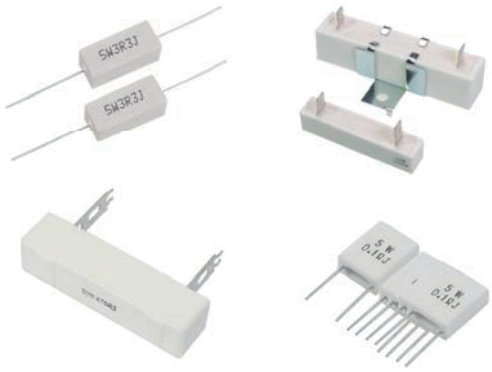
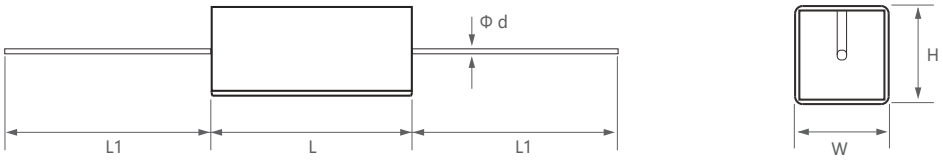
产品简述（Product Profile）

瓷壳电阻是将线绕电阻芯放入不同尺寸和形状的陶瓷壳内部，用特殊不燃性耐热水泥电子填充料密封，经自然阴干后高温烘烤而成，高阻值采用金属氧化膜电阻芯，具有体积小、耐湿、耐热及良好的散热性能。

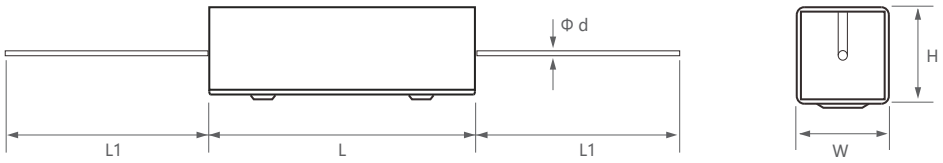
Resistors are made by placing wire wound resistor cores inside ceramic shells of different sizes and shapes, sealing them with special non combustible and heat-resistant electronic fillers, and baking them at high temperatures after natural drying. High resistance resistor cores are made of metal oxide films, which have small size, moisture resistance, heat resistance, and good heat dissipation performance.



产品尺寸图（Product Size ）



2W~25W 产品尺寸图 2W~25W Product Size



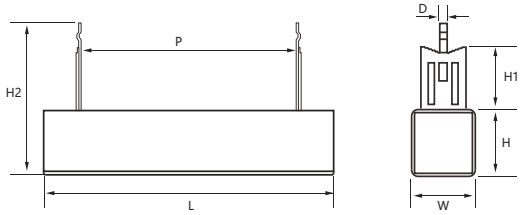
30W~50W 产品尺寸图 30W~50W Product Size

产品尺寸表（Derating Curve）

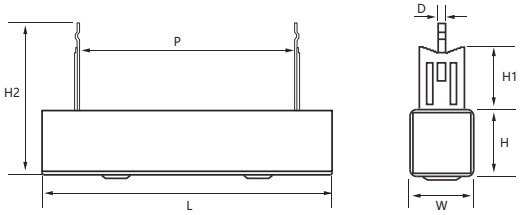
型号 Model	功率 Power 25 ℃ (W)	尺寸 Size (MM)					阻值范围 Resistance Range (Ω)		阻值公差 Optional accuracy range
		L±2	W±1	H±1	L1±2	Φ d± 0.1	线绕芯 Wire wound core	电阻膜 Resistive Film	
RX27-1	2.0	17.5	6.5	6.5	22	0.6	0.01~200	201~68K	F (±1%) G (±2%) J (±5%) K (±10%)
RX27-1	3.0	22	8.0	8.0	22	0.7	0.02~300	301~100K	
RX27-1	5.0	22	10	9.0	22	0.7	0.02~300	301~100K	
RX27-1	7.0	35	10	9.0	22	0.75	0.1~400	401~68K	
RX27-1	10	48	10	9.0	22	0.75	0.1~500	501~100K	
RX27-1	15	48	12.5	12.5	22	0.75	0.1~500	501~100K	
RX27-1	20	63.5	12.2	12.5	22	0.75	0.51~800	801~100K	
RX27-1	25	63.5	12.2	12.5	22	0.75	0.51~800	801~100K	
RX27-1	30	75	19	19	30	0.75	0.51~1K	1K01~100K	
RX27-1	50	90	19	19	30	0.75	0.51~1K	1K01~100K	

