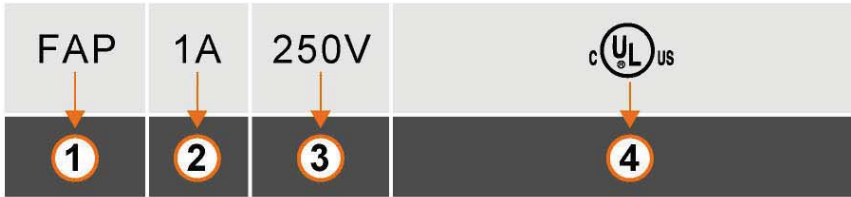


1. 適用範圍 / SCOPE

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。

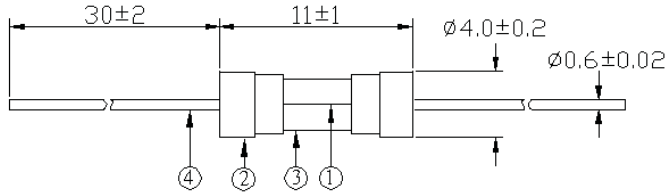
Appearances: There shall not be break up and any remarkable blotch.

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±1sec.

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.

7-3 可焊性/ Solderability

波峰焊/Wave : 260°C , ≤3s;

烙鐵焊/Soldering Iron: 350±10°C , ≤ 3s.

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

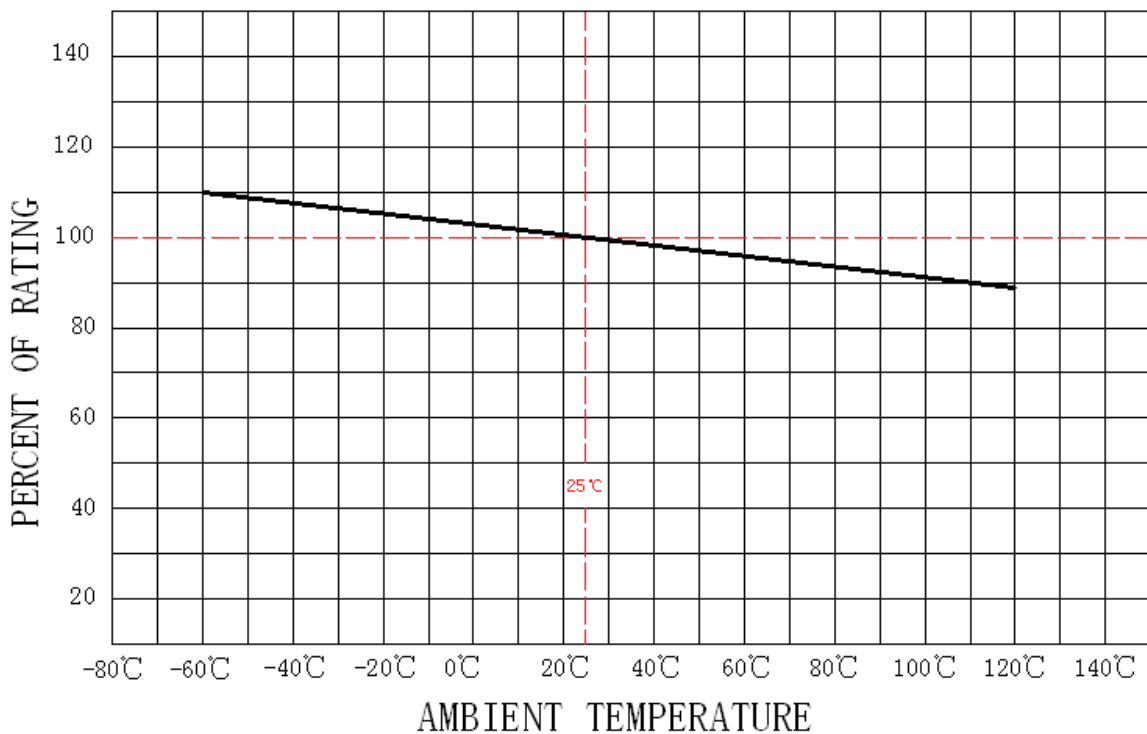
9-1 操作溫度範圍: -55°C ~ 125°C / Operating Temperature: -55°C ~ 125°C

