

FUSIBLE METAL FILM RESISTORS

電阻式保險絲電阻

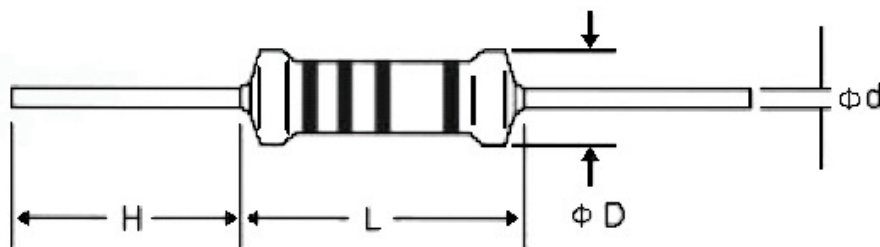
INTRODUCTION

There are some similarities between Resistor and Fuses in material and structure. Fusible Resistors contain both functions as being resistor in normal condition and changed into fuse while abnormal current comes in to protect machine and equipment. Since two functions performed by one resistor, the cost therefore saved. Fusible Resistor series are produced with precision technique, enabling precise fusing time and stabilized, aiming to reach best quality resistors.

FEATURES

- * It is suitably used in transistor protection circuit.
- * Small in size with competitive price
- * Noncombustible insulating coat. "Freon" Proof and resistant to high temperature
- * Low temperature coefficient.
- * Uniform in fusing time.

DIMENSIONS



SPECIFICATIONS

TYPE		DIMENSION (mm)				POWER RATING	MAXIMUM WORKING VOLTAGE	MAXIMUM OVERLOAD VOLTAGE	RESISTANCE RANGE ±5%(J)	
FUSE		L±1	D±0.5	H(MIN)	d±0.05					
1/4W	1/2WS	5.5	2.0	25	0.50±0.1	1/4W	----	300V	500V	0.1Ω-47KΩ
1/2W	1WS	8.5	3.0	25	0.66±0.1	1/2W	1/2WS	350V	700V	0.1Ω-47KΩ
1W	2WS	11.0	4.0	27	0.68±0.1	1W	1WS	500V	1000V	0.1Ω-47KΩ
2W	3WS	15.0	4.5	27	0.75±0.1	2W	2WS	500V	1000V	0.1Ω-47KΩ

電阻器與保險絲在材質及構造上本身就有類似處，而保險絲電阻器兼備二者的功能，平時可當做電阻器使用，一旦電流異常時就發揮其保險絲的作用來保護機器設備。由於有二用的功能故成本隨之降低。本公司生產的保險絲金屬皮膜電阻器，具有高精密的製造技術，使得熔斷特性和沖激功能更臻精確及穩定，而達到更高品質性能的產品。

特性

- * 適用於保護電路基板上之電晶體。
- * 小形耐用，具有競爭性價格。
- * 不燃性絕緣塗裝，可耐"FREON"溶劑及適高溫。
- * 溫度係數低。

CHARACTERISTICS 性能

測試項目 TEST ITEMS	測試條件 TEST CONDITION		試驗方法 TEST METHOD				
			J I S C 5202				
溫度係數 Temp. Coefficient (ppm/°C)	4 R 7 以下	1000PPM/°C	5.2 室溫+100°C				
	5 R 1 以上	350PPM/°C					
短時間過負荷 Short Time Overload	±1% +0.05Ω		5.5 條件A				
絕緣電阻 Insulation Resistance	10000MΩ以上 DC100v		5.6 條件A				
耐電壓 Dielectric Withstanding Voltage	±0.50% +0.05Ω		5.7 下表最高定格電壓				
			定格電力	1/4W	1/2W	1W	2W
			印加電壓 DC (V)	250	300	350	800
			最高電壓				
斷續過負荷 Pulse Overload	±2.5%		5.8 定格×3倍100R以上 依最高印加電壓				
焊錫性 Solder Pot	覆蓋95%以上		6.5 230°C 3sec				
溫度循環 Temp. Cycling	± (1 % +0.05Ω)		7.4 -405°C 5cycle				
耐溶劑 Resistance to Solvents	外觀無損傷色環可判讀		6.9.2 (水I.P.A.)				
耐濕負荷壽命 Moisture Resistance	± 5%		7.9 500 hr 40 °C 90-95%				
定格負荷壽命 Load Life	± 5%		7.10 1000 hr 70°C				
Hot-wire 發火試驗	塗膜不可發火		UL — 1412 10項				
過負荷不燃性 Overload Non-Combustibility	綿布不可發火		UL — 1412 14項				
長時間變化 Long Time	±0.50% +0.05Ω		365日±10 25°C ± 10°C				
耐熱性 Effect of Soldering	± (1 % +0.05Ω)		6.5 260°C 10sec				
熔斷特性	1. 依下表倍率乘瓦特(W)乘阻值開根號為熔斷電壓(DC) 2. 殘留阻值為初期值100倍以上。 3. 直流電源試具應為電流及電壓自動調整型。						

FUSING CHARACTERISTICS

熔斷倍率 FR	×40	×30	×25	×15	×12	熔斷時間
1/4W	0.1Ω-0.18Ω	0.2Ω-0.3Ω	0.42Ω-0.91Ω	1Ω-4Ω7 2K4-10K	5Ω1-2K2	60 sec
1/2W			0.1Ω-0.43Ω	0.47Ω-2Ω 1K1-15K	2Ω2-1K	60 sec
1W		0.1Ω-0.18Ω	0.2Ω-0.43Ω	0.47Ω-2Ω 1K1-10K	2Ω2-1K	60 sec
2W				1Ω-3K		60 sec

