

铝壳电阻器(RXLG) Aluminum Enclosure Resistor

■ 产品概述(Product Introduction)

RXLG 系列铝壳绕线电阻器采用铝合金外壳,外形美观,该电阻具有耐气候性、耐振动、安全性优于传统瓷骨架电阻器。RXLG 电阻器是用一种耐高温的有机硅树脂和硅粉作基本材料封装的功率型绕线电阻。易紧密安装,易附加散热器。

RXLG series aluminum shell winding resistor using alloy enclosure, beautiful shape, beautiful shape, the resistance have the weather resistance, vibration resistance security is super to the traditional porcelain skeleton resistor resistor



■ 产品应用(Product Application)

1. 做为制动电阻保护变频器、伺服等不受电机再生电能的危害;
2. 电力电子负载测试中做为阻性负载;
3. 在电力电子设备中做为取样电阻、限流电阻、起动电阻、保护电阻。
1.As a braking resistor to protect the inverters, servos, etc, from damage by regenerative energy of the motor;
2.As a resistive load in power electronic load tests;
3.As a sampling resistor, limiting resistor, starting resistor, or protective resistor in power electronic equipment.

■ 技术规格(Technical Specifications)

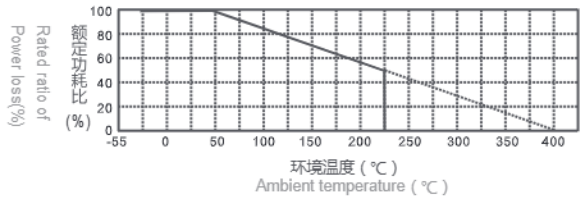
1. 电阻值以及变化范围: $1\Omega \leq R \pm 5\%$ (J), $1\Omega > R \pm 10\%$ (K)
2. 温度系数: $R > 20\Omega$, $\pm 260\text{ppm}/^\circ\text{C}$ $R \leq 20\Omega$, $\pm 400\text{ppm}/^\circ\text{C}$ 在 $-25 \sim 200^\circ\text{C}$ 温度下实验
3. 额定负荷: 表面温度 $\leq 375^\circ\text{C}$ 放在 $300 \times 300 \times 3\text{mm}$ 铝板上
4. 短时过载: $\Delta R \leq \pm (2\%R + 0.05\Omega)$ 无异常同样环境下 10 倍额定电压, 5 秒
5. 绝缘电阻: $R \geq 100\text{M}\Omega$ 1min 无异常 DC1000V, 焊片和外壳之间的绝缘电阻要求大于或等于 $100\text{M}\Omega$
6. 耐电压: $\Delta R \leq \pm (0.1\%R + 0.05\Omega)$ 无异常, 无破坏焊片与外壳之间加 AC3000V5S
7. 端子强度: 无松动无异常 100N 力加在焊片引出方向, 30 秒
8. 耐震性: 无可见损伤, $\Delta R \leq \pm (0.1\%R + 0.05\Omega)$ f: 10–55Hz a=1.5g X.Y.Z 各 2h
9. 耐热性: 除端子外无明显变色和损伤, 标志清晰加热至 $350 \pm 5^\circ\text{C}$, 120 ± 5 分钟
10. 热冲击: $\Delta R \leq \pm (2\%R + 0.05\Omega)$ 无异常额定电压 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
1. Resistance value and the change range: $1\Omega \leq R \pm 5\%$ (J), $1\Omega > R \pm 10\%$ (K)
2. Temperature coefficient: $R > 20\Omega \pm 260\text{ppm}/^\circ\text{C}$ $R \leq 20\Omega$, $\pm 400\text{ppm}/^\circ\text{C}$ Test when the temperature is $-25 \sim 200^\circ\text{C}$
3. Rated load: The surface temperature $\leq 375^\circ\text{C}$ on the $300 \times 300 \times 3\text{mm}$ aluminum plate
4. Short-time overload: $\Delta R \leq \pm (2\%R + 0.05\Omega)$ No abnormal environment also 10 times the rated voltage, 5 second
5. Insulation resistance: $R \geq 100\text{M}\Omega$ 1min Without abnormal DC100V, insulation resistance between welding plate and shell is no less than $100\text{M}\Omega$
6. Withstand voltage: $\Delta R \leq \pm (0.1\%R + 0.05\Omega)$ No abnormal damage welding piece between the shell and AC300V5S
7. Terminal strength: Without loosening without exception 100n force on welding lead direction, 30 second
10. Thermal: $\Delta R \leq \pm (2\%R + 0.05\Omega)$ No abnormal voltage rating for 30 minutes, room temperature, 8–12 seconds into $-40 \sim 2^\circ\text{C}$ environment, 15+5 minutes, the place 2 hours at room temperature

