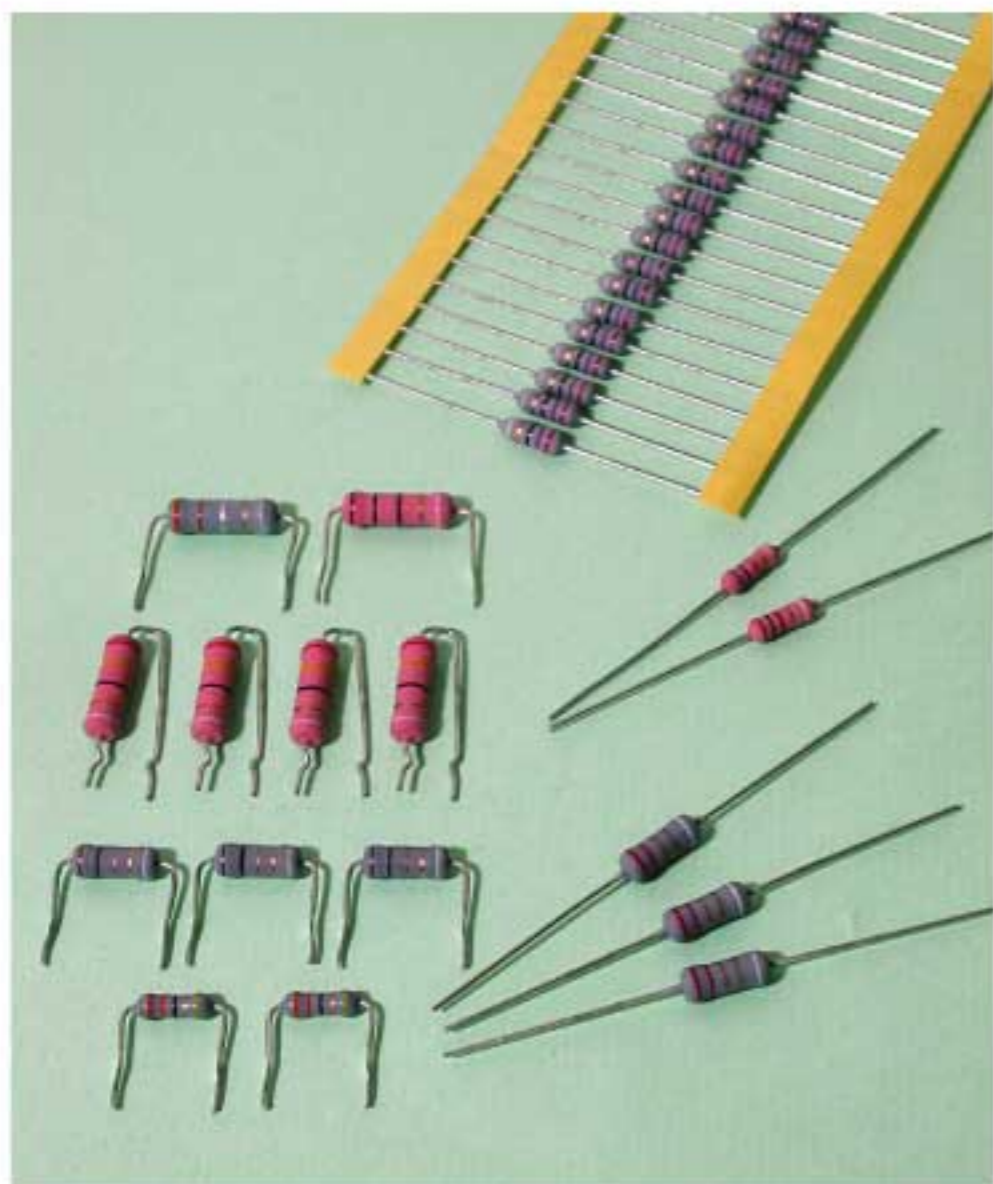


FUSIBLE METAL FILM RESISTOR

保險絲電阻

STANDARD TYPE
標準品
MINIATURE TYPE
小型品



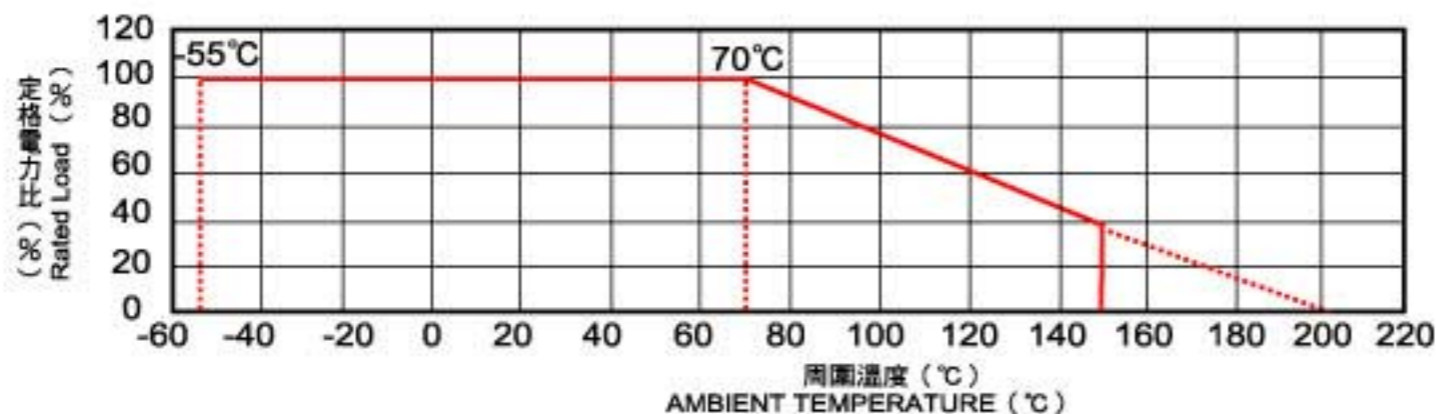
● 特點

- 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%
- 第5道色碼用以識別Fusible Metal Film

● Feature

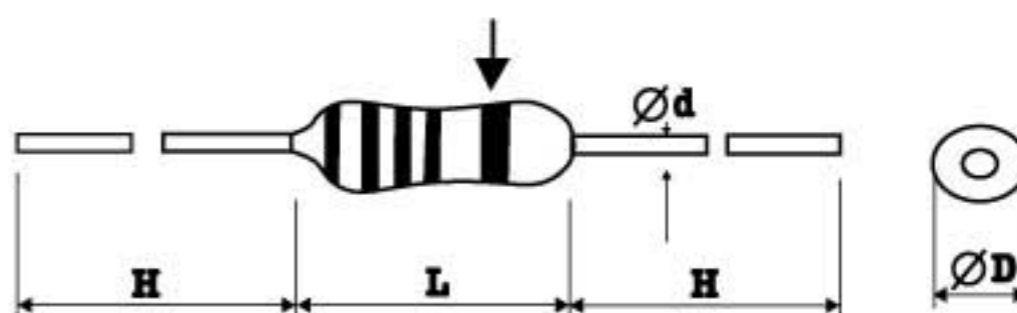
- The fabric resistor is applied to safety circuit in a wide range of electronic sets.
- Complete flame proof construction
- Resistance range : 0.1Ω to 1KΩ
- Resistance tolerance : ±5%
- There are 5 color bands on surface. The 5th band is in white color means Fusible metal film resistor.

● 負載遞減曲線 Power Derating Curve



● 描述 General Specifications

第5道色碼，「白色」表示保險絲形電阻
The 5th color band; Fuse type in "White"



電阻表面塗裝 Coating Color: 標準品以「灰色」表示，小型品以「粉紅色」表示
