



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

# 規格書

Spec. No. SFA028

## Specification For Approval

品名： SET 系列 慢速型瓷管保險絲

Type： SET *Time-Lag Square Ceramic Surface Mount Fuse*

*Safety for your life*

[www.conquer.com.tw](http://www.conquer.com.tw)

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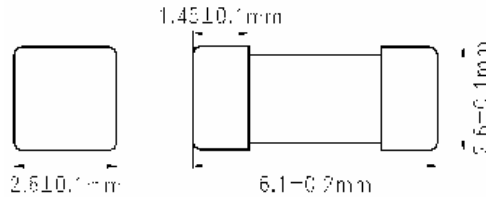


~ 筒管狀保險絲 ~

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

2.3 額定電流 Rated Current: 200mA~7A

3 材料 Material:

3.1 筒管本體: 不透明瓷管不可破裂或變形。

Tube (Body): Non-Transparent ceramic tube fuse. No breaking or deformation is allowed.

3.2 兩端銅蓋: 需以導電率良好之黃銅為材料(銅蓋部份鍍銀)。

Two brass end caps: Made of brass of good conductivity.

3.3 銀合金線: 可熔體保險絲線。

Silver Alloy: Fuse element.

NO.	Part Name 部品名稱	Volume 數量
A	Square Cap 方型銅帽 - Silver Plating - 鍍銀	2
B	Square Ceramic Tube 方型瓷管 - Non-Transparent Ceramic - 不透明瓷管	1
C	Fuse Element 可熔體	1

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#### 4 電氣特性Electrical Characteristics:

4.1 負載容量: 通過額定電流值 100 % ( 亦即  $1.0 \times I_n A$  )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.  $1.0 \times I_n A$ ) 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		300% Rating		800% Rating	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
200mA~7A	4 Hrs		1 sec	60 sec	0.2 sec	3 sec	0.02sec	0.1 sec

#### 5 機械特性 Mechanical Properties:

5.1 拉力強度: 當施加軸拉力720g/cm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 720g/cm without loosening or any harmfulness to firmly attachment.

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10ms 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 10 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).

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- 9 遮斷能力 Interrupting rating:  
50 amperes at 125V AC / DC  
300 amperes at 32V DC

- 10 包裝：1000 pcs (7") or 5000 pcs (13") in an inner box. 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。包裝材料均符合RoHS或者HF的環保要求，且包裝材料不會和零件發生化學反應，造成不良。

Packing : 1000 pcs (7") or 5000 pcs (13") in an inner box. The following items indicated on the box. Mark: Catalog number; ratings (voltage, current, interrupting capacity), and safety mark. The packing material conforms to ROHS or the HF environmental protection request. And the packing material can't have the chemical reaction with the components.

- 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.



- 11 標記/安規認證 Mark/ Safety certification:

印字方式 ----> 

CQ T
** A

 \*\*請自行填入安培數 Ampere Rating : 200mA~7A

Mark / Approvals			Nominal Resistance Cold Ohms
200 mA	*	*	1.5751
250 mA	*	*	1.1585
300 mA	*	*	1.2512
350 mA	*	*	0.9366
375 mA	*	*	0.5232
400 mA	*	*	0.7987
450 mA	*	*	0.5009
500 mA	*	*	0.3291
700 mA	*	*	0.2648
750 mA	*	*	0.1600

Mark / Approvals			Nominal Resistance Cold Ohms
1 A	*	*	0.1090
1.5 A	*	*	0.0511
2 A	*	*	0.0550
2.5 A	*	*	0.0287
3 A	*	*	0.0228
3.5 A	*	*	0.0190
4 A	*	*	0.0140
5 A	*	*	0.0130
6 A	*	*	0.0090
7 A	*	*	0.0074

\*: 有安規認證 Have safety certify

- 12 系列品名列表 series model list :

品名	安培數
SET __A __V	200mA~7A

例： SET        A        V    1 系列品名 Series Model : SET  
      1        2        3    2 安培數 Ampere Rating : 200mA~7A  
      1        2        3    3 伏特數 Voltage : 125V

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