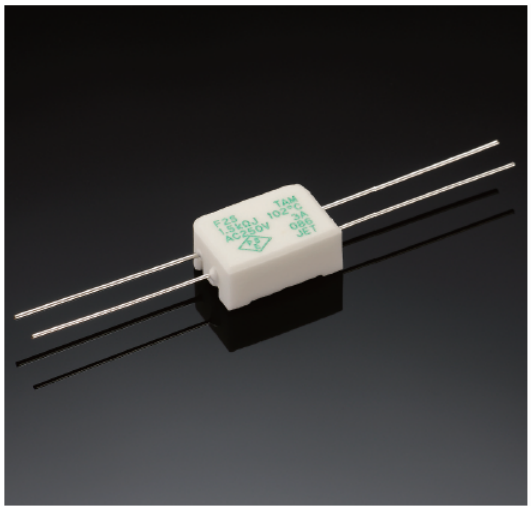
F2S series Thermal-Links/Resistor Assemblies

F2S系列 溫度保險絲附電阻器

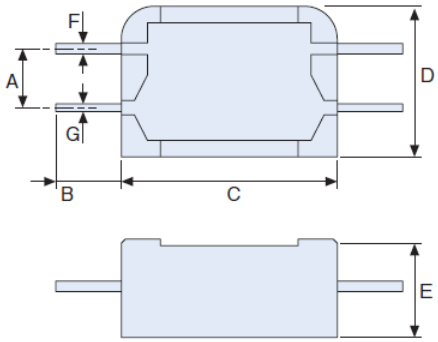


- This is a product that combines one thermal-links and one 2W resistance elements.
- F2S is RoHS compliance product, non-Pb and non-Cd contains.
- F2S got excellent interception characteristic when abnormality overload happened.

- 由 1 個溫度保險絲和 1 個 2W 電阻元素組成一體的製品。
- F2S 是不含鉛、鎘的製品。 (RoHS 對象製品)
- F2S 能在超負荷等異常時，發揮它的優越切斷特性。

✓ Approved by PSE ✓ 已通過認證: PSE

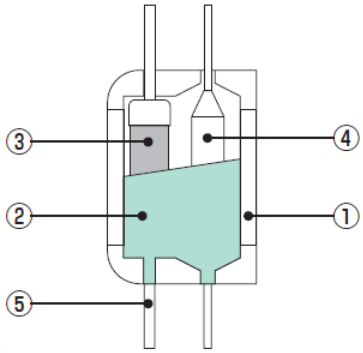
Dimension 尺寸



Unit : mm

A	4.5±0.5
B	32±1
C	16.5±0.5
D	11.5±0.5
E	7.5±0.5
F	0.8±0.04
G	0.58±0.04

Construction 構造圖



1	Ceramic case 陶瓷殼
2	Silicone cement 硅樹脂水泥
3	Resistance (Ceramic insulator) 電阻
4	Thermal-Links 溫度保險絲
5	Lead wire (Tin plated copper wire) 導線