Standard type in "Gray" color, Mini-type in "Pink" color

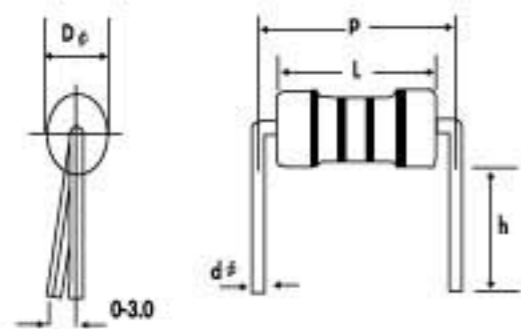
額定功率 Power Rating	尺寸 (公釐) Dimension (mm)				阻值範圍 (Ω) Resistance Range (Ω)	最大開路電壓 Maximum Open Voltage (V)	最大繼續過負荷電壓 Maximum Intermittent Overload Voltage	耐電壓 Dielectric Withstanding Voltage
	ØD	L	H	Ød				
1/4W	2±0.5	6±0.5	28±3	0.56±0.05	0.1Ω~1KΩ	150V	3 times of rated voltage	300V
1/2WS	2±0.5	6±0.5	28±3	0.56±0.05	0.1Ω~1KΩ	250V		300V
1/2W	3±0.5	9±1	28±3	0.56±0.05	0.1Ω~1KΩ	250V		350V
1WS	3±0.5	9±1	28±3	0.8±0.1	0.1Ω~1KΩ	250V		350V
1W	4±0.5	11±1	30±3	0.8±0.1	0.1Ω~1KΩ	250V		350V
2WS	4±0.5	11±1	30±3	0.8±0.1	0.1Ω~1KΩ	250V		350V
2W	5±0.5	15±1	33±3	0.8±0.1	0.1Ω~1KΩ	250V		500V
3WS	5±0.5	15±1	33±3	0.8±0.1	0.1Ω~1KΩ	300V		500V
3W	7.5±1.0	24±1	40±3	0.8±0.1	0.1Ω~1KΩ	300V		600V
5WS	7.5±1.0	24±1	40±3	0.8±0.1	0.1Ω~1KΩ	300V		600V

