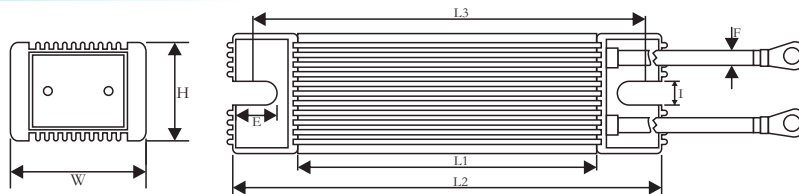


MNB 梯型铝壳电阻 Trapezoid Aluminum Shell Resistor



本体颜色: Body Color
 标准品: Standard(Silver 银色)
 标示: Marking
 文字: Alphanumeric
 (根据客户要求提供相应标识)
 (According to the customer request to provide corresponding identification)

外形尺寸 Dimensions



规格 Type	功率 Power (W)	尺寸Dimensions(mm)							
		L1±2	L2±2	L3±3	W±1	H±1	F	E±1	I
MNB	40	65	95	80	40	20	0.75mm ²	12	5
MNB	60	85	115	100	40	20	0.75mm ²	12	5
MNB	80	110	140	125	40	20	0.75mm ²	12	5
MNB	100	135	165	150	40	20	0.75mm ²	12	5
MNB	120	160	185	170	40	20	0.75mm ²	12	5
MNB	150	185	215	200	40	20	0.75mm ²	12	5
MNB	200	120	165	150	60	30	0.75mm ²	12	6
MNB	300	170	215	200	60	30	1.5mm ²	12	6
MNB	400	220	265	250	60	30	1.5mm ²	12	6
MNB	500	310	335	320	60	30	1.5mm ²	12	6
MNB	600	310	335	320	60	60	1.5mm ²	12	6
MNB	800	360	400	380	60	60	1.5mm ²	12	6
MNB	1000	360	400	385	50	107	2.0mm ²	12	6
MNB	1200	410	450	435	50	107	2.0mm ²	12	6
MNB	1500	450	485	470	50	107	2.0mm ²	12	6
MNB	2000	510	550	530	50	107	2.0mm ²	12	6

特性 Feature

- 金属铝壳包封，散热性能好、适合散热板安装,可长期在恶劣环境下使用。
Aluminum crust surface with good performance in heat radiation, suitable for cooling plate installation, can be used in the atrocious environment.
- 体积小、功率负荷大
Small size, high power load.
- 绝缘性高，采用阻燃无机材料一体化封装，抗振性好。
High insulating capacity, encapsulation by non-flame inorganic Material, good performance in vibration.
- 多种接线方式，便于安装
Multi connection form will be easily to fix.
- 广泛用于电源、变频器、电梯、舞台音响及高端设备行业。
Widely used in power supply, Transducer, Elevator, Arena audio and high requirement equipment industry.
- 精度范围: ±1%, ±2%, ±5%, ±10%。
Resistance tolerance: ±1%, ±2%, ±5%, ±10%.

