



<b>梯型铝外壳电阻器</b> <b>RXLG Trapezoidal Aluminum Housed</b> <b>Fixed Power Resistor</b>	文件编号 Document No.	YF-SE-02-23C/A01
	文件日期 Released Date	2022-1-17
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■ **产品特性 Feature:**

- 高负荷、散热特性、不燃性;  
High load, heat-sink performance, non-flame ;
- 高频特性好、抗脉冲性;  
Stable performance of high voltage, pulsing load;
- 符合环保要求 RoHS compliant, halogen free, lead free;
- 防护等级 INGRESS PROTECTION: IP53;

■ **产品引用范围 Application:**

- 电源系统/充电设备 Power supply;
- 工业/自动化行业 Industrial/automation system;
- 变频控制/风电控制 VFD control/Wind-power system;
- 新能源/风电控制 New energy system/Wind-power system;
- 家电/音响系统 Entertainment system;

■ **产品订货方式 Parts Number Explanation:**

RXLG	-	1500W	-	47R	-	J	-		
类型		功率		特性(可选)		阻值		误差	
Product Type		Rated Power		Feature (Optional)		Resistance		Tolerance	
								包装方式	
								Packing	
		800W		N/A:Normal		0R47=0.47Ω		F:±1%	Requirements
		1000W		S:Small volume		2R7=2.7Ω		G:±2%	
		1200W		L:Large volume		15R=15Ω		J:±5%	
		1500W		N:Non-inductive		510R=510Ω		K:±10%	
		...		...		1K2=1.2KΩ			
		5000W				5K=5KΩ			

■ **环保申明 RoHS declaration:**

本产品符合 RoHS 2.0(2011/65/EU)环保要求。  
The products meet the standards of RoHS 2.0(2011/65/EU).

■ **参考标准 Reliability standard**

可焊性 Weldability Standard:	IEC60068-2-20
环境标准 Environment Standard:	SJ/T 11363-2006, ROHS 2011/65/EU
检验标准 QC standard:	MIL-STD-105E, GB/T 2828.1-2003
产品性能 Performance:	IEC60115-2008, GB/T5729-2003



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■标准产品规格 Product voltage parameters:

功率 Rated Power At 70°C	阻值 Resistance (Ω)	最高使用电压 Max. Rating Voltage(U <sub>R</sub> )	最高超载电压 Max. Overload Voltage(U <sub>L</sub> )	绝缘电压 Insulation Voltage(U <sub>N</sub> )	温度系数 T.C.R. PPM/°C	工作温度 Operating Temperature
P < 1000W	1~10K	650V	1000V	3000V	±200	-55°C
1000W~2000W	1~10K	850V	1200V	3000V	±350	~
P > 2000W	1~10K	1000V	1500V	3000V	±500	+275°C

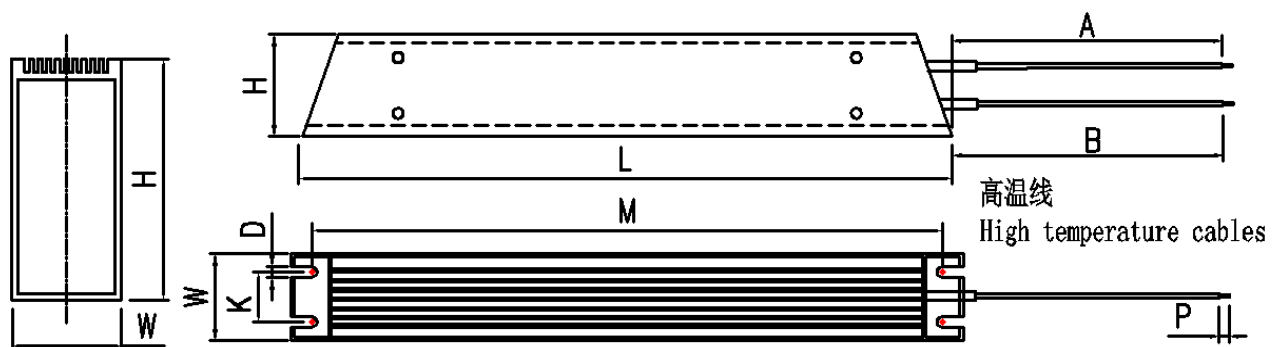
● 额定电压 Rating voltage:

