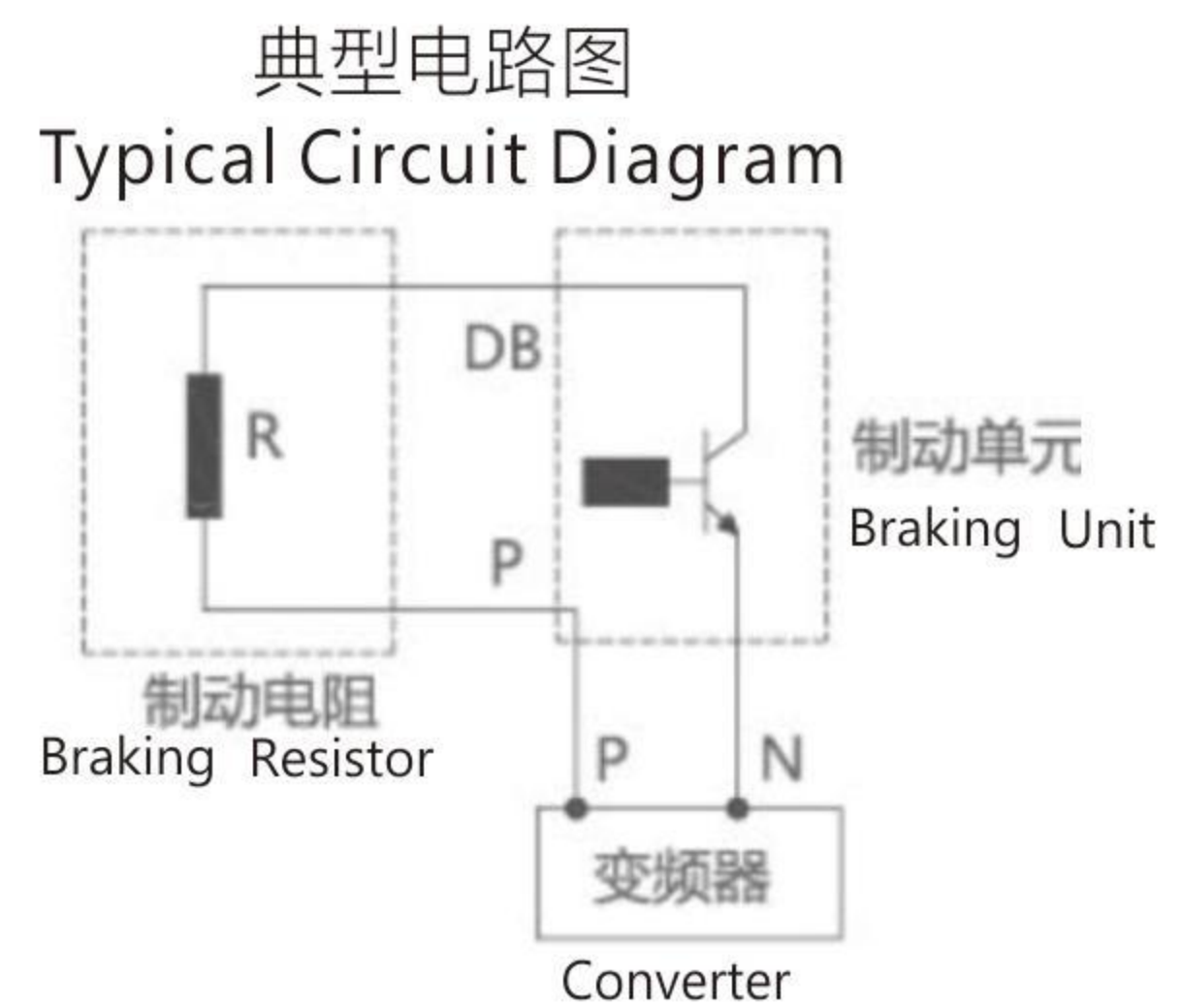


铝壳电阻器(RXLG) Aluminum Enclosure Resistor

■ 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。该种电阻具有耐气候性、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 wire-wound resistors adopt aluminum alloy shell and have beautiful appearance. This kind of resistor has weather resistance, vibration resistance, and is safer than traditional porcelain skeleton resistor. RXLG resistor is a power wire-wound resistor encapsulated with a high temperature resistant silicone resin and silicon powder as basic materials. It is easy to install tightly and easy to attach a heat sink.



