

承認書 Approval Sheet

■客戶/Customer: Maritex	客戶確認 Customer Confirmation
■日期/Date:	客戶/Part No:
February 05,2013	
■產品型號/Type Number:	
FSD 1A~6.3A250V	
■產品描述/Type Description:	客戶簽章/Signature
Glass Tube Fuses Size: 5.2x20 mm , Fast-Acting Type With ♠ ♠ ♥ ⓒ ⓒ ♠ Approved	
■特殊需求/Customer Request:	

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1. 適用範圍 / SCOPE

FSD 系列小型保險絲,適用於一般電子設備。

FSD series Miniature-Fuse, used in electronic equipment.

2. 產品型號 / TYPE

例「example」:



- ① 系列號/Series Number
- ② 額定電流/Rated Current
- ③ 額定電壓/Rated Voltage
- 4 認證符號/Approved Symbol

3. 額定電流和額定電壓/RATED CURRENT AND RATED VOLTAGE

額定電流 / Rated Current:

200mA~15A

額定電壓 / Rated Voltage:

200mA~6.3A : 250VAC

8A~15A : 125V/250VAC

4. 標示 / MARKING

保險絲兩端銅帽上需有下列標示/The fuses cap shall have the following marking

①規 格:製造工廠的商標+額定電流+額定電壓

Specification: The Manufacture's Logo +Rated Current + Rated Voltage

1A~15A: **♥** F A L125V/250V

②系列號+認證符號

Trade mark: Part Number + Approved Symbol.

200mA~800mA(250V): FSD .★Nus ♠♥ @ [3

1A ~ 6.3A(250V): **FSD AN**_{us} **A V (C) 2 E**

8A \ 10A(125V): FSD (\$\mathbb{N}_{\mathbb{U}} \) (4.5)

12A \ 15A(250V): FSD (\$\mathbb{R}\) (\$\mathbb{R}\)

12A · 15A(125V): FSD • SU • Sus



注意 / Note:

對標示的大小和位置沒有規定 / Size and position of the markings shall not be provided.

5. 外觀及形狀 / APPEARANCES AND CONFIGURATION

5-1 外觀:不應有破碎、明顯的污斑。

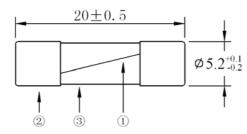
Appearances: There shall not be break up and any remarkable blotch.

5-2 形狀: 小型保險絲。

Configuration: Miniature-Fuse.

6. 工程圖和結構 / OUTLINE DRAWING AND STRUCTURE

6-1 工程圖(單位:mm)/ Outline Drawing and Dimensions (Unit: mm)



6-2 結構 / Structure

編號	元件	材質	數量
No.	Component	Material	Quantity
1	熔絲	合金	1
	Wire	Alloy	1
(2)	銅帽	黃銅鍍鎳	2
2	Cap	Brass with nickel plated	Z
<u> </u>	本體	玻璃管	1
3	Body	Glass Tube	1

7. 產品特性 / PRODUCT CHARACTERISTICS

7-1 拉力測試/Tensile test

軸向拉力 5 牛頓,持續 60 秒/Pulling the cap of the fuse with 5 N at axial direction keep 60 sec.

7-2 推力測試/Thrust test

軸向推力2 牛頓,持續10±1 秒/Thrust two cap's bottom of the fuse with 2N at axial direction keep 10±1sec.

8. 電氣特性 / ELECTRICAL CHARACTERISTICS

8-1 熔斷 / 電流特性: Pre-Arcing Time / Current Characteristic (limits)



RATED CURRENT	2.1 In	2.75	5 In	4	In	10 In
RATED CORRENT	Max.	Min.	Max.	Min.	Max.	Max.
32mA to 100mA	30 min	10 ms	500 ms	3 ms	100 ms	20 ms
Above 100mA to 6.3A	30 min	50 ms	2 s	10 ms	300 ms	20 ms
Above 6.3A to 10A	30 min	50 ms	2 s	10 ms	400 ms	40 ms

備注:12A和15A的測試條件與8A和10A相同,均依照IEC60127-2 標準規格單2之標準。 Remark:According to IEC60127-2 sheet2, the test conditions for 12A and 15A are same as the ratings for 8A and 10A.

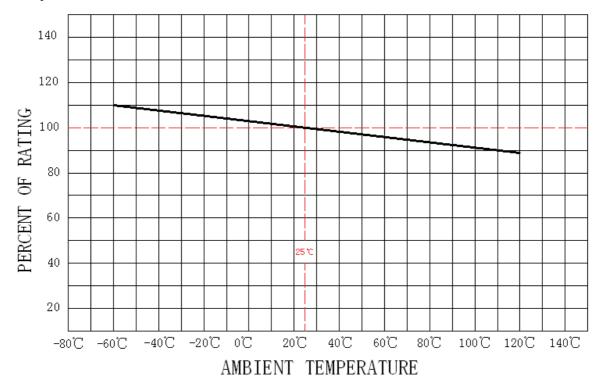
9. 環境特性 / ENVIRONMENTAL CHARACTERISTIC

9-1 操作溫度範圍: -55℃~125℃ / Operating Temperature:-55℃~125℃

若貴司操作環境溫度超出25±5℃範圍,在選用保險絲規格時,需考慮操作環境溫度對保險絲的影響。 請參照:溫度-電流曲線圖。

When choosing the fuse's specification, if the operating environmental temperature beyond the scope from $20\sim30^{\circ}$ C, you should consider the environmental temperature's affection to fuses. Please refer:

Temperature-Current curve:





9-2 存儲條件 / Storage Conditions

在溫度+10℃~60℃、相對濕度≤75%的密閉條件下可存放3年。

Under airtight in temperature+ 10° C \sim 60°C \cdot relative humidity \leq 75% can store 3 years.

