

## 波纹电阻器(RXHG) Wire Wound Resistor

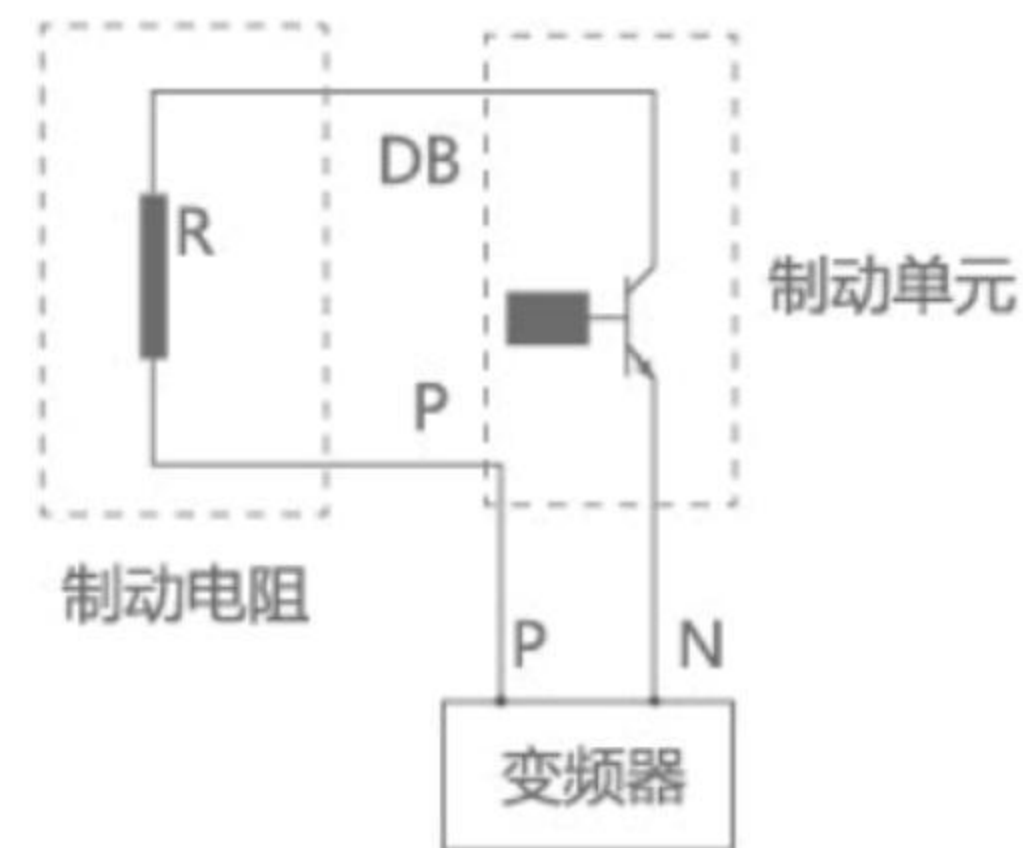
### ■ 产品概述(Product Introduction)

RXHG型涂料绕线电阻器是一种功率型绕线电阻器。该产品采用波状电阻合金带以侧立形式缠绕在陶瓷骨架上，表面被覆绝缘耐高温涂料，有利于散热，并配有安装支架。该种电阻器具有功率大，耐过载能力强，安装方便等特点。

RXHG is a power wire-wound resistor. This product uses corrugated resistance alloy strips wrapped sideways around a ceramic frame. The surface is covered with insulating and high-temperature-resistant paint to facilitate heat dissipation and is equipped with a mounting bracket. The resistor has high power, strong overload resistance and easy installation.



典型电路图  
Typical Circuit Diagram



### ■ 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作为阻性负载
- 3.在电力电子设备中作为取样电阻、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 tests
- 3.Used as sampling resistor, current limiting resistor, starting resistor and protection resistor in power electronic equipment

