

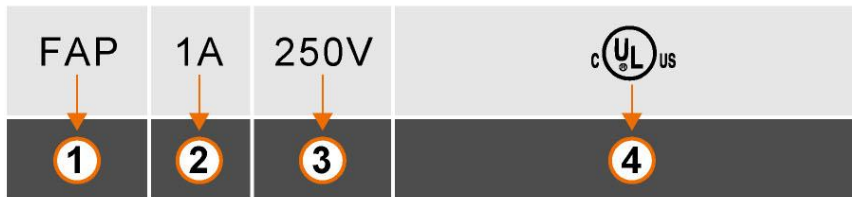
1. 適用範圍 / SCOPE

FAP 系列保險絲，適用於一般電子設備。
FAP series 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:

100mA~6.3A

額定電壓 / Rated Voltage:

125V/250V AC

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：額定電流+額定電壓

Specification : Rated Current + Rated Voltage

100mA~800mA : ___mA 125V/250V

1A~6.3A : ___A 125V/250V

②商 標：製造工廠的商標+系列號+認證符號

Trade mark : The Manufacture' s Logo +Part Number + Approved Symbol.

100 mA~6.3A :  FAP c  us

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。

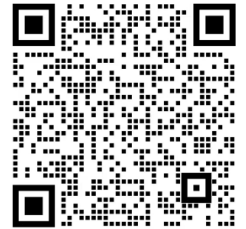
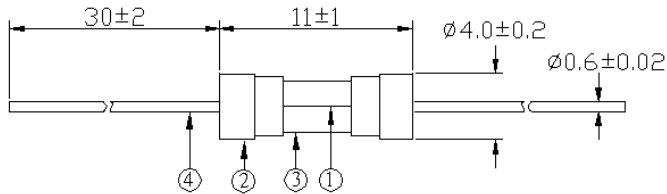
Appearances: There shall not be break up and any remarkable blotch.

5-2 形狀：帶腳的小型保險絲。

Configuration: Axial Leaded 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 No.	元件 Component	材質 Material	數量 Quantity
①	熔絲 Wire	合金 Alloy	1
②	銅帽 Cap	黃銅鍍鎳 Brass with nickel plated	2
③	本體 Body	玻璃管 Glass tube	1
④	引線 Lead	鍍錫銅線 Tinned Copper wire	2

7. 產品特性 / PRODUCT CHARACTERISTICS

7-1 拉力測試 / Tensile test

軸向拉力 10 牛頓，持續 10 ± 1 秒 / Pulling the cap of the fuse with 10N at axial direction keep 10 ± 1 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 ± 1 sec.

7-3 可焊性 / Solderability

波峰焊/Wave : 260°C , $\leq 3\text{s}$;

烙鐵焊/Soldering Iron: $350 \pm 10^{\circ}\text{C}$, $\leq 3\text{s}$.

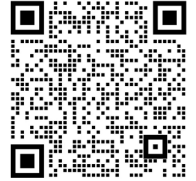
7-4 耐焊接熱 / Soldering Heat Resistance

波峰焊/Wave : 260°C , 10s;

烙鐵焊/Soldering Iron: 350°C , 5s.

