

**1. 適用範圍 / SCOPE**

WM45 系列小型保險絲，適用於數字儀表(工業用)、工業電源、通訊電源等。

WM45 series Miniature-Fuse, used in Digital Measuring Instruments (Industrial)、Industrial and communication power.

**2. 產品型號 / TYPE**

例「example」：

|      |     |      |                        |
|------|-----|------|------------------------|
| WM45 | 20A | 500V | ① 系列號 / Series Number  |
| ↓    | ↓   | ↓    | ② 額定電流 / Rated Current |
| ①    | ②   | ③    | ③ 額定電壓 / Rated Voltage |

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

額定電流 / Rated Current: 10A~30A

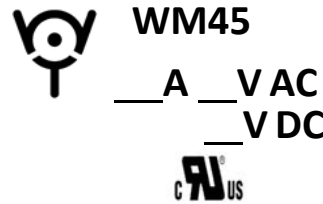
額定電壓 / Rated Voltage: 500V AC/DC

**4. 標示 / MARKING**

保險絲上需有下列標示/The fuses shall have the following marking

製造工廠的標識+系列號/ Manufacture's Logo+ Part Number:

額定電流+額定電壓/ Rated Current (A)+ Rated Voltage(V):



認證符號/ Approved Symbol

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。

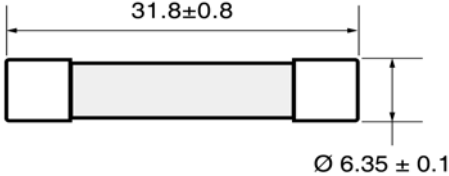
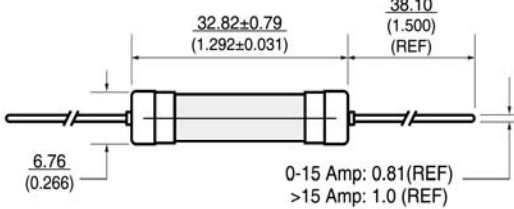
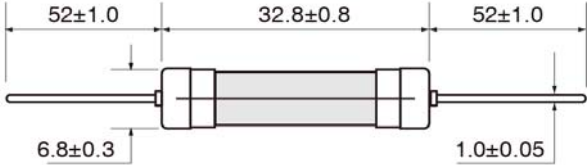
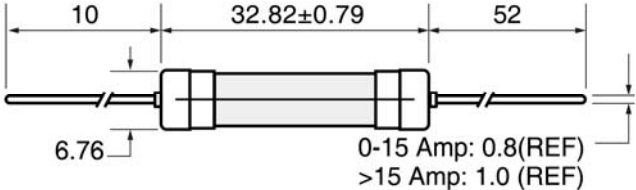
Appearances: There shall not be break up and any remarkable blotch.

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)

|                 |   |
|-----------------|---|
| WM45-XXX        |   |
| WM45- XXX -P    |   |
| WM45- XXX-P-L   |  <p>0-15 Amp : 0.8(REF)<br/>&gt;15 Amp : 1.0 (REF)</p> |
| WM45- XXX-P-SXL |  <p>0-15 Amp: 0.8(REF)<br/>&gt;15 Amp: 1.0 (REF)</p>  |

## 7. 電氣特性 / ELECTRICAL CHARACTERISTICS

| Electrical Characteristics |                    |                     |
|----------------------------|--------------------|---------------------|
| Rated Current              | 2.0In              | 3.0In               |
| 10A - 30A                  | 5 minutes, Maximum | 10 Seconds, Maximum |

## 說明/Specifications

| Part No. |   | Rated Voltage (V) | Rated Current | Breaking Capacity (A) | Typical Cold-Resistance (mΩ) | Typical Pre-Arcing I <sup>2</sup> t (A <sup>2</sup> Sec) |
|----------|---|-------------------|---------------|-----------------------|------------------------------|--|
| WM45-XXX | WM40-XXX-P-YY<br>(YY : blank / L / SXL) | AC/ DC            |               | AC/ DC                |                              |  |
| WM45-10  | WM45-10-P-YY                            | 500               | 10A           | 1000                  | 17.2                         | 101  |
| WM45-12  | WM45-12-P-YY                            |                   | 12A           |                       | 12.2                         | 141  |
| WM45-15  | WM45-15-P-YY                            |                   | 15A           |                       | 8.1                          | 65   |
| WM45-16  | WM45-16-P-YY                            |                   | 16A           |                       | 8.1                          | 63   |
| WM45-20  | WM45-20-P-YY                            |                   | 20A           |                       | 5.5                          | 124  |
| WM45-25  | WM45-25-P-YY                            |                   | 25A           |                       | 4.6                          | 272  |
| WM45-30  | WM45-30-P-YY                            |                   | 30A           |                       | 3.7                          | 448  |