### ■ 技术规格 (Technical Specification)

- 1.阻值及阻值允许偏差： $1\Omega \leq R \pm 5\%$  (J)， $1\Omega > R \pm 10\%$  (K)
- 2.额定负荷：表面最高温度： $50 \sim 200W \leq 275^\circ\text{C}$ ， $>200W \leq 350^\circ\text{C}$
- 3.短时过负荷：无可见损伤， $\Delta R \leq \pm (5\%R + 0.05\Omega)$  10倍5s
- 4.绝缘电阻： $R \geq 100M\Omega$  1 min DC 1000V
- 5.耐电压：无可见损伤，无飞弧击穿  $\Delta R \leq \pm (0.1\%R + 0.05)$  AC 3000V 5s
- 6.电阻温度特性： $\pm 260\text{PPM}/^\circ\text{C}$  (小于 $5\Omega$ 以下不作检测)
- 7.端子强度：无松动或机械损伤45N 30s
- 8.电阻体强度：无可见损伤 200N 30s
- 9.耐振性：无可见损伤， $\Delta R \leq \pm (0.1\%R + 0.05\Omega)$  f: 5 ~ 200Hz a=1g X.Y.Z各2h
- 10.耐热性：除端子外无明显变色和损伤，标志清晰 $350^\circ\text{C}$  2hours
- 11.热冲击：无可见机械损伤 额定负载30分钟后 $-55^\circ\text{C}$ 温度下15min
- 12.耐湿性：无可见损伤，标志清晰， $\Delta R \leq \pm (5\%R + 0.05\Omega)$
- 13.绝缘电阻 $\geq 10M\Omega$  DC100  $40^\circ\text{C}$  95%RH 500hours
- 14.耐久性(额定负载)：外观无可见损伤，标志清晰， $\Delta R \leq \pm (5\%R \pm 0.05\Omega)$  100%负荷

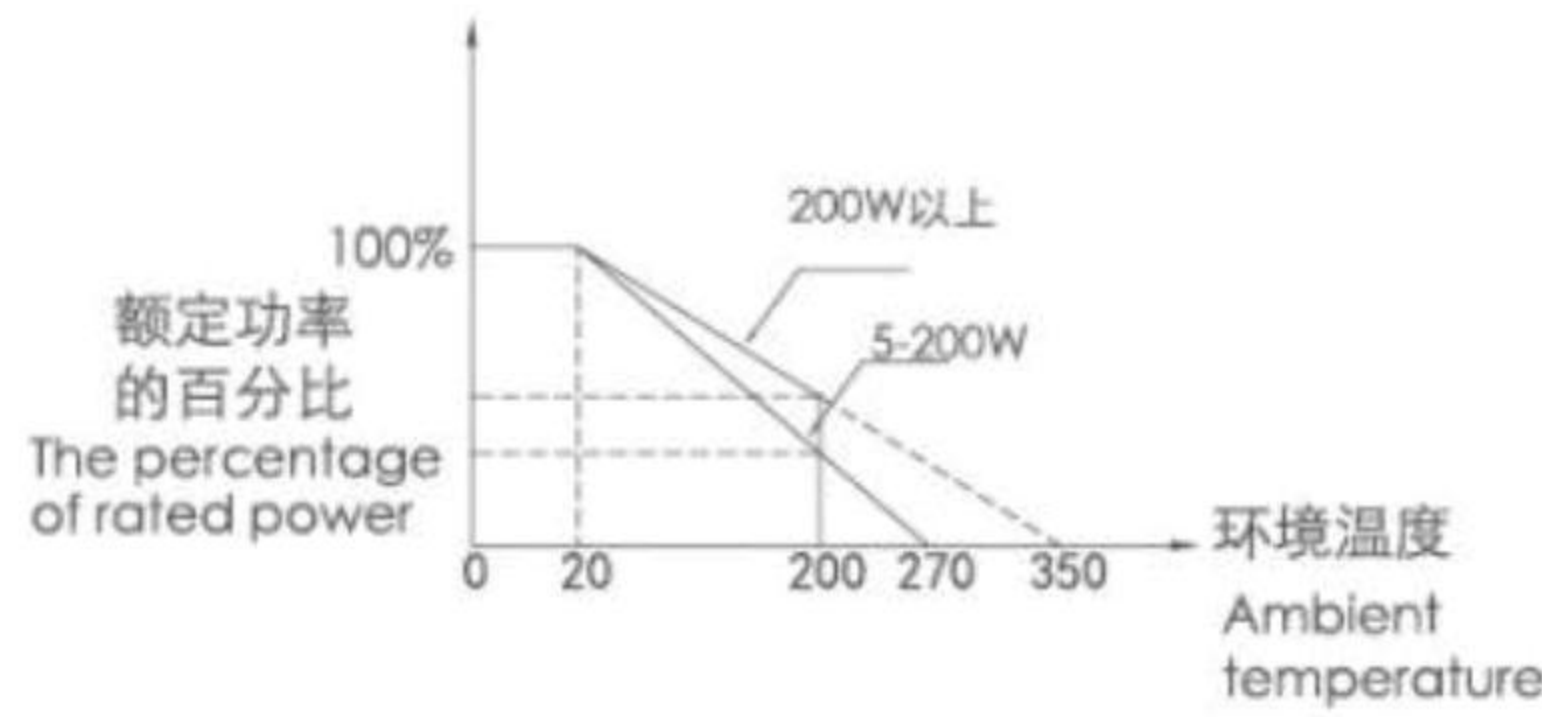
- 1.Resistance Value and Resistance Value Tolerance:  $1\Omega \leq R \pm 5\%$  (J),  $1\Omega > R \pm 10\%$  (K)
- 2.Rated load: maximum surface temperature:  $50 \sim 200W, \leq 275^\circ\text{C}$ ,  $>200W, \leq 350^\circ\text{C}$
- 3.Short-time Overload: no visible damage,  $\Delta R \leq \pm (5\%R + 0.05\Omega)$  10 times 5s
- 4.Insulation Resistance:  $R \geq 100M\Omega$  1 min DC 1000V
- 5.Withstand Voltage: no visible damage, no electric arc and electric breakdown  $\Delta R \leq \pm (0.1\%R + 0.05)$  AC 3000V 5s
- 6.Resistance Temperature Characteristic:  $\pm 260\text{PPM}/^\circ\text{C}$  (will not be tested if less than  $5\Omega$ )
- 7.Terminal Strength: no looseness or mechanical damage 45N 30s
- 8.Resistor Strength: no visible damage 200N 30s
- 9.Withstand Vibration: no visible damage,  $\Delta R \leq \pm (0.1\%R + 0.05\Omega)$  f: 5 ~ 200Hz a=1g X.Y.Z 2h each
- 10.Heat Resistance: no obvious discoloration or damage except the terminals, clear markings  $350^\circ\text{C}$  2hours
- 11.Thermal Shock: no visible mechanical damage after 30 minutes of rated load at  $-55^\circ\text{C}$  for 15 minutes
- 12.Moisture Resistance: no visible damage, clear markings,  $\Delta R \leq \pm (5\%R + 0.05\Omega)$
- 13.Insulation Resistance:  $\geq 10M\Omega$  DC100  $40^\circ\text{C}$  95%RH 500hours
- 14.Durability (rated load): no visible damage on appearance, clear markings,  $\Delta R \leq \pm (5\%R \pm 0.05\Omega)$  100% load

