



**WALTER  
ELECTRONIC**

DGPHNST  
電話: 0755-23173910

# POWER FUSES

**POWER FUSE CATALOG**  
電力保險絲產品型錄

**The Name You Always Trust**  
就是可以信賴

## About Walter 華德介紹

In order to become closer to our customers and provide better services, the factory was established in the Yangtze River Delta-Jiangsu Wujiang in the year 2000. The products are not only sold in China but also exported all over the world. In 2006, the company received technical support from Japan's major manufacturers of current sense resistors, and began to develop resistance components, while obtaining certifications from renown manufacturers. In 2015, the company launched power fuses. Markets includes solar systems, industrial power supplies, communication power supplies, UPS, power batteries, electric vehicles, instrumentation, etc.

2000年設廠於長三角—江蘇吳江，產品不僅內銷中國，更出口世界各地。2006年，獲得日本大廠電流感測電阻相關產品技術支持，開始發展電阻元件，並獲得知名大廠認證。2015年推出電力保險絲，市場涵蓋太陽能系統、工業電源、通訊電源、UPS、電力電池、電動汽車、儀器儀表…等。

## Features 產品特性

- Designed according to UL248 / 遵照UL248
  - Designed according to IEC60127 / 遵照IEC60127
  - Designed according to IEC60269 / 遵照IEC60269
  - Designed according to BS88 / 遵照BS88
  - Designed according to UL2579(Photovoltaic) / 遵照UL2579(光伏設備)
  - Low voltage fuses devices / 低壓保險絲(IEC 60269)
  - Excellent overload and high pulse handing capability / 優異過流與突波承受能力
  - Complying with RoHS and Reach / 符合RoHS & Reach
- Wide application field and devices variety / 符合各領域與設備需求

## Applications 應用產業

- Electrical Vehicle / Hybrid Electrical Vehicle (PDU) & Peripherals(BMS、Charger) / 電動車
- Industrial Equipment Power (Inverter、Industrial UPS、Telecom segment and so on) / 工業設備
- Data Center Equipment Power (Server、UPS、Router、Switch、Internet and so on) / 數據中心
- Office Equipment (Output Devices : Laser Printer、Plotter、Multi-function office Machine) / 辦公設備
- Home Appliances (Air Condition) / 家用電器
- Low Voltage Distribution Applied / 低壓配電
- Digital Meter & Instruments / 儀器儀表
- Photovoltaic Applied / 太陽能系統

## Planet 環保理念

| Certifications / 相關認證 |           |            |
|-----------------------|-----------|------------|
| ISO 9001              | ISO 14001 | IATF 16949 |
| ✓                     | ✓         | ✓          |



## Definition of Electrical Characteristics and Terms 電性參數定義

### Low Voltage Fuses(IEC 60269) 低壓保險絲(IEC60269)

This kind fuse with rated breaking capacities of not less than 6KA is intended for protecting power-frequency A.C. circuits of nominal voltages not exceeding 1000V or D.C. circuits of nominal voltages not exceeding 1500V.

此類型保險絲主要應用於電壓不超過1000V的交流電路或電壓不超過1500V的直流電路，且其額定分斷能力不小於6KV。

### Rated Voltage 額定電壓

- IEC requires AC voltage tests to be performed at 110% of the rated voltage and power factors between 10 and 20 percent.

IEC規定熔斷器之交流電壓在額定電壓的110%  
&功率因素10~20%條件下進行測試

- UL requires all fuses should be tested at their rated voltage and power factors between 15 and 20 percent.

UL標準規定所有熔斷器在額定電壓測試須在  
功率因素10~20%之條件下進行測試

### Temperature Correction Curve Kc (Fig. 1) 溫度係數Kc

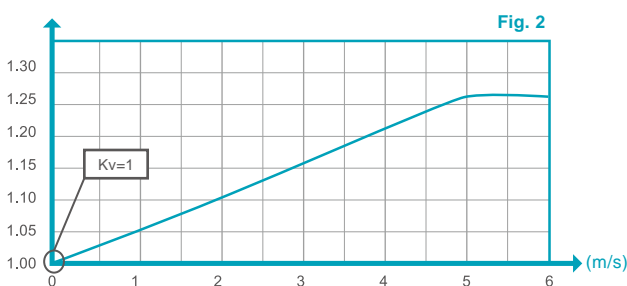
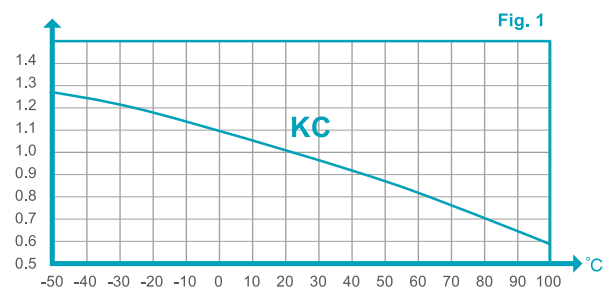
The rated current value of our fuses is based on the ambient temperature in the space below the fuse of 25°C up to 30°Cmax. The following graph gives correction factor Kc for a range of temperatures -50°C to +100°C.

熔斷器的額定電流定義環境溫度為25~30°C，於-50°C~+100°C之溫度曲線如Fig1

### Forced Cooling Correction Coefficient Kv (Fig. 2) 冷卻係數Kv

If forced air is used to cool the fuse in working, the continuous current rating of the fuse may be increased, by Multiplying the rated current by a coefficient Kv. The value of the correction coefficient please refer to following chart.

如採用風冷方式對工作中的熔斷器進行降溫，則熔斷器的額定電流值將會增加，冷卻條件係數Kv可進行額定電流值之修正。



### Arc Voltage 電弧電壓

When fuses fusing will appear arc voltage. The value of arc voltage pick will be the 2 times of the fault voltage(RMS), and the maximum will not exceed 2.5time. The pick value should not exceed of semiconductor announced.

熔斷器熔斷時將產生電弧電壓，電弧電壓峰值為故障電路電壓(RMS)的2倍，最高不超過2.5倍，不應超過半導體元件瞬態阻斷電壓。

### Overload Current of Circuit Imax 過載電流Imax

“Overload” is generally used for excess current flowing in the circuit which is electrically sound. Overload currents are usually not much greater than the normal full-load current of the system. As a rough rule, the overload current is less than 8 or 10 times the current rating.

過載主要針對於正常工作時電路中出現的過電流，一般過載電流並不會遠大於正常滿載電流，正常情況下，過載電流小於8~10倍的額定電流。

### Total Clearing I²t 熔斷能量I²t

The total clearing I²t at rated voltage and at power factor 15% are given in the electrical characteristics. Generally, total I²t including pre I²t and melting I²t.

總和熔斷能量是指額定電壓與功率因素15%的分斷電流(RMS)測試而得，總和熔斷能量包含弧前能量與熔斷能量。

### Power Losses P 功耗P

Watts losses at rated current is given in the electrical characteristics.

Different load current lead to different power losses through the correction factor due to the larger loading the higher resistance.

熔斷器的額定功耗是指在額定電流下的熔斷器功耗。

### Short-Circuit Current Rating (SCCR) 短路電流(SCCR)

SCCRs on components and equipment represent the maximum level of short-circuit current that the component of equipment can withstand and is used for determining compliance with NEC<sup>®</sup> 110.10. This rating can be marked on individual components or assemblies.

根據NEC<sup>®</sup> 110.10的規定，熔斷器和其他器件所表示的短路電流等級表示它所能承受的最大短路電流。

### Fuses in Parallel 並聯熔斷器

When fuses are in parallel, the current rating can be two times the current rating of one fuse in case of two fuses, but it becomes 90% the rating of 1 body multiplied by the number of fuses for 3 or more fuses in parallel once the following conditions are full filled: Distance between the two same length fuses must be 10mm at least but less than 30mm and keep the fuses' resistance within 5%.

當兩個熔斷器併聯，其額定電流能力為單顆熔斷器的2倍，當3個或以上熔斷器併聯，其單顆流通電流能力需為未併聯單顆熔斷器的90%，熔斷器併聯時，熔斷器安裝間距至少10mm但低於30mm，熔斷器冷電阻值差異小於5%。

### AC Fuses in DC Circuits 交流熔斷器用於直流電路中

If AC fuses are used in DC motor and the drive circuit The inductance in a DC circuit limits the rate of current rise. The time spent for the current to reach 63% of the final value is called the time constant, also referred to in terms of L/R. The dimensioning parameters will be the system DC-voltage, the minimum short-circuit current and associated maximum time constant(L/R). Many circuits have the time constant of between 10 ms and 20 ms and IEC specifications require testing between these values.

如果交流熔斷器使用在直流電機或直流驅動電路中，直流電路中產生的電感會抑制電流提升值；電流變化至最大終值的63%所消耗時間的對應值稱為時間常數(L/R)，電路中的直流電壓與短路電流皆會影響其時間常數；多數電路中的時間常數為10~20毫秒，此為IEC規範中要求測試的數據。

### Selection Criteria of a Semiconductor Fuse 半導體保險絲選型參考





- IVoltage Rating / 額定電壓: Vfuse > Vfault
- Current Rating / 額定電流: Ifuse > Irms
- Total Clearing I²t / 總合I²t: I²t total < I²t semiconductor
- Interrupting / 分斷能力: BCfuse > BCfault
- Arc Voltage / 電弧電壓: Varc fuse < Varc semiconductor

# PRODUCT CONTENTS / 產品目錄

| Series No.<br>型號 | Fuse Size<br>尺寸 | Voltage<br>電壓 | Characteristic<br>特性 | Safety Approvals<br>安規認證 | Page No.<br>頁數 |
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## WN Series



|      |        |                          |                  |   |    |
|------|--------|--------------------------|------------------|---|----|
| WN10 | 5x20mm | 600Vac                   | Fast Acting Type |  | 01 |
| WN20 | 5x20mm | 600Vac / 500Vdc / 400Vdc | Time-Lag Type    |  | 02 |
| WN30 | 5x20mm | 500Vdc / 400Vdc          | Fast Acting Type |  | 03 |
| WN40 | 5x20mm | 300Vac/dc                | Fast Acting Type |  | 04 |
















## WM Series



|         |        |                 |                  |   |    |
|---------|--------|-----------------|------------------|---|----|
| WM10    | 6x30mm | 600Vac/dc       | Fast Acting Type |    | 05 |
| WM20    | 6x30mm | 1000Vac/dc      | Fast Acting Type |    | 06 |
| WM30    | 6x30mm | 660Vac/dc       | Fast Acting Type |    | 07 |
| WM40    | 6x30mm | 660Vac/dc       | Fast Acting Type |    | 08 |
| WM45    | 6x30mm | 500Vac/dc       | Fast Acting Type |    | 09 |
| WM50    | 6x30mm | 250Vac / 150Vdc | Fast Acting Type |    | 10 |
| WM55    | 6x30mm | 250Vac / 150Vdc | Fast Acting Type |    | 11 |
| MHC/MHP | 6x30mm | 500Vac/dc       | Fast Acting Type |    | 12 |
| MTPP    | 6x30mm | 250Vac          | Time-Lag Type    |   | 13 |
| WM70    | 6x25mm | 75Vdc           | Time-Lag Type    |  | 14 |



## WL Series



|                   |         |                           |                            |   |    |
|-------------------|---------|---------------------------|----------------------------|---|----|
| LFC/LFP           | 10x38mm | 500Vac / 250Vac / 125Vdc  | UL248-1/-13                |  | 15 |
| WL10              | 10x38mm | 200Vdc                    | UL248-1/-13                |  | 16 |
| WL12              | 10x25mm | 150Vdc                    | UL248-1/-13                |  | 17 |
| WL20              | 10x38mm | 500Vac/dc                 | UL248-1/-13                |  | 18 |
| WL25              | 10x38mm | 600Vac/dc                 | UL248-1/-13                |  | 19 |
| WL30              | 10x38mm | 700Vac/dc                 | UL248-1/-13                |  | 20 |
| WL35              | 10x38mm | 800Vdc                    | UL248-1/-13                |  | 21 |
| WL40              | 10x38mm | 1000Vac/dc                | UL248-1/-13                |  | 22 |
| WL50              | 10x38mm | 1000Vdc                   | UL248-19                   |  | 23 |
| WL52H (Holder)    |         | 1000Vdc / 500Vac / 600Vac | UL4248-19/-13<br>EN60947-3 |  | 24 |
| WL52H-2P (Holder) |         | 1000Vdc / 500Vac / 600Vac | UL4248-19/-13              |  | 25 |
| WL52H-3P (Holder) |         | 1000Vdc / 500Vac / 600Vac | UL4248-19/-13              |  | 26 |
| WL55 / WL55P      | 10x55mm | 1500Vdc                   | UL248-19                   |  | 27 |
| WL60 / WL60P      | 10x85mm | 1500Vdc                   | UL248-19                   |  | 28 |
| WL60H (Holder)    |         | 1500Vdc                   | UL4248-19                  |  | 29 |

## WJ Series



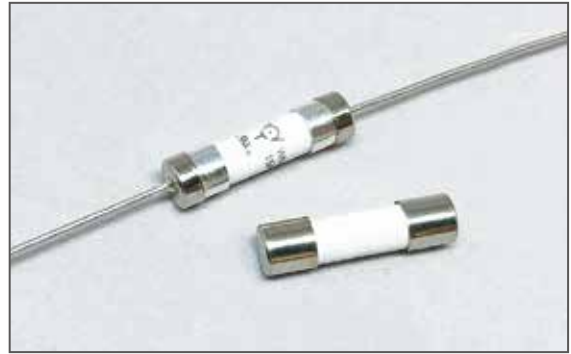
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| WJ30           | 14x51mm | 1500Vdc | UL248-19  |  | 30 |
| WJ30H (Holder) |         | 1500Vdc | UL4248-19 |  | 31 |
| WJ45           | 14x51mm | 800Vdc  |           |   | 32 |
| WJ50           | 14x51mm | 700Vdc  |           |   | 33 |

