



功得電子工業股份有限公司  
CONQUER ELECTRONICS CO.,LTD.

# 規格書

Spec. No. SFA040

## Specification For Approval

品名：PSP 系列 慢速型保險絲

Type：PSP *Time Lag Fuse Series*

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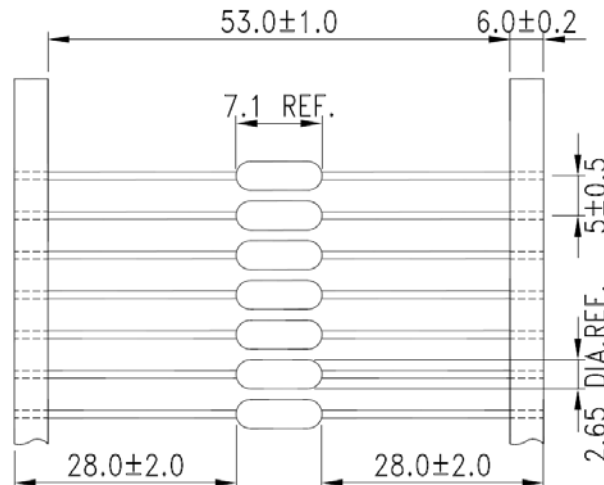
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~ 筒管狀保險絲 ~

*Fuses for Instrument, Power and Telephone (Non-indicating)*

- 1 適用範圍: 本標準適用於保護儀器、電源供應器和電話機用之筒管式熔斷保險絲。  
Available Range: For protecting instruments, power supplies and telephone sets.
- 2 形狀及尺寸如下圖 單位: mm  
Shape & Size as following illustrations.



- 2.1 構造形狀 Structure & Shape : 如上圖 As shown in figure above
- 2.2 額定電壓 Rated Voltage: 125V AC/DC
- 2.3 額定電流 Rated Current: 0.5A~5A
- 3 材料 Material:

NO.	Part Name 部品名稱	Volume 數量
A	Ceramic Tube - Non-Transparent Ceramic Tube 瓷管 - 不透明瓷管	1
B	Fuse Element 可熔體	1
C	Cap-on Lead-Cap - Tinned Copper Wire 銅帽附腳 - 銅蓋加鍍錫銅線0.64±0.05mm附腳直徑	2
D	Body Encapsulated - Epoxy-Coated Body 本體封裝 - 環氧樹脂覆蓋本體	1

4 電氣特性 Electrical Characteristics:

4.1 負載容量: 通過額定電流值 100 % (亦即 1.0 x In A) 4小時以上, 能繼續通電無任何熔化現象。

Loading Capacity: Loading the 100 % Listed Electrical Current (i.e. 1.0 x In A) for flowing, and it's available to let current keep on flowing without any melting. (Can keep 4 Hour minimum)



4.2 溫度特性:通過額定電流值100%(亦即  $1.0 \times I_n A$ )1.5小時,繼續維持原加之電流,每隔十分鐘測試一次,連續測三次,溫度不得升高,若使用熱偶式測量方法。(Thermocouple method)則本體溫升在  $75^{\circ}C$  以下。

Temperature: Loading the 100 % ( $1.0 \times I_n A$ ) for 1.5 hours, keep testing it with the original current every 10 minutes. Continue to test it for 3 times. The temperature is not allowed to be higher. The main temperature rise is below  $75^{\circ}C$  by way of Thermocouple Method.

4.3 過載熔斷:請參照下表。Melting due to overloading: Details as follows Table.

※最大熔斷時限Operating Characteristics

安培數 Rating	100% Rating		200% Rating	
	Min.	Max.	Min.	Max.
0.5A~5A	4 Hr			120 sec

## 5 機械特性 Mechanical Properties:

5.1 拉力強度:當施加軸拉力1公斤於兩端附腳(或銅帽),無鬆動或損壞現象發生。

Terminal Strength:Leads and/or caps are soldered (adhered) to withstand axial pulling force of 1kg without loosening or any harmfulness to firmly attachment.

5.2 彎折強度:附腳經過兩次反向之彎折後(彎折90度再折回原位謂之一次彎折)不發生損壞。

Bending Strength:After two bends of opposite directions (bending through an angle of  $90^{\circ}$  and back is defined as one bend) of lead, no damage is to be visualized.