MNB 梯形铝壳电阻 Trapezoid Aluminum Shell Resistor

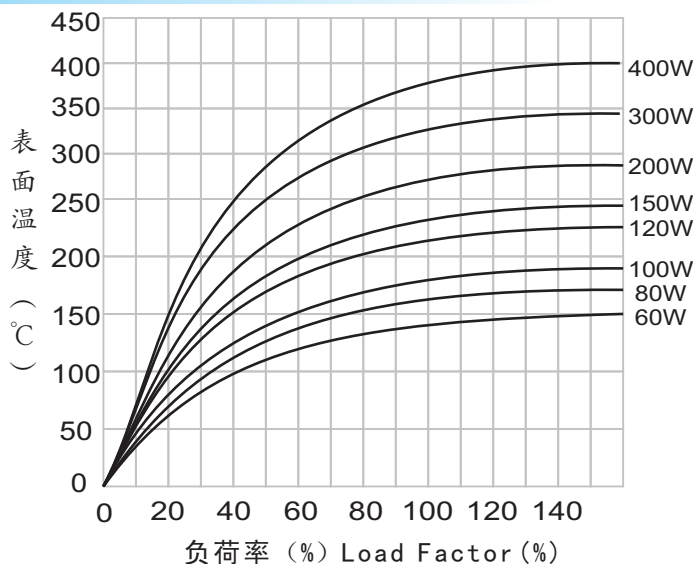
参考规格 Reference Standards

JIS C 5201-1

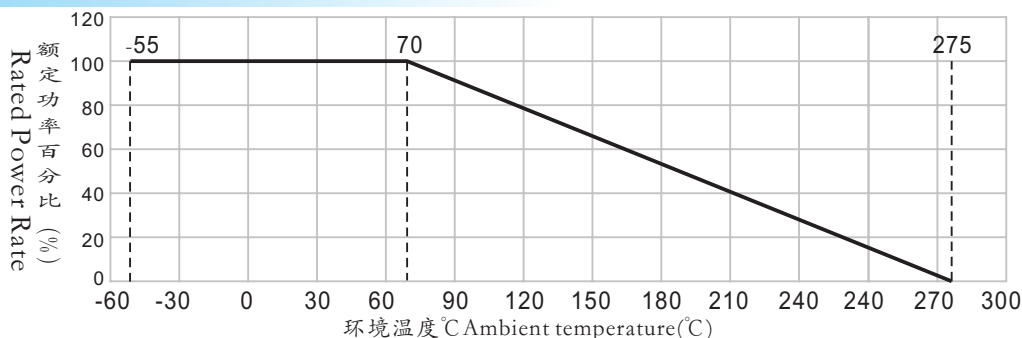
功率、阻值范围与耐电压 Power And Resistance etc

额定功率 Rated Power (W)	阻值范围 Resistance Range(Ω)		误差值 Tolerance	温度系数 T.C.R	最高使用电压 Max Working Voltage	最高负荷电压 Max Overload Voltage	耐电压 Dielectric Withstanding Voltage
	标准型 Standard	无感型 Non-inductive					
40	1 Ω ~5K	0.1~200 Ω	J \pm 5%	\pm 300PPM/ $^{\circ}$ C	$\sqrt{P \cdot R}$	$\sqrt{10 \cdot P \cdot R}$	1500V/Ac
60	1 Ω ~5K	0.1~200 Ω					
80	1 Ω ~6K	0.2~200 Ω					
100	1 Ω ~8K	0.2~500 Ω					
120	1 Ω ~10K	0.2~500 Ω					
150	1 Ω ~12K	0.2~1000 Ω					
200	1 Ω ~15K	0.2~1500 Ω					2000V/Ac
300	1 Ω ~18K	0.5~1500 Ω					
400	1 Ω ~20K	0.5~1500 Ω					
500	1 Ω ~25K	0.5~1500 Ω					2500V/Ac
600	1 Ω ~30K	1~2K					
800	1 Ω ~30K	1~2K					
1000	1 Ω ~50K	1R~3K Ω					
1200	1 Ω ~100K	1R~3K Ω					
1500	1 Ω ~100K	1R~3K Ω					
2000	1 Ω ~100K	1R~3K Ω					

表面温升曲线 Temperature rising curve



降功耗曲线 Derating Curve



MNB 梯型铝壳电阻 Trapezoid Aluminum Shell Resistor

性能 Performance

试验项目 Test Items	性能 Performance	试验方法 Test Methods(JIS C 5201-1)
温度系数 Temperature coefficient	$\pm 300\text{ppm}/^{\circ}\text{C}$	在常温及常温+100°C时分别测量电阻并计算每度的阻值变化率。 Test resistance value at normal temperature and normal temperature added 100°C, calculate °C resistance value change rate.
短时间过负荷 Short time overload	$\Delta R \leq \pm (2\%R_0 + 0.05\Omega)$	施加10倍额定功率或最高负荷电压(取较小者)5秒 10X rated power or Max. overload voltage(get the lower) for 5seconds.
耐焊接热 Resistance to soldering heat	$\Delta R \leq \pm (1\%R_0 + 0.05\Omega)$	在350±10°C的锡炉中浸入2~3秒。 Immerge into the 350±10°C tin stove for 2~3 seconds
耐电压 Dielectric withstanding voltage	无显著的机械损伤, 无击穿和飞弧现象	采用包箔法, 施加交流1500V或2000V或2500V的电压1分钟。
温度循环 Temperature cycle	$\Delta R \leq \pm (1\%R_0 + 0.05\Omega)$	在-55°C时放置30分钟, 然后在+25°C时放置10~15分钟, 然后再在+125°C时放置30分钟, 然后在25°C时放置10~15分钟, 共循环5次。At-55°C for 30min, then at +25°C for 10~15min, then at +125°C for 30min, then at +25°C for 10~15 min, total 5cycles.
耐湿负荷寿命 Load life in humidity	$\Delta R \leq \pm (3\%R_0 + 0.05\Omega)$	在温度为40±2°C, 相对湿度为90~95%的恒温恒湿箱中, 施加额定电压或最大工作电压(取较小者)共1000小时(通1.5小时, 断0.5小时)。Overload rated voltage or Max.working voltage(get the lower)for 1000hours(1.5hours on and half-hour off) at the 40±2°C and 90~95% relative humidity.
耐温负荷寿命 Load life in heat	$\Delta R \leq \pm (3\%R_0 + 0.05\Omega)$	在70±2°C恒温恒湿箱中施加额定电压或最大工作电压(取较小者)共1000小时(通1.5小时, 断0.5小时)。Overload rated voltage or Max.working voltage(get the lower) for 1000hours(1.5hours on and half-hour off) at the 70±2°C.
引出端强度 Terminal strength	$\Delta R \leq \pm (2\%R_0 + 0.1\Omega)$	拉力 Pull:100N
振动 Vibration	$\Delta R \leq \pm (2\%R_0 + 0.1\Omega)$	频率 Frequency:10~55Hz, 振幅 Swing:0.75mm, 测试时间 Test time:6hours
难燃性 Nonflammability	不可有明显火焰 No visible flame	分别按5、10、16倍额定功率加交流负荷5分钟。 Respectively load AC voltage by 5,10,16 times rated power for 5 minutes.

料号编号 ordering Information

例 example

型号Type	额定功率 Rated Power	误差值 Tolerance	电阻值(Ω) Resistance	直线 Straight length
MNB	300	J	10R0	S200
梯型铝壳电阻 Trapezoid Aluminum Shell Resistor	60:60W 100:100W 300:300W 800:800W	J ± 5%	R100=0.1 1R00=1 10R0=10 1000=100 1001=1K	S200:200mm Straight length