# PRODUCT CONTENTS / 產品目錄

|   | Series No.<br>型號 | Fuse Size<br>尺寸 | Voltage<br>電壓 | Characteristic<br>特性 | Safety Approvals<br>安規認證  | Page No.<br>頁數 |
|---|------------------|-----------------|---------------|----------------------|---|----------------|
| <b>WH Series</b>  |                  |                 |               |                      |   |                |
|    | WH25             | 18x68mm         | 800Vdc        | UL248-1/-13          |    | 34             |
|   | WH28             | 18x68mm         | 1000Vdc       | UL248-1/-13          |    | 35             |
|   | WH30             | 18x45mm         | 500Vdc        | UL248-1/-13          |    | 36             |
|   | WH33             | 18x45mm         | 500Vac/dc     | UL248-1/-13          |    | 37             |
|   | WH40             | 18x45mm         | 700Vac        | UL248-1/-13          |    | 38             |
|   | WH42             | 18x45mm         | 700Vac/dc     | UL248-1/-13          |    | 39             |
|   | WH60             | 18x25mm         | 150Vdc        | UL248-1/-13          |   | 40             |
|   | WH62             | 18x25mm         | 150Vdc        | UL248-1/-13          |   | 41             |
| <b>WE Series</b>  |                  |                 |               |                      |   |                |
|    | WE30             | 30x65mm         | 700Vdc        | UL248-1/-13          |    | 42             |
|   | WE35             | 30x65mm         | 800Vdc        | UL248-1/-13          |    | 43             |
|   | WE38             | 30x65mm         | 1000Vdc       | UL248-1/-13          |    | 44             |
|   | WE40             | 30x65mm         | 800Vdc        | UL248-1/-13          |   | 45             |
|   | WE50             | 30x50mm         | 500Vac        | UL248-1/-13          |    | 46             |
|   | WE53             | 30x50mm         | 500Vac/dc     | UL248-1/-13          |    | 47             |
|   | WE55             | 30x50mm         | 500Vdc        | UL248-1/-13          |    | 48             |
|   | WE70             | 30x30mm         | 200Vdc        | UL248-1/-13          |   | 49             |
| <b>WD Series</b>  |                  |                 |               |                      |   |                |
|  | WD22             | 37x70mm         | 700Vac/dc     | UL248-1/-13          |    | 50             |
|   | WD25             | 37x70mm         | 750Vdc        | UL248-1/-13          |    | 51             |
|   | WD35             | 37x70mm         | 800Vdc        | UL248-1/-13          |    | 52             |
|   | WD38             | 37x70mm         | 1000Vdc       | UL248-1/-13          |    | 53             |
|   | WD50             | 37x50mm         | 300Vdc        | UL248-1/-13          |   | 54             |
|   | WD60             | 37x50mm         | 500Vdc        | UL248-1/-13          |    | 55             |
|   | WD60X            | 37x50mm         | 500Vdc        | UL248-1/-13          |   | 56             |
|   | WD63             | 37x50mm         | 500Vac/dc     | UL248-1/-13          |    | 57             |
|   | WD70             | 37x50mm         | 700Vdc        | UL248-1/-13          |   | 58             |
|   | WD70M            | 37x50mm         | 700Vdc        | UL248-1/-13          |   | 59             |
|   | WD80             | 37x35mm         | 250Vdc        | UL248-1/-13          |   | 60             |
| <b>WS Series</b>  |                  |                 |               |                      |   |                |
|  | WS32             | 48x43x55mm      | 750Vdc        | JASOD622<br>ISO8820  |   | 61             |
|   | WS35             | 24x36x58mm      | 800Vdc        | JASOD622<br>ISO8820  |   | 62             |
|   | WS37             | 25x22x57mm      | 800Vdc        | JASOD622<br>ISO8820  |   | 63             |
|   | WS40             | 48x47x72mm      | 1000Vdc       | JASOD622<br>ISO8820  |   | 64             |
|   | WS70             | 48x43x85mm      | 1500Vdc       | JASOD622<br>ISO8820  |   | 65             |
|   | WS80             | 27x22x59mm      | 1500Vdc       | JASOD622<br>ISO8820  |   | 66             |
| <b>BS88 Series</b>  |                  |                 |               |                      |   |                |
|  | WHFM             | 37x50mm         | 690Vac/500Vdc | UL248-1/-13          |    | 67             |
|   | WHFMM            | (37x50mm)x2     | 690Vac/500Vdc | UL248-1/-13          |    | 68             |
|   | WHET             | 18x45mm         | 690Vac/500Vdc | UL248-1/-13          |    | 69             |
|   | WLET             | 18x25mm         | 240Vac/150Vdc | UL248-1/-13          |    | 70             |
|   | WLMT             | 38x30mm         | 240Vac/150Vdc | UL248-1/-13          |    | 71             |

I-T Characteristics / 時間-電流特性

| Ampere Rating<br>額定電流 | % of Ampere Rating<br>額定電流% | Opening Time<br>熔斷時間 |
|-----------------------|-----------------------------|----------------------|
| 200mA~600mA           | 100%                        | 4 Hrs Min. / 最短4小時   |
| 1A~20A                |                             | 4 Hrs Min. / 最短4小時   |
| 200mA~600mA           | 200%                        | -                    |
| 1A~20A                |                             | 120s Max. / 最長120秒   |
| 200mA~600mA           | 400%                        | 120s Max. / 最長120秒   |
| 1A~20A                |                             | -                    |

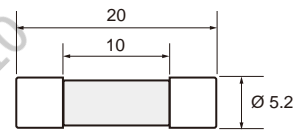


Product Features / 產品特性

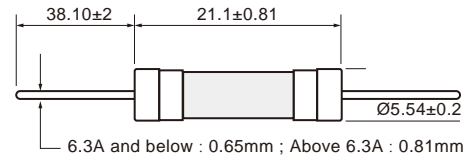
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| <b>Operating Temperature<br/>操作溫度</b>                | Operating temperature / 操作溫度範圍: -55°C~125°C<br>When choosing the fuses specification, if the operating environmental temperature beyond the scope from 20~30°C, you should consider the environmental temperature's affection to fuses.<br>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。 |
| <b>Storage Conditions<br/>儲存條件</b>                   | Under airtight in temperature +10°C~60°C、relative humidity ≤75% can store 3 years.<br>在溫度+10°C~60°C、相對濕度≤75%的密封條件下可存放3年。<br>Without dew in temperature+10°C~60°C、relative humidity be 95% maximum value for 30 days.<br>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。                               |
| <b>Installation Way &amp; Parameters<br/>安裝方式及條件</b> | Wave soldering parameters / 波峰焊<br>Solder pot temperature / 錫爐溫度: 260±3°C Max<br>Solder dwell time / 焊接時間: 10s Max<br>Hand welding parameters / 手工焊<br>Solder iron temperature / 烙鐵溫度: 350±5°C<br>Heating time / 焊接時間: 5s Max  |

Dimensions / 尺寸圖 (Unit / 單位:mm)

WN10-XXX



WN10-XXX-P



Electrical Characteristics / 電氣特性

| Type<br>品名 | Ordering P / N<br>料號 | Rated Current<br>額定電流 | Breaking Capacity<br>分斷能力 | Safety Approvals<br>安全認證 |   |
|------------|----------------------|-----------------------|---------------------------|--------------------------|---|
| WN10       | WN10-XXX             | WN10-XXX-P            |                           | UL US, TÜV SUD           |   |
|            | WN10-0.2             | WN10-0.2-P            | 200mA                     | 600VAC / 1000A           | ● |
|            | WN10-0.4             | WN10-0.4-P            | 400mA                     |                          | ● |
|            | WN10-0.5             | WN10-0.5-P            | 500mA                     |                          | ● |
|            | WN10-0.6             | WN10-0.6-P            | 600mA                     |                          | ● |
|            | WN10-1               | WN10-1-P              | 1A                        |                          | ● |
|            | WN10-1.6             | WN10-1.6-P            | 1.6A                      | 600VAC / 200A            | ● |
|            | WN10-2               | WN10-2-P              | 2A                        |                          | ● |
|            | WN10-2.5             | WN10-2.5-P            | 2.5A                      |                          | ● |
|            | WN10-3.15            | WN10-3.15-P           | 3.15A                     |                          | ● |
|            | WN10-4               | WN10-4-P              | 4A                        |                          | ● |
|            | WN10-5               | WN10-5-P              | 5A                        |                          | ● |
|            | WN10-6               | WN10-6-P              | 6A                        |                          | ● |
|            | WN10-6.3             | WN10-6.3-P            | 6.3A                      |                          | ● |
|            | WN10-8               | WN10-8-P              | 8A                        |                          | ● |
|            | WN10-10              | WN10-10-P             | 10A                       |                          | ● |
|            | WN10-12              | WN10-12-P             | 12A                       |                          | ● |
|            | WN10-15              | WN10-15-P             | 15A                       |                          | ● |
|            | WN10-20              | WN10-20-P             | 20A                       |                          | ● |

I-T Characteristics / 時間-電流特性

| Rated Current<br>額定電流 | 1.5In      | 2.1In      | 2.75In    | 3.0In     | 4.0In    | 10.0In     |
|-----------------------|------------|------------|-----------|-----------|----------|------------|
| <1A                   | 1 Hrs Min. | -          | -         | 120s Max. | -        | -          |
| 1A - 3.15A            | 1 Hrs Min. | 30min Max. | 750ms~80s | -         | 95ms~5s  | 10ms~150ms |
| 4A - 6.3A             | 1 Hrs Min. | 30min Max. | 750ms~80s | -         | 150ms~5s | 10ms~150ms |
| 8A - 20A              | 30min Min. | 30min Max. | 750ms~80s | -         | 150ms~8s | 10ms~150ms |

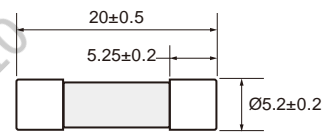


Product Features / 產品特性

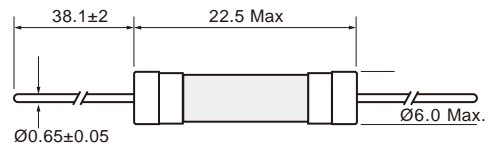
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| <b>Operating Temperature<br/>操作溫度</b>                | Operating temperature / 操作溫度範圍: -55°C~125°C<br>When choosing the fuses specification, if the operating environmental temperature beyond the scope from 20~30°C, you should consider the environmental temperature's affection to fuses.<br>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。 |
| <b>Storage Conditions<br/>儲存條件</b>                   | Under airtight in temperature +10°C~60°C、relative humidity ≤75% can store 3 years.<br>在溫度+10°C~60°C、相對濕度≤75%的密封條件下可存放3年。<br>Without dew in temperature+10°C~60°C、relative humidity be 95% maximum value for 30 days.<br>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。                               |
| <b>Installation Way &amp; Parameters<br/>安裝方式及條件</b> | Wave soldering parameters / 波峰焊<br>Solder pot temperature / 錫爐溫度: 260±3°C Max<br>Solder dwell time / 焊接時間: 10s Max<br>Hand welding parameters / 手工焊<br>Solder iron temperature / 烙鐵溫度: 350±5°C<br>Heating time / 焊接時間: 5s Max  |

Dimensions / 尺寸圖 (Unit / 單位:mm)

WN20-XXX(-H)



WN20-XXX-P(-H)



6.3A and below : 0.65mm ; Above 6.3A : 0.81mm

Electrical Characteristics / 電氣特性

| Type<br>品名 | Ordering P / N<br>料號 |             |             |               | Rated Current<br>額定電流 | Breaking Capacity<br>分斷能力                        | Safety Approvals<br>安全認證 |   |
|------------|----------------------|-------------|-------------|---------------|-----------------------|--|--------------------------|---|
| WN20       | WN20-XXX             | WN20-XXX-P  | WN20-XXX-H  | WN20-XXX-H-P  |                       |  |                          |   |
|            | WN20-0.5             | WN20-0.5-P  | -           | -             | 500mA                 | 600VAC / 200A<br>500VDC / 300A<br>400VDC / 2000A | ●                        |   |
|            | WN20-0.63            | WN20-0.63-P | -           | -             | 630mA                 |  | ●                        |   |
|            | WN20-0.8             | WN20-0.8-P  | -           | -             | 800mA                 |  | ●                        |   |
|            | WN20-1               | WN20-1-P    | -           | -             | 1A                    |  | ●                        | ● |
|            | WN20-1.25            | WN20-1.25-P | -           | -             | 1.25A                 |  | ●                        | ● |
|            | WN20-1.6             | WN20-1.6-P  | -           | -             | 1.6A                  |  | ●                        | ● |
|            | WN20-2               | WN20-2-P    | WN20-2-H    | WN20-2-H-P    | 2A                    |  | ●                        | ● |
|            | WN20-2.5             | WN20-2.5-P  | -           | -             | 2.5A                  |  | ●                        | ● |
|            | WN20-3.15            | WN20-3.15-P | WN20-3.15-H | WN20-3.15-H-P | 3.15A                 |  | ●                        | ● |
|            | WN20-4               | WN20-4-P    | WN20-4-H    | WN20-4-H-P    | 4A                    |  | ●                        | ● |
|            | WN20-5               | WN20-5-P    | WN20-5-H    | WN20-5-H-P    | 5A                    |  | ●                        | ● |
|            | WN20-6               | WN20-6-P    | -           | -             | 6A                    |  | ●                        | ● |
|            | WN20-6.3             | WN20-6.3-P  | WN20-6.3-H  | WN20-6.3-H-P  | 6.3A                  | ●  | ●                        |   |
|            | WN20-8               | WN20-8-P    | WN20-8-H    | WN20-8-H-P    | 8A                    | ●  | ●                        |   |
|            | WN20-10              | WN20-10-P   | -           | -             | 10A                   | ●  | ●                        |   |
|            | WN20-12              | WN20-12-P   | -           | -             | 12A                   | 600VAC / 200A<br>500VDC / 300A                   | ●                        | ● |
|            | WN20-15              | WN20-15-P   | -           | -             | 15A                   |  | ●                        | ● |
| WN20-16    | WN20-16-P            | -           | -           | 16A           | ●                     |  | ●                        |   |
| WN20-20    | WN20-20-P            | -           | -           | 20A           | ●                     |  | ●                        |   |

I-T Characteristics / 時間-電流特性

| Ampere Rating<br>額定電流 | % of Ampere Rating<br>額定電流% | Opening Time<br>熔斷時間 |
|-----------------------|-----------------------------|----------------------|
| 200mA~600mA           | 100%                        | 4 Hrs Min. / 最短4小時   |
| 1A~20A                |                             | 4 Hrs Min. / 最短4小時   |
| 200mA~600mA           | 200%                        | -                    |
| 1A~20A                |                             | 120s Max. / 最長120秒   |
| 200mA~600mA           | 400%                        | 120s Max. / 最長120秒   |
| 1A~20A                |                             | -                    |

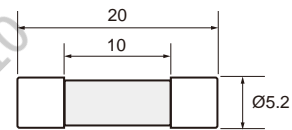


Product Features / 產品特性

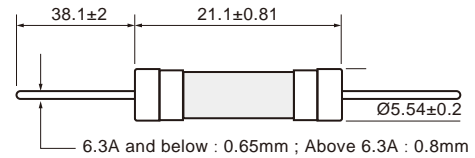
|  |  |
|--|--|
| <b>Operating Temperature<br/>操作溫度</b>                | Operating temperature / 操作溫度範圍: -55°C~125°C<br>When choosing the fuses specification, if the operating environmental temperature beyond the scope from 20~30°C, you should consider the environmental temperature's affection to fuses.<br>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。 |
| <b>Storage Conditions<br/>儲存條件</b>                   | Under airtight in temperature +10°C~60°C、relative humidity ≤75% can store 3 years.<br>在溫度+10°C~60°C、相對濕度≤75%的密閉條件下可存放3年。<br>Without dew in temperature+10°C~60°C、relative humidity be 95% maximum value for 30 days.<br>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。                                 |
| <b>Installation Way &amp; Parameters<br/>安裝方式及條件</b> | Wave soldering parameters / 波峰焊<br>Solder pot temperature / 錫爐溫度: 260±3°C Max<br>Solder dwell time / 焊接時間: 10s Max<br>Hand welding parameters / 手工焊<br>Solder iron temperature / 烙鐵溫度: 350±5°C<br>Heating time / 焊接時間: 5s Max  |

Dimensions / 尺寸圖 (Unit / 單位:mm)

