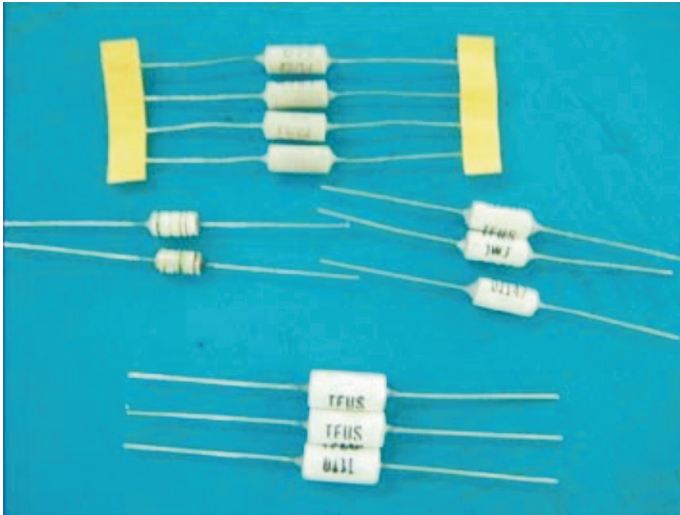


防爆保險型電阻器



STANDARD TYPE
標準品

特點

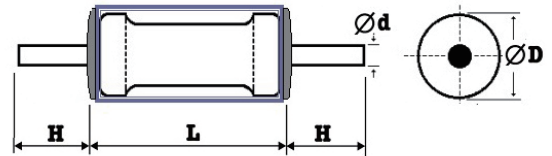
- 確實的熔斷特性
- 不燃性結構
- 阻值範圍：0.1Ω至1KΩ
- 阻值公差：±5%
- 1/4w為色環表示法，1/2W(含)以上為捺印表示法

Features

- The fusible resistor is applied to safety circuit in a wide range of electronic sets.
- Complete flame proof construction
- Resistance range : 0.1 Ω to 0.68 KΩ
- Resistance tolerance : ± 5%
- 1/4W indicate by Colorcode, 1/2W or above indicate by Making Stamp on Resistor

規格 Specifications 1/4W 專用

第五道色環，「黑色」表示防爆保險型電阻器
The 5th color band; TFUS type in "Black"

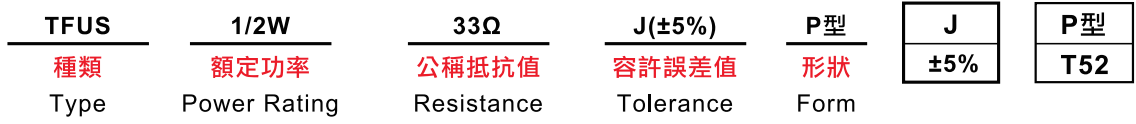


額定功率 Power Rating	尺寸 (公釐) Dimension(mm)				阻值範圍(Ω) Resistance Range(Ω)	最大工作電壓 Max Working Voltage(RCWV) (V)	最大負荷電壓 Max Overload Voltage	耐電壓 Dielectric Withstanding Voltage
	ØD	H	L	Ød				
1/4w	3.6±0.5	25±3	7±1	0.6±0.1	0.1Ω~1.5KΩ	250V	500V	1000V
1/2w	4.3±0.5	25±3	9.5±1	0.6±0.1	0.1Ω~1.5KΩ	250V	500V	1000V
1w	4.3±0.5	25±3	9.5±1	0.6±0.1	0.12Ω~3.6KΩ	350V	600V	1000V
2w	5.5±0.5	25±3	11.5±1	0.8±0.1	0.18Ω~6.8KΩ	350V	600V	1000V