■ 产品应用 (Product Application)

- 1.作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, it protects the inverter, servo, etc. from the harm caused by the regenerated electric energy of the motor
- 2.Used as a resistive load in power electronic load testing
- 3.Used as sampling resistor, current limiting resistor, starting resistor and protection resistor in power electronic equipment

■ 技术规格 (Technical Specification)

- 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: $R > 20\Omega$, ± 260 ppm/ $^{\circ}\text{C}$ $R \leq 20\Omega$, ± 400 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 DC 1000V, 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AC 3000V 5s
- 7.端子强度: 无松动无异常 100N力加在焊片引出方向, 30秒
- 8.耐振性: 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 \pm 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,
- 11.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
- 12.耐湿性: 无可见损伤, 标志清晰, $\Delta R \leq \pm (3\%R + 0.05\Omega)$, 绝缘电阻 $\geq R \geq 25\text{M}\Omega$
- 13.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
- 14.负载寿命: 外观无可见损伤, 标志清晰, $\Delta R \leq \pm (5\%R \pm 0.05\Omega)$ 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

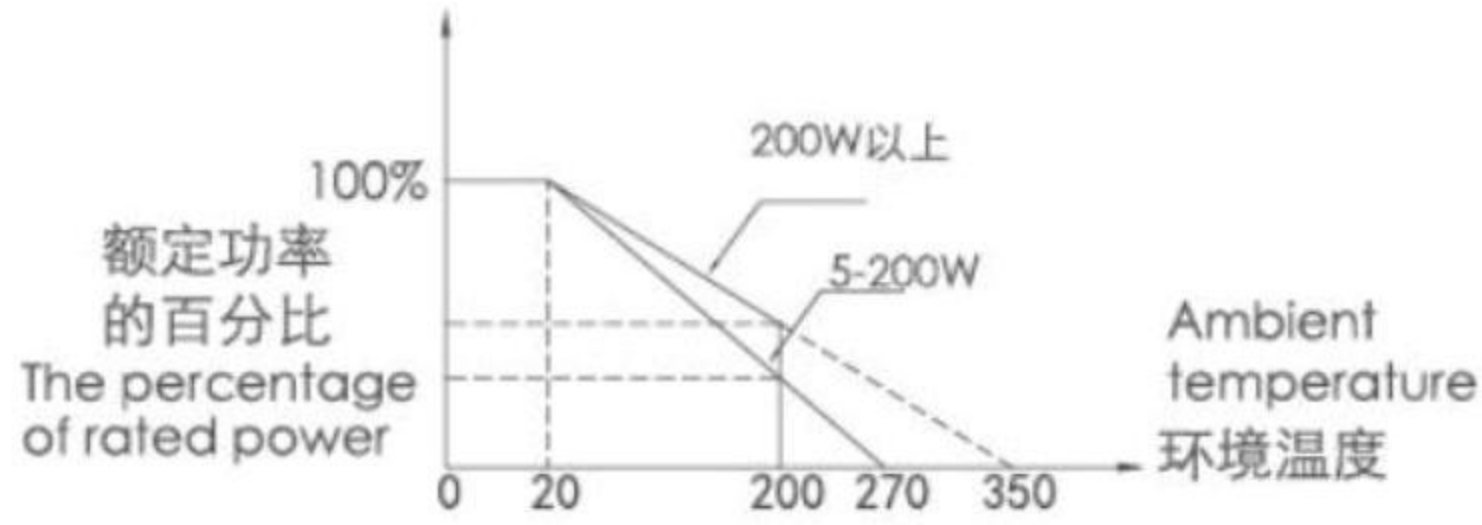
- 1.Resistance Value and the change range : $1\Omega \leq R \pm 5\%$ (J), $1\Omega > R \pm 10\%$ (K)
- 2.Temperature Coefficient: $R > 20\Omega$, ± 260 ppm/ $^{\circ}\text{C}$ $R \leq 20\Omega$, ± 400 ppm/ $^{\circ}\text{C}$ test when the temperature is $-25 \sim +200^{\circ}\text{C}$
- 3.Rated Load: the surface temperature $\leq 375^{\circ}\text{C}$ on the $300 \times 300 \times 3\text{mm}$ aluminum plate
- 4.Short-time Overload: $\Delta R \leq \pm (2\%R + 0.05\Omega)$ under the same environment without abnormality, 10 times the rated voltage, 5s
- 5.Insulation Resistance: $R \geq 100\text{M}\Omega$ 1 min without abnormal, DC 1000V, and the insulation resistance between the welding tab and the shell is required to be greater than or equal to $100\text{M}\Omega$
- 6.Withstand Voltage: $\Delta R \leq \pm (0.1\%R + 0.05\Omega)$ no abnormality, no damage. Apply AC 3000V between the solder tab and the shell for 5s.
- 7.Terminal Strength: no looseness or abnormality, 100N force is applied in the lead-out direction of the solder tab for 30s
- 8.Vibration Resistance: no visible damage, $\Delta R \leq \pm (0.1\%R + 0.05\Omega)$, f: 10 ~ 55Hz, a= 1.5g, X.Y.Z 2hours each
- 9.Heat Resistance: no obvious discoloration or damage except the terminals, clear markings $350 \pm 5^{\circ}\text{C}$, 120 \pm 5m
- 10.Thermal Shock: $\Delta R \leq \pm (2\%R + 0.05\Omega)$, no abnormal, rated voltage for 30 minutes. At room temperature, place in $-40 \pm 2^{\circ}\text{C}$ environment for 8-12s
- 11.Moisture Resistance: no visible damage, clear markings, $\Delta R \leq \pm (3\%R + 0.05\Omega)$
- 12.Insulation Resistance $\geq R \geq 25\text{M}\Omega$, DC100V, $40 \pm 2^{\circ}\text{C}$, relative humidity 90 ~ 95%, 60minutes on, 30 minutes off, lasting 500+24 hours
- 13.Durability (rated load): no visible damage on appearance, clear markings, $\Delta R \leq \pm (5\%R \pm 0.05\Omega)$ 100% load
- 14.Load Life: there is no visible damage on the appearance, the mark is clear, $\Delta R \leq \pm (5\%R \pm 0.05\Omega)$, placed on a $300 \times 300 \times 3\text{mm}$ aluminum plate, $20 \pm 7^{\circ}\text{C}$, rated DC voltage, 90 minutes on, 30 minutes off, cycle for 500+24 hours