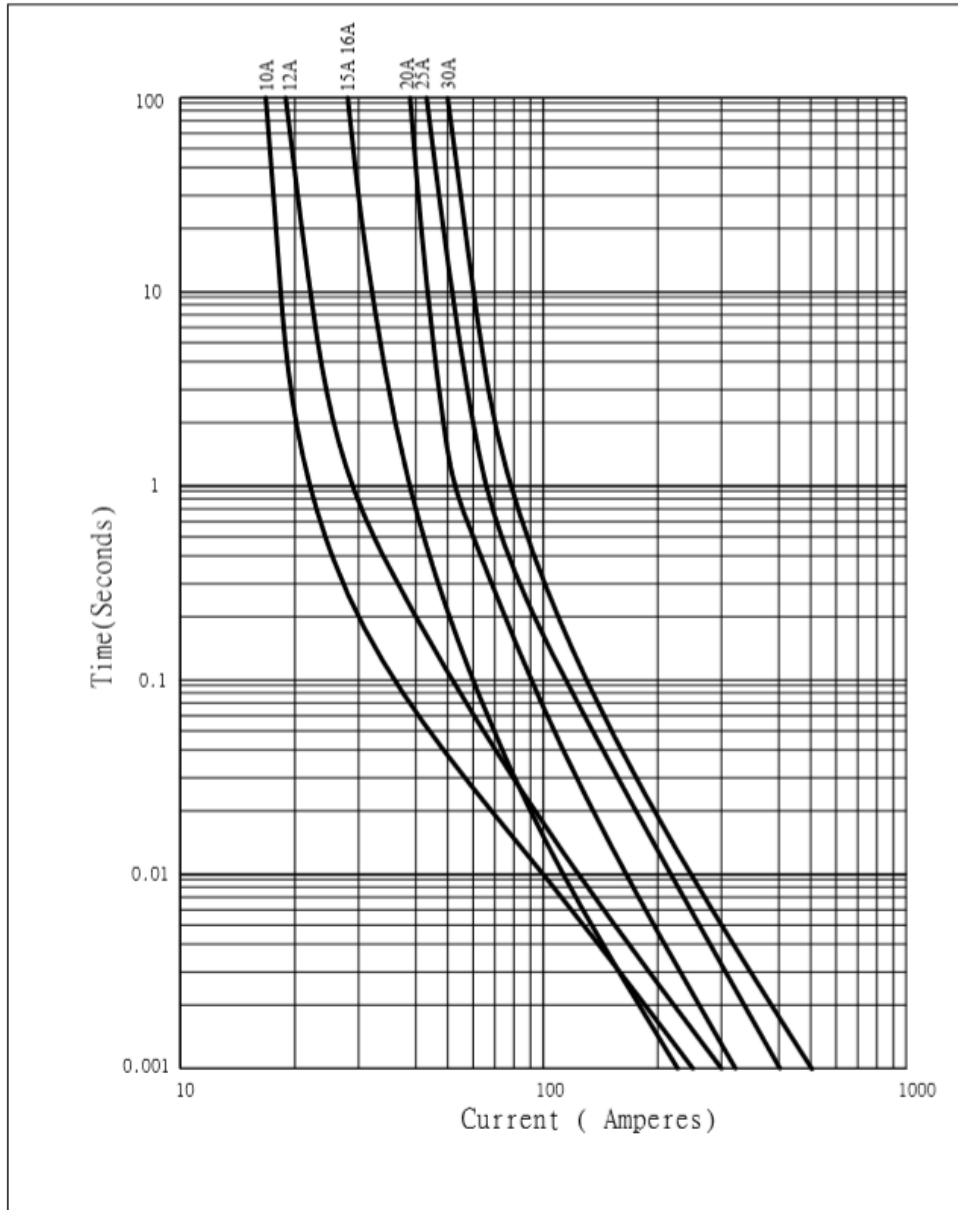
\*冷電阻在直流<10%額定電流條件下 25°C 環境溫度中測量

DC Cold Resistance are measured at <10% of rated current in ambient temperature of 25°C

\* I<sup>2</sup>t 值是以 10In 電流測量

Typical -Pre-arching I<sup>2</sup>t are measured at 10In Current

8. 時間電流曲線 Time-Current Curve



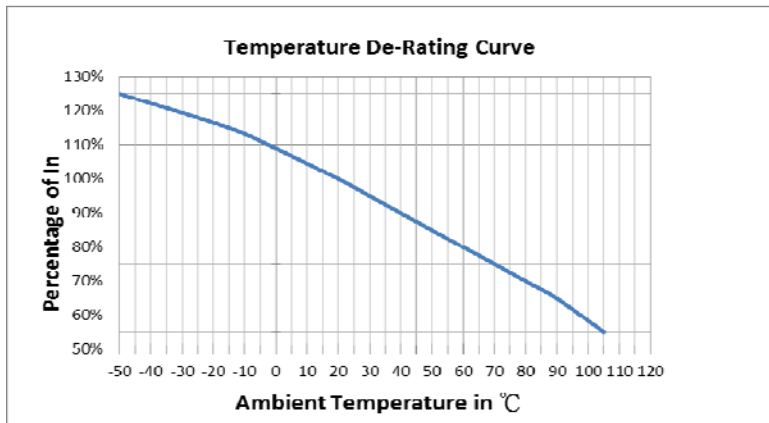
9. 環境特性 / ENVIRONMENTAL CHARACTERISTIC

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 spec 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 tem-Perature+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 tem-Perature+10°C ~ 60°C、relative humidity be 95% maximum value for 30days.