WN30-XXX



WN30-XXX-P



Electrical Characteristics / 電氣特性

| Type<br>品名 | Ordering P / N<br>料號 | Rated Current<br>額定電流 | Breaking Capacity<br>分斷能力 | Safety Approvals<br>安全認證        |
|------------|----------------------|-----------------------|---------------------------|---------------------------------|
| WN30       | WN30-XXX             | WN30-XXX-P            |                           | UL US, TÜV SUD                  |
|            | WN30-0.2             | WN30-0.2-P            | 200mA                     | 500VDC / 300A<br>400VDC / 2000A |
|            | WN30-0.4             | WN30-0.4-P            | 400mA                     |                                 |
|            | WN30-0.5             | WN30-0.5-P            | 500mA                     |                                 |
|            | WN30-0.6             | WN30-0.6-P            | 600mA                     |                                 |
|            | WN30-1               | WN30-1-P              | 1A                        |                                 |
|            | WN30-1.25            | WN30-1.25-P           | 1.25A                     |                                 |
|            | WN30-1.6             | WN30-1.6-P            | 1.6A                      |                                 |
|            | WN30-2.5             | WN30-2.5-P            | 2.5A                      | 500VDC / 300A                   |
|            | WN30-10              | WN30-10-P             | 10A                       |                                 |
|            | WN30-12              | WN30-12-P             | 12A                       |                                 |
|            | WN30-15              | WN30-15-P             | 15A                       |                                 |
|            | WN30-20              | WN30-20-P             | 20A                       |                                 |



I-T Characteristics / 時間-電流特性

| Ampere Rating<br>額定電流 | % of Ampere Rating<br>額定電流% | Opening Time<br>熔斷時間 |
|-----------------------|-----------------------------|----------------------|
| 25A                   | 100%                        | 4 Hrs Min. / 最短4小時   |
|                       | 200%                        | 120s Max. / 最長120秒   |

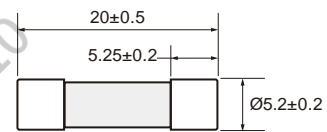


Product Features / 產品特性

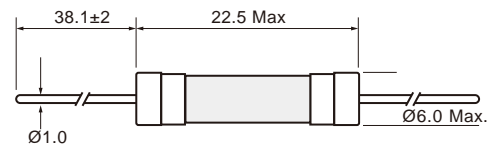
|  |   |
|--|---|
| <b>Operating Temperature<br/>操作溫度</b>                | <p>Operating temperature / 操作溫度範圍: -40°C~125°C<br/>When choosing the fuses specification, if the operating environmental temperature beyond the scope from 20~30°C, you should consider the environmental temperature's affection to fuses.<br/>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。</p> |
| <b>Storage Conditions<br/>儲存條件</b>                   | <p>Under airtight in temperature +10°C~60°C、relative humidity ≤75% can store 3 years.<br/>在溫度+10°C~60°C、相對濕度≤75%的密閉條件下可存放3年。<br/>Without dew in temperature+10°C~60°C、relative humidity be 95% maximum value for 30 days.<br/>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。</p>                              |
| <b>Installation Way &amp; Parameters<br/>安裝方式及條件</b> | <p>Wave soldering parameters / 波峰焊<br/>Solder pot temperature / 錫爐溫度: 260±3°C Max<br/>Solder dwell time / 焊接時間: 10s Max</p> <p>Hand welding parameters / 手工焊<br/>Solder iron temperature / 烙鐵溫度: 350±5°C<br/>Heating time / 焊接時間: 5s Max</p>  |

Dimensions / 尺寸圖 (Unit / 單位:mm)

WN40-XXX



WN40-XXX-P



Electrical Characteristics / 電氣特性

| Type<br>品名 | Ordering P / N<br>料號 |            | Rated Current<br>額定電流 | Breaking Capacity<br>分斷能力      | Safety Approvals<br>安全認證 |
|------------|----------------------|------------|-----------------------|--------------------------------|--------------------------|
| WN40       | WN40-XXX             | WN40-XXX-P |                       |                                | cUL <sup>®</sup> us      |
|            | WN40-25              | WN40-25-P  | 25A                   | 300VAC / 300A<br>300VDC / 300A | ●                        |

I-T Characteristics / 時間-電流特性

| Ampere Rating<br>額定電流 | % of Ampere Rating<br>額定電流% | Opening Time<br>熔斷時間 |
|-----------------------|-----------------------------|----------------------|
| 200mA~12A             | 100%                        | 4 Hrs Min. / 最短4小時   |
|                       | 250%                        | 120s Max. / 最長120秒   |

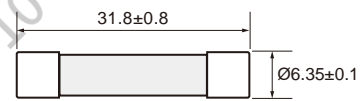


Product Features / 產品特性

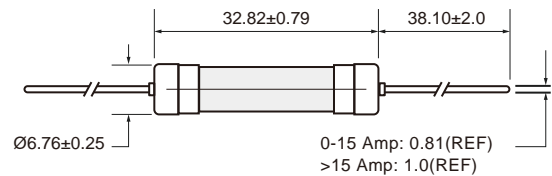
|  |  |
|--|--|
| <b>Operating Temperature<br/>操作溫度</b>                | Operating temperature / 操作溫度範圍: -55°C~125°C<br>When choosing the fuses specification, if the operating environmental temperature beyond the scope from 20~30°C, you should consider the environmental temperature's affection to fuses.<br>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。 |
| <b>Storage Conditions<br/>儲存條件</b>                   | Under airtight in temperature +10°C~60°C、relative humidity ≤75% can store 3 years.<br>在溫度+10°C~60°C、相對濕度≤75%的密封條件下可存放3年。<br>Without dew in temperature+10°C~60°C、relative humidity be 95% maximum value for 30 days.<br>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。                                 |
| <b>Installation Way &amp; Parameters<br/>安裝方式及條件</b> | Wave soldering parameters / 波峰焊<br>Solder pot temperature / 錫爐溫度: 260±3°C Max<br>Solder dwell time / 焊接時間: 10s Max<br>Hand welding parameters / 手工焊<br>Solder iron temperature / 烙鐵溫度: 350±5°C<br>Heating time / 焊接時間: 5s Max  |

Dimensions / 尺寸圖 (Unit / 單位:mm)

WM10-XXX



WM10-XXX-P



Electrical Characteristics / 電氣特性

| Type<br>品名 | Ordering P / N<br>料號 | Rated Current<br>額定電流 | Breaking Capacity<br>分斷能力 | Safety Approvals<br>安全認證 |
|------------|----------------------|-----------------------|---------------------------|--------------------------|
| WM10       | WM10-XXX             | WM10-XXX-P            |                           |                          |
|            | WM10-0.2             | WM10-0.2-P            | 200mA                     | ●                        |
|            | WM10-0.25            | WM10-0.25-P           | 250mA                     | ●                        |
|            | WM10-0.4             | WM10-0.4-P            | 400mA                     | ●                        |
|            | WM10-0.5             | WM10-0.5-P            | 500mA                     | ●                        |
|            | WM10-0.6             | WM10-0.6-P            | 600mA                     | ●                        |
|            | WM10-1               | WM10-1-P              | 1A                        | ●                        |
|            | WM10-1.25            | WM10-1.25-P           | 1.25A                     | ●                        |
|            | WM10-1.6             | WM10-1.6-P            | 1.6A                      | ●                        |
|            | WM10-2               | WM10-2-P              | 2A                        | ●                        |
|            | WM10-2.5             | WM10-2.5-P            | 2.5A                      | ●                        |
|            | WM10-3               | WM10-3-P              | 3A                        | ●                        |
|            | WM10-3.15            | WM10-3.15-P           | 3.15A                     | ●                        |
|            | WM10-4               | WM10-4-P              | 4A                        | ●                        |
|            | WM10-5               | WM10-5-P              | 5A                        | ●                        |
|            | WM10-6               | WM10-6-P              | 6A                        | ●                        |
|            | WM10-8               | WM10-8-P              | 8A                        | ●                        |
| WM10-10    | WM10-10-P            | 10A                   | ●                         |                          |
| WM10-12    | WM10-12-P            | 12A                   | ●                         |                          |

I-T Characteristics / 時間-電流特性

| Ampere Rating<br>額定電流 | % of Ampere Rating<br>額定電流% | Opening Time<br>熔斷時間 |
|-----------------------|-----------------------------|----------------------|
| 200mA~3A              | 100%                        | 4 Hrs Min. / 最短4小時   |
|                       | 250%                        | 120s Max. / 最長120秒   |

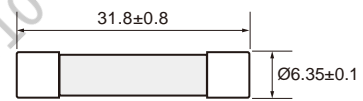


Product Features / 產品特性

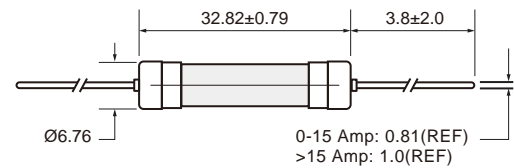
|  |  |
|--|--|
| <b>Operating Temperature<br/>操作溫度</b>                | Operating temperature / 操作溫度範圍: -55°C~125°C<br>When choosing the fuses specification, if the operating environmental temperature beyond the scope from 20~30°C, you should consider the environmental temperature's affection to fuses.<br>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。 |
| <b>Storage Conditions<br/>儲存條件</b>                   | Under airtight in temperature +10°C~60°C、relative humidity ≤75% can store 3 years.<br>在溫度+10°C~60°C、相對濕度≤75%的密閉條件下可存放3年。<br>Without dew in temperature+10°C~60°C、relative humidity be 95% maximum value for 30 days.<br>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。                               |
| <b>Installation Way &amp; Parameters<br/>安裝方式及條件</b> | Wave soldering parameters / 波峰焊<br>Solder pot temperature / 錫爐溫度: 260±3°C Max<br>Solder dwell time / 焊接時間: 10s Max<br>Hand welding parameters / 手工焊<br>Solder iron temperature / 烙鐵溫度: 350±5°C<br>Heating time / 焊接時間: 5s Max  |

Dimensions / 尺寸圖 (Unit / 單位:mm)

WM20-XXX



WM20-XXX-P



Electrical Characteristics / 電氣特性

| Type<br>品名 | Ordering P / N<br>料號 | Rated Current<br>額定電流 | Breaking Capacity<br>分斷能力 | Safety Approvals<br>安全認證 |
|------------|----------------------|-----------------------|---------------------------|--------------------------|
| WM20       | WM20-XXX             | WM20-XXX-P            |                           | cUL <sup>®</sup> US      |
|            | WM20-0.2             | WM20-0.2-P            | 200mA                     | ●                        |
|            | WM20-0.25            | WM20-0.25-P           | 250mA                     | ●                        |
|            | WM20-0.315           | WM20-0.315-P          | 400mA                     | ●                        |
|            | WM20-0.4             | WM20-0.4-P            | 500mA                     | ●                        |
|            | WM20-0.5             | WM20-0.5-P            | 600mA                     | ●                        |
|            | WM20-0.6             | WM20-0.6-P            | 1A                        | ●                        |
|            | WM20-1               | WM20-1-P              | 1.25A                     | ●                        |
|            | WM20-1.25            | WM20-1.25-P           | 1.6A                      | ●                        |
|            | WM20-1.6             | WM20-1.6-P            | 2A                        | ●                        |
|            | WM20-2               | WM20-2-P              | 2.5A                      | ●                        |
|            | WM20-2.5             | WM20-2.5-P            | 3A                        | ●                        |
| WM20-3     | WM20-3-P             | 3.15A                 | ●                         |                          |

I-T Characteristics / 時間-電流特性

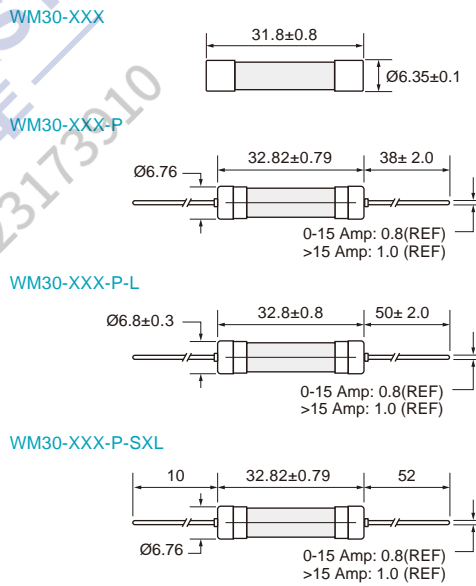
| Ampere Rating<br>額定電流 | % of Ampere Rating<br>額定電流% | Opening Time<br>熔斷時間 |
|-----------------------|-----------------------------|----------------------|
| 200mA~30A             | 100%                        | 4 Hrs Min. / 最短4小時   |
|                       | 250%                        | 120s Max. / 最長120秒   |



Product Features / 產品特性

|  |  |
|--|--|
| <b>Operating Temperature<br/>操作溫度</b>                | Operating temperature / 操作溫度範圍: -55°C~125°C<br>When choosing the fuses specification, if the operating environmental temperature beyond the scope from 20~30°C, you should consider the environmental temperature's affection to fuses.<br>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。 |
| <b>Storage Conditions<br/>儲存條件</b>                   | Under airtight in temperature +10°C~60°C、relative humidity ≤75% can store 3 years.<br>在溫度+10°C~60°C、相對濕度≤75%的密封條件下可存放3年。<br>Without dew in temperature+10°C~60°C、relative humidity be 95% maximum value for 30 days.<br>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。                                 |
| <b>Installation Way &amp; Parameters<br/>安裝方式及條件</b> | Wave soldering parameters / 波峰焊<br>Solder pot temperature / 錫爐溫度: 260±3°C Max<br>Solder dwell time / 焊接時間: 10s Max<br>Hand welding parameters / 手工焊<br>Solder iron temperature / 烙鐵溫度: 350±5°C<br>Heating time / 焊接時間: 5s Max  |

Dimensions / 尺寸圖 (Unit / 單位:mm)



Electrical Characteristics / 電氣特性

| Type<br>品名 | Ordering P / N<br>料號        | Rated Current<br>額定電流        | Breaking Capacity<br>分斷能力        | Safety Approvals<br>安全認證 |       |
|------------|-----------------------------|------------------------------|----------------------------------|--------------------------|-------|
| WM30       | WM30-XXX                    | WM30-XXX-P (-P-L / -P-SXL)   | 660VAC / 1000A<br>660VDC / 1000A |                          |       |
|            | WM30-0.2                    | WM30-0.2-P (-P-L / -P-SXL)   |                                  |                          | 200mA |
|            | WM30-0.25                   | WM30-0.25-P (-P-L / -P-SXL)  |                                  |                          | 250mA |
|            | WM30-0.315                  | WM30-0.315-P (-P-L / -P-SXL) |                                  |                          | 315mA |
|            | WM30-0.4                    | WM30-0.4-P (-P-L / -P-SXL)   |                                  |                          | 400mA |
|            | WM30-0.5                    | WM30-0.5-P (-P-L / -P-SXL)   |                                  |                          | 500mA |
|            | WM30-0.6                    | WM30-0.6-P (-P-L / -P-SXL)   |                                  |                          | 600mA |
|            | WM30-0.8                    | WM30-0.8-P (-P-L / -P-SXL)   |                                  |                          | 800mA |
|            | WM30-1                      | WM30-1-P (-P-L / -P-SXL)     |                                  |                          | 1A    |
|            | WM30-1.25                   | WM30-1.25-P (-P-L / -P-SXL)  |                                  |                          | 1.25A |
|            | WM30-1.6                    | WM30-1.6-P (-P-L / -P-SXL)   |                                  |                          | 1.6A  |
|            | WM30-2                      | WM30-2-P (-P-L / -P-SXL)     |                                  |                          | 2A    |
|            | WM30-2.5                    | WM30-2.5-P (-P-L / -P-SXL)   |                                  |                          | 2.5A  |
|            | WM30-3                      | WM30-3-P (-P-L / -P-SXL)     |                                  |                          | 3A    |
|            | WM30-3.15                   | WM30-3.15-P (-P-L / -P-SXL)  |                                  |                          | 3.15A |
|            | WM30-4                      | WM30-4-P (-P-L / -P-SXL)     |                                  |                          | 4A    |
|            | WM30-5                      | WM30-5-P (-P-L / -P-SXL)     |                                  |                          | 5A    |
|            | WM30-6                      | WM30-6-P (-P-L / -P-SXL)     |                                  |                          | 6A    |
|            | WM30-8                      | WM30-8-P (-P-L / -P-SXL)     |                                  |                          | 8A    |
|            | WM30-10                     | WM30-10-P (-P-L / -P-SXL)    |                                  |                          | 10A   |
| WM30-12    | WM30-12-P (-P-L / -P-SXL)   | 12A                          |                                  |                          |       |
| WM30-12.5  | WM30-12.5-P (-P-L / -P-SXL) | 12.5A                        |                                  |                          |       |
| WM30-15    | WM30-15-P (-P-L / -P-SXL)   | 15A                          |                                  |                          |       |
| WM30-16    | WM30-16-P (-P-L / -P-SXL)   | 16A                          |                                  |                          |       |
| WM30-20    | WM30-20-P (-P-L / -P-SXL)   | 20A                          |                                  |                          |       |
| WM30-25    | WM30-25-P (-P-L / -P-SXL)   | 25A                          |                                  |                          |       |
| WM30-30    | WM30-30-P (-P-L / -P-SXL)   | 30A                          |                                  |                          |       |

I-T Characteristics / 時間-電流特性

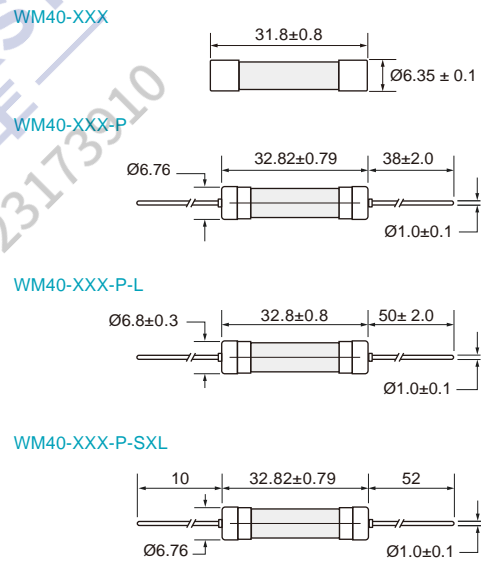
| Ampere Rating<br>額定電流 | % of Ampere Rating<br>額定電流% | Opening Time<br>熔斷時間 |
|-----------------------|-----------------------------|----------------------|
| 15A~30A               | 200%                        | 5 min Max. / 最長5分鐘   |
|                       | 300%                        | 10s Max. / 最長10秒     |



Product Features / 產品特性

|  |   |
|--|---|
| <b>Operating Temperature<br/>操作溫度</b>                | <p>Operating temperature / 操作溫度範圍: -55°C~125°C</p> <p>When choosing the fuses specification, if the operating environmental temperature beyond the scope from 20~30°C, you should consider the environmental temperature's affection to fuses.</p> <p>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。</p> |
| <b>Storage Conditions<br/>儲存條件</b>                   | <p>Under airtight in temperature +10°C~60°C、relative humidity ≤75% can store 3 years.</p> <p>在溫度+10°C~60°C、相對濕度≤75%的密封條件下可存放3年。</p> <p>Without dew in temperature+10°C~60°C、relative humidity be 95% maximum value for 30 days.</p> <p>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。</p>                           |
| <b>Installation Way &amp; Parameters<br/>安裝方式及條件</b> | <p>Wave soldering parameters / 波峰焊<br/>Solder pot temperature / 錫爐溫度: 260±3°C Max<br/>Solder dwell time / 焊接時間: 10s Max</p> <p>Hand welding parameters / 手工焊<br/>Solder iron temperature / 烙鐵溫度: 350±5°C<br/>Heating time / 焊接時間: 5s Max</p>  |

Dimensions / 尺寸圖 (Unit / 單位:mm)



Electrical Characteristics / 電氣特性

| Type<br>品名 | Ordering P / N<br>料號 |                            | Rated Current<br>額定電流 | Breaking Capacity<br>分斷能力        | Safety Approvals<br>安全認證 |
|------------|----------------------|----------------------------|-----------------------|----------------------------------|--------------------------|
| WM40       | WM40-XXX             | WM40-XXX-P (-P-L / -P-SXL) |                       |                                  |                          |
|            | WM40-15              | WM40-15-P (-P-L / -P-SXL)  | 15A                   | 660VAC / 1000A<br>660VDC / 1000A | ●                        |
|            | WM40-16              | WM40-16-P (-P-L / -P-SXL)  | 16A                   |                                  | ●                        |
|            | WM40-20              | WM40-20-P (-P-L / -P-SXL)  | 20A                   |                                  | ●                        |
|            | WM40-25              | WM40-25-P (-P-L / -P-SXL)  | 25A                   |                                  | ●                        |
|            | WM40-30              | WM40-30-P (-P-L / -P-SXL)  | 30A                   |                                  | ●                        |

I-T Characteristics / 時間-電流特性

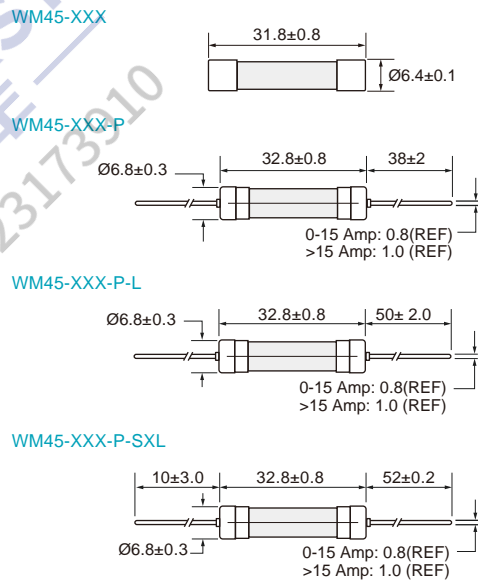
| Ampere Rating<br>額定電流 | % of Ampere Rating<br>額定電流% | Opening Time<br>熔斷時間 |
|-----------------------|-----------------------------|----------------------|
| 10A-25A               | 200%                        | 5 min Max. / 最長5分鐘   |
| 30A                   |                             | -                    |
| 10A-25A               | 250%                        | -                    |
| 30A                   |                             | 2 min Max. / 最長2分鐘   |
| 10A-25A               | 300%                        | 10s Max. / 最長10秒     |
| 30A                   |                             | -                    |



Product Features / 產品特性

|  |   |
|--|---|
| <b>Operating Temperature<br/>操作溫度</b>                | <p>Operating temperature / 操作溫度範圍: -50°C~125°C</p> <p>When choosing the fuses specification, if the operating environmental temperature beyond the scope from 20~30°C, you should consider the environmental temperature's affection to fuses.</p> <p>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。</p> |
| <b>Storage Conditions<br/>儲存條件</b>                   | <p>Under airtight in temperature +10°C~60°C、relative humidity ≤75% can store 3 years.</p> <p>在溫度+10°C~60°C、相對濕度≤75%的密封條件下可存放3年。</p> <p>Without dew in temperature+10°C~60°C、relative humidity be 95% maximum value for 30 days.</p> <p>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。</p>                           |
| <b>Installation Way &amp; Parameters<br/>安裝方式及條件</b> | <p>Wave soldering parameters / 波峰焊<br/>Solder pot temperature / 錫爐溫度: 260±3°C Max<br/>Solder dwell time / 焊接時間: 10s Max</p> <p>Hand welding parameters / 手工焊<br/>Solder iron temperature / 烙鐵溫度: 350±5°C<br/>Heating time / 焊接時間: 5s Max</p>  |

Dimensions / 尺寸圖 (Unit / 單位:mm)



Electrical Characteristics / 電氣特性

| Type<br>品名 | Ordering P / N<br>料號 |                             | Rated Current<br>額定電流 | Breaking Capacity<br>分斷能力        | Safety Approvals<br>安全認證 |
|------------|----------------------|-----------------------------|-----------------------|----------------------------------|--------------------------|
| WM45       | WM45-XXX             | WM45-XXX-P (-P-L / -P-SXL)  |                       | 500VAC / 1000A<br>500VDC / 1000A |                          |
|            | WM45-10              | WM45-10-P (-P-L / -P-SXL)   | 10A                   |                                  |                          |
|            | WM45-12              | WM45-12-P (-P-L / -P-SXL)   | 12A                   |                                  |                          |
|            | WM45-15              | WM45-15-P (-P-L / -P-SXL)   | 15A                   |                                  |                          |
|            | WM45-16              | WM45-16-P (-P-L / -P-SXL)   | 16A                   |                                  |                          |
|            | WM45-20              | WM45-20-P (-P-L / -P-SXL)   | 20A                   |                                  |                          |
|            | WM45-25              | WM45-25-P (-P-L / -P-SXL)   | 25A                   |                                  |                          |
|            | WM45-30-H            | WM45-30-H-P (-P-L / -P-SXL) | 30A                   |                                  |                          |

I-T Characteristics / 時間-電流特性

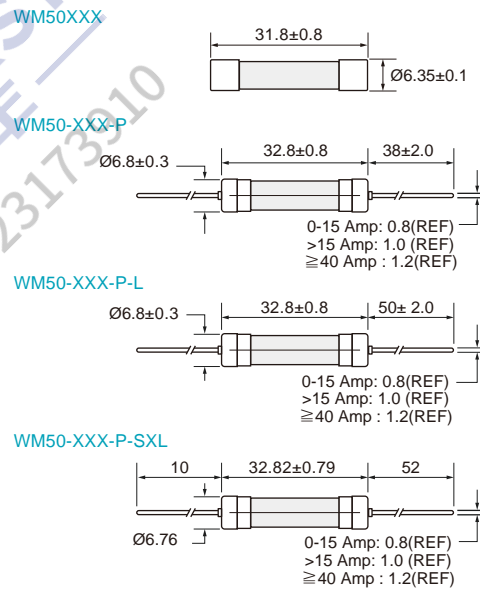
| Ampere Rating<br>額定電流 | % of Ampere Rating<br>額定電流% | Opening Time<br>熔斷時間 |
|-----------------------|-----------------------------|----------------------|
| 20A~50A               | 100%                        | 4 Hrs Min. / 最短4小時   |
|                       | 200%                        | 120s Max. / 最長120秒   |



Product Features / 產品特性

|  |   |
|--|---|
| <b>Operating Temperature<br/>操作溫度</b>                | <p>Operating temperature / 操作溫度範圍: -55°C~125°C</p> <p>When choosing the fuses specification, if the operating environmental temperature beyond the scope from 20~30°C, you should consider the environmental temperature's affection to fuses.</p> <p>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。</p> |
| <b>Storage Conditions<br/>儲存條件</b>                   | <p>Under airtight in temperature +10°C~60°C、relative humidity ≤75% can store 3 years.</p> <p>在溫度+10°C~60°C、相對濕度≤75%的密封條件下可存放3年。</p> <p>Without dew in temperature+10°C~60°C、relative humidity be 95% maximum value for 30 days.</p> <p>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。</p>                           |
| <b>Installation Way &amp; Parameters<br/>安裝方式及條件</b> | <p>Wave soldering parameters / 波峰焊</p> <p>Solder pot temperature / 錫爐溫度: 260±3°C Max</p> <p>Solder dwell time / 焊接時間: 10s Max</p> <hr/> <p>Hand welding parameters / 手工焊</p> <p>Solder iron temperature / 烙鐵溫度: 350±5°C</p> <p>Heating time / 焊接時間: 5s Max</p>  |

Dimensions / 尺寸圖 (Unit / 單位:mm)



Electrical Characteristics / 電氣特性

| Type<br>品名 | Ordering P / N<br>料號      |                            | Rated Current<br>額定電流 | Breaking Capacity<br>分斷能力        | Safety Approvals<br>安全認證 |
|------------|---------------------------|----------------------------|-----------------------|----------------------------------|--------------------------|
| WM50       | WM50-XXX                  | WM50-XXX-P (-P-L / -P-SXL) |                       |                                  | UL <sup>®</sup> US       |
|            | WM50-20                   | WM50-20-P (-P-L / -P-SXL)  | 20A                   | 250VAC / 1000A<br>150VDC / 1000A | ●                        |
|            | WM50-25                   | WM50-25-P (-P-L / -P-SXL)  | 25A                   |                                  | ●                        |
|            | WM50-30                   | WM50-30-P (-P-L / -P-SXL)  | 30A                   |                                  | ●                        |
|            | WM50-40                   | WM50-40-P (-P-L / -P-SXL)  | 40A                   |                                  | ●                        |
| WM50-50    | WM50-50-P (-P-L / -P-SXL) | 50A                        | ●                     |                                  |                          |

I-T Characteristics / 時間-電流特性

| Ampere Rating<br>額定電流 | % of Ampere Rating<br>額定電流% | Opening Time<br>熔斷時間 |
|-----------------------|-----------------------------|----------------------|
| 40A / 50A             | 100%                        | 4 Hrs Min. / 最短4小時   |
|                       | 250%                        | 120s Max. / 最長120秒   |

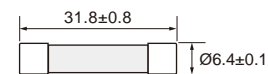


Product Features / 產品特性

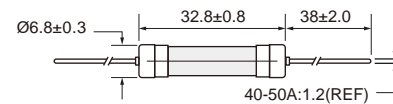
|  |  |
|--|--|
| <b>Operating Temperature<br/>操作溫度</b>                | Operating temperature / 操作溫度範圍: -40°C~125°C<br>When choosing the fuses specification, if the operating environmental temperature beyond the scope from 20~30°C, you should consider the environmental temperature's affection to fuses.<br>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。 |
| <b>Storage Conditions<br/>儲存條件</b>                   | Under airtight in temperature +10°C~60°C、relative humidity ≤75% can store 3 years.<br>在溫度+10°C~60°C、相對濕度≤75%的密封條件下可存放3年。<br>Without dew in temperature+10°C~60°C、relative humidity be 95% maximum value for 30 days.<br>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。                               |
| <b>Installation Way &amp; Parameters<br/>安裝方式及條件</b> | Wave soldering parameters / 波峰焊<br>Solder pot temperature / 錫爐溫度: 260±3°C Max<br>Solder dwell time / 焊接時間: 10s Max   |
|  | Hand welding parameters / 手工焊<br>Solder iron temperature / 烙鐵溫度: 350±5°C<br>Heating time / 焊接時間: 5s Max  |

Dimensions / 尺寸圖 (Unit / 單位:mm)

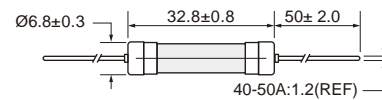
WM55-XXX



WM55-XXX-P



WM55-XXX-P-L



Electrical Characteristics / 電氣特性

| Type<br>品名 | Ordering P / N<br>料號 |            |              | Rated Current<br>額定電流 | Breaking Capacity<br>分斷能力 | Safety Approvals<br>安全認證 |
|------------|----------------------|------------|--------------|-----------------------|---------------------------|--------------------------|
| WM55       | WM50-XXX             | WM55-XXX-P | WM55-XXX-P-L |                       |                           |                          |
|            | WM55-40              | WM55-40-P  | WM55-40-P-L  | 40A                   | 250VAC / 1000A            |                          |
|            | WM55-50              | WM55-50-P  | WM55-50-P-L  | 50A                   | 150VDC / 1000A            |                          |



I-T Characteristics / 時間-電流特性

| % of Ampere Rating<br>額定電流% | Opening Time<br>熔斷時間 |
|-----------------------------|----------------------|
| 150%                        | 30 min Max. / 最長30分鐘 |
| 200%                        | 5 min Max. / 最長5分鐘   |
| 300%                        | 10s Max. / 最長10秒     |

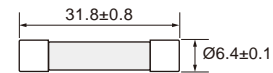


Product Features / 產品特性

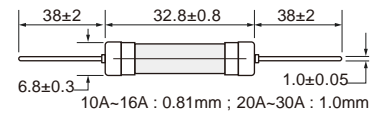
|  |  |
|--|--|
| <b>Operating Temperature<br/>操作溫度</b>                | Operating temperature / 操作溫度範圍: -55°C~125°C<br>When choosing the fuses specification, if the operating environmental temperature beyond the scope from 20~30°C, you should consider the environmental temperature's affection to fuses.<br>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。 |
| <b>Storage Conditions<br/>儲存條件</b>                   | Under airtight in temperature +10°C~60°C、relative humidity ≤75% can store 3 years.<br>在溫度+10°C~60°C、相對濕度≤75%的密封條件下可存放3年。<br>Without dew in temperature+10°C~60°C、relative humidity be 95% maximum value for 30 days.<br>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。                               |
| <b>Installation Way &amp; Parameters<br/>安裝方式及條件</b> | Wave soldering parameters / 波峰焊<br>Solder pot temperature / 錫爐溫度: 260±3°C Max<br>Solder dwell time / 焊接時間: 10s Max<br>Hand welding parameters / 手工焊<br>Solder iron temperature / 烙鐵溫度: 350±5°C<br>Heating time / 焊接時間: 5s Max  |

Dimensions / 尺寸圖 (Unit / 單位:mm)

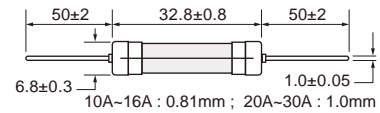
MHC-XXX



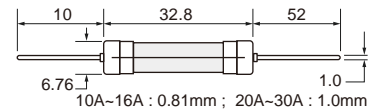
MHP-XXX



MHP-XXX-L



MHP-XXX-SXL



Electrical Characteristics / 電氣特性

| Type<br>品名 | Ordering P / N<br>料號 |                     | Rated Current<br>額定電流 | Breaking Capacity<br>分斷能力      | Safety Approvals<br>安全認證 |   |
|------------|----------------------|---------------------|-----------------------|--------------------------------|--------------------------|---|
| MHC<br>MHP | MHC-XXX              | MHP-XXX (-L / -SXL) |                       |                                |                          |   |
|            | MHC-10               | MHP-10 (-L / -SXL)  | 10A                   | 500VAC / 30KA<br>500VDC / 20KA | ●                        | ● |
|            | MHC-12               | MHP-12 (-L / -SXL)  | 12A                   |                                | ●                        | ● |
|            | MHC-15               | MHP-15 (-L / -SXL)  | 15A                   |                                | ●                        | ● |
|            | MHC-16               | MHP-16 (-L / -SXL)  | 16A                   |                                | ●                        | ● |
|            | MHC-20               | MHP-20 (-L / -SXL)  | 20A                   |                                | ●                        | ● |
|            | MHC-25               | MHP-25 (-L / -SXL)  | 25A                   |                                | ●                        | ● |
| MHC-30     | MHP-30 (-L / -SXL)   | 30A                 | ●                     |                                | ●                        |   |

## I-T Characteristics / 時間-電流特性

| Ampere Rating<br>額定電流 | % of Ampere Rating<br>額定電流% | Opening Time<br>熔斷時間 |
|-----------------------|-----------------------------|----------------------|
| 40A                   | 100%                        | 4 Hrs Min. / 最短4小時   |
|                       | 250%                        | 120s Max. / 最長120秒   |

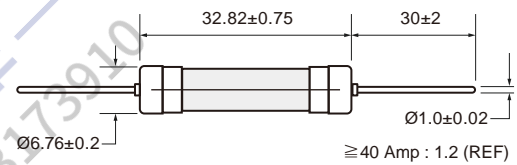


## Product Features / 產品特性

|  |  |
|--|--|
| <b>Operating Temperature<br/>操作溫度</b>                    | Operating temperature / 操作溫度範圍: -55°C~125°C<br>When choosing the fuses specification, if the operating environmental temperature beyond the scope from 20~30°C, you should consider the environmental temperature's affection to fuses.<br>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。 |
| <b>Storage Conditions<br/>儲存條件</b>                       | Under airtight in temperature +10°C~60°C、relative humidity ≤75% can store 3 years.<br>在溫度+10°C~60°C、相對濕度≤75%的密閉條件下可存放3年。<br>Without dew in temperature+10°C~60°C、relative humidity be 95% maximum value for 30 days.<br>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。                                 |
| <b>Installation Way<br/>&amp; Parameters<br/>安裝方式及條件</b> | Wave soldering parameters / 波峰焊<br>Solder pot temperature / 錫爐溫度: 260±3°C Max<br>Solder dwell time / 焊接時間: 2~5s Max  |
|  | Hand welding parameters / 手工焊<br>Solder iron temperature / 烙鐵溫度: 350±5°C<br>Heating time / 焊接時間: 5s Max  |

## Dimensions / 尺寸圖 (Unit / 單位:mm)

MTPP-XXX



## Electrical Characteristics / 電氣特性

| Type<br>品名 | Ordering P / N<br>料號 | Rated Current<br>額定電流 | Breaking Capacity<br>分斷能力 | Safety Approvals<br>安全認證  |
|------------|----------------------|-----------------------|---------------------------|---|
| MTPP       | MTPP-XXX             |                       |                           |  |
|            | MTPP-40              | 40A                   | 250VAC / 300A             | ●   |

I-T Characteristics / 時間-電流特性

| Ampere Rating<br>額定電流 | % of Ampere Rating<br>額定電流% | Opening Time<br>熔斷時間 |
|-----------------------|-----------------------------|----------------------|
| 5A~25A                | 100%                        | 4 Hrs Min. / 最短4小時   |
| 30A~50A               |                             | 4 Hrs Min. / 最短4小時   |
| 5A~25A                | 150%                        | 1 Hrs Max. / 最長1小時   |
| 30A~50A               |                             | -                    |
| 5A~25A                | 200%                        | 120s Max. / 最長120秒   |
| 30A~50A               |                             | 120s Max. / 最長120秒   |

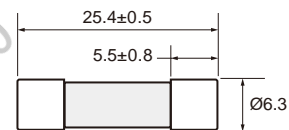


Product Features / 產品特性

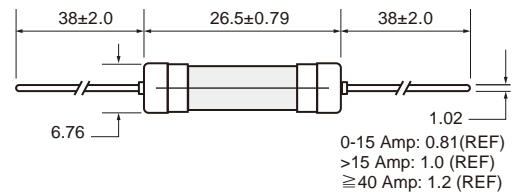
|  |  |
|--|--|
| <b>Operating Temperature<br/>操作溫度</b>                | Operating temperature / 操作溫度範圍: -55°C~125°C<br>When choosing the fuses specification, if the operating environmental temperature beyond the scope from 20~30°C, you should consider the environmental temperature's affection to fuses.<br>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。 |
| <b>Storage Conditions<br/>儲存條件</b>                   | Under airtight in temperature +10°C~60°C、relative humidity ≤75% can store 3 years.<br>在溫度+10°C~60°C、相對濕度≤75%的密閉條件下可存放3年。<br>Without dew in temperature+10°C~60°C、relative humidity be 95% maximum value for 30 days.<br>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。                               |
| <b>Installation Way &amp; Parameters<br/>安裝方式及條件</b> | Wave soldering parameters / 波峰焊<br>Solder pot temperature / 錫爐溫度: 260±3°C Max<br>Solder dwell time / 焊接時間: 10s Max<br>Hand welding parameters / 手工焊<br>Solder iron temperature / 烙鐵溫度: 350±5°C<br>Heating time / 焊接時間: 5s Max  |

Dimensions / 尺寸圖 (Unit / 單位:mm)

WM70-XXX



WM70-XXX-P



Electrical Characteristics / 電氣特性

| Type<br>品名 | Ordering P / N<br>料號 |              | Rated Current<br>額定電流 | Breaking Capacity<br>分斷能力 | Safety Approvals<br>安全認證 |
|------------|----------------------|--------------|-----------------------|---------------------------|--------------------------|
| WM70       | WM70-XXX             | WM70-XXX-P   |                       | 75VDC / 2500A             |                          |
|            | WM70-5               | WM70-5-P     | 5A                    |                           |                          |
|            | WM70-6               | WM70-6-P     | 6A                    |                           |                          |
|            | WM70-10              | WM70-10-P    | 10A                   |                           |                          |
|            | WM70-15              | WM70-15-P    | 15A                   |                           |                          |
|            | WM70-20              | WM70-20-P    | 20A                   |                           |                          |
|            | WM70-25              | WM70-25-P    | 25A                   |                           |                          |
|            | WM70-30-ZG           | WM70-30-ZG-P | 30A                   |                           |                          |
|            | WM70-40-ZG           | WM70-40-ZG-P | 40A                   |                           |                          |
|            | WM70-50-ZG           | WM70-50-ZG-P | 50A                   |                           |                          |

I-T Characteristics / 時間-電流特性

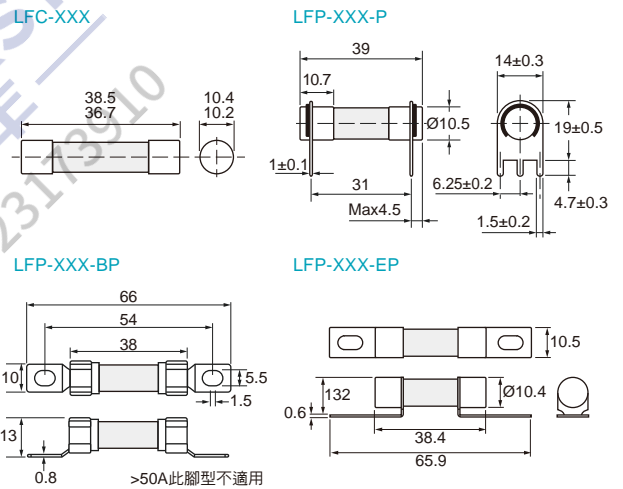
| % of Ampere Rating<br>額定電流% | Opening Time<br>熔斷時間 |
|-----------------------------|----------------------|
| 200%                        | 2 min Max. / 最長2分鐘   |



Product Features / 產品特性

|  |  |
|--|--|
| <b>Operating Temperature<br/>操作溫度</b>                | Operating temperature / 操作溫度範圍: -55°C~125°C<br>When choosing the fuses specification, if the operating environmental temperature beyond the scope from 20~30°C, you should consider the environmental temperature's affection to fuses.<br>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。 |
| <b>Storage Conditions<br/>儲存條件</b>                   | Under airtight in temperature +10°C~60°C、relative humidity ≤75% can store 3 years.<br>在溫度+10°C~60°C、相對濕度≤75%的密封條件下可存放3年。<br>Without dew in temperature+10°C~60°C、relative humidity be 95% maximum value for 30 days.<br>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。                                 |
| <b>Installation Way &amp; Parameters<br/>安裝方式及條件</b> | Stud-mount / 螺絲安裝  |
|  | Wave soldering parameters / 波峰焊<br>Solder pot temperature / 錫爐溫度: 260±3°C Max<br>Solder dwell time / 焊接時間: 10s Max   |
|  | Hand welding parameters / 手工焊<br>Solder iron temperature / 烙鐵溫度: 350±5°C<br>Heating time / 焊接時間: 5s Max  |

Dimensions / 尺寸圖 (Unit / 單位:mm)



Electrical Characteristics / 電氣特性

| Type<br>品名 | Ordering P / N<br>料號 |            |             |            | Rated Current<br>額定電流 | Breaking Capacity<br>分斷能力 | Safety Approvals<br>安全認證 |
|------------|----------------------|------------|-------------|------------|-----------------------|---------------------------|--------------------------|
| LFC<br>LFP | LFC-XXX              | LFC-XXX-P  | LFP-XXX-BP  | LFP-XXX-EP |                       |                           | cUL <sup>®</sup> US      |
|            | LFC-31.5             | LFC-31.5-P | LFP-31.5-BP | -          | 31.5A                 |                           | ●                        |
|            | LFC-32               | LFC-32-P   | LFP-32-BP   | -          | 32A                   | 500VAC / 1500A            | ●                        |
|            | LFC-40               | LFC-40-P   | LFP-40-BP   | -          | 40A                   | 125VDC / 1500A            | ●                        |
|            | LFC-50               | LFC-50-P   | LFP-50-BP   | -          | 50A                   |                           | ●                        |
|            | LFC-63               | LFC-63-P   | -           | -          | 36A                   |                           | ●                        |
|            | LFC-80               | LFC-80-P   | -           | -          | 80A                   | 250VAC / 2500A            | ●                        |
|            | -                    | -          | -           | LFP-63-EP  | 36A                   | 125VDC / 1500A            |                          |
| -          | -                    | -          | LFP-80-EP   | 80A        |                       |                           |                          |

I-T Characteristics / 時間-電流特性

| % of Ampere Rating<br>額定電流% | Opening Time<br>熔斷時間 |
|-----------------------------|----------------------|
| 200%                        | 1s Min. / 最短1秒       |
|                             | 300s Max. / 最長300秒   |
| 300%                        | 0.2s Min. / 最短0.2秒   |
|                             | 30s Max. / 最長30秒     |
| 500%                        | 0.1s Min. / 最短0.1秒   |
|                             | 10s Max. / 最長10秒     |

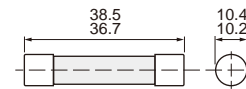


Product Features / 產品特性

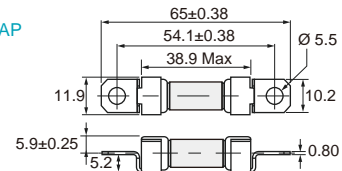
|  |   |
|--|---|
| <b>Operating Temperature<br/>操作溫度</b>                | <p>Operating temperature / 操作溫度範圍: -55°C~125°C<br/>When choosing the fuses specification, if the operating environmental temperature beyond the scope from 20~30°C, you should consider the environmental temperature's affection to fuses.<br/>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。</p> |
| <b>Storage Conditions<br/>儲存條件</b>                   | <p>Under airtight in temperature +10°C~60°C、relative humidity ≤75% can store 3 years.<br/>在溫度+10°C~60°C、相對濕度≤75%的密閉條件下可存放3年。<br/>Without dew in temperature+10°C~60°C、relative humidity be 95% maximum value for 30 days.<br/>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。</p>                                |
| <b>Installation Way &amp; Parameters<br/>安裝方式及條件</b> | Stud-mount / 螺絲安裝   |
|  | <p>Wave soldering parameters / 波峰焊<br/>Solder pot temperature / 錫爐溫度: 260±3°C Max<br/>Solder dwell time / 焊接時間: 10s Max</p>   |
|  | <p>Hand welding parameters / 手工焊<br/>Solder iron temperature / 烙鐵溫度: 350±5°C<br/>Heating time / 焊接時間: 5s Max</p>  |

