

# CERAMIC RESISTOR TO HIGH VOLTAGE SURGE CURRENT

## 耐高壓衝擊固定電阻器

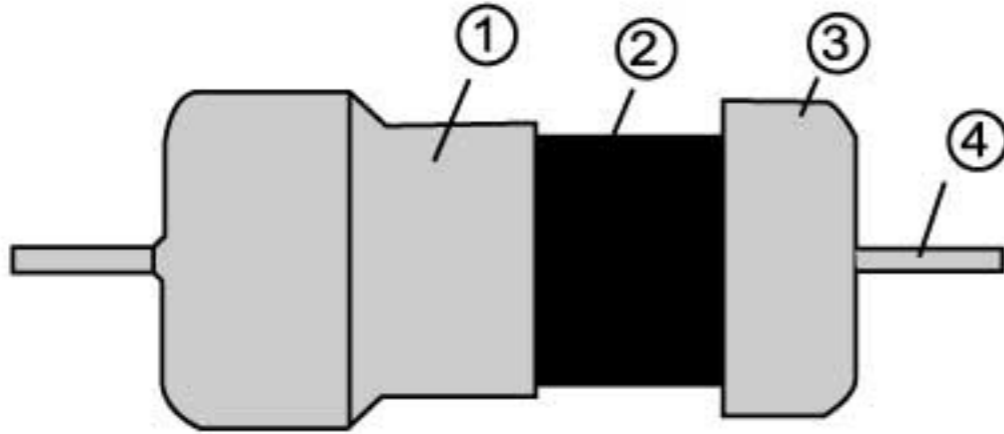


### ● 特點

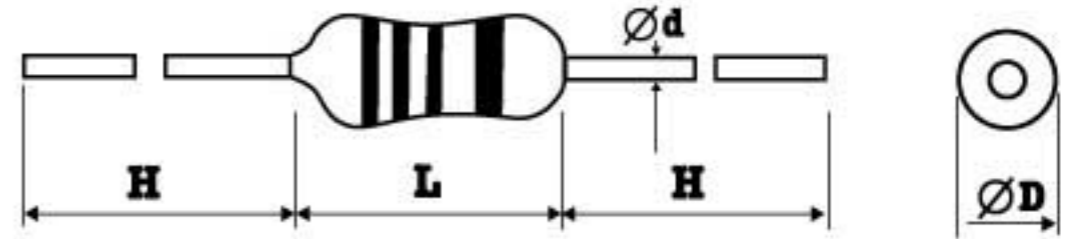
- 耐衝擊特性優與繞線及皮膜電阻器比較不易斷線的優點

### ● Feature

- Excellent characteristic against high voltage surge current  
Higher reliability for disconnection failure comparing to wirewound resistors and film resistors  
Resistance tolerance  $\pm 10\%$ ,  $\pm 20\%$



1	Insulation coating
2	Resistive body
3	End cap
4	Lead wire



### ● 描述 General Specifications

額定電壓 Power Rating	尺寸 (公釐) Dimension(mm)				阻值範圍 (Ω) Resistance Range (Ω)	
	∅D	L	H	∅d		
1/2W	3.5±1	11±2	38±3	0.8±0.1	10Ω~390KΩ ±10%	3.3Ω~330KΩ ±20%
1W	4.5±1	16±2	38±3	0.8±0.1	10Ω~390KΩ ±10%	3.3Ω~330KΩ ±20%
2W	5.0±1	21±2	38±3	0.8±0.1	10Ω~390KΩ ±10%	3.3Ω~330KΩ ±20%
3W	6.0±1	26±2	38±3	0.8±0.1	10Ω~390KΩ ±10%	3.3Ω~330KΩ ±20%
4W	7.0±1	38±2	38±3	1.0±0.1	10Ω~390KΩ ±10%	3.3Ω~330KΩ ±20%
5W	7.5±1	44±2	38±3	1.0±0.1	10Ω~390KΩ ±10%	3.3Ω~330KΩ ±20%