■ 执行标准 (Applicable Standard)

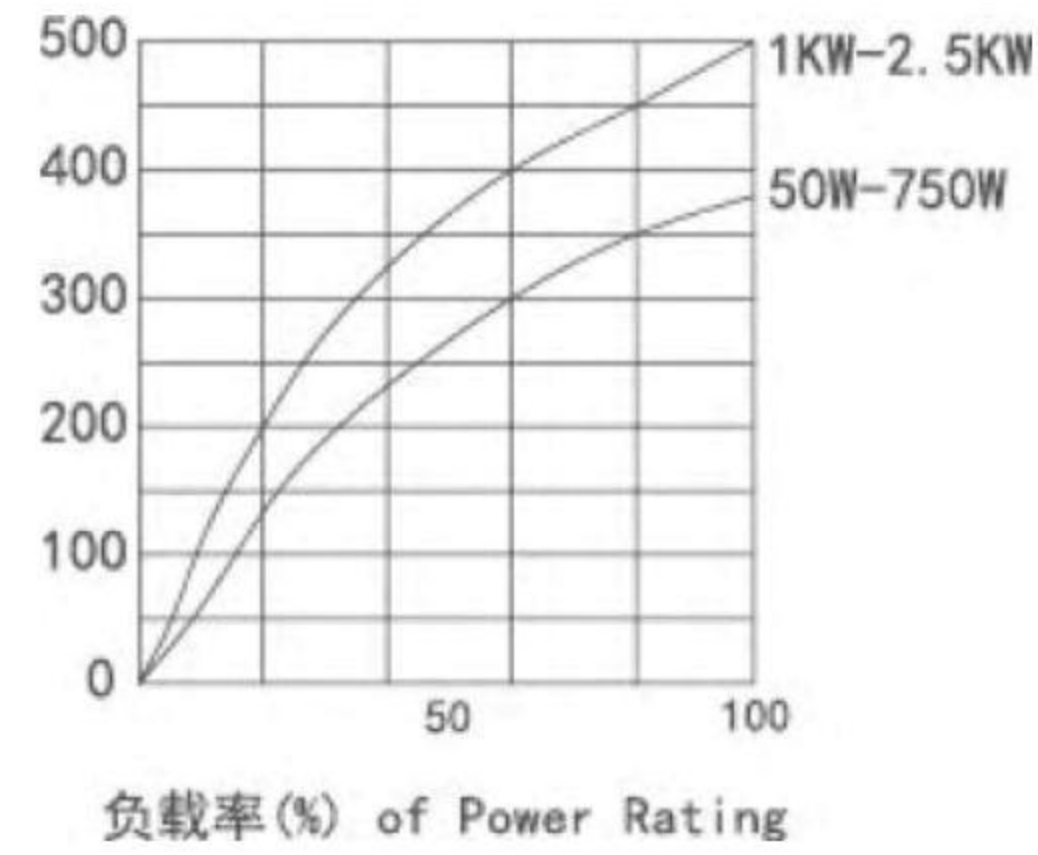
GB/T5729 Fixed resistors used in electronic equipment