6 突波實驗:為適應電感或電容性電路所產之暫態電流,本品可承受最少3 ms 10 In 電流之突波。

Surge Test: In order to stand transient current caused by inductive or capacitive, the fuses are designed to have minimum clearing time of 3 millisecond at 1000% rated current.

7 脈波實驗:本實驗乃保證產品之壽命與可靠度,施加60%額定電流之脈波,1分鐘ON,2分鐘OFF,1000次以後,本品不熔斷且內阻變化20%以下。

Cycle Test (On-Off Test):This test is designed to assure a reliable fuse, Controls are set giving 60% of rated ampere. 1 minute ON, 2 minutes OFF per time, the fuse will not open before 1000 times and the internal resistance change will be below 20%.

8 高溫效應:本品置於 $70^{\circ}C$ 之高溫中,4.1之負載容量將降至室溫之80%(For UL Listed)。

Derating Test:In an air circulating oven at  $70^{\circ}C$ , the carry capacity will be derated to 80% of current specified in item 4.1(For UL Listed).

9 遮斷能力Breaking Capacity(Interrupting rating):

50 amperes at 125V AC

50 amperes at 125V DC

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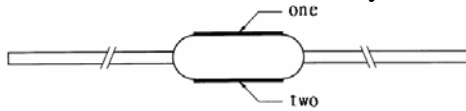
## 10 包裝 Packing

- 10.1 包裝數量 Packing Quantity : 3000 pcs in an inner box or 6000 pcs per reel.  
 10.2 內盒印明下列標示: 料號、額定(電壓、電流、遮斷能力)及安規名稱。  
 The following items indicated on the box. Mark: Catalog number;  
 ratings (voltage, current, interrupting capacity), and mark's name.

## 11 其他 Other:

- 11.1 除非另有指定，上述機械、電器特性，係於常溫，標準狀況下測試之。  
 Unless otherwise, specified, all tests to be performed at 25±5°C and 35-75% RH.  
 11.2 於標準狀況下儲放一年，本品乃確保上述機械與電氣之特性。  
 After one year's storage under normal condition, this item is guaranteed to meet the requirements mentioned above.

## 12 標記/安規認證 Mark/ Safety certification:



安培數 Ampere Rating	第一面 One	第二面 Two
0.5A~5A	CQ *A S*	CRU *A

<第一面 One>

<u>CQ</u>	<u>A</u>	<u>S</u>	<u>1</u>
1	2	3	4
1 功得 CQ	2 安培數 Ampere Rating : 0.5A~5A	3 S=PSP	4 1=125V

<第二面 Two>

<u>CRU</u>	<u>A</u>
1	2
1 CRU=	2 安培數 Ampere Rating : 0.5A~5A

安規認證 Safety certification:

Recognized Component for Canada and U.S.

0.5A~5A

## 13 系列品名列表 series model list :

品名 Model	安培數 Ampere Rating
CRU PSP ___A ___V(PF)	0.5A~5A

例: CRU PSP A V (PF)  
 1 2 3 4 5

- 1 安規認證 Safety Approval
- 2 系列品名 Series Model : PSP
- 3 安培數 Ampere Rating : 0.5A~5A
- 4 伏特數 Voltage : 125V
- 5 無鉛標示 Pb Free : (PF)

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14 建議生產參數(無鉛焊錫使用)：

Recommended Process Parameters(for the action to Lead-free solder alloy)：

14.1 波峰參數 Wave Parameter	預熱溫度 Preheat temperature 最低溫度：100度 Temperature Minimum：100℃ 最高溫度：150度 Temperature Maximum：150℃	錫槽溫度 Solder Pot Temperature 260度 Maximum 260℃ Maximum 焊接時間 2~3 seconds Solder Dwell Time: 2~3 seconds
14.2 建議手持烙鐵焊接參數 Recommended Hand-Solder Parameters	烙鐵溫度：350℃+/-5℃ Solder Iron Temperature：350℃ +/-5℃ 加熱時間：3 seconds max. Heating Time：3 seconds max.	

15 建議焊接方式 Recommend soldering method:

