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,电阻器具有功率大,耐过载能力强,安装方便等特点。

RXHG coatings type winding resistor is a kind of power mode,the product use the wave resistance olloy in the form of side winding on the ceramin matrix The surface coating insulation resistance to high temperature coating,is conducive to heat dissipation,and is equipped with a mounting bracket,a resistor has large power,strong overload capacity resistance,convenient installation and other feature

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 danmage by regenerative energy of the motor;
2.As a resistive load in power electronic load tests;
3.As a sampling resister,limiting resistor,starting resistor,or protective resistor in power electronic equipment.

技术规格(Technical Specifications)

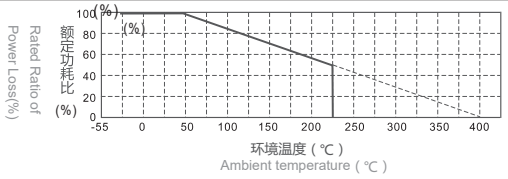
1.阻值及阻值允许偏差:1Ω≤R±5%(J),1Ω>R±10%(K)
2.额定负荷:表面最高温度:50~200W≤275℃,>200W小于等于350℃
3.短时过负荷:无可见损伤,△R≤±(5%R+0.05Ω)10倍5s
4.绝缘电阻:R≥100MΩ1min DC 1000V
5.耐电压:无可见损伤,无飞弧击穿△R≤±(0.1%R+0.05) AC 3000V 5S
6.电阻温度特性:±260PPM/℃(小于5Ω以不作检测)
7.端子强度:无松动或机械损伤45N 30S''
8.电阻体强度:无可见损伤200N 30S
9.耐振性:无可见损伤,△R≤±(0.1%R+0.05Ω) f:5–200Hz 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℃ 2hours
11.热冲击:无可见机械损伤 额定负载30分钟后–55℃温度下15min
12.耐湿性:无可见损伤,标志清晰,△R≤±(5%R+0.05Ω)
绝缘电阻≥10MΩDC100 40℃ 95%RH 500hours
13.耐久性(额定负载):外观无可见损伤,标志清晰,△R≤±(5%R+0.05Ω) 100%负荷
1.Resistance value and the change range:1Ω≤R±5%(J),1Ω>R±10%(K)
2.Rated load:The maximum surface temperature,50~200W≤275℃,>200W≤350℃
3.Short–time overload:No visible damage △R≤±(5%R+0.05Ω) 10 times 5s
4.Insulation resistance:R≥100MΩ 1min DC 1000V
5.Withstanding voltage :No visible damge,no arcing breakdown △R≤±(0.1%R+0.05) AC 3000V 5S
6.Resistance–temperature characteristic:±260PPM/℃(less than 5Ωdon't test)
7.Terminial strength No looseness or mechanical damage 45N 30s
8.Resistance strength No visible damage 200N 30S
9.Withstanding vibration:No visible damage △R≤±(0.1%R+0.05Ω)f:5–200Hz a=1gX.Y.Z/2h
10.Heart resistance:In addition to the terminal no pbvious discoloration and damage,marked clearly 350℃ 2hours
11.Heat shock No visible mechanical damage,after 30minute rated overload
12.Wateriogging resistance:No visible mechanical damage,marked clearly △R≤±(5%R+0.05Ω) Insulation resistance≥10MΩDC100 40℃ 95%RH 500hours
13.Durability(rated overload):No visible damage,marked clearly △R≤±(5%R+0.05Ω)load100%

执行标准(Applicable Standards)

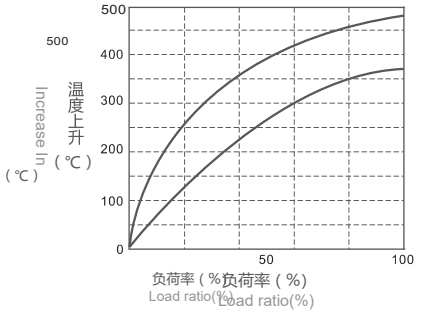
GB/T5729–1994　Fixed redsistor used in electronic equipment

降额曲线(Rundown Curve)

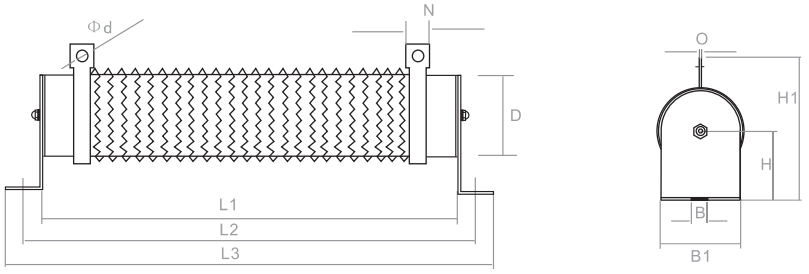
环境温度 Ambient temperature	0–20℃	>20℃
功率损耗 Power loss	100%	See figure



表面升温(Surface Temperature Rise)



产品尺寸图(Product Size)



额定功率(W)	L1(±2)	L2(±5)	L3(±3)	D(±2)	B	B1	H1(±3)
50	102	124	146	28	6.5	28	62
60	102	124	146	28	6.5	28	62
80	152	174	196	28	6.5	28	62
100	182	204	226	28	6.5	28	62
120	182	204	226	28	6.5	28	62
150	195	217	239	40	8	40	87
200	195	217	239	40	8	40	87
300	282	304	326	40	8	40	87
400	282	304	326	40	8	40	87
500	316	338	360	50	8	50	99
800	316	338	360	60	8	50	99
1000	300	325	350	60	8.5	60	119
1200	300	325	350	60	8.5	60	119
1500	415	440	465	60	8.5	60	119
2000	510	535	560	60	8.5	60	119
2500	600	625	650	60	8.5	60	119
3000	600	635	660	68	8.5	68	130
4000	600	635	660	68	8.5	68	130
5000	500	535	560	100	8.5	100	160
6000	600	635	660	100	8.5	100	160

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)

RXHG	100W	50R	K
Product Type 产品类别	Rated Power 功率 60W–6000W	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%