■ 降额曲线(Rundown Curve)

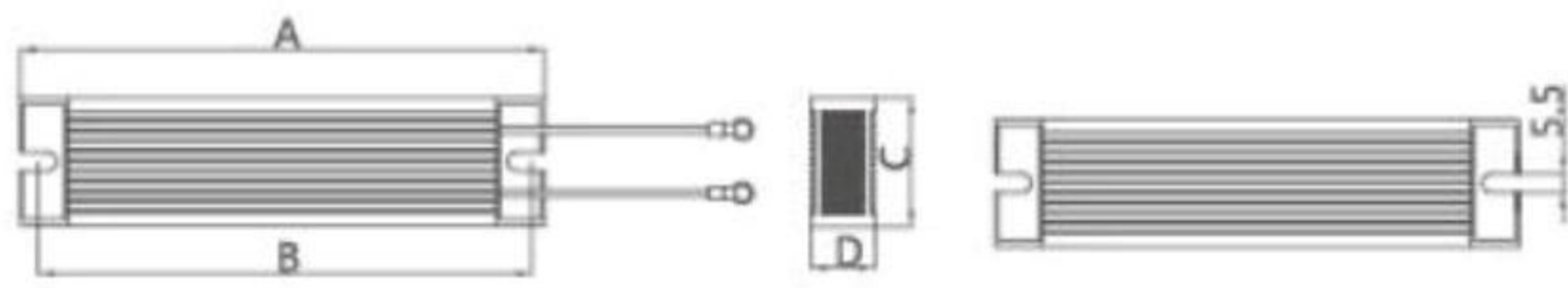
环境温度Ambient Temperature	0-20°C	>20°C
功率损耗Power Loss	100%	See figure



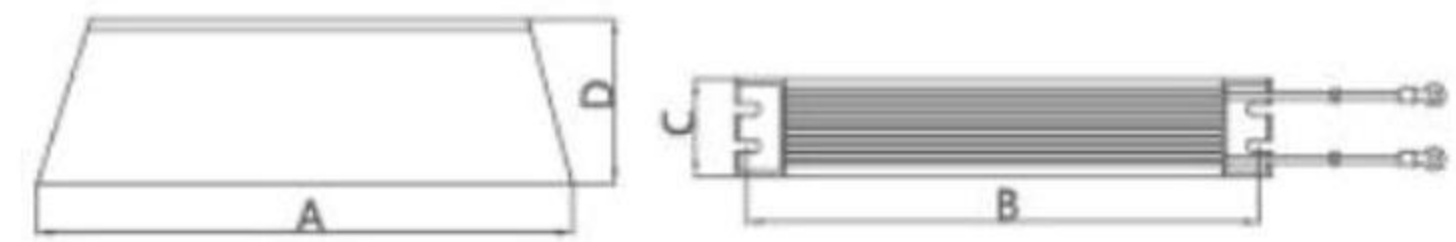
■ 表面温升 (Surface Temperature Rise)



■ 产品尺寸图(Product Size)



Picture A



Picture B

规格 Type	图号 Picture No.	额定功率(W) Rated Power	尺寸Dimension(±1mm)				配线(mm) Cable	引线长度(mm) Lead Length	端子 Terminal
			A	B	C	D			
RXLG	A	60	115	102	40	20	1.5	250	2-5S
RXLG		80	140	127	40	20	1.5	250	2-5S
RXLG		100	165	152	40	20	1.5	250	2-5S
RXLG		120	190	177	40	20	1.5	250	2-5S
RXLG		150	215	202	40	30	2.5	250	2-5S
RXLG		200	165	152	60	30	2.5	250	2-5S
RXLG		300	215	202	60	30	2.5	250	2-5S
RXLG		400	265	252	60	30	2.5	250	2-5S
RXLG		500	335	322	60	30	2.5	250	2-5S
RXLG		800	400	41*387	60	30	2.5	250	2-5S
RXLG	B	1000	400	30*387	50	59			M6
RXLG		1200	450	30*437	50	107			M6
RXLG		1500	485	30*472	50	107			M6
RXLG		2000	550	30*537	50	107			
RXLG		2500	550	30*537	50	107			M6

备注: 其他规格尺寸, 哥根据用户要求制造。Remark: Customized if necessary.

■ 成品识别码(Product Identification Code)