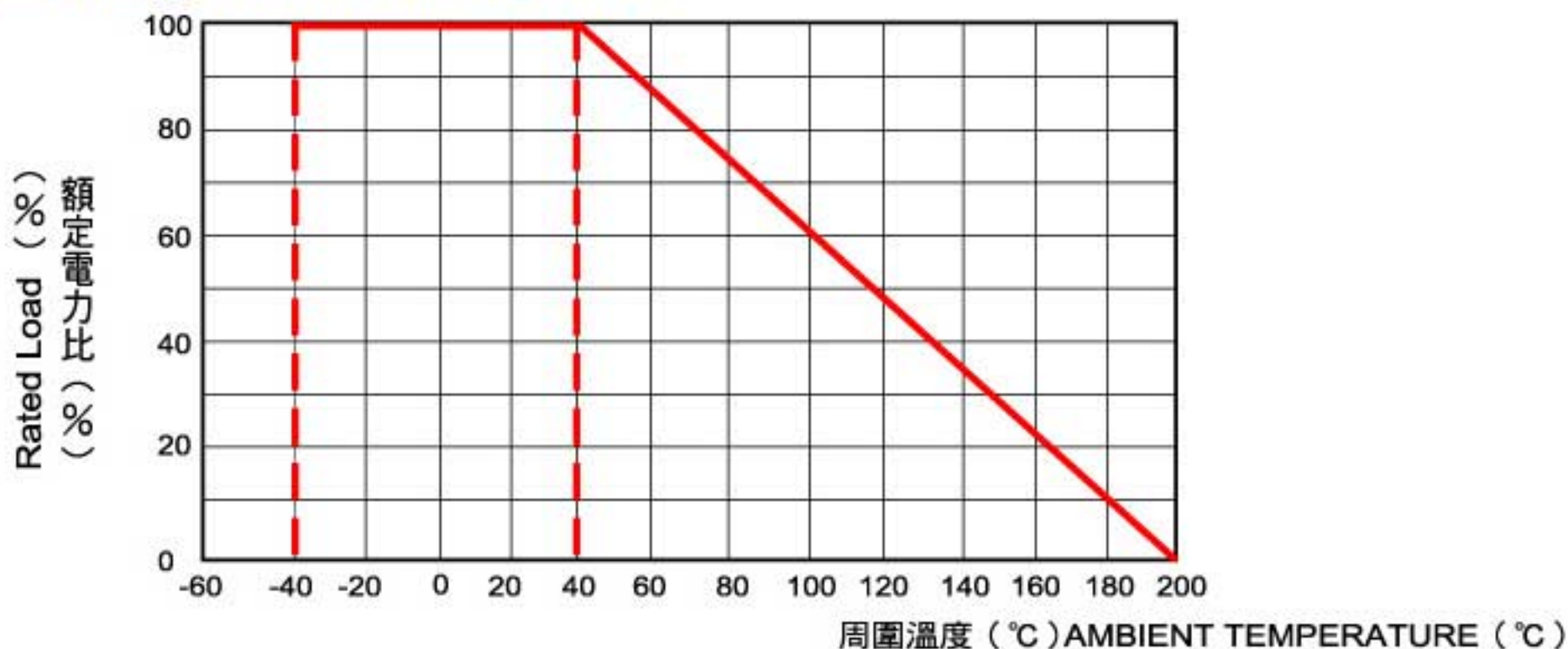
額定功率 Power Rating	最大工作電壓 Max Working Voltage	最大負荷電壓 Max Overload Voltage	耐電壓 Dielectric Withstanding Voltage	衝擊耐壓 Surge Withstanding Voltage
1/2W	200V	400V	700V	8KV
1W	300V	600V	1000V	15KV
2W	400V	800V	1000V	25KV
3W	450V	900V	1000V	25KV
4W	500V	1000V	1000V	25KV
5W	550V	1100V	1000V	25KV

# CERAMIC RESISTOR TO HIGH

## VOLTAGE SURGE CURRENT

### 耐高壓衝擊固定電阻器

#### ● 負載遞減曲線 Power derdting curve



#### ● 品名構成 Type Designation

<u>HPC</u>	<u>1/2W</u>	<u>100KΩ</u>	<u>K(±10%)</u>	容許誤差值 Tolerance	
形式	額定功率	公稱抵抗值	容許誤差值		
Style	Power Rating	Resistance	Tolerance		
				K	M
				±10%	±20%

項目 Item	規格值 Specification	試驗方法 Test Method
使用溫度範圍 Operating Temperature Range	-55°C~+155°C	
溫度特性(JIS C 5202 ) Temperature Coefficient	-1200PPM/°C~±300PPM/°C	測試溫度：室溫+100°C Test Temperature:Room+100°C
耐電壓(JIS C 5202 5.7) Dielectric Withstanding Voltage	無燒損或絕緣性破壞 No flashover or Insulation damage	加ACA電壓於各規格中持續60秒 AC Potential respectively specified in the list for 60 seconds
短時間過負荷(JIS C 5202 5.5) Short Time Over Load	± (2.5% + 0.05Ω)	額定電壓的2.5倍,5秒 2.5 times rated voltage for seconds
溫度循環(JIS C 5202 7.4) Temperature Cycling	± (1% + 0.05Ω)	-55°C +155°C 5次循環 -55°C~+155°C for 5 cycles
耐溼負荷(JIS C 5202 5.7) Load Life in Moisture	± (5% + 0.1Ω)	在溫度40°C 溼度95%RH環境中加額定電壓每1.5小時「ON」, 0.5小時「OFF」, 持續1000小時 Rated voltage 1.5hr "on" 0.5hr "off" At 40°C ,95%RH for 1000hrs
負荷壽命(JIS C 5202 7.10) Load Life	± (5% + 0.1Ω)	在溫度70°C 溼度95%RH環境中加額定電壓1.5小時 (ON) ,0.5小時 (OFF) , 持續1000小時 Rated voltage 1.5hr "on" 0.5hr "off" At 70°C , 95%RH for 1000hrs
焊錫耐熱(JIS C 5202 6.4) Resistance to soldering heat	± (1% + 0.05Ω)	溫度 350°C 3.5秒 350°C for 3.5 seconds
焊錫性(JIS C 5202 6.5) Solderability	覆蓋至少95% At least 95% coverage	溫度 260°C 10秒 260°C, for 10 seconds
衝擊耐壓 Surge Withstanding Voltage	無燒損或絕緣性破壞 No flashover or Insulation damage. ±5%	加入適當電壓2.5秒, "ON", 2.5秒 "OFF" 循環10次 add to suitable voltage 2.5 seconds "ON",2.5 seconds "OFF", for 10times 