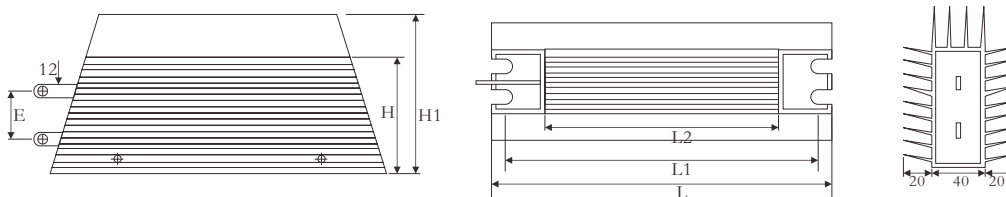


MNK 铝壳电阻 Aluminium Shell Resistor



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)					
		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

特性 Feature

- 1、金属铝壳封装，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.
- 2、体积小、功率负荷大
Small size, high power load.
- 3、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.
- 4、多种接线方式，便于安装
Multi connection form will be easily to fix.
- 5、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.
- 6、精度范围:±1%,±2%,±5%,±10%。
Resistance tolerance: ±1%, ±2%, ±5%, ±10%.

参考规格Reference Standards

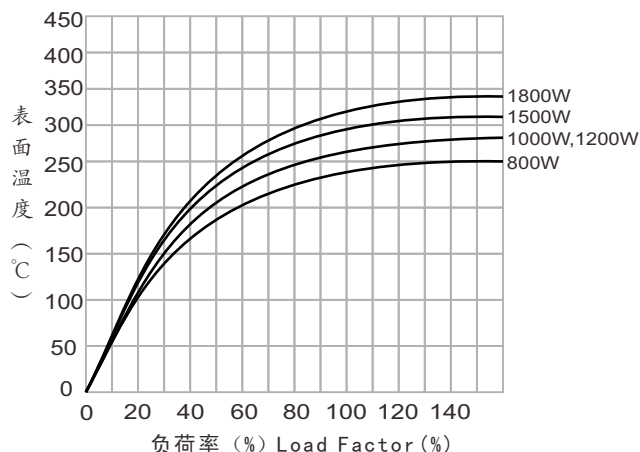
JIS C 5201-1

功率、阻值范围与耐电压Power And Resistance etc

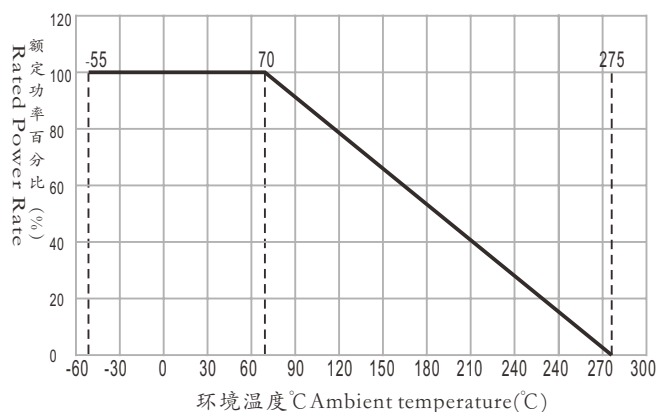
额定功率 Rated Power (W)	阻值范围 Resistance Range(Ω)		误差值 Tolerance	温度系数 T.C.R	最高使用电压 Max Working Voltage	最高负荷电压 Max Overload Voltage	耐电压Dielectric Withstanding Voltage
	标准型 Standard	无感型 Non-inductive					
800	1Ω~30K	1~2K	J ± 5%	± 300PPM/°C	$\sqrt{P \cdot R}$	$\sqrt{10 \cdot P \cdot R}$	2500V/Ac
1000	1Ω~30K	1~2K					
1200	1Ω~30K	1~2K					
1500	1Ω~30K	1~2K					
1800	1Ω~36K	1~2K					