1. 各种尺寸，规格，电阻值，无感可接受定制。（Vs, specifications, rarious size, resistance values, non-inductive can be customized.）
2. 额定功率将受到工作电压的影响。（The rated power will be affected by the working voltage.）

RX27 -3 产品尺寸图 (RX27-3 Product Size)



5W~20W 产品尺寸图 5W~20W Product Size

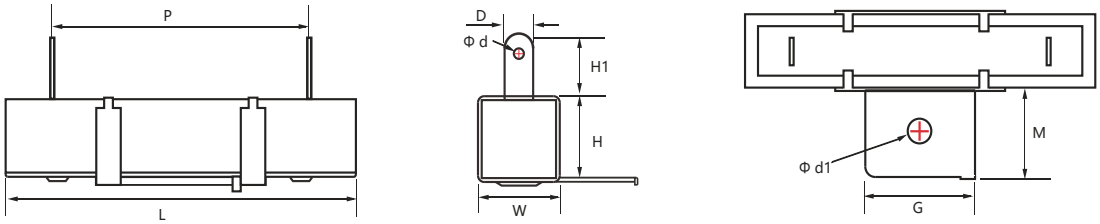


30W~100W 产品尺寸图 30W~100W Product Size

产品尺寸图 (Product Size)

型号 Model	功率 Power 25 ℃ (W)	尺寸 Size (MM)							阻值公差 Optional accuracy range
		L±1	W±1	H±1	H1±2	H2±2	P±2	D±0.1	
RX27-3	5.0	28	10	10	10.5	25	15	1.5	F (± 1%) G (± 2%) J (±5%) K (±10%)
RX27-3	7.0	35	10	10	10.5	25	20	1.5	
RX27-3	10	48	10	10	10.5	25	35	1.5	
RX27-3	15	48	12.5	12.5	15	35	35	3	
RX27-3	20	63	12.5	12.5	15	35	42	3	
RX27-3	30	76	19	19	12	43	55	3	
RX27-3	50	90	19	19	12	43	65	3	
RX27-3	80	108	19	19	12	35	85	3	
RX27-3	100	135	24	24	10	40	115	3	

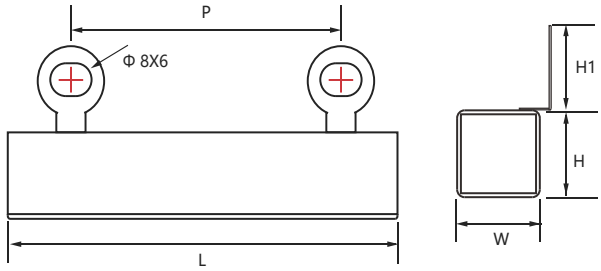
RX27 -4H产品尺寸图 (RX27-4H Product Size)

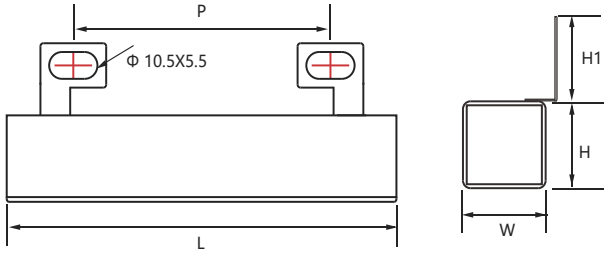


产品尺寸图 (Product Size)

型号 Model	功率 Power 25 ℃ (W)	尺寸 Size (MM)										阻值公差 Optional accuracy range
		L±1	W±1	H±1	H1±1	P±2	D±0.1	Φ d±0.3	Φ d1±0.3	G±2	M±2	
RX27-4H	10	48	10	10	11	33	5	3	4	12	12	F (± 1%) G (± 2%) J (±5%) K (±10%)
RX27-4H	15	48	12.5	12.5	11	33	5	3	4	12	12	
RX27-4H	20	63	12.5	12.5	11	45	5	3	4	12	12	
RX27-4H	30	75	19	19	12	55	8	3	4	19	19	
RX27-4H	50	90	19	19	12	65	8	3	4	19	19	
RX27-4H	80	108	19	19	12	90	8	3	4	19	19	