Dimensions / 尺寸圖 (Unit / 單位:mm)

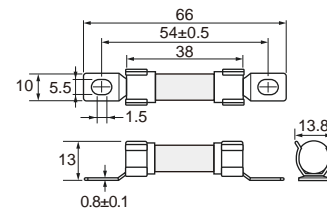
WL10-XXX



WL10-XXX-AP



WL10-XXX-BP



Electrical Characteristics / 電氣特性

| Type<br>品名 | Ordering P / N<br>料號 |             |             | Rated Current<br>額定電流 | Breaking Capacity<br>分斷能力 | Safety Approvals<br>安全認證 |
|------------|----------------------|-------------|-------------|-----------------------|---------------------------|--------------------------|
| WL10       | WL10-XXX             | WL10-XXX-AP | WL10-XXX-BP |                       | 200VDC / 15KA             |                          |
|            | WL10-5               | WL10-5-AP   | WL10-5-BP   | 5A                    |                           |                          |
|            | WL10-6               | WL10-6-AP   | WL10-6-BP   | 6A                    |                           |                          |
|            | WL10-8               | WL10-8-AP   | WL10-8-BP   | 8A                    |                           |                          |
|            | WL10-10              | WL10-10-AP  | WL10-10-BP  | 10A                   |                           |                          |
|            | WL10-15              | WL10-15-AP  | WL10-15-BP  | 15A                   |                           |                          |
|            | WL10-20              | WL10-20-AP  | WL10-20-BP  | 20A                   |                           |                          |
|            | WL10-25              | WL10-25-AP  | WL10-25-BP  | 25A                   |                           |                          |
|            | WL10-30              | WL10-30-AP  | WL10-30-BP  | 30A                   |                           |                          |
|            | WL10-35              | WL10-35-AP  | WL10-35-BP  | 35A                   |                           |                          |
|            | WL10-40              | WL10-40-AP  | WL10-40-BP  | 40A                   |                           |                          |
| WL10-50    | WL10-50-AP           | WL10-50-BP  | 50A         |                       |                           |                          |
| WL10-60    | WL10-60-AP           | WL10-60-BP  | 60A         |                       |                           |                          |

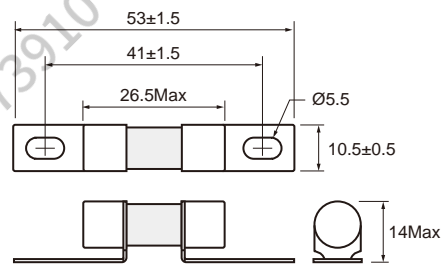
Product Features / 產品特性

|  |   |
|--|---|
| Operating Temperature<br>操作溫度            | Operating temperature / 操作溫度範圍：-55°C~125°C<br>When choosing the fuses specification, if the operating environmental temperature beyond the scope from 20~30°C, you should consider the environmental temperature's affection to fuses.<br>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。 |
| Storage Conditions<br>儲存條件               | Under airtight in temperature +10°C~60°C、relative humidity ≤75% can store 3 years.<br>在溫度+10°C~60°C、相對濕度≤75%的密閉條件下可存放3年。<br>Without dew in temperature+10°C~60°C、relative humidity be 95% maximum value for 30 days.<br>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。                              |
| Installation Way & Parameters<br>安裝方式及條件 | Stud-mount / 螺絲安裝   |
|  | Wave soldering parameters / 波峰焊<br>Solder pot temperature / 錫爐溫度：260±3°C Max<br>Solder dwell time / 焊接時間：10s Max  |
|  | Hand welding parameters / 手工焊<br>Solder iron temperature / 烙鐵溫度：350±5°C<br>Heating time / 焊接時間：5s Max   |
|  |   |



Dimensions / 尺寸圖 (Unit / 單位:mm)

WL12-XXX-EP



Electrical Characteristics / 電氣特性

| Type<br>品名 | Ordering P / N<br>料號 | Rated Current<br>額定電流 | Breaking Capacity<br>分斷能力 |
|------------|----------------------|-----------------------|---------------------------|
| WL12       | WL12-XXX-EP          |                       | 150VDC / 20KA             |
|            | WL12-40-EP           | 40A                   |                           |
|            | WL12-50-EP           | 50A                   |                           |
|            | WL12-63-EP           | 63A                   |                           |
|            | WL12-80-EP           | 80A                   |                           |

I-T Characteristics / 時間-電流特性

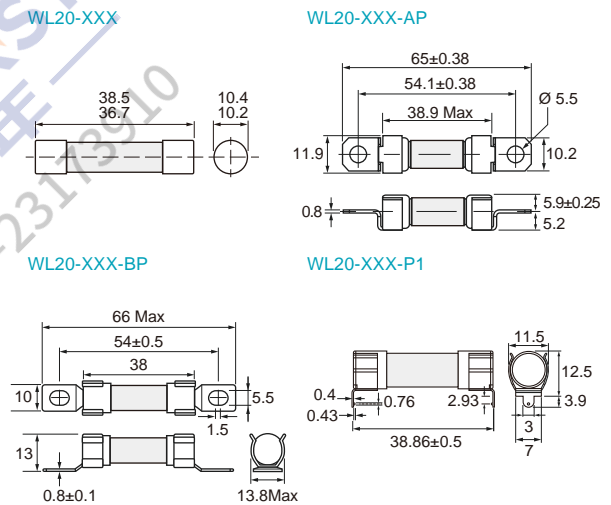
| % of Ampere Rating<br>額定電流% | Opening Time<br>熔斷時間 |
|-----------------------------|----------------------|
| 200%                        | 1s Min. / 最短1秒       |
|                             | 300s Max. / 最長300秒   |
| 300%                        | 0.2s Min. / 最短0.2秒   |
|                             | 30s Max. / 最長30秒     |
| 500%                        | 0.1s Min. / 最短0.1秒   |
|                             | 10s Max. / 最長10秒     |



Product Features / 產品特性

|  |   |
|--|---|
| <b>Operating Temperature<br/>操作溫度</b>                | <p>Operating temperature / 操作溫度範圍: -55°C~125°C</p> <p>When choosing the fuses specification, if the operating environmental temperature beyond the scope from 20~30°C, you should consider the environmental temperature's affection to fuses.</p> <p>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。</p> |
| <b>Storage Conditions<br/>儲存條件</b>                   | <p>Under airtight in temperature +10°C~60°C、relative humidity ≤75% can store 3 years.</p> <p>在溫度+10°C~60°C、相對濕度≤75%的密封條件下可存放3年。</p> <p>Without dew in temperature+10°C~60°C、relative humidity be 95% maximum value for 30 days.</p> <p>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。</p>                           |
| <b>Installation Way &amp; Parameters<br/>安裝方式及條件</b> | <p>Stud-mount / 螺絲安裝</p> <p>Wave soldering parameters / 波峰焊<br/>Solder pot temperature / 錫爐溫度: 260±3°C Max<br/>Solder dwell time / 焊接時間: 10s Max</p> <p>Hand welding parameters / 手工焊<br/>Solder iron temperature / 烙鐵溫度: 350±5°C<br/>Heating time / 焊接時間: 5s Max</p>                                     |

Dimensions / 尺寸圖 (Unit / 單位:mm)



Electrical Characteristics / 電氣特性

| Type<br>品名 | Ordering P / N<br>料號   |                         | Rated Current<br>額定電流 | Breaking Capacity<br>分斷能力      | Safety Approvals<br>安全認證 |
|------------|------------------------|-------------------------|-----------------------|--------------------------------|--------------------------|
| WL20       | WL20-XXX               | WL20-XXX-AP (-BP / -P1) |                       |                                | UL <sup>®</sup> US       |
|            | WL20-5                 | WL20-5-AP (-BP / -P1)   | 5A                    | 500VAC / 10KA<br>500VDC / 20KA | ●                        |
|            | WL20-6                 | WL20-6-AP (-BP / -P1)   | 6A                    |                                | ●                        |
|            | WL20-8                 | WL20-8-AP (-BP / -P1)   | 8A                    |                                | ●                        |
|            | WL20-10                | WL20-10-AP (-BP / -P1)  | 10A                   |                                | ●                        |
|            | WL20-15                | WL20-15-AP (-BP / -P1)  | 15A                   |                                | ●                        |
|            | WL20-16                | WL20-16-AP (-BP / -P1)  | 16A                   |                                | ●                        |
|            | WL20-20                | WL20-20-AP (-BP / -P1)  | 20A                   |                                | ●                        |
|            | WL20-25                | WL20-25-AP (-BP / -P1)  | 25A                   |                                | ●                        |
|            | WL20-30                | WL20-30-AP (-BP / -P1)  | 30A                   |                                | ●                        |
|            | WL20-35                | WL20-35-AP (-BP / -P1)  | 35A                   |                                | ●                        |
|            | WL20-40                | WL20-40-AP (-BP / -P1)  | 40A                   |                                | ●                        |
| WL20-50    | WL20-50-AP (-BP / -P1) | 50A                     | ●                     |                                |                          |

I-T Characteristics / 時間-電流特性

| % of Ampere Rating<br>額定電流% | Opening Time<br>熔斷時間 |
|-----------------------------|----------------------|
| 100%                        | 4 Hrs Min. / 最短4小時   |
| 135%                        | 1 Hrs Max. / 最長1小時   |
| 200%                        | 120s Max. / 最長120秒   |

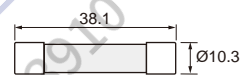


Product Features / 產品特性

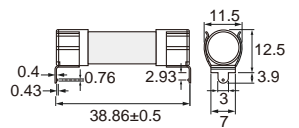
|  |  |
|--|--|
| <b>Operating Temperature<br/>操作溫度</b>                | Operating temperature / 操作溫度範圍: -55°C~125°C<br>When choosing the fuses specification, if the operating environmental temperature beyond the scope from 20~30°C, you should consider the environmental temperature's affection to fuses.<br>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。 |
| <b>Storage Conditions<br/>儲存條件</b>                   | Under airtight in temperature +10°C~60°C、relative humidity ≤75% can store 3 years.<br>在溫度+10°C~60°C、相對濕度≤75%的密封條件下可存放3年。<br>Without dew in temperature+10°C~60°C、relative humidity be 95% maximum value for 30 days.<br>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。                                 |
| <b>Installation Way &amp; Parameters<br/>安裝方式及條件</b> | Stud-mount / 螺絲安裝  |
|  | Wave soldering parameters / 波峰焊<br>Solder pot temperature / 錫爐溫度: 260±3°C Max<br>Solder dwell time / 焊接時間: 10s Max   |
|  | Hand welding parameters / 手工焊<br>Solder iron temperature / 烙鐵溫度: 350±5°C<br>Heating time / 焊接時間: 5s Max  |

Dimensions / 尺寸圖 (Unit / 單位:mm)

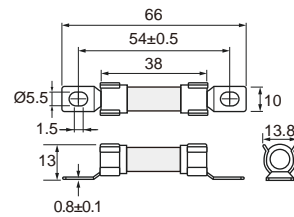
WL25-XXX



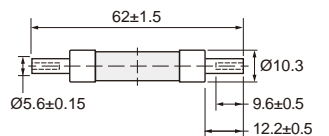
WL25-XXX-P1



WL25-XXX-BP



WL25-XXX-I



For 10-12AWG (6-4mm<sup>2</sup>);  
Recommended Crimping Tool:  
T&B Sta-Kon ERG4002 or equivalent

Electrical Characteristics / 電氣特性

| Type<br>品名 | Ordering P / N<br>料號  |                        | Rated Current<br>額定電流 | Breaking Capacity<br>分斷能力      | Safety Approvals<br>安全認證 |
|------------|-----------------------|------------------------|-----------------------|--------------------------------|--------------------------|
| WL25       | WL25-XXX              | WL25-XXX-BP (-I / -P1) |                       |                                | UL <sup>®</sup> US       |
|            | WL25-2                | WL25-2-BP (-I / -P1)   | 2A                    | 600VAC / 50KA<br>600VDC / 50KA | ●                        |
|            | WL25-3                | WL25-3-BP (-I / -P1)   | 3A                    |                                | ●                        |
|            | WL25-4                | WL25-4-BP (-I / -P1)   | 4A                    |                                | ●                        |
|            | WL25-5                | WL25-5-BP (-I / -P1)   | 5A                    |                                | ●                        |
|            | WL25-6                | WL25-6-BP (-I / -P1)   | 6A                    |                                | ●                        |
|            | WL25-8                | WL25-8-BP (-I / -P1)   | 8A                    |                                | ●                        |
|            | WL25-10               | WL25-10-BP (-I / -P1)  | 10A                   |                                | ●                        |
|            | WL25-12               | WL25-12-BP (-I / -P1)  | 12A                   |                                | ●                        |
|            | WL25-15               | WL25-15-BP (-I / -P1)  | 15A                   |                                | ●                        |
|            | WL25-20               | WL25-20-BP (-I / -P1)  | 20A                   |                                | ●                        |
|            | WL25-25               | WL25-25-BP (-I / -P1)  | 25A                   |                                | ●                        |
| WL25-30    | WL25-30-BP (-I / -P1) | 30A                    | ●                     |                                |                          |



I-T Characteristics / 時間-電流特性

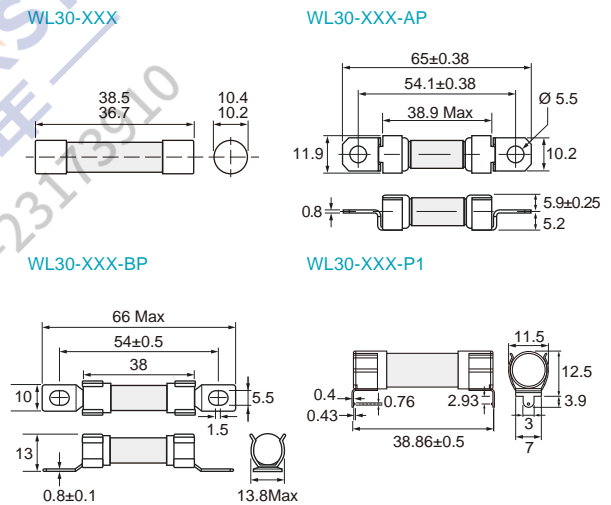
| % of Ampere Rating<br>額定電流% | Opening Time<br>熔斷時間 |
|-----------------------------|----------------------|
| 200%                        | 1s Min. / 最短1秒       |
|                             | 300s Max. / 最長300秒   |
| 300%                        | 0.2s Min. / 最短0.2秒   |
|                             | 30s Max. / 最長30秒     |
| 500%                        | 0.1s Min. / 最短0.1秒   |
|                             | 10s Max. / 最長10秒     |



Product Features / 產品特性

|  |   |
|--|---|
| <b>Operating Temperature<br/>操作溫度</b>                | <p>Operating temperature / 操作溫度範圍: -55°C~125°C<br/>When choosing the fuses specification, if the operating environmental temperature beyond the scope from 20~30°C, you should consider the environmental temperature's affection to fuses.<br/>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。</p> |
| <b>Storage Conditions<br/>儲存條件</b>                   | <p>Under airtight in temperature +10°C~60°C、relative humidity ≤75% can store 3 years.<br/>在溫度+10°C~60°C、相對濕度≤75%的密封條件下可存放3年。<br/>Without dew in temperature+10°C~60°C、relative humidity be 95% maximum value for 30 days.<br/>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。</p>                                |
| <b>Installation Way &amp; Parameters<br/>安裝方式及條件</b> | <p>Stud-mount / 螺絲安裝<br/>Wave soldering parameters / 波峰焊<br/>Solder pot temperature / 錫爐溫度: 260±3°C Max<br/>Solder dwell time / 焊接時間: 10s Max<br/>Hand welding parameters / 手工焊<br/>Solder iron temperature / 烙鐵溫度: 350±5°C<br/>Heating time / 焊接時間: 5s Max</p>                                       |