### ■ 执行标准 (Applicable Standard)

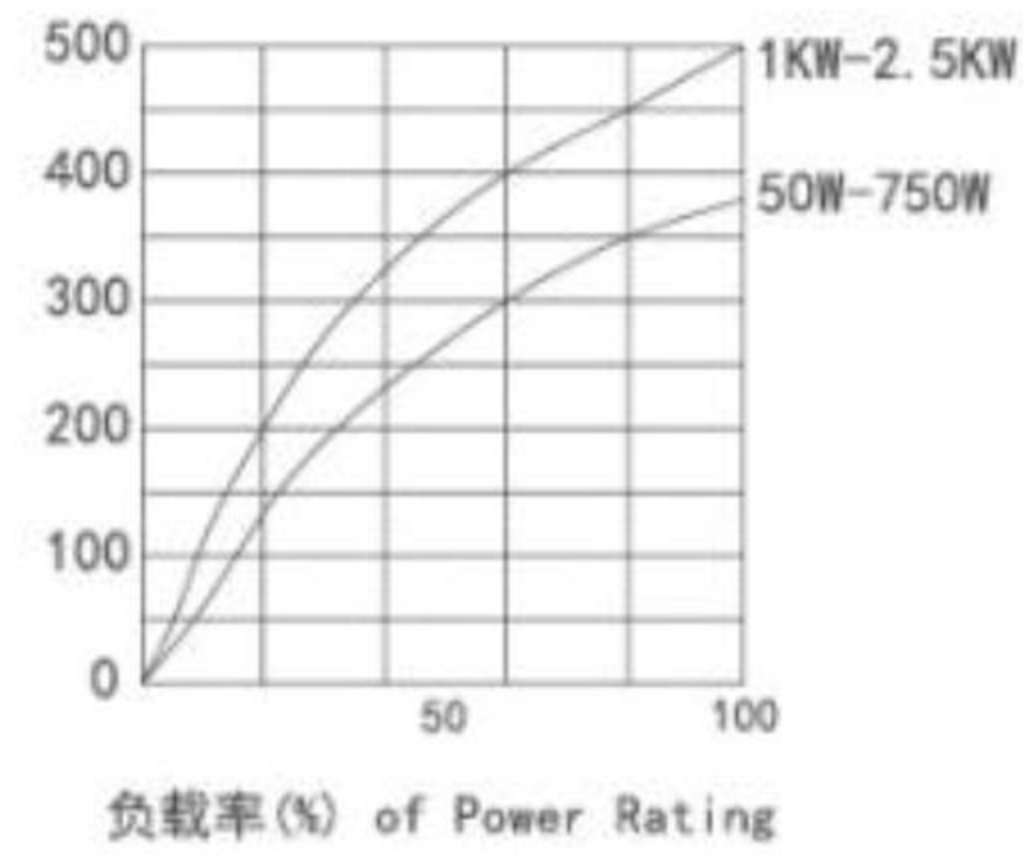
GB/T5729 Fixed resistors used in electronic equipment