MNK 铝壳电阻 Aluminium Shell Resistor

● 表面温升曲线 Temperature rising curve



● 降功耗曲线 Derating Curve



● 性能 Performance

试验项目 Test Items	性能 Performance	试验方法 Test Methods(JIS C 5201-1)
电阻值以及变化范围 Resistance and resistance variance	$R \geq 1\Omega \pm 5\%$ $R < 1\Omega \pm 10\%$	遵守JIS-C-5202 5.1 Accordance with JIS-C-5202 5.1
温度系数 Resistor temperature Coefficient	$R > 20\Omega, \pm 260 \text{ ppm}/^\circ\text{C}$ $R \leq 20\Omega, \pm 400 \text{ ppm}/^\circ\text{C}$	在 $-25 \sim 200^\circ\text{C}$ 温度下实验, To run within temperature range $-25 \sim 200^\circ\text{C}$.
额定负载 Rating load	表面温度 $\leq 375^\circ\text{C}$ Superficial temperature $\leq 375^\circ\text{C}$	放置在 $300 \times 300 \times 3\text{mm}$ 铝板上, Correctly mounted on $300 \times 300 \times 3\text{mm}$ plate aluminium
短时过载 Short term overload	无异常 $\Delta R \leq \pm (2\%R + 0.05\Omega)$ No abnormality $\Delta R \leq \pm (2\%R + 0.05\Omega)$	同样环境下, 10倍额定电压, 5秒, Application of 10 times higher than rating voltage for 5 seconds under the same environment,
绝缘电阻 Insulation resistance	无异常 $R \geq 100\text{M}\Omega$ No abnormality $R \geq 100\text{M}\Omega$	直流500V, 焊片和外壳之间的绝缘电阻要求大于或等于 $100\text{M}\Omega$. Insulation resistance shall be $100 \text{ M}\Omega$ or more between terminal and case when measured with DC 500V insulation resistance tester,
耐压 Withstand voltage	无异常 无破坏 $\Delta R \leq \pm (0.1\%R + 0.05\Omega)$ No abnormality, no destroying $\Delta R \leq \pm (0.1\%R + 0.05\Omega)$	焊片与外壳之间加交流电压2500V, 1分钟, No abnormality shall be found when AC 2500V applied between terminal and case for 1 min,
焊片强度 Terminal strength	无异常 无松动 No abnormal or Loosing	100N力加在焊片引出方向, 30秒, A static load of 100N in the direction of terminal for 30 seconds,
振动 Vibration proof	无异常 $\Delta R \leq \pm (0.1\%R + 0.05\Omega)$ No abnormal $\Delta R \leq \pm (0.1\%R + 0.05\Omega)$	10~55 HZ, 1.5mm振幅, 三个方向, 一个周期1分钟。每个方向上持续2小时, 无机械损伤。 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.
耐热性 Heat tolerance	除焊片外, 无颜色变化, 标记清晰。 No colour changed and abnormality except terminal, sign clear	无负载, 加热至 $350 \pm 5^\circ\text{C}$, 120 $\pm$ 5分钟 Where the device is heated to $350 \pm 5^\circ\text{C}$ with no load for 120 $\pm$ 5 minutes
热冲击 Thermal shock	无异常 $\Delta R \leq \pm (2\%R + 0.05\Omega)$ No abnormality $\Delta R \leq \pm (2\%R + 0.05\Omega)$	额定电压30分钟, 常温, 8-12秒放到 $-40 \pm 2^\circ\text{C}$ 环境下, 15+5分钟。再在常温下放置2小时。 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.
耐湿性 Moisture resistance life	无损伤, 标记清晰, 绝缘阻值 $\Delta R \leq \pm (3\%R + 0.05\Omega)$ $\Delta R \leq \pm (3\%R + 0.05\Omega)$ $R \geq 25\text{M}\Omega$ No damage, Sign clear, Insulation resistance $\Delta R \leq \pm (3\%R + 0.05\Omega)$ $\Delta R \leq \pm (3\%R + 0.05\Omega)$ $R \geq 25\text{M}\Omega$	直流电压100V, $40 \pm 2^\circ\text{C}$, 相对湿度90-95%, 60分钟开, 30分钟关, 持续500+24小时, 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,
负载寿命 Load life	无损伤, 标记清晰 $\Delta R \leq \pm (5\%R + 0.05\Omega)$ No damage, Sign clear $\Delta R \leq \pm (5\%R + 0.05\Omega)$	放置在 $300 \times 300 \times 3\text{mm}$ 铝板上, $20 \pm 7^\circ\text{C}$, 额定直流电压, 90分钟开, 30分钟关, 循环500+24小时, Correctly mounted on $300 \times 300 \times 3\text{mm}$ plate aluminium, 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,

● 料号编号 ordering Information

例 example

MNK	800	J	10R0
型号Type	额定功率 Rated Power	误差值 Tolerance	电阻值 (Ω) Resistance
铝壳电阻 Aluminium Shell Resistor	800:800W 1000:1000W 1200:1200W 1500:1500W	$J \pm 5\%$	$R100=0.1$ $R100=1$ $R100=10$