Dimensions / 尺寸圖 (Unit / 單位:mm)



Electrical Characteristics / 電氣特性

| Type<br>品名 | Ordering P / N<br>料號   |                         | Rated Current<br>額定電流 | Breaking Capacity<br>分斷能力      | Safety Approvals<br>安全認證 |
|------------|------------------------|-------------------------|-----------------------|--------------------------------|--------------------------|
| WL30       | WL30-XXX               | WL30-XXX-AP (-BP / -P1) |                       |                                | UL <sup>®</sup> US       |
|            | WL30-5                 | WL30-5-AP (-BP / -P1)   | 5A                    | 700VAC / 10KA<br>700VDC / 10KA | ●                        |
|            | WL30-6                 | WL30-6-AP (-BP / -P1)   | 6A                    |                                | ●                        |
|            | WL30-8                 | WL30-8-AP (-BP / -P1)   | 8A                    |                                | ●                        |
|            | WL30-10                | WL30-10-AP (-BP / -P1)  | 10A                   |                                | ●                        |
|            | WL30-15                | WL30-15-AP (-BP / -P1)  | 15A                   |                                | ●                        |
|            | WL30-20                | WL30-20-AP (-BP / -P1)  | 20A                   |                                | ●                        |
|            | WL30-25                | WL30-25-AP (-BP / -P1)  | 25A                   |                                | ●                        |
|            | WL30-30                | WL30-30-AP (-BP / -P1)  | 30A                   |                                | ●                        |
| WL30-32    | WL30-32-AP (-BP / -P1) | 32A                     | ●                     |                                |                          |

I-T Characteristics / 時間-電流特性

| % of Ampere Rating<br>額定電流% | Opening Time<br>熔斷時間 |
|-----------------------------|----------------------|
| 200%                        | 1s Min. / 最短1秒       |
|                             | 300s Max. / 最長300秒   |
| 300%                        | 0.1s Min. / 最短0.1秒   |
|                             | 15s Max. / 最長15秒     |
| 500%                        | 0.05s Min. / 最短0.05秒 |
|                             | 1s Max. / 最長1秒       |

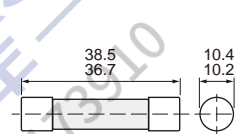


Product Features / 產品特性

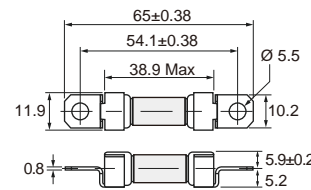
|  |  |
|--|--|
| <b>Operating Temperature<br/>操作溫度</b>                | Operating temperature / 操作溫度範圍: -55°C~125°C<br>When choosing the fuses specification, if the operating environmental temperature beyond the scope from 20~30°C, you should consider the environmental temperature's affection to fuses.<br>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。 |
| <b>Storage Conditions<br/>儲存條件</b>                   | Under airtight in temperature +10°C~60°C、relative humidity ≤75% can store 3 years.<br>在溫度+10°C~60°C、相對濕度≤75%的密封條件下可存放3年。<br>Without dew in temperature+10°C~60°C、relative humidity be 95% maximum value for 30 days.<br>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。                               |
| <b>Installation Way &amp; Parameters<br/>安裝方式及條件</b> | Stud-mount / 螺絲安裝<br>Wave soldering parameters / 波峰焊<br>Solder pot temperature / 錫爐溫度: 260±3°C Max<br>Solder dwell time / 焊接時間: 10s Max<br>Hand welding parameters / 手工焊<br>Solder iron temperature / 烙鐵溫度: 350±5°C<br>Heating time / 焊接時間: 5s Max   |

Dimensions / 尺寸圖 (Unit / 單位:mm)

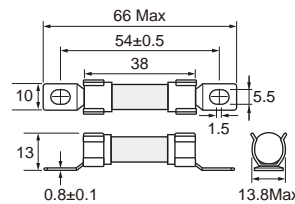
WL35-XXX



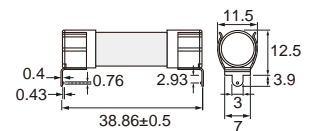
WL35-XXX-AP



WL35-XXX-BP



WL35-XXX-P1



Electrical Characteristics / 電氣特性

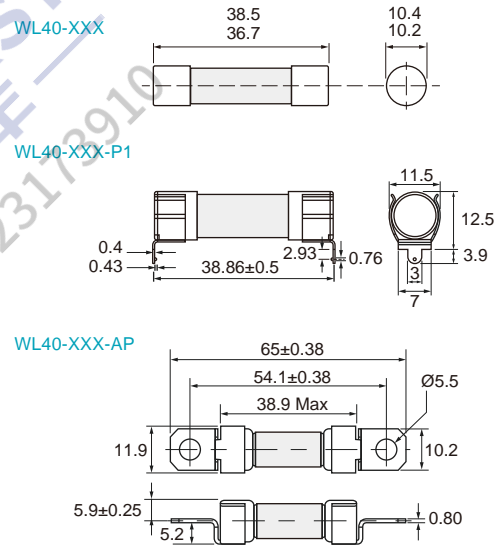
| Type<br>品名 | Ordering P / N<br>料號   |                         | Rated Current<br>額定電流 | Breaking Capacity<br>分斷能力 | Safety Approvals<br>安全認證 |
|------------|------------------------|-------------------------|-----------------------|---------------------------|--------------------------|
| WL35       | WL30-XXX               | WL30-XXX-AP (-BP / -P1) |                       | 800VDC / 10KA             |                          |
|            | WL35-5                 | WL30-5-AP (-BP / -P1)   | 5A                    |                           |                          |
|            | WL35-6                 | WL30-6-AP (-BP / -P1)   | 6A                    |                           |                          |
|            | WL35-8                 | WL30-8-AP (-BP / -P1)   | 8A                    |                           |                          |
|            | WL35-10                | WL30-10-AP (-BP / -P1)  | 10A                   |                           |                          |
|            | WL35-15                | WL30-15-AP (-BP / -P1)  | 15A                   |                           |                          |
|            | WL35-20                | WL30-20-AP (-BP / -P1)  | 20A                   |                           |                          |
|            | WL35-25                | WL30-25-AP (-BP / -P1)  | 25A                   |                           |                          |
|            | WL35-30                | WL30-30-AP (-BP / -P1)  | 30A                   |                           |                          |
| WL35-32    | WL30-32-AP (-BP / -P1) | 32A                     |                       |                           |                          |

Product Features / 產品特性

|   |   |
|---|---|
| <b>Operating Temperature</b><br>操作溫度                | Operating temperature / 操作溫度範圍：-55°C~125°C<br>When choosing the fuses specification, if the operating environmental temperature beyond the scope from 20~30°C, you should consider the environmental temperature's affection to fuses.<br>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。 |
| <b>Storage Conditions</b><br>儲存條件                   | Under airtight in temperature +10°C~60°C、relative humidity ≤75% can store 3 years.<br>在溫度+10°C~60°C、相對濕度≤75%的密封條件下可存放3年。<br>Without dew in temperature+10°C~60°C、relative humidity be 95% maximum value for 30 days.<br>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。                              |
| <b>Installation Way &amp; Parameters</b><br>安裝方式及條件 | Stud-mount / 螺柱安裝   |
|   | Wave soldering parameters / 波峰焊<br>Solder pot temperature / 錫爐溫度：260±3°C Max<br>Solder dwell time / 焊接時間：10s Max  |
|   | Hand welding parameters / 手工焊<br>Solder iron temperature / 烙鐵溫度：350±5°C<br>Heating time / 焊接時間：5s Max   |
|   |   |



Dimensions / 尺寸圖 (Unit / 單位:mm)



Electrical Characteristics / 電氣特性

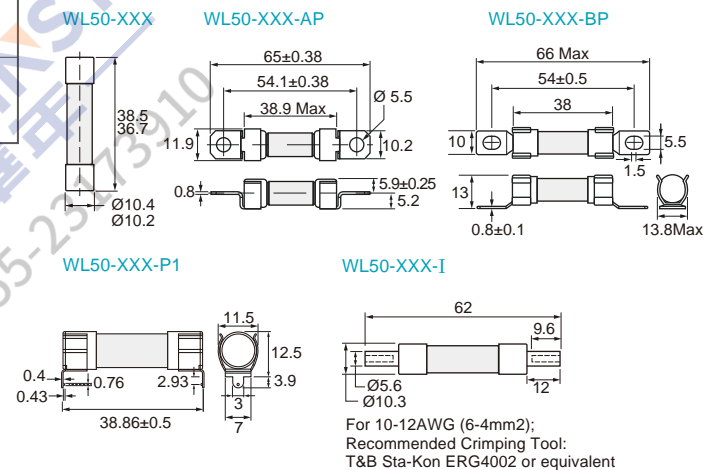
| Type<br>品名 | Ordering P / N<br>料號 |              |              | Rated Current<br>額定電流 | Breaking Capacity<br>分斷能力        | Safety Approvals<br>安全認證 |
|------------|----------------------|--------------|--------------|-----------------------|----------------------------------|--------------------------|
| WL40       | WL40-XXX             | WL40-XXX-P1  | WL40-XXX-AP  |                       |                                  |                          |
|            | WL40-0.44            | WL40-0.44-P1 | WL40-0.44-AP | 440mA                 | 1000VAC / 30KA<br>1000VDC / 30KA | ●                        |
|            | WL40-0.5             | WL40-05-P1   | WL40-05-AP   | 500mA                 |                                  | ●                        |
|            | WL40-1               | WL40-1-P1    | WL40-1-AP    | 1A                    |                                  | ●                        |
|            | WL40-2               | WL40-2-P1    | WL40-2-AP    | 2A                    |                                  | ●                        |
|            | WL40-4               | WL40-4-P1    | WL40-4-AP    | 4A                    |                                  | ●                        |
|            | WL40-10              | WL40-10-P1   | WL40-10-AP   | 10A                   |                                  | ●                        |
|            | WL40-11              | WL40-11-P1   | WL40-11-AP   | 11A                   |                                  | ●                        |
|            | WL40-12              | WL40-12-P1   | WL40-12-AP   | 12A                   |                                  | ●                        |
| WL40-15    | WL40-15-P1           | WL40-15-AP   | 15A          | ●                     |                                  |                          |

**Product Features / 產品特性**

|  |   |
|--|---|
| <b>Operating Temperature / 操作溫度</b>                | Operating temperature / 操作溫度範圍：-55°C~125°C<br>When choosing the fuses specification, if the operating environmental temperature beyond the scope from 20~30°C, you should consider the environmental temperature's affection to fuses.<br>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。 |
| <b>Storage Conditions / 儲存條件</b>                   | Under airtight in temperature +10°C~60°C、relative humidity ≤75% can store 3 years.<br>在溫度+10°C~60°C、相對濕度≤75%的密閉條件下可存放3年。<br>Without dew in temperature+10°C~60°C、relative humidity be 95% maximum value for 30 days.<br>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。                              |
| <b>Installation Way &amp; Parameters / 安裝方式及條件</b> | Stud-mount / 螺絲安裝   |
|  | Wave soldering parameters / 波峰焊<br>Solder pot temperature / 錫爐溫度：260±3°C Max<br>Solder dwell time / 焊接時間：10s Max  |
|  | Hand welding parameters / 手工焊<br>Solder iron temperature / 烙鐵溫度：350±5°C<br>Heating time / 焊接時間：5s Max   |
|  |   |



**Dimensions / 尺寸圖 (Unit / 單位:mm)**



**Electrical Characteristics / 電氣特性**

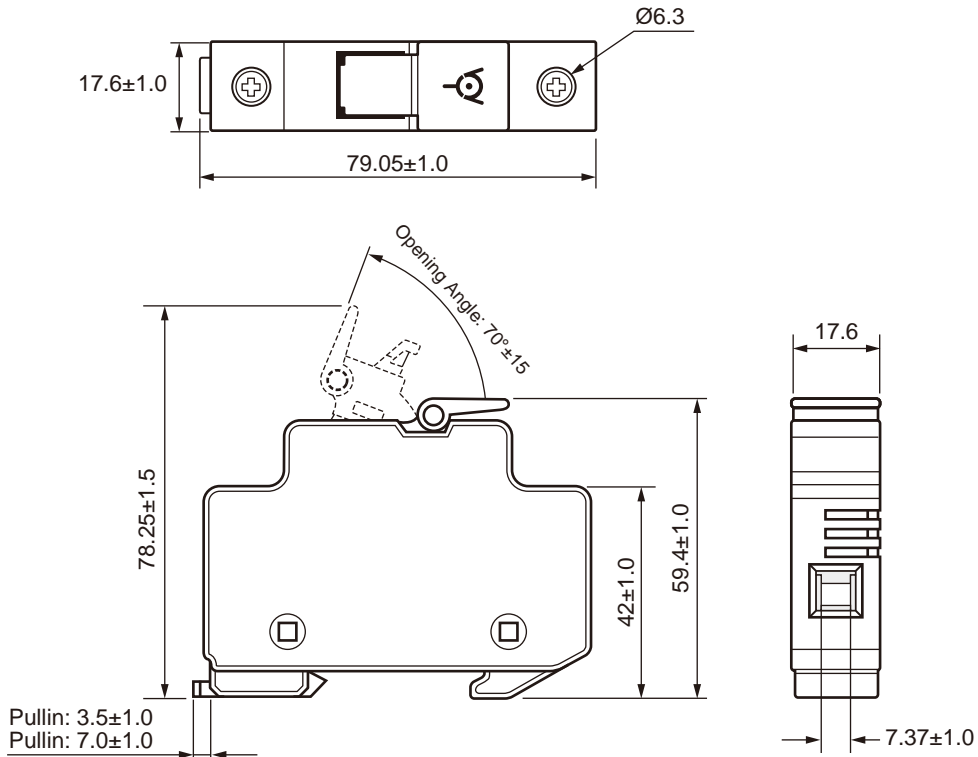
| Type / 品名 | Ordering P / N / 料號         |                              | Rated Current / 額定電流 | Breaking Capacity / 分斷能力 | Safety Approvals / 安全認證 |
|-----------|-----------------------------|------------------------------|----------------------|--------------------------|-------------------------|
| WL50      | WL50-XXX                    | WL50-XXX-AP (-BP / -P1 / -I) |                      |                          | UL                      |
|           | WL50-1                      | WL50-1-AP (-BP / -P1 / -I)   | 1A                   | 1000VDC / 30KA           | ●                       |
|           | WL50-2                      | WL50-2-AP (-BP / -P1 / -I)   | 2A                   |                          | ●                       |
|           | WL50-3                      | WL50-3-AP (-BP / -P1 / -I)   | 3A                   |                          | ●                       |
|           | WL50-3.5                    | WL50-3.5-AP (-BP / -P1 / -I) | 3.5A                 |                          | ●                       |
|           | WL50-4                      | WL50-4-AP (-BP / -P1 / -I)   | 4A                   |                          | ●                       |
|           | WL50-5                      | WL50-5-AP (-BP / -P1 / -I)   | 5A                   |                          | ●                       |
|           | WL50-6                      | WL50-6-AP (-BP / -P1 / -I)   | 6A                   |                          | ●                       |
|           | WL50-8                      | WL50-8-AP (-BP / -P1 / -I)   | 8A                   |                          | ●                       |
|           | WL50-10                     | WL50-10-AP (-BP / -P1 / -I)  | 10A                  |                          | ●                       |
|           | WL50-12                     | WL50-12-AP (-BP / -P1 / -I)  | 12A                  |                          | ●                       |
|           | WL50-15                     | WL50-15-AP (-BP / -P1 / -I)  | 15A                  |                          | ●                       |
|           | WL50-16                     | WL50-16-AP (-BP / -P1 / -I)  | 16A                  |                          | ●                       |
|           | WL50-20                     | WL50-20-AP (-BP / -P1 / -I)  | 20A                  |                          | ●                       |
| WL50-25   | WL50-25-AP (-BP / -P1 / -I) | 25A                          | ●                    |                          |                         |
| WL50-30   | WL50-30-AP (-BP / -P1 / -I) | 30A                          | ●                    |                          |                         |