### ■ 降额曲线(Rundown Curve)

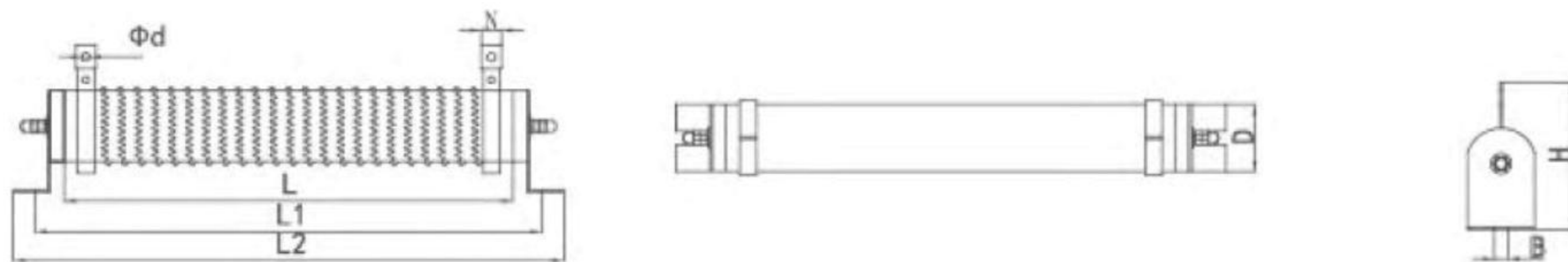
环境温度Ambient Temperature	0-20°C	>20°C
功率损耗Power Loss	100%	See figure



### ■ 表面温升 (Surface Temperature Rise)



### ■ 产品尺寸图(Product Size)



规格 Type	额定功率(W) Rated Power	尺寸Dimension(±1mm)							
		L	L1	L2	D	B	H	N	φ d
RXHG	50	90	132	146	28	6.5	62	10	4.5
RXHG	60	90	132	146	28	6.5	62	10	4.5
RXHG	80	140	182	198	28	6.5	62	10	4.5
RXHG	100	170	212	198	28	6.5	62	10	4.5
RXHG	150	192	222	238	40	8	90	12	5.5
RXHG	200	192	222	238	40	8	90	12	5.5
RXHG	300	280	310	326	40	8	90	12	5.5
RXHG	400	280	310	326	40	8	90	12	5.5
RXHG	500	316	346	360	50	8	107	16	6
RXHG	600	316	346	360	50	8	107	16	6
RXHG	750	316	346	360	50	8	107	16	6
RXHG	1000	300	334	350	60	8.5	127	16	6
RXHG	1200	415	449	465	60	8.5	127	16	6
RXHG	1500	415	449	465	60	8.5	127	16	6
RXHG	2000	510	544	560	60	8.5	127	16	6
RXHG	2500	600	636	652	60	8.5	127	16	6

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

### ■ 成品识别码(Product Identification Code)