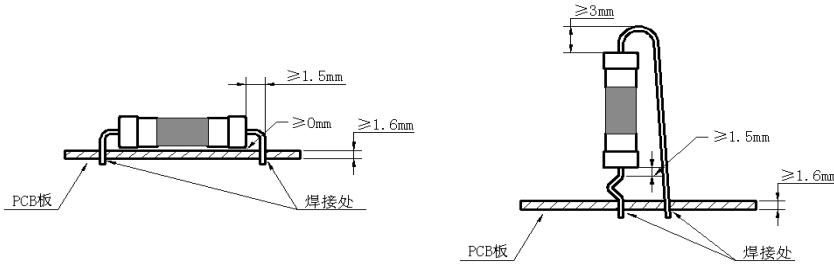
10. 安全認證及編號 / STANDARDS AND APPROVALS

|            |                  |
|------------|------------------|
| UR E56092  | (10A~30A JDYX2 ) |
| CUR E56092 | (10A~30A JDYX8 ) |

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

11-1 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.



11-2 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:  $260 \pm 3^{\circ}\text{C}$

焊接時間 / Solder Dwell Time: 10s Max

手工焊參數 / Hand-Solder -Parameters:

烙鐵溫度 / Solder Iron Temperature:  $350 \pm 5^{\circ}\text{C}$

焊接時間 / Heating Time: 5 s Max

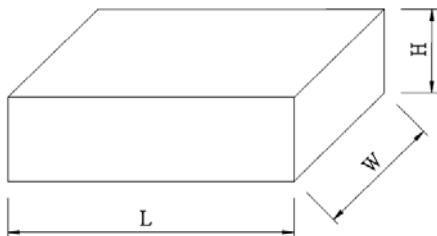
12.包裝 / -PACKING

12-1 數量/Quantity

| 規格<br>Specs                    | 袋<br>Inner polybag | 小盒<br>Inner small box . | 大盒<br>Inner big box | 外箱<br>outer carton |
|--------------------------------|--------------------|-------------------------|---------------------|--------------------|
| WM45-XXX                       | 250PCS             | /                       | 250PCS              | 5000 PCS           |
| WM45-XXX-P                     | /                  | /                       | 75PCS               | 2250 PCS           |
| WM45-XXX-P-L<br>WM45-XXX-P-SXL | /                  | /                       | 100PCS              | 2000 PCS           |

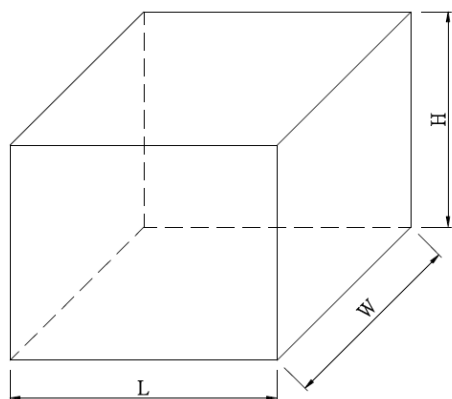
12-2 內盒(大) / Inner big box

單位/Unit : mm



| 規格/ Specs                      | L           | W           | H          |
|--------------------------------|-------------|-------------|------------|
| WM45-XXX                       | $185 \pm 3$ | $75 \pm 3$  | $65 \pm 3$ |
| WM45-XXX-P                     | $115 \pm 3$ | $110 \pm 3$ | $45 \pm 3$ |
| WM45-XXX-P-L<br>WM45-XXX-P-SXL | $185 \pm 3$ | $75 \pm 3$  | $65 \pm 3$ |

### 12-3 外盒/Outer carton



單位/Unit : mm

| 规格 /Specs                      | L     | W     | H     |
|--------------------------------|-------|-------|-------|
| WM45-XXX                       | 400±5 | 380±5 | 140±5 |
| WM45-XXX-P                     | 400±5 | 380±5 | 140±5 |
| WM45-XXX-P-L<br>WM45-XXX-P-SXL | 400±5 | 380±5 | 140±5 |

### 13.其他 / OTHERS

13-1 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.

13-2 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     |
|-----|-----|-----|--------|
| 第一版 | 侯愛珍 | 吳讓彬 | Andrew |

单击下面可查看定价，库存，交付和生命周期等信息

[>>Walter\(华德\)](#)