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 ≤ 75%的密閉條件下可存放 3 年。

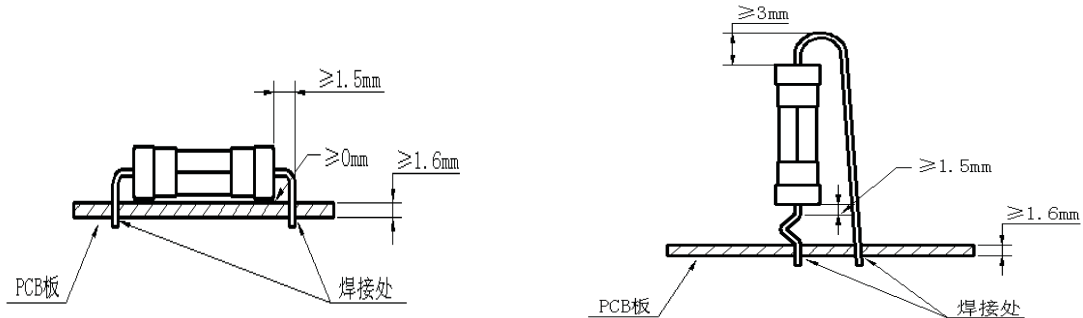
Under airtight in temperature+10°C ~ 60°C、relative humidity ≤ 75% can store 3 years.

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

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 70s	Max 60s	Max 50s	Max 40s

12.安全認證及編號 / STANDARDS AND APPROVALS

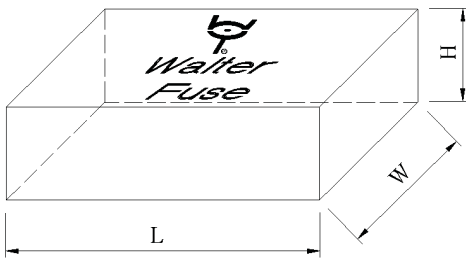
UL	NO. :	E56092 (100mA~6.3A JDYX)
C-UL	NO. :	E56092 (100mA~6.3A JDYX 7)

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 .

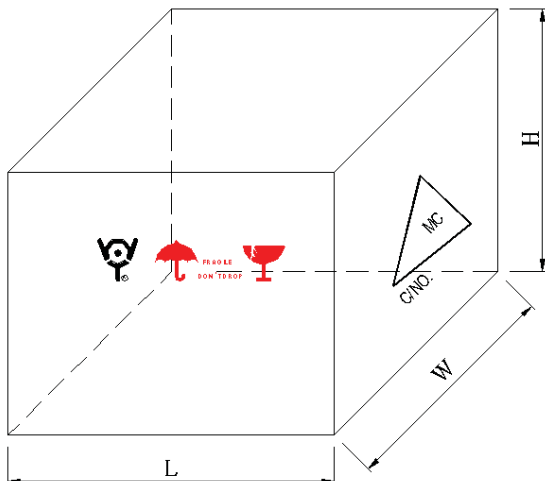
13-2 內包裝盒/Inner box of packing



單位/Unit : mm

L	W	H
152±3	130±3	79±3

13-3 外包裝箱/Outer box of packing



單位/Unit : mm

L	W	H
325±5	425±5	285±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	審核
第三版	吳北林 7/3	Casper 7/3	郭瓊瑤 7/4