FUSIBLE METAL FILM RESISTOR

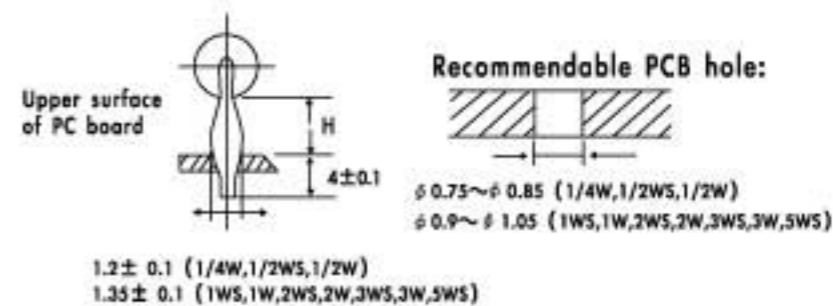
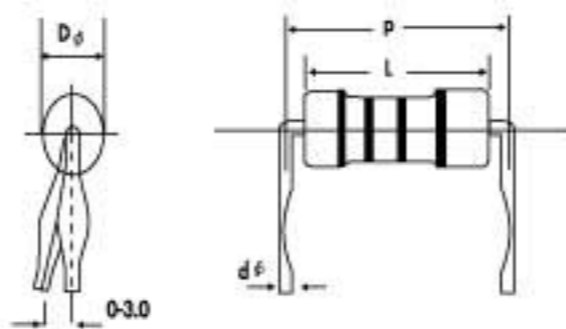
保險絲電阻

● 成型型式 Form type:

M 型 M Type



MG型 MG Type



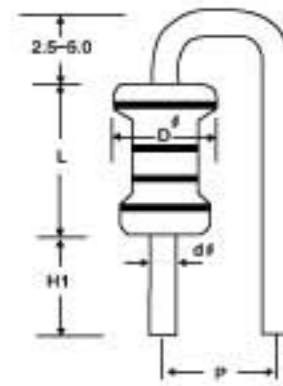
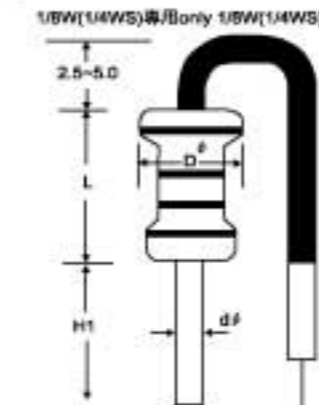
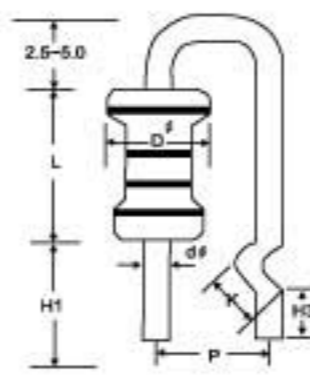
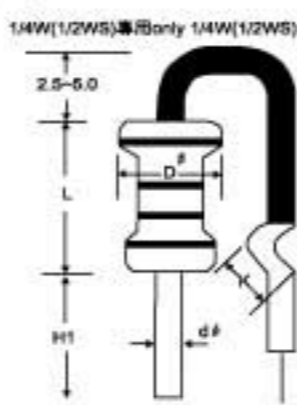
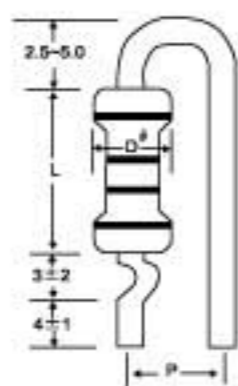
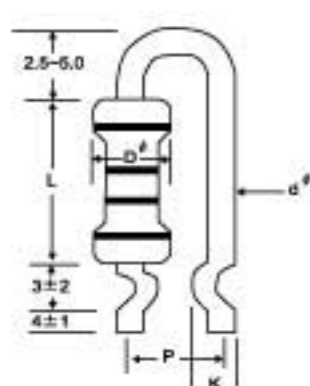
額定功率 Power Rating		$L \pm 1$	$D\phi \pm 0.5$	$H \pm 2$	$h \pm 2$	$d\phi \pm 0.1$	P
標準品 STD type	小型品 Mini-type						
1/4W	1/2WS	6 ± 0.5	2	7	11	0.56 ± 0.05	10 ± 0.5
1/2W	1WS	9	3	7	11	$0.56 \pm 0.05/0.8$	$12.5 \pm 1/15 \pm 1$
1W	2WS	11	4	7	11	0.8	15 ± 2
2W	3WS	15	5	7	11	0.8	20 ± 2
3W	5WS	24	7.5 ± 1.0	10	15	0.8	30 ± 2