RX27 -4L产品尺寸图 (RX27-4L Product Size)

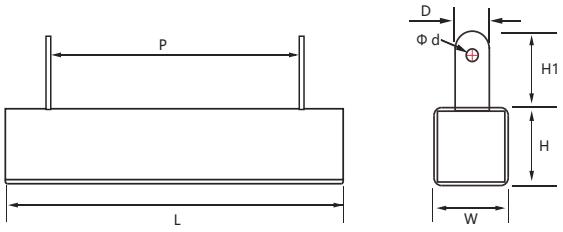




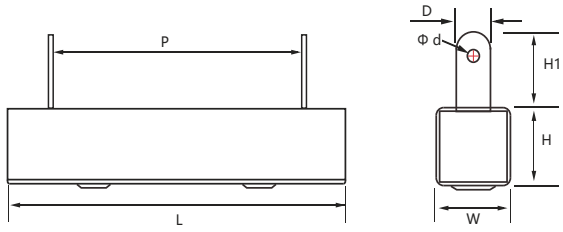
产品尺寸图 (Proufuot Size)

型号 Model	功率 Power 25 ℃ (W)	尺寸 Size (MM)					阻值范围 Resistance Range (Ω)	阻值公差 Optional accuracy range
		L±2	W±1	H±1	H1±1	P±2		
RX27-4L	10	48	13	13	13	28	0R1-1M	J (±5%) K (±10%)
RX27-4L	20	63	13	13	13	45	0RA-1M	

RX27 -4 产品尺寸图 (RX27-4 Product Size)



10W~20W 产品尺寸图 10W~25W Product Size

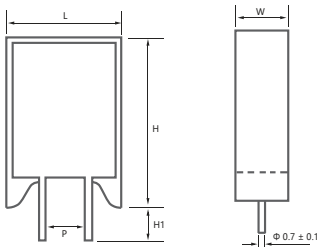


30W~100W 产品尺寸图 30W~100W Product Size

产品尺寸图 (Product Size)

型号 Model	功率 Power 25 ℃ (W)	尺寸 Size (MM)							阻值公差 Optional accuracy range
		L±1	W±1	H±1	H1±1	P±2	D±0.5	Φ d±0.3	
RX27-4	10	48	10	10	11	33	5	3	F (±1%) G (±2%) J (±5%) K (±10%)
RX27-4	15	48	12.5	12.5	11	33	5	3	
RX27-4	20	63	12.5	12.5	11	45	5	3	
RX27-4	30	76	19	19	12	55	8	3	
RX27-4	50	90	19	19	12	65	8	3	
RX27-4	80	108	19	19	12	90	8	3	
RX27-4	100	135	24	24	14	114	8	3	

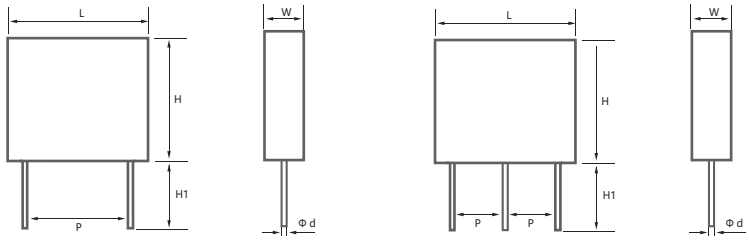
RX27 -5 产品尺寸图 (RX27-5 Product Size)



产品尺寸表 (Derating Curve)

型号 Model	功率 Power 25 ℃ (W)	尺寸 Size (MM)					阻值范围 Resistance Range (Ω)	阻值公差 Optional accuracy range
		L±1	W±1	H±1	H1±1	P± 1		
RX27-5	2.0	11	7	20.5	5	5	0.01~40K	F (± 1%) G (± 2%) J (±5%) K (±10%)
RX27-5	3.0	12	8	25	5	5	0.02~40K	
RX27-5	5.0	13	10	25	5	5	0.02~100K	
RX27-5	7.0	13	10	39	5	5	0.02~100K	
RX27-5	10	13	10	51	5	5	0.02~100K	
RX27-5	10WS	16	12	35	5	7.5	0.02~100K	
RX27-5	15	13	10	51	5	5	0.02~100K	
RX27-5	20	20	13	45	5	7.5	0.02~100K	