Models Component 型號構成

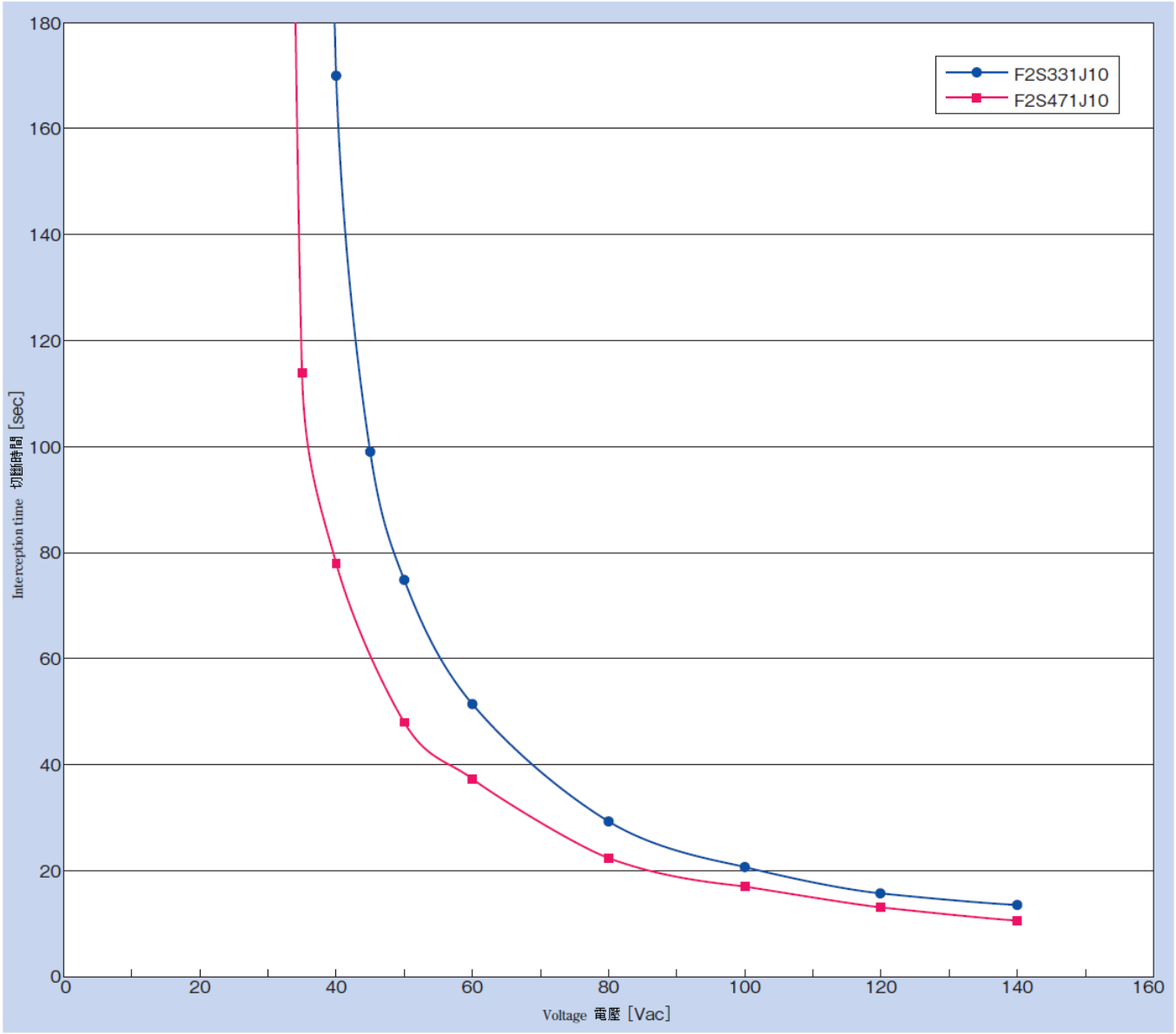
F2S □□□ **J** **10**

- F2S — Series 系列名
- □□□ — Nominal resistance value 額定電阻值
- J — Resistance tolerance 電阻值容許偏差 J: ±5%
- 10 — Thermal-Links 溫度保險絲 10: Tf 102℃

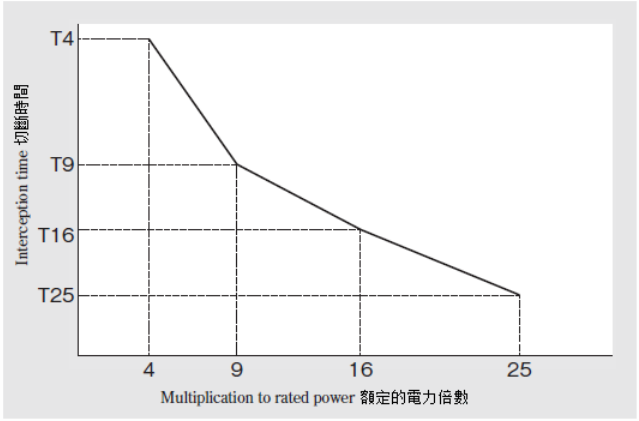
Ratings 額定

Model Name 型號	Rated power 額定電力 (25°C)	Nominal resistance value 額定電阻值	Resistance tolerance 電阻值容許偏差	Thermal-Links 溫度保險絲				PSE	UL C-UL	TUV
				Model Name 型號	Rated functioning temp. 額定動作溫度 (Tf)	Rated voltage 額定電壓	Rated current 額定電流			
F2S□□□J10	2W/1 元素	330~1.5kΩ	± 5%	V2F	102°C	AC250V	3A	○	—	—

Interception Characteristics 切斷特性

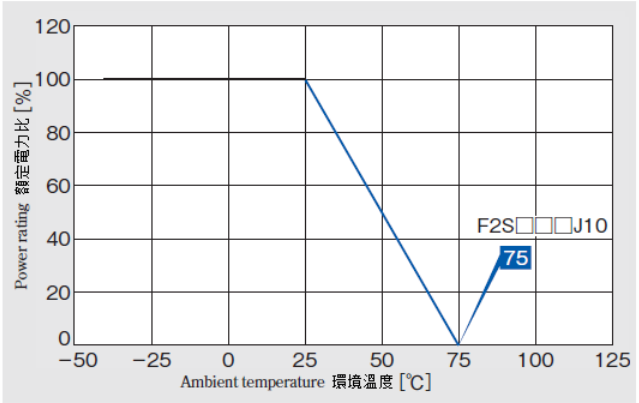


Interception Time vs. Wattage 切斷性能



Interception time—max sec. 切斷時間 (秒以內)			
T4	T9	T16	T25
1 hour or less 1 小時以內	90	55	40

