

# 金屬皮膜電阻器

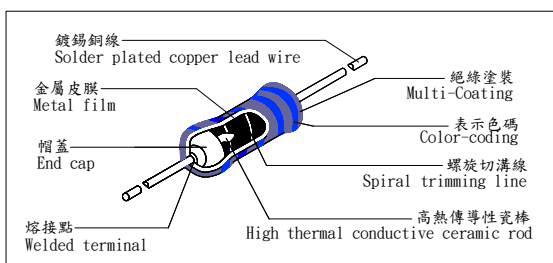
## METAL FILM RESISTORS

### 製品介紹 INTRODUCTION

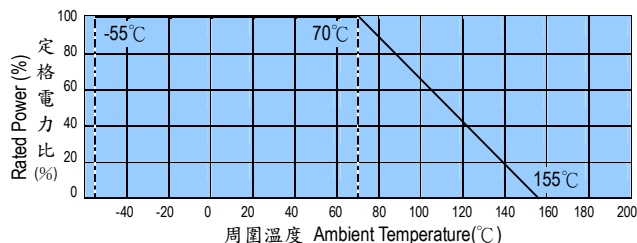
**SN** 金屬皮膜電阻器，屬於高性能之精密電阻器，適用於精密電子回路。

**SN**, Metal film resistor, is a precise and functional resistor. It is suitable for applications on precise electronic circuits.

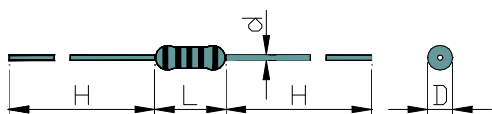
### 構造 CONSTRUCTION



### 負荷輕減曲線 DERATING CURVE



### 形狀 STYLE



### 尺寸 DIMENSIONS

形名 Type	尺寸 Dimensions(mm)				額定電力 Power Rating	最高使用電壓 Max. Working Voltage	最高過負荷電壓 Max. Overload Voltage	耐電壓 Dielectric Withstanding Volt.	電阻值範圍 Resistance Range	
	L	D	d	H						
普通型 Normal size	SN1/6W	3.2±0.2	1.8±0.2	0.45±0.05	28±3	0.16W	200V	400V	300V	10Ω~1MΩ
	SN1/4W	6.5±0.5	2.3±0.3	0.55±0.05	28±3	0.25W	250V	500V	500V	10Ω~2MΩ
	SN1/2W	9.0±1.0	3.2±0.5	0.65±0.05	28±3	0.5W	350V	700V	500V	10Ω~2MΩ
	SN1W	12.0±1.0	4.5±0.5	0.80±0.05	32±3	1W	500V	1000V	700V	10Ω~2MΩ
	SN2W	15.5±1.0	5.0±1.0	0.80±0.05	35±3	2W	500V	1000V	900V	10Ω~2MΩ
小型化 Small size	SN1/4WS	3.2±0.2	1.8±0.2	0.50±0.05	28±3	0.25W	200V	400V	300V	10Ω~1MΩ
	SN1/2WS	6.5±0.5	2.3±0.3	0.55±0.05	28±3	0.5W	250V	500V	500V	10Ω~2MΩ
	SN1WS	9.0±1.0	3.2±0.5	0.65±0.05	28±3	1W	350V	700V	500V	10Ω~2MΩ
	SN2WS	12.0±1.0	4.5±0.5	0.80±0.05	32±3	2W	500V	1000V	700V	10Ω~2MΩ
SN3WS	15.5±1.0	5.0±1.0	0.80±0.05	35±3	3W	500V	1000V	900V	10Ω~2MΩ	

NOTE: Special specification can be constructed on request.

### 訂貨方式 HOW TO ORDER

SN	1/4W	T52	F	10K																																																
種類 Type	額定電力 Power Rating	形狀 / 包裝方式 Form / Packaging	電阻值誤差率 Resistance Tolerance	公稱電阻值 Nominal Resistance																																																
	<table border="1"> <tr><th>Normal Size</th><th>Small Size</th></tr> <tr><td>1/6W</td><td>1/4WS</td></tr> <tr><td>1/4W</td><td>1/2WS</td></tr> <tr><td>1/2W</td><td>1WS</td></tr> <tr><td>1W</td><td>2WS</td></tr> <tr><td>2W</td><td>3WS</td></tr> </table>	Normal Size	Small Size	1/6W	1/4WS	1/4W	1/2WS	1/2W	1WS	1W	2WS	2W	3WS	<table border="1"> <tr><th>P</th><td>Bulk (Straight)</td></tr> <tr><th>M</th><td>Bulk, M-Form series (Horizontal Forming)</td></tr> <tr><th>F</th><td>Bulk, F-Form series (Vertical Forming)</td></tr> <tr><th>Txx</th><td>Boxed (26,52,63,73,83mm width taping)</td></tr> <tr><th>T/R</th><td>Tape on reel packing</td></tr> <tr><th>PN</th><td>Radial taping pana-sert</td></tr> </table>	P	Bulk (Straight)	M	Bulk, M-Form series (Horizontal Forming)	F	Bulk, F-Form series (Vertical Forming)	Txx	Boxed (26,52,63,73,83mm width taping)	T/R	Tape on reel packing	PN	Radial taping pana-sert	<table border="1"> <tr><th>B</th><td>±0.1%</td></tr> <tr><th>C</th><td>±0.25%</td></tr> <tr><th>D</th><td>±0.5%</td></tr> <tr><th>F</th><td>±1%</td></tr> <tr><th>G</th><td>±2%</td></tr> <tr><th>J</th><td>±5%</td></tr> </table>	B	±0.1%	C	±0.25%	D	±0.5%	F	±1%	G	±2%	J	±5%	<table border="1"> <tr><th colspan="2">4-Digit: E-96, 24 Series</th></tr> <tr><td>e.g.</td><td>0R12 = 0.12Ω</td></tr> <tr><td></td><td>120R = 120Ω</td></tr> <tr><td></td><td>1K2 = 1.2KΩ</td></tr> <tr><td></td><td>12K = 12KΩ</td></tr> <tr><td></td><td>12M = 12MΩ</td></tr> </table>	4-Digit: E-96, 24 Series		e.g.	0R12 = 0.12Ω		120R = 120Ω		1K2 = 1.2KΩ		12K = 12KΩ		12M = 12MΩ
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### 特長 FEATURES

- 高安定性 High stability
- 低雜音，低溫度係數 Low noise, Low temp. coefficient
- 精密特性 Precision characteristics

### 特性 CHARACTERISTICS

試驗項目 Test Items	規格值 Specified Value
溫度係數 Temp. coefficient of resistance	±100PPM/°C
短時間過負荷 Short time overload	±(0.5%+0.05Ω)
耐電壓 Dielectric withstanding voltage	無損壞的異狀 No evidence of damage
絕緣抵抗 Insulation resistance	Over 10 <sup>4</sup> MΩ
端子強度 Terminal strength	無損壞的異狀 No evidence of damage
耐久性(耐濕負荷) Moisture load life	±(1.5%+0.05Ω)
耐久性(定格負荷)70°C Load life at 70°C	±(2%+0.05Ω)
溫度循環 Temperature cycling	±(1%+0.05Ω)
焊錫耐熱性 Resistance to soldering heat	±(0.5%+0.05Ω)
焊錫附著性 Solderability	Over 95%
耐溶劑性 Resistance to solvent	無損壞的異狀 No evidence of damage