■ 执行标准 (Applicable Standards)

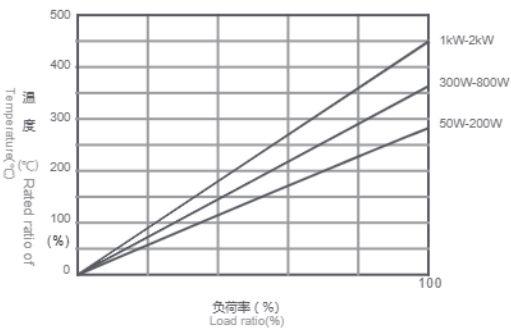
GB/T5729-1994 Fixed redsistor used in electronic equipment

■ 降额曲线 (Rundown Curve)

环境温度 Ambient temperature	0-20℃	> 20℃
功率损耗 Power loss	100%	See figure



■ 表面升温 (Surface Temperature Rise)



■ 产品尺寸图 (Product Size)

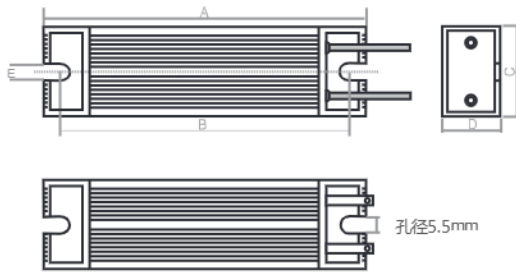


图 A Picture A

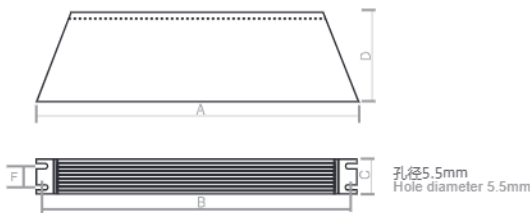


图 B Picture B

规格 Type	功率 Rated Power (W)	图号 Picture	尺寸/Dimension(mm)					配线(mm²)	引线长度 length (mm)	端子
			A	C	D	B	F			
RXLG	60	PictureA	115	40	20	98	*	1	500	M5
RXLG	80		140	40	20	123	*	1	500	M5
RXLG	100		165	40	20	148	*	1	500	M5
RXLG	120		190	40	20	173	*	1	500	M5
RXLG	150		215	40	20	197	*	1	500	M5
RXLG	200		165	60	30	147	*	1.5	500	M5
RXLG	300		215	60	30	197	*	1.5	500	M5
RXLG	400		265	60	30	247	*	1.5	500	M5
RXLG	500		335	60	30	317	*	1.5	500	M5
RXLG	800	PictureB	400	61	59	385	40	2.5	500	M6
RXLG	1000		400	50	107	385	30	端子引出		M6
RXLG	1200		450	50	107	435	30	端子引出		M6
RXLG	1500		485	50	107	470	30	端子引出		M6
RXLG	2000-3000		550	50	107	535	30	端子引出		M6
RXLG	3500-4000		700	50	107	685	30	端子引出		M6

备注:其他规格尺寸,可根据用户要求制造。Remark:Dimension can be customization

■ 产品选择指引 (Selection guide)

RXLG	100W	50R	K	M
↓	↓	↓	↓	↓
Product Type 产品类别	Rated Power 功率 60W-4000W	Resistance value(ohm) 电阻阻值 (Ω) Indicates resistance value in units of ohms	Resistance Tolerance 电阻阻值误差 H=±3% J=±5% K=±10%	Connection 接线 M=端子/Terminal J=引线/Lead