FKK型 FKK Type

FKN型 FKN Type

FNK型 FNK Type

FNN型 FNN Type

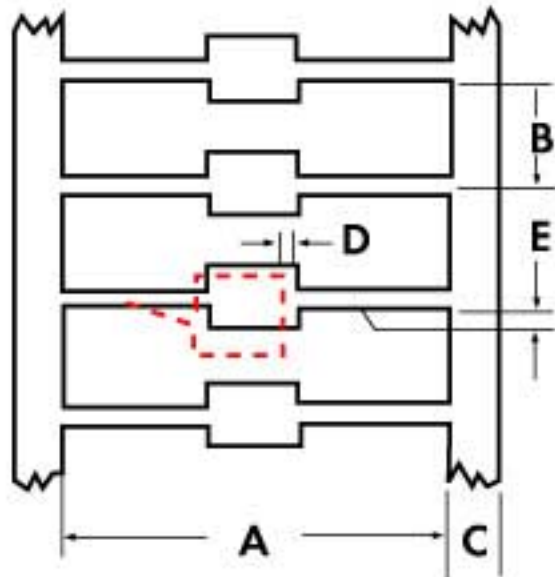


額定功率 Power Rating		$L \pm 1$	$D\phi \pm 0.5$	$H1 \pm 2$	$H3 \pm 2$	$d\phi \pm 0.1$	P ± 2	K ± 0.5
標準品 STD type	小型品 Mini-type							
1/4W	1/2WS	6	2	5 ± 1.0	4	0.56 ± 0.05	6.5	1.5
1/2W	1WS	9	3	7.5		$0.56 \pm 0.05/0.8$	6.5	1.5
1W	2WS	11	4	7.5		0.8	10	1.5
2W	3WS	15	5	7.5		0.8	10	1.5
3W	5WS	24	7.5 ± 1.0	10		0.8	15	1.5

FUSIBLE METAL FILM RESISTOR

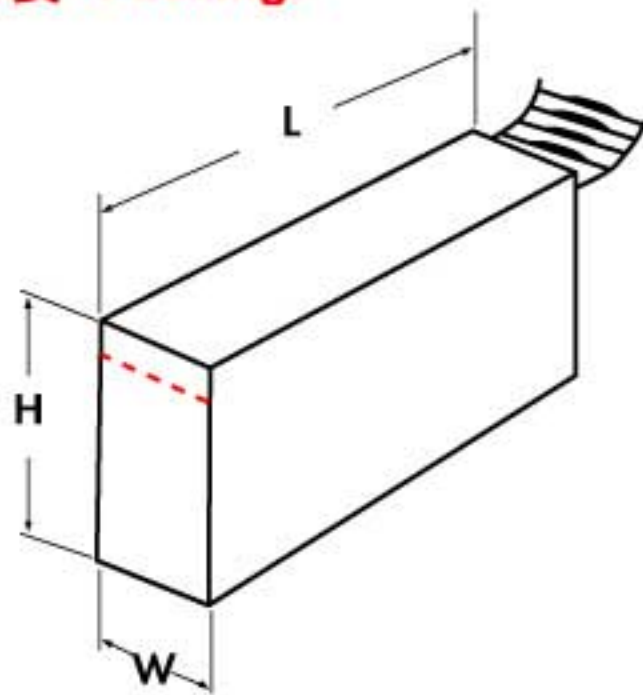
保險絲電阻

● 帶狀&包裝說明 Specifications of Tape & Packing



額定功率 Power Rating		Type/Size	A (mm)	B (mm)	C±1 (mm)	D max (mm)	E max (mm)
標準品 STD type	小型品 Mini-type						
1/4W	1/2Ws	T26	26±1/-0	5±0.5	6	0.6	1.2
		T52	52±1	5±0.5	6	0.6	1.2
1/2W	1Ws	T52	52±1	5±0.5	6	0.6	1.2
1W	2Ws	T52	52±1	5±0.5	6	0.6	1.2
		T63	63±1	5±0.5	6	0.6	1.2
2W	3Ws	T52	52±1	10±0.5	6	0.6	1.2
		T63	63±1	10±0.5	6	0.6	1.2
		T73	73±1	10±0.5	6	0.6	1.2