额定功率对应的额定电压,直流(DC)或交流电流(AC),可以采用如下公式计算。当计算的额定电压超过最高使用电压时,则使用最高使用电压为额定电压。

The following equation may be used to determine the DC(Direct Current) or AC(Alternating Current)(RMS, root mean square value) of normal rated power. However, if the result value exceeds the max. using voltage, the max. using voltage is to be used:

$U_P = \sqrt{P \times R}$	U <sub>P</sub> : 额定电压 Rating voltage (V) P: 额定功率 Rating Power (W) R: 电阻值 Resistance(Ω)
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■产品尺寸 Type dimension:



规格 Type	尺寸 Dimension(mm)								重量 (g)
	L±2.0	W±0.5	H±1.0	M±2.0	K±0.5	D±0.5	A/B	P±3	
800W	335	50	107	320	30.5	5.5	300±10	5	-
1000W	380	50	107	365	30.5	5.5	300±10	5	-
1200W	400	50	107	385	30.5	5.5	300±10	5	-
1500W	485	50	107	470	30.5	5.5	300±10	5	-
2000W	550	50	107	535	30.5	5.5	300±10	5	-
3000W	650	50	107	635	30.5	5.5	300±10	5	-



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■产品特性 Product performance:

测试项目 Test Item	测试方法 Test Method	测试方法 Procedure	测试标准 Requirements										
端子强度 Terminal robustness	IEC60115-1 4.16	端子加载 20N 拉力, 时间 10 秒; Pressurizing force:17.7N, 10 seconds	无损伤 No damage										
本体强度 Body robustness	IEC60115-1 4.15	电阻体中间, 加载 5N 的压力, 时间 10 秒 Central part pressurizing force:5N, 10seconds	无损伤 No damage										
耐振性 Vibration	IEC60115-1 4.22	10~55HZ/0.75mm/2H*3	无损伤 No damage										
耐焊锡热 Soldering Heat	IEC60115-1 4.18	350±5℃, 3S±0.5S	△R/R≤±0.5%										
可焊锡性 Solderability	IEC60115-1 4.17	245±5℃, 5±0.5S	≥95%										
温度系数 Temperature coefficient (T.C.R.)	IEC60115-1 4.8	$T.C.R. = \frac{R - R_0}{R_0} \times \frac{1}{T - T_0} \times 10^6 \quad (PPM/^\circ C)$ R <sub>0</sub> :常温下(T <sub>0</sub> )的阻值 Resistance at room temperature(T <sub>0</sub> ); R: 测试温度(T=T <sub>0</sub> +100)的阻值 Resistance at T=T <sub>0</sub> +100;	根据产品额定参数 Refer to Ratings										
短时间过负载 Short Time Overload	IEC60115-1 4.13	Min( $\sqrt{10 \times W \times R}$ , U <sub>R</sub> ), 5s	△R/R≤±2.0%										
绝缘耐压 Voltage proof	IEC60115-1 4.7	U <sub>N</sub> , 60S, I≤1mA.	△R/R≤±1%										
绝缘阻值 Insulation resistance	IEC60115-1 4.6	DC500V, R>100MΩ	△R/R≤±0.5%										
耐久性 Endurance	IEC60115-1 4.25	Min(U <sub>P</sub> , U <sub>R</sub> ), 1.5H- ON, 0.5H-OFF, 1000H	△R/R≤±5%										
高温存储 High Temp. Exposure	IEC60115-1 4.23	125℃, 80%, 500H	无损伤 No damage										
温度循环 Temperature Cycle	IEC60115-1 4.19	如下循环 Cycle Below: <table border="1" style="margin-left: 20px;"> <tr> <td>温度 Temperature</td> <td>25℃</td> <td>125℃</td> <td>25℃</td> <td>-25℃</td> </tr> <tr> <td>时间 Duration</td> <td>15min</td> <td>15min</td> <td>15min</td> <td>15min</td> </tr> </table> 持续时间 Cycle Time:1000Hrs.	温度 Temperature	25℃	125℃	25℃	-25℃	时间 Duration	15min	15min	15min	15min	无损坏 No damage △R/R≤±0.5%
温度 Temperature	25℃	125℃	25℃	-25℃									
时间 Duration	15min	15min	15min	15min									
不燃特性 Nonflammability	UL94-V0	16*U <sub>P</sub> ,5min	无燃烧现象 No flame										