JDYX.E56092 Fuses, Supplemental

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Fuses, Supplemental

See General Information for Fuses, Supplemental

WALTER ELECTRONIC CO LTD

E56092

2ND FL
97 CHUNG KING N RD, SEC 4
TAIPEI CITY, TAIWAN



Trademark and/or Tradename: "Walter",

Cat. No.	Size	Amps	V ac	Interrupting Rating (A)
Miniature, cartridge enclosed, nonrenewable:				
SCC, SCP+	5.2 x 20 mm	0.1-10.0	125	10,000
		0.1-1	250	35
		1.1-3.5	250	100
		3.6-10	250	200
SBC, SBP+	5.2 x 15.2 mm	0.125-3.5	125	10,000
		0.125-1.0	250	35
		1.1-3.5	250	100
		0.125-3.5	350	100
MGC	1/4 x 1-1/4 in.	0.01-15	125	10,000
		0.01-1	250	35
		1.1-3.5	250	100
		3.5-10	250	200
MGP+	1/4 x 1-1/4 in.	0.01-15	125	10,000
		0.01-1	250	35
		1.1-3.5	250	100
		3.5-10	250	200
CIS	5.2 x 20 mm	0.01-10	125	10,000
		0.01-1.0	250	35
		1.1-3.5	250	100
		3.6-5.0	250	200
CSP+	5.2 x 20mm	0.01-7	125	10,000

		0.01-1.0	250	35
		1.1-3.5	250	100
		3.6-5.0	250	200
SGA, SLA+	5.2 x 20 mm	0.01-7	125	10,000
		0.01-1	250	35
		1.1-3	250	100
SGC, SGP+	5.2 x 20 mm	0.01-10	125	10,000
		0.01-1.0	250	35
		1.1-3.5	250	100
		3.6-8	250	200
SIC	5.2 x 20 mm	0.1-7	125	10,000
		0.1-1	250	35
		1.1-3.5	250	100
		3.6-7.0	250	200
		0.1-7	125 Vdc	100
SIP+	5.2 x 20 mm	0.1-5	125	10,000
		0.1-1	250	35
		1.1-3.5	250	100
		3.6-5.0	250	200
		0.1-5	125 Vdc	100
BGT, BTP+	4.6 x 15.2 mm	0.1-7	125	10,000
		0.1-1	250	35
		1.1-3.5	250	100
		3.6-7	250	200
BGF, BFP+	4.6 x 15.2 mm	0.1-7	125	10,000
		0.1-1.0	250	35
		1.1-3.5	250	100
BFP+	4.6 x 15.2 mm	3	300	50
MDC, MDP+	1/4 x 1-1/4 in.	0.01-15	125	10,000
		0.01-1	250	35
		1.1-3.5	250	100
		3.6-8	250	200
		0.01-15	125DC	500
TDS, TSP	5.2 x 20 mm	0.01-5	125	10,000
		0.01-1	250	35
		1-3.5	250	100
TDS-1A		1	125	10,000
			250	35
TDS-4A		4	125	10,000
CIL, CLP	6.35 x 31.8 mm	0.01-2.5	125	10,000

		0.01-0.8	250	35
TDL, TLP	6.35 by 31.8 mm	0.01-5	125	10,000
		5	250	200
STC	5.2 by 20 mm	0.01-7.0	125	10,000
		0.01-1	250	35
		1.1-3.5	250	100
		3.6-7.0	250	200
Micro, cartridge enclosed, nonrenewable:				
TSA, FAP+	3.6 x 10 mm	0.01-0.63	125	50
		0.01-0.63	250	35
		0.7-6.3	125/250	50
TAP+, ICP+	3.6 x 10 mm	0.1-6.3	125/250	50
TCP+, FCP+	3.0 x 7.3 mm	0.16-6.3	125AC/DC	50
FIP	3.6 x 10 mm	0.25-6.3	250	50
FUP+	3.6 x 10 mm	0.3	250	50
6125F	2.5 x 2.5 x 6.1 mm	0.250 - 15	125AC	50
	2.5 x 2.5 x 6.1 mm	0.250 - 15	63DC	300
	2.5 x 2.5 x 6.1 mm	1 - 15	125DC	50
6125T	2.5 x 2.5 x 6.1 mm	0.200 - 6.3	125AC/DC	50
	2.5 x 2.5 x 6.1 mm	7	125	50
	2.5 x 2.5 x 6.1 mm	7	63DC	50

+Pigtail leads.