● 包裝 Packing:



額定功率 Power Rating		Type/Size	數量 Quantity (pcs)	W±5 (mm)	L±5 (mm)	H±5 (mm)
標準品 STD type	小型品 Mini-type					
1/4W	1/2Ws	T26	5000	50	260	105
		T52	5000	77	260	100
1/2W	1Ws	T52	2000	77	260	87
1W	2Ws	T52	1000	77	260	100
		T63	1000	85	260	85
2W	3Ws	T52	1000	77	260	87
		T63	1000	85	260	97
		T73	1000	100	260	97

● 品名構成 Type designation

<u>FUS</u>	<u>1/2W</u>	<u>33Ω</u>	<u>J(±5%)</u>	<u>T52型</u>
種類	額定功率	公稱抵抗值	容許誤差值	型式
<i>Pace</i>	<i>Power Rating</i>	<i>Resistance</i>	<i>Tolerance</i>	<i>Form</i>

容許誤差值 *Tolerance* ●

J
±5%

型式 *Form*

M型	MG型	P型	FKK型	FKN型
FNK型	FNN型	T52	T63	T73

● 特性 Characteristics

特性項目 <i>Characteristics</i>	規格值 <i>Specifications</i>	試驗方式 <i>Test Method</i>	JIS.C.5202
使用溫度範圍 <i>Operating Temperature Range</i>	-55°C ~ +155°C		
絕緣電阻 <i>Insulation Resistance</i>	1000MΩ minimum		
耐電壓 <i>Dielectric Withstanding Voltage</i>	無燒損或絕緣性破壞 <i>No flashover of insulation damage</i>	加AC電壓於各規格中持續1分鐘 <i>AC Potential respectively specified in the list for 60 seconds</i>	

FUSIBLE METAL FILM RESISTOR

保險絲電阻

溫度特性 <i>Temperature Coefficient</i>	$\pm 200\text{PPM}/^{\circ}\text{C}$ ($\pm 500\text{PPM}/^{\circ}\text{C} < 1\Omega$)	試驗溫度：室溫+100°C <i>Test Temperature: Room Temperature+100°C</i>
短時間過負荷 <i>Short Time Over Load</i>	$\pm(2\%+0.05\Omega)$	額定電壓的2.5倍，5秒 <i>2.5 times rated voltage for 5 seconds</i>
溫度循環 <i>Temperature Cycling</i>	$\pm(1\%+0.05\Omega)$	-40°C~85°C，5次循環 <i>-40°C~85°C for 5 cycles</i>
耐濕負荷 <i>Load Life in Moisture</i>	$\pm 5\%$	在溫度40°C，溼度95%RH環境額定電壓1.5小時「ON」，0.5小時「OFF」持續1000小時 <i>Rated voltage 1.5hr "on", 0.5hr "off" at 40°C, 95% RH for 1000 hrs.</i>
負荷壽命 <i>Load Life</i>	$\pm 5\%$	在溫度70°C，環境額定電壓1.5小時「ON」，0.5小時「OFF」持續1000小時 <i>Rated voltage 1.5hr "on", 0.5hr "off" at 70°C for 1000 hrs.</i>
焊錫性 <i>Solderability</i>	覆蓋至少95% <i>At least 95% coverage</i>	溫度260°C，10秒 <i>260°C for 10 seconds</i>
焊錫耐熱 <i>Heat resistance of solder</i>	$\pm(1\%+0.05\Omega)$	溫度350°C，3.5秒 <i>350°C for 3.5 seconds</i>

● 熔斷特性 Fusing Characteristics

Times 倍數 額定功率 <i>Power Rating</i>	X 16	X 25	X 32	熔斷時間 <i>Fusing time</i>
1/4W	2.1Ω~1K	1.1Ω~2Ω	0.1Ω~1Ω	Under 60 sec.
1/2W				
1W				
2W				
3W				

* 熔斷電壓 = $\sqrt{\text{額定功率} \times \text{阻抗值} \times \text{倍數}}$

* Fusing Voltage = $\sqrt{\text{Power rating} \times \text{Resistance value} \times \text{Times}}$