Derating Curve 降低負荷曲線



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Performance 其他性能

<table>
<tr><th>Test Characteristics
切斷時間(秒以內)</th><th colspan="2">Test Methods
試驗方法</th><th>Specifications
規格</th></tr>
<tr><td>Resistance value
電阻值</td><td colspan="2">The following DC voltage is applied across lead terminals for measurements.
導線端子間施加下表的直流電壓進行測定。
<table>
<tr><th colspan="2">Nominal resistance range
額定電阻值範圍</th><th>Max. applied Voltage
最高承受電壓</th></tr>
<tr><td>1 and over
1 以上</td><td>less than 10
10 未滿</td><td>0.3</td></tr>
<tr><td>10 and over
10 以上</td><td>less than 100
100 未滿</td><td>1</td></tr>
</table></td><td>Resistance shall be within ±5% of nominal resistance value.
在±5%以內</td></tr>
<tr><td>Functioning temperature
動作溫度</td><td colspan="2">Soaking the product in the oil bath of temperature rising at 0.5/per min.
Then measure the temperature of oil.
The measure beginning temperature is -20°C of rated functioning temperature, and the detection current is assumed to be 10mA or less.
製品在每分鐘 0.5°C 的油槽中，製品動作時油槽內溫度的測定。
測定開始定額溫度為-20°C，檢測電流在 10mA 以下。</td><td>F2S□□□J10: 102+0-7°C</td></tr>
<tr><td rowspan="2">Insulation resistance
絕緣電阻</td><td>Between body and lead terminals
主體、導線端子間</td><td>DC500V is impressed and measured between metallic foil wrapped on the case, and lead terminals.
在水泥殼上的金屬箔與導線端子間施加 DC500V 進行測定。</td><td>Insulation resistance shall be 1000MΩ or above.
在 1000MΩ以上</td></tr>
<tr><td>Between body lead terminals
兩根導線端子間</td><td>DC500V is impressed for and measured between lead terminals after functioning temperature test.
動作溫度試驗後，導線端子間施加 DC500V 進行測定。</td><td>Insulation resistance shall be 0.2MΩ or above.
在 0.2MΩ以上</td></tr>
<tr><td rowspan="2">Dielectric strength
耐電壓</td><td>Between body and lead terminals
主體、導線端子間</td><td>AC1.5kV is impressed for 1 minute and measured between metallic foil wrapped on the case, and lead terminals. (Cutoff current 0.5mA)
在水泥殼上的金屬箔與導線端子間施加 AC1.5kV 進行 1 分鐘測定。 (檢測電流 0.5mA)</td><td>The products shall withstand for 1 minute.
能承受 1 分鐘</td></tr>
<tr><td>Between body lead terminals
兩根導線端子間</td><td>AC500V is impressed for 1 minute and measured between lead terminals after functioning temperature test. (Cutoff current 0.5mA)
動作溫度試驗後，導線端子間施加 AC500V 進行 1 分鐘測定。 (檢測電流 0.5mA)</td><td>The products shall withstand for 1minute.
能承受 1 分鐘</td></tr>
<tr><td>Temperature coefficient of resistance
電阻溫度系數</td><td colspan="2">Room temperature / 70°C up
室溫 / 70°C 以上</td><td>±250ppm/°C</td></tr>
<tr><td>Short time overload
短時間過負荷</td><td colspan="2">Rated power x 10, for 5 sec.
額定電力 X 10 倍，承受 5 秒鐘</td><td>±(2%+0.05Ω)</td></tr>
<tr><td>Soldering heatproof
焊接耐熱性</td><td colspan="2">265°C± 5°C, 5 sec.</td><td>±(1%+0.05Ω)</td></tr>
<tr><td>Terminal strength
端子強度</td><td colspan="2">Pull: 20N, 1 min.
Bending: 90°C, 1 cycle
拉力: 20N，1 分鐘
扭曲: 90°C，1 週期</td><td>No mechanical damages
無斷線、鬆動、破損</td></tr>
<tr><td>Humidity resistance
耐濕性</td><td colspan="2">40°C, Humidity 90~95%RH, 10000 hours
40°C，濕度 90~95%RH，10000 小時</td><td>±(2%+0.05Ω)</td></tr>
<tr><td>Load life
負荷壽命特性</td><td colspan="2">Rating load 1000 hours, 1.5 hours ON / 0.5 hours OFF cycle
額定負荷 1000 小時，1.5 小時開/0.5 小時關的週期</td><td>±(3%+0.05Ω)</td></tr>
</table>