NN indicates ampere rating of fuse

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Fuses, Supplemental Certified for Canada

See General Information for Fuses, Supplemental Certified for Canada

WALTER ELECTRONIC CO LTD

E56092

2ND FL

97 CHUNG KING N RD, SEC 4

TAIPEI CITY, TAIWAN

Cat. No.	Size	Amps	V ac	Interrupting Rating (A)
Miniature, cartridge enclosed, nonrenewable:				
SCC, SCP+	5.2 x 20 mm	0.1-10.0	125	10,000
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		1.1-3.5	250	100
		3.6-10	250	200
SBC, SBP+	5.2 x 15.2 mm	0.125-3.5	125	10,000
		0.125-1.0	250	35
		1.1-3.5	250	100
		0.125-3.5	350	100
MGC, MGP+	1/4 x 1-1/4 in.	0.01-15	125	10,000
		0.01-1	250	35
		1.1-3.5	250	100
		3.5-10	250	200
CIS	5.2 x 20 mm	0.01-10	125	10,000
		0.01-1.0	250	35
		1.1-3.5	250	100
		3.6-5.0	250	200
CSP+	5.2 x 20mm	0.01-7	125	10,000
		0.01-1.0	250	35
		1.1-3.5	250	100
		3.6-5.0	250	200
SGA, SLA+	5.2 x 20 mm	0.01-7	125	10,000
		0.01-1	250	35
		1.1-3	250	100
SGC, SGP+	5.2 x 20 mm	0.01-10	125	10,000
		0.01-1.0	250	35

		1.1-3.5	250	100
		3.6-8	250	200
SIC	5.2 x 20 mm	0.1-7	125	10,000
		0.1-1	250	35
		1.1-3.5	250	100
		3.6-7.0	250	200
		0.1-7	125 Vdc	100
SIP+	5.2 x 20 mm	0.1-5	125	10,000
		0.1-1	250	35
		1.1-3.5	250	100
		3.6-5.0	250	200
		0.1-5	125 Vdc	100
BGT, BTP+	4.6 x 15.2 mm	0.1-7	125	10,000
		0.1-1	250	35
		1.1-3.5	250	100
		3.6-7	250	200
BGF, BFP+	4.6 x 15.2 mm	0.1-7	125	10,000
		0.1-1.0	250	35
		1.1-3.5	250	100
BFP+	4.6 x 15.2 mm	3	300	50
MDC, MDP+	1/4 x 1-1/4 in.	0.01-15	125	10,000
		0.01-1	250	35
		1.1-3.5	250	100
		3.6-8	250	200
		0.01-15	125DC	500
TDS, TSP	5.2 x 20 mm	0.01-5	125	10,000
		0.01-1	250	35
		1.1-3.5	250	100
TDS-1A		1	125	10,000
			250	35
TDS-4A		4	125	10,000
CIL, CLP	5.2 x 20 mm	0.01-2.5	125	10,000
		0.01-0.8	250	35
TDL, TLP	6.35 by 31.8 mm	0.01-5	125	10,000
		5	250	200
STC	5.2 by 20 mm	0.01-7.0	125	10,000
		0.01-1	250	35
		1.1-3.5	250	100
		3.6-7.0	250	200
Micro, cartridge enclosed, nonrenewable:				

TSA, FAP+	3.6 x 10 mm	0.01-0.63	125	50
		0.01-0.63	250	35
		0.7-6.3	125/250	50
TAP+, ICP+	3.6 x 10 mm	0.1-6.3	125/250	50
TCP+, FCP+	3.0 x 7.3 mm	0.16-6.3	125AC/DC	50
FIP	3.6 x 10 mm	0.25-6.3	250	50
FUP+	3.6 x 10 mm	0.3	250	50
6125F	2.5 x 2.5 x 6.1 mm	0.250 - 15	125AC	50
	2.5 x 2.5 x 6.1 mm	0.250 - 15	63DC	300
	2.5 x 2.5 x 6.1 mm	1 - 15	125DC	50
6125T	2.5 x 2.5 x 6.1 mm	0.200 - 6.3	125AC/DC	50
	2.5 x 2.5 x 6.1 mm	7	125	50
	2.5 x 2.5 x 6.1 mm	7	63DC	50

+ Pigtail leads.

NN indicates ampere rating of fuse.



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