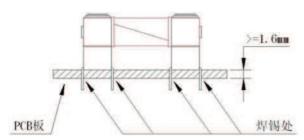
在溫度+10℃~60℃、相對濕度爲95%的非露天下最多可存放30天。

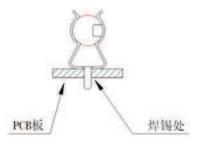
Without dew in temperature+ 10° C $\sim 60^{\circ}$ C \sim relative humidity be 95% maximum value for 30days.

10. 安裝方式及條件 / INSTALLATION WAY AND PARAMETERS

10-1 建議如下圖安裝方式安裝,並滿足所要求的尺寸。

Propose that the following picture installation way is installed, and satisfied the required size.





10-2 建議客戶焊接參數 / Recommended Customer Soldering Parameters

波峰焊參數 / Wave Parameters:

錫爐溫度 / Solder Pot Temperature:

260°C Max

焊接時間 / Solder Dwell Time:

2~5s

手工焊參數 / Hand-Solder Parameters:

烙鐵溫度 / Solder Iron Temperature:

350±5°C

焊接時間 / Heating Time:

5 s Max

11.其他使用注意事項 / OTHER NOTICE IN USED

如果需在保險絲上加熱縮套管,烘烤溫度與時間需參照以下規定

If need to add heat draws back the sleeve pipe on the fuse , it needs to consult the following regulation to toast temperature and time $\frac{1}{2}$

溫度 temperature	120°C	130°C	140°C	150°C	160°C	170°C	180°C
時間 time	Max 70s	Max 60s	Max 50s	Max 40s	Max 35s	Max 30s	Max 25s



12.安全認證及編號 / STANDARDS AND APPROVALS

UR		E56092(JDYX2)(200mA~15A)		
C-UR		E56092(JDYX8)(200mA~15A)		
VDE		40016929(200mA~10A) 40016932(12A ~15A)		
東莞廠		KM576033(200mA~6.3A)		
蘇州廠 KM70911(200mA~6.3A)		KM70911(200mA~6.3A)		
CCC	東莞廠	2002010207023045(200mA~6.3A)		
	蘇州廠	2002010207006696 (200mA~6.3A)		
PSE	東莞廠	JET5360-31003-2001A(1A~5A) JET5360-31003-2002A(6.3A)		
122	蘇州廠	JET2179-31003-2003(1A~5A) JET2179-31003-2004(6.3A)		
KC	東莞廠	SU05010-9001A(12A~15A) SU05010-9002A(8A~10A) SU05010-9003A(3.15A~6.3A) SU05010-9004A(1A~2.5A) SU05010-9005A(200mA~800mA)		
	蘇州廠	SU05015-9001(1A~2.5A) SU05015-9002(8A~10A) SU05015-9003(3.15A~6.3A) SU05015-9004(12A~15A) SU05015-9005(200mA~800mA)		

13. 包裝 / PACKING

13-1 包裝數量 / Packing Quantity

A:每內盒裝 1000 個保險絲。 1000pcs per inner box.

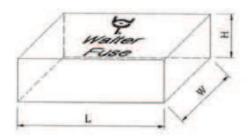
B:每外箱裝 10 內盒保險絲。 10 inner boxes per outer box.



FSD 系列(快斷)保險絲規格書

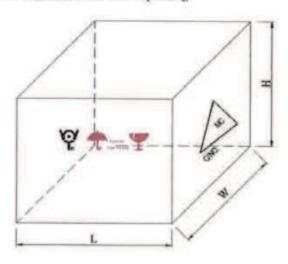
The Fuse Specification of FSD Series (Fast-Acting)

13-2 內包裝盒/Inner box of packing



	1 1	单位/Unit · mr
L	W	H
152±3	130±3	79±3

13-3 外包裝箱/Outer box of packing



		單位/Unit:mm
L	W	H
270±5	445±5	190±5

14.其他 / OTHERS

- 14-1 如果在使用中有超出本規格書的要求,必須經由雙方協商確認.
 In the event that an impropriety is found beyond this specification, it shall be fixed by mutual agreement between the parties.
- 14-2 如果本規格書有不適當的情況,必須通過雙方協商並由本公司修改.
 In the event that an impropriety is found in this specification, WALTER ELECTRONIC CO., LTD. shall amend it by mutual agreement between the parties.

版次	製作	確認	→ 賽核 ∠
第四版	至一个本个水	Casparte 1/4	郭雪强2