



电阻元件定制化方案和产品提供商

专业电阻器研发制造厂家

Resistance element customization scheme and product supplier
Professional resistor R & D manufacturer

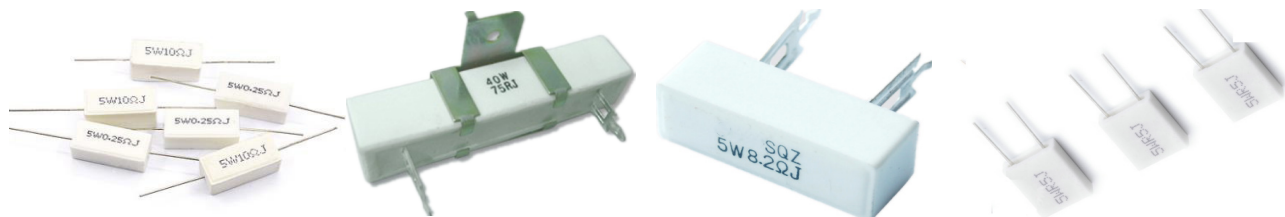
深圳市台旺佳机电有限公司

Shenzhen Taiwangjia Electromechanical Co., Ltd.

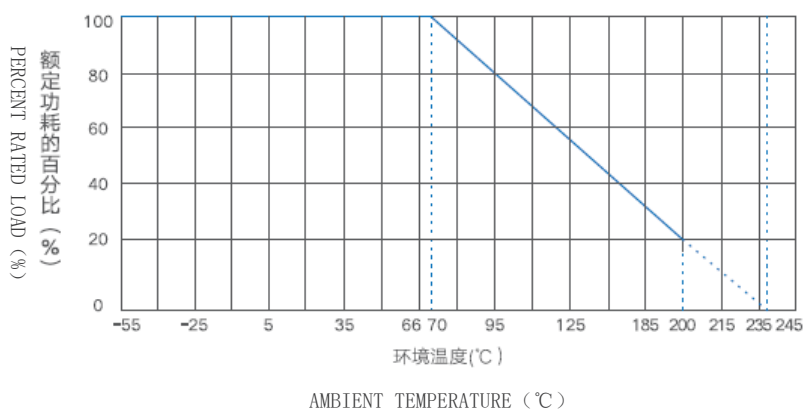
Cement resistor

Product features:

Good heat resistance, low temperature coefficient, low noise, high load power and high insulation. Operating ambient temperature: $-55^{\circ}\text{C} \sim +275^{\circ}\text{C}$, resistance error: $\pm 1\%$, $\pm 2\%$, $\pm 5\%$, $\pm 10\%$.



Power Derating Curve



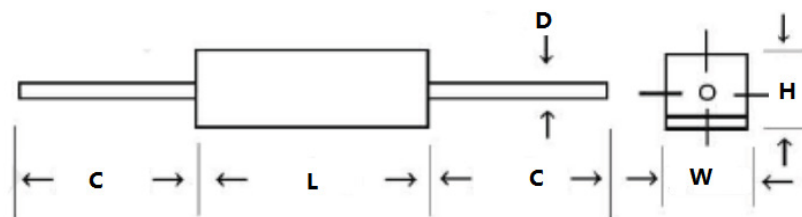
Rated Value

Rate power	Maximum service voltage	Dielectric Withstanding Voltage
2W	150V	1000V
3W	350V	1000V
5W	350V	1000V
7W	500V	1000V
10W	750V	1000V
15W	1000V	1000V
20W	1000V	1000V
30W	1000V	1000V
40W	1000V	1000V
50W	1000V	1000V

Performance index

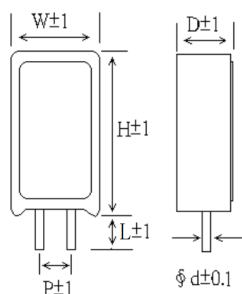
测试项目 Test items	Specification value	Test method(According to JIS C 5202)
温度系数 Temperature coefficient	金属氧化皮膜 Metal oxide film: $\pm 350\text{PPM}/^{\circ}\text{C}$ 电阻线 SHUNT: $\pm 260\text{PPM}/^{\circ}\text{C}$ 金属板 Metal plate: $\pm 350\text{PPM}/^{\circ}\text{C}$	5.2 Xiang reference R0:Resistance measured at room temperature (T0). R1:Resistance value measured after room temperature + 100 °C (T1).
短时间过负荷 Short time overload	$\pm (2\%+0.05\Omega)$ Within. There shall be no mechanical damage.	5.5 Xiang reference rate power $\times 10$ times, 5 seconds. Do not exceed the maximum overload voltage(See table-1)
绝缘电阻 Insulation resistance	103M° Above.	5.6 Xiang reference Apply DC voltage 500V, 60 s.
耐电压 Withstanding voltage	No abnormal conditions such as arc discharge, burning loss and insulation damage.	5.7 Xiang reference Apply the specified AC voltage for 60 s. (See table-1)
焊锡耐热性 Solder heat resistance	$\pm (1\%+0.05^{\circ})$ Within. There shall be no mechanical damage.	6.4 Xiang reference $350\pm 10^{\circ}\text{C}$, $3\pm 1\text{s}$, After testing, lay for half an hour.
焊锡附着性 Solder adhesion	At least 95% of the conductor shall be covered with new tin.	6.5 Item reference solder temperature: $255\pm 5^{\circ}\text{C}$. Tin dipping time: $3\pm 1\text{s}$.

