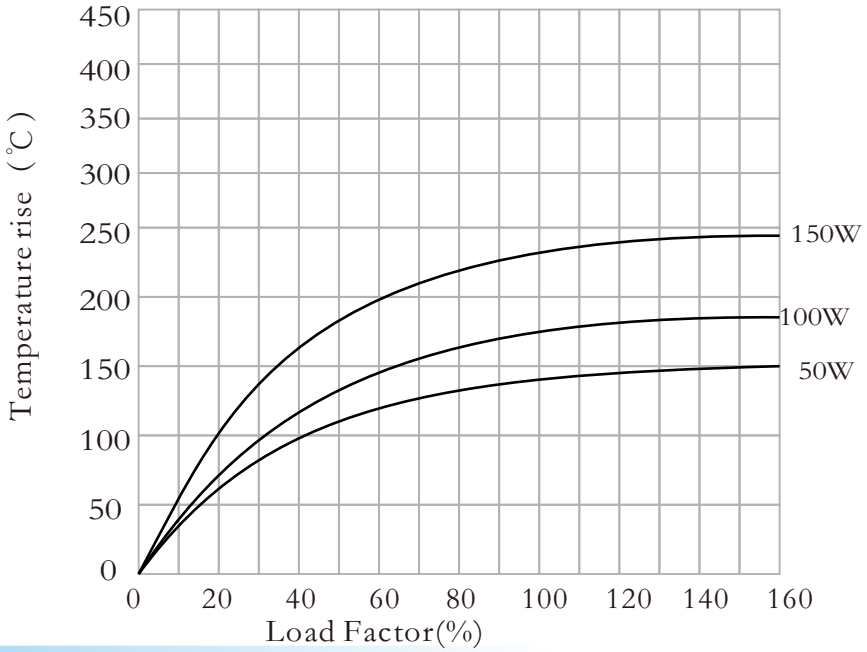
Ordering Information

Example:

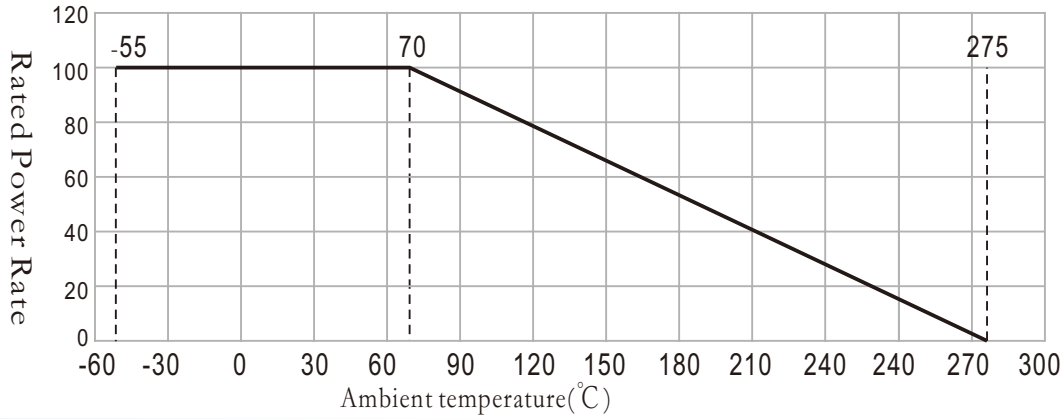
MNI	50	J	10R0
(1)	(2)	(3)	(4)
Series Name	Power Rating	Tolerance	Resistance

(1)Type: MNI SERIES
(2)Power Rating: 50=50W、100=100W、150=150W
(3)Tolerance: J=±5%、K=±10%
(4)Resistance Value:R100=0.1Ω,1R00=1Ω,10R0=10Ω

Temperature rising curve



Derating Curve



Performance

Test Items	Performance	Test Methods(JIS C 5201-1)
Temperature coefficient	±300ppm/℃	Test resistance value at normal temperature and normal temperature added 100℃, calculate ℃ resistance value change rate.
Short time overload	△R≤±(2%R0+0.1Ω)	10X rated power or Max. overload voltage(get the lower) for 5seconds.
Resistance to soldering heat	△R≤±(1%R0+0.05Ω)	Immerge into the 350±10℃ tin stove for 2~3 seconds
Dielectric withstanding voltage	No obvious mechanical damage or spark-over	Apply an AC voltage of 1000V for 1 minute using the foil wrapping method.
Temperature cycle	△R≤±(1%R0+0.05Ω)	At-55℃ for 30min, then at +25℃ for 10~15min,then at +125℃ for 30min, then at +25℃ for 10~5, min,total 5cycles.
Load life in humidity	△R≤±(3%R0+0.05Ω)	Overload rated voltage or Max.working voltage(get the lower)for 1000hours (1.5hours on and half-hour off) at the 40±2℃ and 90~95% relative humidity.
Load life in heat	△R≤±(3%R0+0.05Ω)	Overload rated voltage or Max.working voltage(get the lower) for 1000hours(1.5hours on and half-hour off) at the 70±2℃.
Terminal strength	△R≤±(2%R0+0.1Ω)	Apply 8 kilograms of force to the lead-out direction for 30 seconds, resulting in no significant mechanical damage
Vibration	△R≤±(2%R0+0.1Ω)	Frequency:10~55Hz, Swing:1.5mm,Test time:2hours
Nonflammability	No visible flame	Respectively load AC voltage by 1~6 times rated power for 5 minutes.