8. 電氣特性 / ELECTRICAL CHARACTERISTICS

熔斷/電流特性：Pre-Arcing Time / Current Characteristic



RATED CURRENT	2 IN
100mA to 6.3A	Max.
	60 s

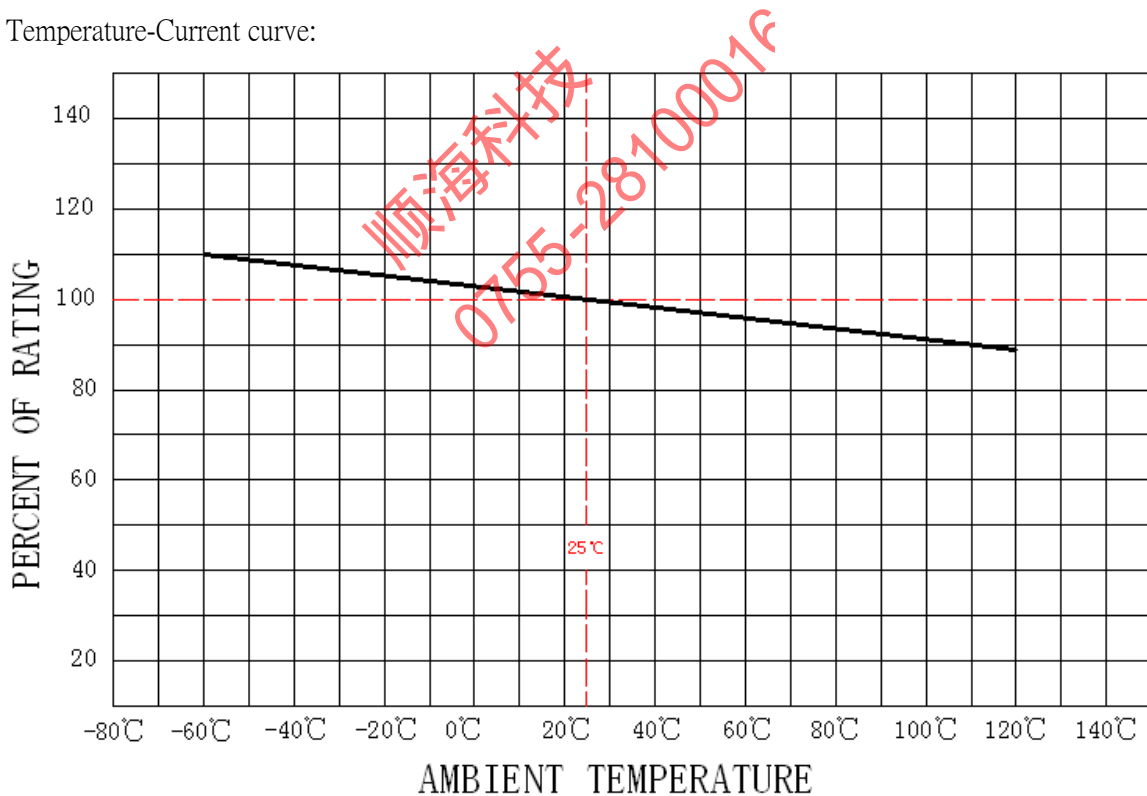
9. 環境特性 / ENVIRONMENTAL CHARACTERISTIC

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

若貴司操作環境溫度超出25±5°C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 20~30°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°C ~ 60°C、相對濕度 $\leq 75\%$ 的密閉條件下可存放 3 年。
 Under airtight in temperature+10°C ~ 60°C、relative humidity $\leq 75\%$ can store 3 years.

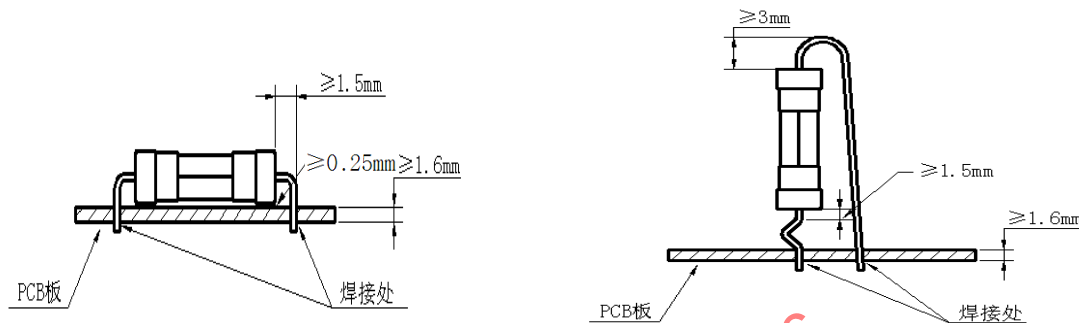
在溫度+10°C ~ 60°C、相對濕度為 95%的非露天下最多可存放 30 天。
 Without dew in temperature+10°C ~ 60°C、relative humidity be 95% maximum value for 30days.



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

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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

溫度 temperature	120°C	130°C	140°C	150°C
時間 time	Max 80s	Max 75s	Max 70s	Max 65s

12.安全認證及編號 / STANDARDS AND APPROVALS

UL	E56092 (100mA~6.3A)
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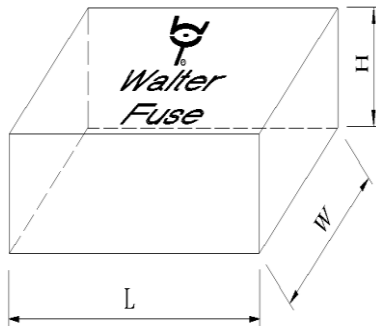
13. 包裝 / PACKING

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 20 內盒保險絲。
20 inner boxes per outer box .

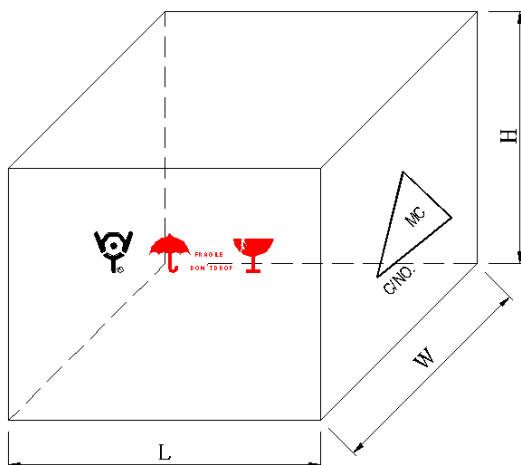
13-2 內包裝盒/Inner box of packing



單位/Unit : mm

L	W	H
157±3	127±3	84±2

13-3 外包裝箱/Outer box of packing



單位/Unit : mm

L	W	H
335±5	451±5	285±5

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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.



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版次	製作	確認	審核
第六版	饒紅	蔡明威	<i>Eris Kuo</i>



UL iQ for Fuses



Fuses

E56092

Guide Information

SUZHOU WALTER ELECTRONIC CO LTD

NO.99 Xinli Road, Fenhu Technic Development Zone, Wujiang Jiangsu 215211 CN

FAP

Supplemental micro fuses: pigtail leads

<u>Size</u> mm(in)	<u>Amps</u> (A)	<u>Volts</u> (V)	<u>Interrupting</u> <u>Rating (A)</u>
3.6 x 10 (0.14 x 0.39)	0.01 - 0.63	125Vac	50
	0.01 - 0.63	250Vac	35
	0.7 - 6.3	125Vac	50
	0.7 - 6.3	250Vac	50

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