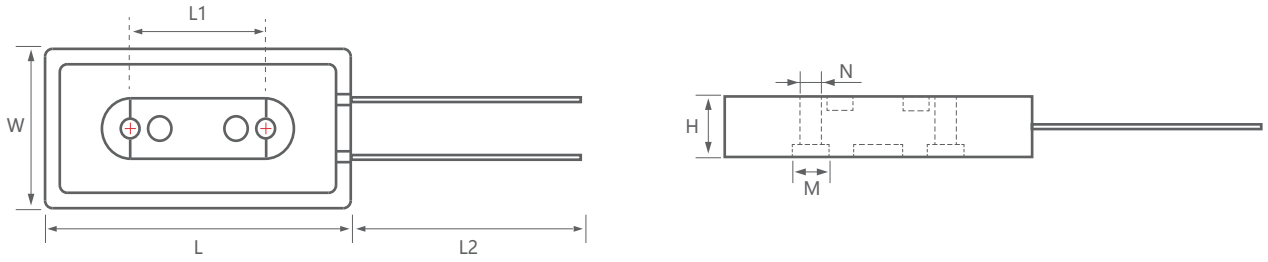
MPR产品尺寸图 (MPR Product Size)



产品尺寸表 (Derating Curve)

型号 Model	功率 Power 25 ℃ (W)	尺寸 Size (MM)						阻值范围 Resistance Range (Ω)	阻值公差 Optional accuracy range
		L±1	W±1	H±1	H1±1	P±1	Φ d±0.1		
MPR	2.0	13	5	8	10	10	0.6	0.02~1	F (± 1%) G (± 2%) J (±5%) K (±10%)
MPR	3.0	13	5	13	10	10	0.75	0.51~1	
MPR	5.0	14	5	18	10	10	0.75	0.51~1	
MPR	5.0	14	7	18	10	20	0.75	0.51~1	
MPR	7.0	26	5	18	10	20	0.75	0.51~1	
MPR	10	26	5	10	10	10	0.75	0.02~1	
MPR	2+2	26	5	13	10	10	0.75	0.02~1	
MPR	3+3	26	5	13	10	10	0.75	0.51~1	
MPR	5+5	26	5	20	10	10	0.75	0.51~1	

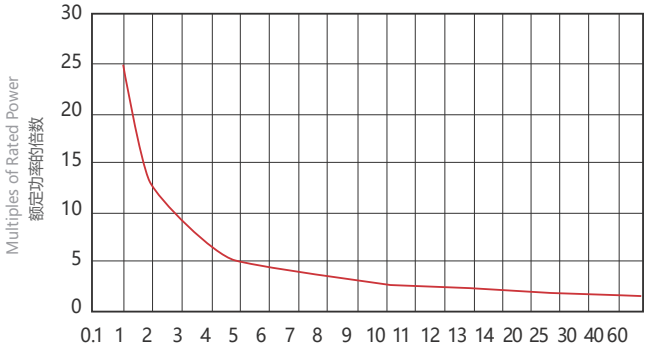
产品尺寸图 (Product Size)



产品尺寸表 (Derating Curve)

型号 Model	功率 Power 25℃ (W)	尺寸 Size (MM)							阻值范围 Resistance Range (Ω)	阻值公差 Optional accuracy range
		L±2	L1±1	L2±10	W±1	H±1	M±0.5	N±0.5		
BKG	60	80	35	100	40	15	10	5	0.68~15K	J (±5%) K (±10%)
BKG	80	90	35	100	45	15	10	5	0.68~18K	

