



1 外形尺寸 (Dimension):

尺寸 Dimension (mm)	L	ΦD	l	Φd
1/4 W	6.3 ± 1	2.3 ± 0.3	27 ± 2	0.60 ± 0.05
1/2 W	9.5 ± 1	3.2 ± 0.3	27 ± 2	0.70 ± 0.05

2 額定值 (Rated Value):

型號 (Style)	RS11	
額定功率 (Rated Power)	1/4W	
降功耗曲線 (Derating Curve)	<p>The graph plots the percentage of rated power (額定功率的百分數 (%)) on the y-axis (0 to 100) against ambient temperature (环境温度 (°C)) on the x-axis (-55 to 160). The curve is constant at 100% until 70°C, then decreases linearly to 0% at 125°C. Key points are marked at 70 and 125.</p>	
額定電壓 Rated Voltage	$\sqrt{\text{額定功率(W)} \times \text{標稱阻值}(\Omega)}$ Vdc	
元件極限電壓 Maximum Working Voltage	1/4 W : 300V	1/2 W : 400V
最高過載電壓 Maximum Overload Voltage	1/4 W : 400V	1/2 W : 700V
允許偏差 Tolerance	K ($\pm 10\%$)、M ($\pm 20\%$)	
阻值 Resistance	1.0	M
使用溫度範圍 Operating Temperature Range	$-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$	

項目 Description		性能要求 Performance Requirements		試驗方法 Test Method
電阻溫度特性 (Resistance Temperature Coefficient)	阻值範圍 (Resistance Range)	阻值最大允許變化率(%) (Maximum Resistance Value Range)		試驗溫度 Test Temperature +20°C / -55°C / +20°C / +100°C / +20°C
		-55~+20°C	+20~+100°C	
	≤1KΩ	±6.5	±5.0	
	1.1KΩ~10KΩ	±10	±6.0	
	11KΩ~100KΩ	±13	±7.5	
	110KΩ~1MΩ	±15	±10	
1.1MΩ~10MΩ	±20	±15		
≥11MΩ	±25	±20		
電壓系數 (Voltage Coefficient)	≤±0.035%/V		以10%和100%的額定電壓或元件極 限電壓(取較低者)測量阻值 use 10% and 100% rated voltage or maximum voltage(the lower) to test resistance value	
過 載 (Short-time Overload)	ΔR ≤ ±2.5%R		施加電壓應為 2.5 倍額定電壓或最 高過載電壓(取小者) 時間 5 秒 2.5 times rated voltage or maximum overload voltage (the lower) 5 seconds	
絕緣電阻 Insulation Resistance	≥1000M		測量電壓 100V 1分鐘 testing voltage 100v 1 minute	
耐 電 壓 (With Standing Voltage)	無擊穿或飛弧 (No flasheover or breakdown)		施加交流電壓其峰值為元件極限電 壓的 2 倍 時間 1 分鐘 2 times maximum voltage 1 minute	
抗 拉 力 Terminal Strength	拉力 Pulled	Φd 0.6mm ; 負荷 10N 10s Φd 0.6mm ; Load 10N 10s		
	彎曲 Winded	無可見損傷 ΔR ≤ ±2%R No visible damage		
	扭轉 Twisted	360° 在相反的方向上 360° in opposite direction		
振動 Resistance to Vibration	無可見損傷 ΔR ≤ ±2% No visible damage		10~500Hz 三維方向上各 2 小時 3 direction 2 hours each	
耐焊接熱 Solder-heat Resistance	無可見損傷 標誌清楚 ΔR ≤ ±5%R Marks legible ,no visible damage		350°C 距根部 4mm 3 秒鐘 4mm from the body, 3 seconds	
可 焊 性 (Solderability)	表面應覆蓋有新的連續焊錫屬, 可焊 面積必須大於 95%, 且針孔、虛焊等 缺陷不得集中在一起 At least 95% of the dipping surface must be covered by new solder, no flaws gathered.		235°C 距根部 2mm 2 秒鐘 2mm from the body, 2 seconds	
溫度快速變化 Temperature Cycle	無可見損傷 ΔR ≤ ±2%R No visible damage		-55/+85°C 連續循環 5 次 for 5 cycles	
穩態濕熱 (Humidity)	無可見損傷 ΔR ≤ ±10%R No visible damage		40°C 95%RH 240 小時 240 hours	
70°C 耐久性 (Load Life)	無可見損傷 標誌清楚 ΔR ≤ ±10%R No visible damage, marks legible		施加電壓應為額定電壓或元件極限 電壓 1.5 小時通 0.5 小時斷 70°C 1000 小時 rated voltage or maximum voltage, 1.5 hours on, 0.5 hours off, 70 centigrade temperature 1000 hours	