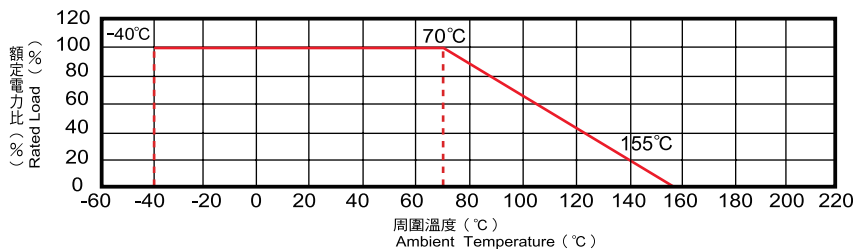
* 額定電壓 = $\sqrt{\text{額定功率} \times \text{阻抗值}}$ ，當額定電壓小於最大工作電壓時，以額定電壓計算，當額定電壓超過最大工作電壓時，以最大工作電壓計算

* $RCWV = \sqrt{\text{Power rating} \times \text{Resistance value}}$ or max RCWV listed above whichever less.

品名構成 Product Identification

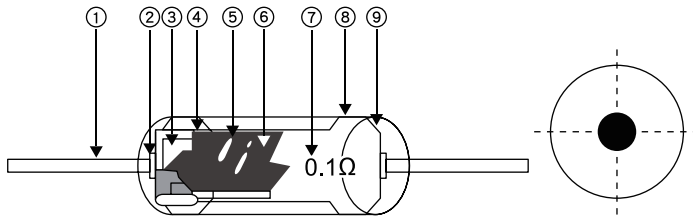


負載遞減曲線 Power Derating Curve



防爆保險型電阻器

● 結構圖 Construction



NO	組成	Item
1	端子線	Lead wire
2	鐵帽與端線的連接點	Connection
3	陶瓷棒	Ceramic core
4	鐵帽	Terminal
5	切割線或繞線	Cutting groove or wire wound
6	導電薄膜或線材	Resistor element
7	蓋印	Indication
8	塗料	Finishing painting
9	陶瓷管	Ceramic case