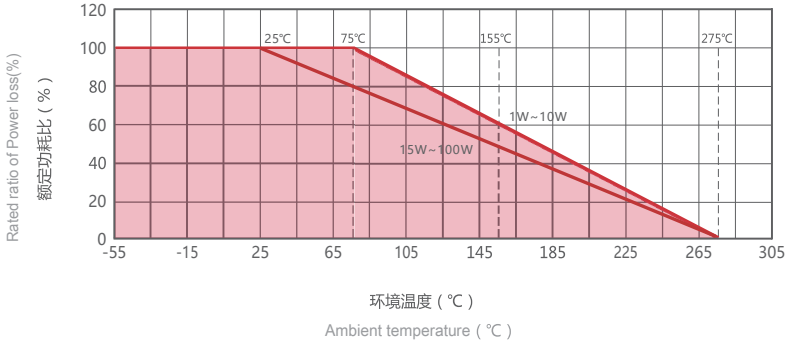
过载曲线图 (Power Overload)



此图表示标准瓷壳系列电阻器的额定功率（20时）在100毫秒到60秒的过载情况下可能增加的量

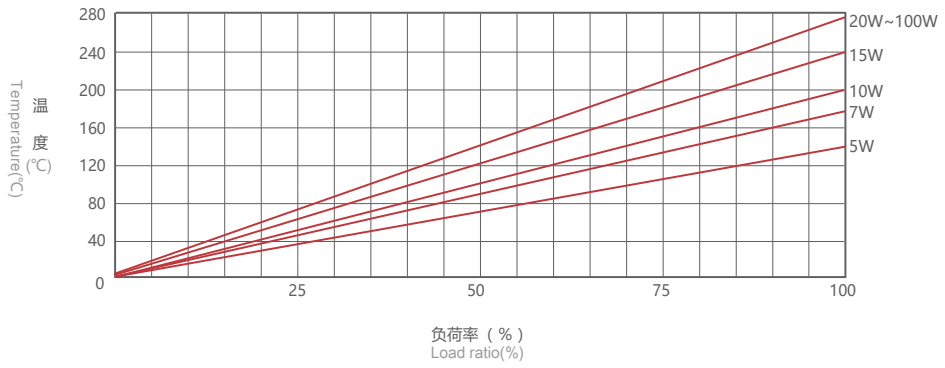
This graph indicates the amount that the rated power (at 20°C) of the standard ceramic shell series resistor may be increased for overloads of 100mS to 60S

降额曲线 (Deraing Curve)



瓷壳电阻
Ceramic Shell Resistor

表面温升 (Surface Temperature Rise)



电气、机械特性 (Mechanical And Electrical Properties)

特 性 Property	检查方法 Inspection method	性能要求 Performance requirements	试验标准 Test method
稳态湿热 Constant humidity-heat	40℃±2℃ 相对湿(度90-95)% 96h Temperature 40℃± 2 ℃,RH(90-95)% 96h	R ≤±(2%±0.05Ω)	GB5729.4.24
温度快速变化 Temperature change	-55℃~+155℃ 5 次循环 -55℃ to +155 ℃,5 Circes	R ≤±(2%±0.05Ω)	GB5729.4.19
短时过负荷 Transient overload	5倍Pr 5S 5 Time Pr 5s	无可见损伤 No visible destruction R≤±(1%±0.05Ω)	GB5729.4.13
绝缘电阻 Insulation resistance	DC 500V	R≥1000MΩ	GB5729.4.6
耐电压 Voltage resistibility	AC1000V 50Hz 5s	无击穿或飞弧 Free of breakage or flying arc	GB5729.4.7
负荷寿命 Life	25℃ Ur 1000h	R ≤±(5%±0.05Ω)	GB5729.4.25
端子强度 Terminal strength	引线直径小于 1.5 10N, 引线线直径大于 1.5 20N The lead line diameter less than 1.5 10N, the diameter more than 1.5 20N	无可见损伤 Free of visible destruction	GB5729.4.16
耐振性 Vibration resistibility	f:5-200HZ a=1g X.Y.Z各2h	无可见损伤 R ≤±(2%R+0.05Ω) Free of visible destruction	GB5729.4.22

成品识别码 (Product Identification Code)

N	BKG	5W	50R	J
无感电阻 Non-inductance	产品类别 Product type	功 率 Rated power 1W-100W	电阻阻值Resistance value(ohm) (Ω)indicates resistance value in units of ohms R08-0.08Ω/ 32R-32Ω /5K-5KΩ	电阻阻值误差 Resistance tolerance F=±1% K=±10% J=±5%

BKG 5W 50RJ (此款产品为常规品5W/50Ω 水泥电阻器 5W/50Ω Resistor)