Overall dimension SQP type



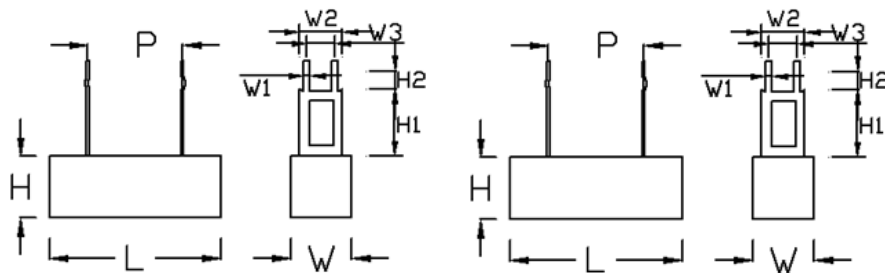
Rate power	尺寸 Dimensions (mm)					Resistance range (Ω)	
	$W \pm 1$	$H \pm 1$	$L \pm 1.5$	$C \pm 3$	$D \pm 0.05$	KN	MO
2W	7	7	18	30	0.8	0.1~270	271~33K
3W	8	8	22	35	0.8	0.1~1K	1K1~47K
5W	10	9	22	35	0.8	0.1~1K	1K1~68K
7W	10	9	35	35	0.8	0.1~1K	1K1~68K
10W	10	9	48	33	0.8	0.1~1K	1K1~50K
15W	12.5	11.5	48	33	0.8	0.1~1K	1K1~150K
20W~25W	14	13.5	60	33	0.8	0.1~1K	1K1~150K

Overall dimension SQM type



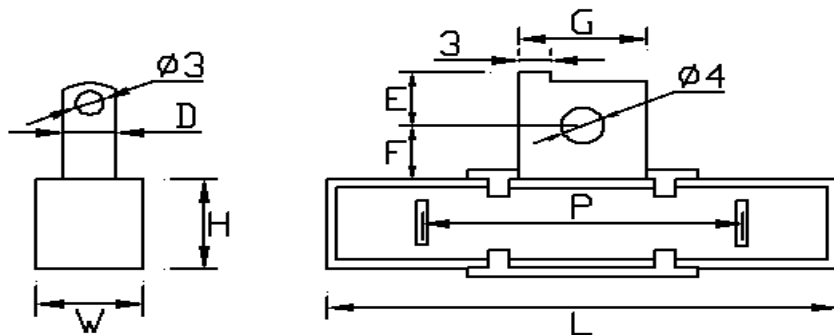
Rate power	尺寸 Dimensions (mm)									Resistance range(Ω)	
	L±1.5	W±1	H±1	P±3	H1±1	H2±0.5	W1±0.5	W2±0.5	W3±0.5	KN	MO
5W	28	10	9	15	10	4.5	1.5	7	5	0.1-130	131-68K
7W	36	10	9	20	10	4.5	1.5	7	5	0.1-600	601-68K
10W	48	10	9	30	10	4.5	1.5	7	5	0.2-1K	1K1-100K
15W	48	12.5	12	30	30	4.5	3.0	10	8	0.2-1K	1K1-100K
20W	63	15	13	42	30	4.5	3.0	10	8	1-1K	1K1-150K
25W	63	15	13	42	30	4.5	3.0	10	8	1-1K	1K1-150K
50W	88	19	19	72	30	4.5	3.0	10	8	1-1K	1K1-150K

Overall dimension SQZ type



Rate power	尺寸 Dimensions (mm)						Resistance range(Ω)	
	W ± 1	D ± 1	H ± 1.5	L ± 1	P ± 1	d ± 0.1	KN	MO
2W	11	7	20.5	5	5	0.8	0.1~270	271~10K
3W	12	8	25	5	5	0.8	0.1~1K	1K1~50K
5W	13	10	25.5	5	5	0.8	0.1~1K	1K1~50K
7W	13	10	39	5	5	0.8	0.1~1K	1K1~47K
10W	13	10	51	5	5	0.8	0.1~1K	1K1~47K

Overall dimension SQHG type



Rate power	尺寸 Dimensions (mm)								Resistance range(Ω)	
	L ± 1.5	W ± 1	H ± 1	P ± 3	D ± 0.5	E ± 0.5	F ± 0.5	G ± 0.5	KN	MO
10W	48	10	10	30	5	5	7	12	0.5 Ω ~ 450 Ω	470 Ω ~ 100K Ω
15W	48	12.5	12	30	6	5	9	12	1 Ω ~ 500 Ω	510 Ω ~ 100K Ω
20W	60	14.5	14	42	6	5	9	12	1 Ω ~ 600 Ω	620 Ω ~ 100K Ω
30W	60	14.5	14	42	6	5	9	12	2 Ω ~ 500 Ω	510 Ω ~ 100K Ω
40W	75	19	19	55	7.5	7	9	18	2 Ω ~ 600 Ω	620 Ω ~ 100K Ω
10W	48	10	10	30	5	5	7	12	0.5 Ω ~ 450 Ω	470 Ω ~ 100K Ω