● 特性 Characteristic

項目 Item	規格值 Performance	試驗方法 (依據 JIS.C.5201) Test methods(Conform to JIS.C.5201)																														
溫度係數 Temperature Coefficient	±350PPM/°C (±500PPM/°C <math>C < 1 \Omega</math>)	5.2項參照 Comply with 5.2 $\frac{R_1 - R_0}{R_0(T_1 - T_0)} \times 10^6 (\text{PPM}/^\circ\text{C})$ R ₀ :室溫 (T ₀) 所測量之電阻值 R ₁ :室溫+100° C (T ₁) 後所測量之電阻值 R ₀ :Resistance value at room temp(T ₀) R ₁ :Resistance value at room temp plus 100° C(T ₁)																														
短時間過負荷 Short time overload	±(2%+0.1Ω)以內 不得有機械的損傷 Within ±(2%+0.1Ω) No evidence of mechanical damage	5.5項參照 Comply with 5.5 額定電壓×2.5倍·5秒 不可超過最大過負荷電壓 Rated voltage x 2.5 times · 5s But not to exceed Maximum overload Voltage																														
焊錫附著性 Solderability	導線至少95%以上新錫覆蓋 Covered with new solder by 95% at least	6.5項參照 Comply with 6.5 焊錫溫度: 260±5° C 浸錫時間: 10±1.0秒 Test temperature of solder: 260±5° C Dipping time in solder: 10±1.0s																														
耐電壓 Dielectric Withstanding Voltage	無電弧放電、燒損及絕緣破壞等異狀 No evidence of flashover mechanical damage, arcing or insulation breakdown	5.7項參照 Comply with 5.7 常壓·置於V槽方法 施加個別規定之交流電壓60秒 Constant pressure, V-block method Resistor shall be tested at AC potential respectively for 60 seconds																														
溫度循環 Temperature cycle	±(1%+0.1Ω)以內 不得有機械的損傷 Within ±(5%+0.05Ω) No evidence of mechanical damage	7.4項參照 Comply with 7.4 低溫測: -55° C/30分, 室溫: 10~15分鐘 高溫測: +155° C/30分, 室溫: 10~15分鐘 5回 Low side: -55° C/30min, Room temp.: 10 to 15min High side: 155° C/30min, Room temp.: 10 to 15min 5 cycles																														
耐濕負荷壽命 Load life in humidity	±(5%+0.1Ω)以內 Within ±(2%+0.1Ω)	7.9項參照 Comply with 7.9 40±2° C · 濕度90~95%, 1000小時 定隔電壓 (90分鐘ON · 30分鐘OFF) 40±2° C, 90 to 95%RH, 1000h Rated voltage (90 min ON, 30 min OFF)																														
負荷壽命 Load life	±(5%+0.1Ω)以內 Within ±(5%+0.1Ω)	7.10項參照 Comply with 7.10 70±3° C · 1000小時 定格電壓 (90分鐘ON · 30分鐘OFF) 70±3° C, 1000h Rated voltage (90 min ON, 30 min OFF)																														
熔斷特性 Fusing Characteristics	<table border="1"> <thead> <tr> <th>倍數 Time</th> <th>x42 (30S以下)</th> <th>x32 (30S以下)</th> <th>x20 (22S以下)</th> <th>x17 (30S以下)</th> <th>x14 (30S以下)</th> </tr> </thead> <tbody> <tr> <td>額定電力 Power Rating</td> <td>1/4W</td> <td>0.1~0.18Ω</td> <td>0.2~0.43Ω</td> <td>0.47~0.91Ω</td> <td>1.0~4.7Ω 2.4K~10KΩ</td> <td>5.1~2.2KΩ</td> </tr> <tr> <td></td> <td>x18(60 S以下)</td> <td>x22(40 S以下)</td> <td>x26(30 S以下)</td> <td>x30(20 S以下)</td> <td>x34(15 S以下)</td> </tr> <tr> <td></td> <td>1/2W 1W 2W</td> <td>0.1~0.18Ω</td> <td>0.2~0.43Ω</td> <td>0.47~0.91Ω</td> <td>1.0~4.7Ω 2.4K~10KΩ</td> <td>5.1~2.2KΩ</td> </tr> </tbody> </table>	倍數 Time	x42 (30S以下)	x32 (30S以下)	x20 (22S以下)	x17 (30S以下)	x14 (30S以下)	額定電力 Power Rating	1/4W	0.1~0.18Ω	0.2~0.43Ω	0.47~0.91Ω	1.0~4.7Ω 2.4K~10KΩ	5.1~2.2KΩ		x18(60 S以下)	x22(40 S以下)	x26(30 S以下)	x30(20 S以下)	x34(15 S以下)		1/2W 1W 2W	0.1~0.18Ω	0.2~0.43Ω	0.47~0.91Ω	1.0~4.7Ω 2.4K~10KΩ	5.1~2.2KΩ					
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* 熔斷電壓=√(額定功率 × 組抗值 × 倍數) * Fusing Voltage = √Power rating × Resistance value × Times																																

*可依客戶要求測試IEC/GB標準

● 特性 Characteristic

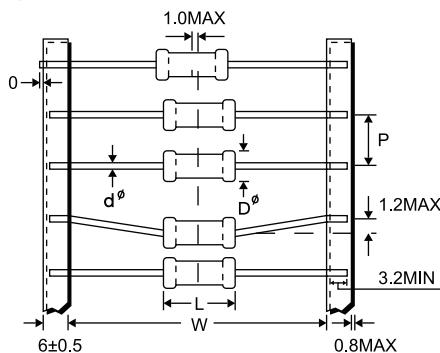


Table Unit: mm

Rated Power	W	L	Dφ	P	dφ
1/4	52±1	7±0.5	3.6±0.1	5±0.5	0.6±0.05
1/2 · 1	52±1	9.5±0.5	4.3±0.1	5±0.5	0.6±0.05
2	52±1	11.5±0.5	5.5±0.1	10±0.5	0.8±0.05