Product Features / 產品特性

|   |  |
|---|--|
| <b>Fuse</b><br>對應保險絲  | 10x38 mm Cylindrical Fuse  |
| <b>Terminal Rating</b><br>端子強度                                    | Solid, Stranded, Fine Stranded, Spade Lug, Comb Bus Bar ;<br>Single and Dual Wire ; 75°C and 90°C Cu wire              |
| <b>Voltage &amp; Current &amp; SCCR Rating</b><br>最大電壓電流 & 短路電流等級 | 1000VDC@30KA ,30A max<br>1100VDC@30KA, 30A max<br>600VAC@50KA, 32A max<br>500VAC@10KA, 40A max<br>500VDC@20KA, 40A max |
| <b>Wire Range</b><br>線徑   | #18 to #8 (0.8mm <sup>2</sup> to 8.4mm <sup>2</sup> )  |
| <b>Torque Ratings</b><br>扭矩強度                                     | 26.7 Lb-In (3.0N-m) Maximum  |
| <b>Flammability Ratings</b><br>防火等級                               | UL 94-V0, Self-extinguishing   |
| <b>Storage &amp; Operating Temperature Range</b><br>儲存與操作溫度範圍     | -20°C to +120°C (It's not recommended, but the holder will work well under -40°C without damage)                       |



Dimensions / 尺寸圖 (Unit / 單位:mm)

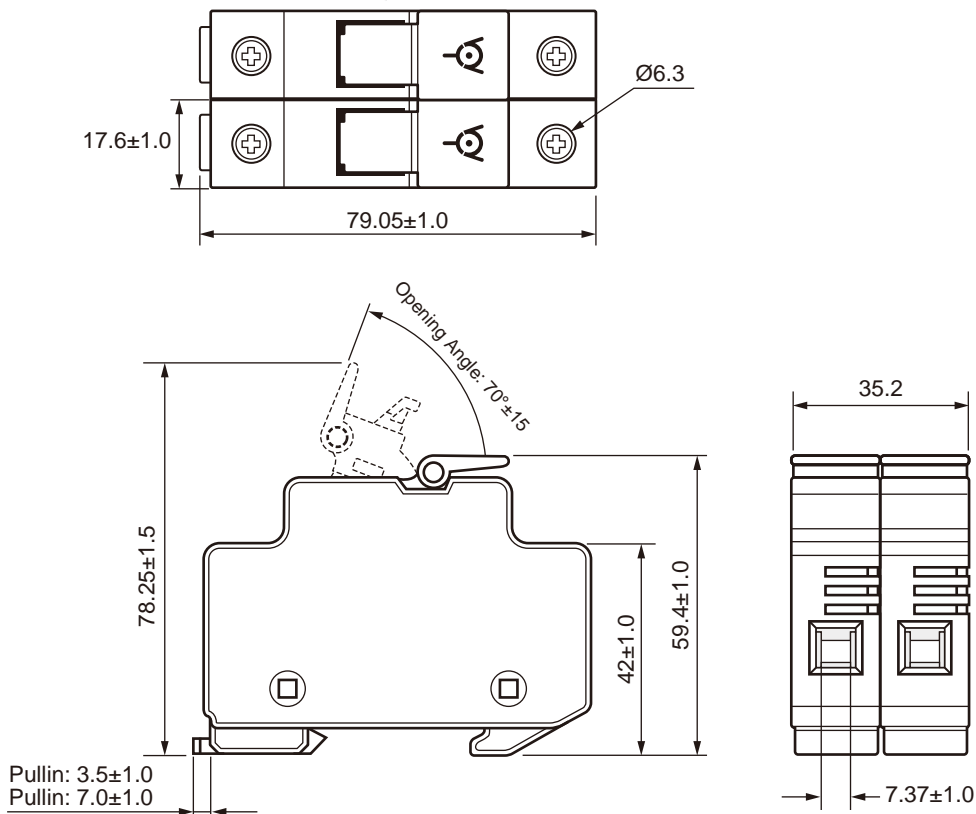


Product Features / 產品特性

|   |  |
|---|--|
| <b>Fuse</b><br>對應保險絲  | 10x38 mm Cylindrical Fuse  |
| <b>Terminal Rating</b><br>端子強度                                    | Solid, Stranded, Fine Stranded, Spade Lug, Comb Bus Bar ;<br>Single and Dual Wire ; 75°C and 90°C Cu wire              |
| <b>Voltage &amp; Current &amp; SCCR Rating</b><br>最大電壓電流 & 短路電流等級 | 1000VDC@30KA ,30A max<br>1100VDC@30KA, 30A max<br>600VAC@50KA, 32A max<br>500VAC@10KA, 40A max<br>500VDC@20KA, 40A max |
| <b>Wire Range</b><br>線徑   | #18 to #8 (0.8mm <sup>2</sup> to 8.4mm <sup>2</sup> )  |
| <b>Torque Ratings</b><br>扭矩強度                                     | 26.7 Lb-In (3.0N-m) Maximum  |
| <b>Flammability Ratings</b><br>防火等級                               | UL 94-V0, Self-extinguishing   |
| <b>Storage &amp; Operating Temperature Range</b><br>儲存與操作溫度範圍     | -20°C to +120°C (It's not recommended, but the holder will work well under -40°C without damage)                       |



Dimensions / 尺寸圖 (Unit / 單位:mm)

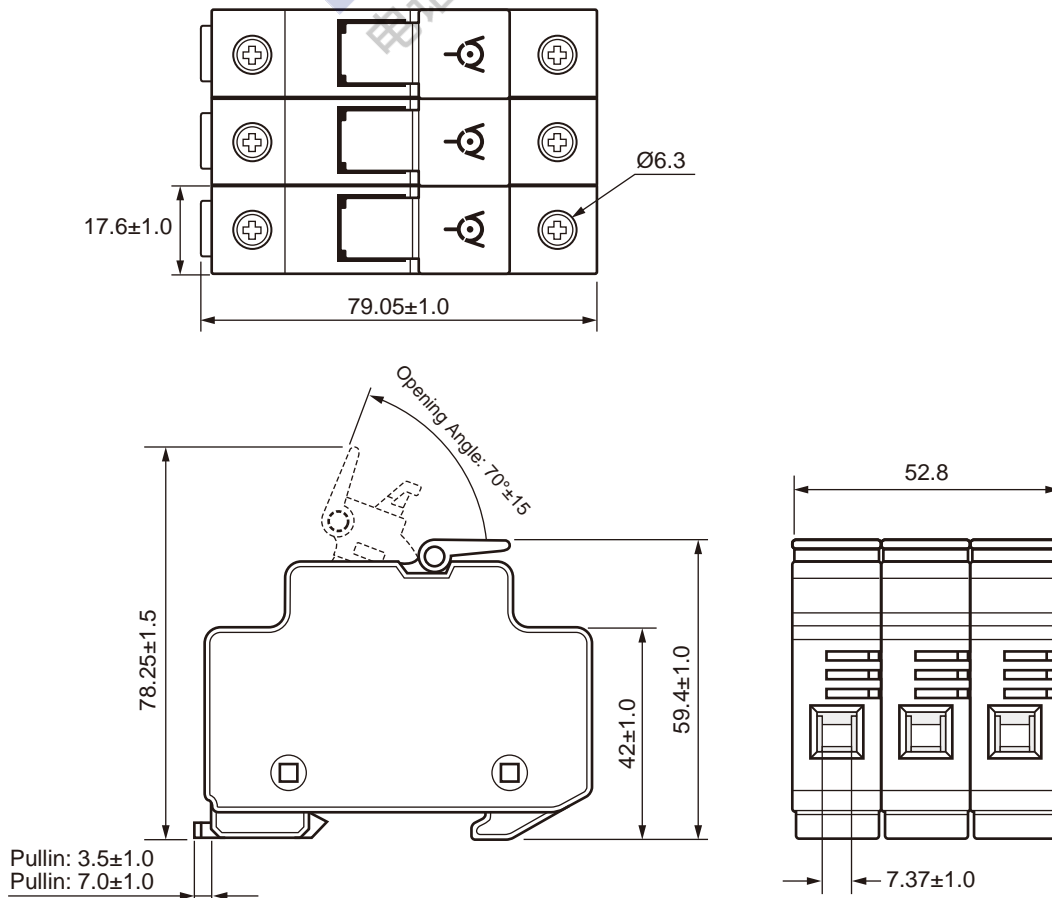


Product Features / 產品特性

|   |  |
|---|--|
| <b>Fuse</b><br>對應保險絲  | 10x38 mm Cylindrical Fuse  |
| <b>Terminal Rating</b><br>端子強度                                    | Solid, Stranded, Fine Stranded, Spade Lug, Comb Bus Bar ;<br>Single and Dual Wire ; 75°C and 90°C Cu wire              |
| <b>Voltage &amp; Current &amp; SCCR Rating</b><br>最大電壓電流 & 短路電流等級 | 1000VDC@30KA ,30A max<br>1100VDC@30KA, 30A max<br>600VAC@50KA, 32A max<br>500VAC@10KA, 40A max<br>500VDC@20KA, 40A max |
| <b>Wire Range</b><br>線徑   | #18 to #8 (0.8mm <sup>2</sup> to 8.4mm <sup>2</sup> )  |
| <b>Torque Ratings</b><br>扭矩強度                                     | 26.7 Lb-In (3.0N-m) Maximum  |
| <b>Flammability Ratings</b><br>防火等級                               | UL 94-V0, Self-extinguishing   |
| <b>Storage &amp; Operating Temperature Range</b><br>儲存與操作溫度範圍     | -20°C to +120°C (It's not recommended, but the holder will work well under -40°C without damage)                       |



Dimensions / 尺寸圖 (Unit / 單位:mm)



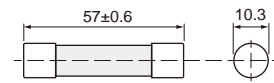
Product Features / 產品特性

|   |   |
|---|---|
| <b>Operating Temperature</b><br>操作溫度                | Operating temperature / 操作溫度範圍 : -55°C~125°C<br>When choosing the fuses specification, if the operating environmental temperature beyond the scope from 20~30°C, you should consider the environmental temperature's affection to fuses.<br>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。 |
| <b>Storage Conditions</b><br>儲存條件                   | Under airtight in temperature +10°C~60°C、relative humidity ≤75% can store 3 years.<br>在溫度+10°C~60°C、相對濕度≤75%的密封條件下可存放3年。<br>Without dew in temperature+10°C~60°C、relative humidity be 95% maximum value for 30 days.<br>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。                                |
| <b>Installation Way &amp; Parameters</b><br>安裝方式及條件 | Stud-mount / 螺柱安裝   |
|   | Wave soldering parameters / 波峰焊<br>Solder pot temperature / 錫爐溫度 : 260±3°C Max<br>Solder dwell time / 焊接時間 : 10s Max  |
|   | Hand welding parameters / 手工焊<br>Solder iron temperature / 烙鐵溫度 : 350±5°C<br>Heating time / 焊接時間 : 5s Max   |
|   |   |

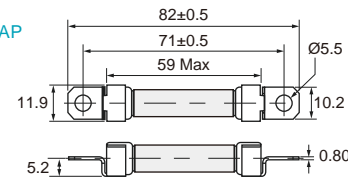


Dimensions / 尺寸圖 (Unit / 單位:mm)

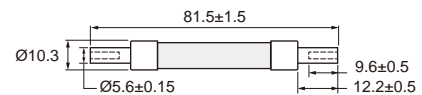
WL55-XXX



WL55P-XXX-AP



WL55P-XXX-I



For 10-12AWG (6-4mm<sup>2</sup>); Recommended Crimping Tool: T&B Sta-Kon ERG4002 or equivalent

Electrical Characteristics / 電氣特性

| Type<br>品名    | Ordering P / N<br>料號 |                   | Rated Current<br>額定電流 | Breaking Capacity<br>分斷能力        | Safety Approvals<br>安全認證 |
|---------------|----------------------|-------------------|-----------------------|----------------------------------|--------------------------|
| WL55<br>WL55P | WL55-XXX             | WL55P-XXX-AP (-I) |                       |                                  | cUL <sub>US</sub>        |
|               | WL55-2.5             | WL55P-2.5-AP (-I) | 2.5A                  | 1500VDC / 10KA<br>1500VDC / 20KA | ●                        |
|               | WL55-3               | WL55P-3-AP (-I)   | 3A                    |                                  | ●                        |
|               | WL55-3.5             | WL55P-3.5-AP (-I) | 3.5A                  |                                  | ●                        |
|               | WL55-4               | WL55P-4-AP (-I)   | 4A                    |                                  | ●                        |
| WL55-6        | WL55P-6-AP (-I)      | 6A                | ●                     |                                  |                          |



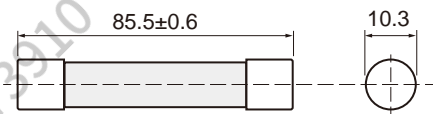
Product Features / 產品特性

|   |   |
|---|---|
| <b>Operating Temperature</b><br>操作溫度                | Operating temperature / 操作溫度範圍：-55°C~125°C<br>When choosing the fuses specification, if the operating environmental temperature beyond the scope from 20~30°C, you should consider the environmental temperature's affection to fuses.<br>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。 |
| <b>Storage Conditions</b><br>儲存條件                   | Under airtight in temperature +10°C~60°C、relative humidity ≤75% can store 3 years.<br>在溫度+10°C~60°C、相對濕度≤75%的密封條件下可存放3年。<br>Without dew in temperature+10°C~60°C、relative humidity be 95% maximum value for 30 days.<br>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。                              |
| <b>Installation Way &amp; Parameters</b><br>安裝方式及條件 | Stud-mount / 螺絲安裝<br>Wave soldering parameters / 波峰焊<br>Solder pot temperature / 錫爐溫度：260±3°C Max<br>Solder dwell time / 焊接時間：10s Max<br>Hand welding parameters / 手工焊<br>Solder iron temperature / 烙鐵溫度：350±5°C<br>Heating time / 焊接時間：5s Max  |

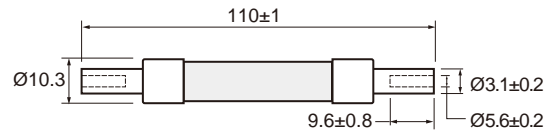


Dimensions / 尺寸圖 (Unit / 單位:mm)

WL60-XXX



WL60P-XXX-I



For 10-12AWG (6-4mm<sup>2</sup>); Recommended Crimping Tool: T&B Sta-Kon ERG4002 or equivalent

Electrical Characteristics / 電氣特性

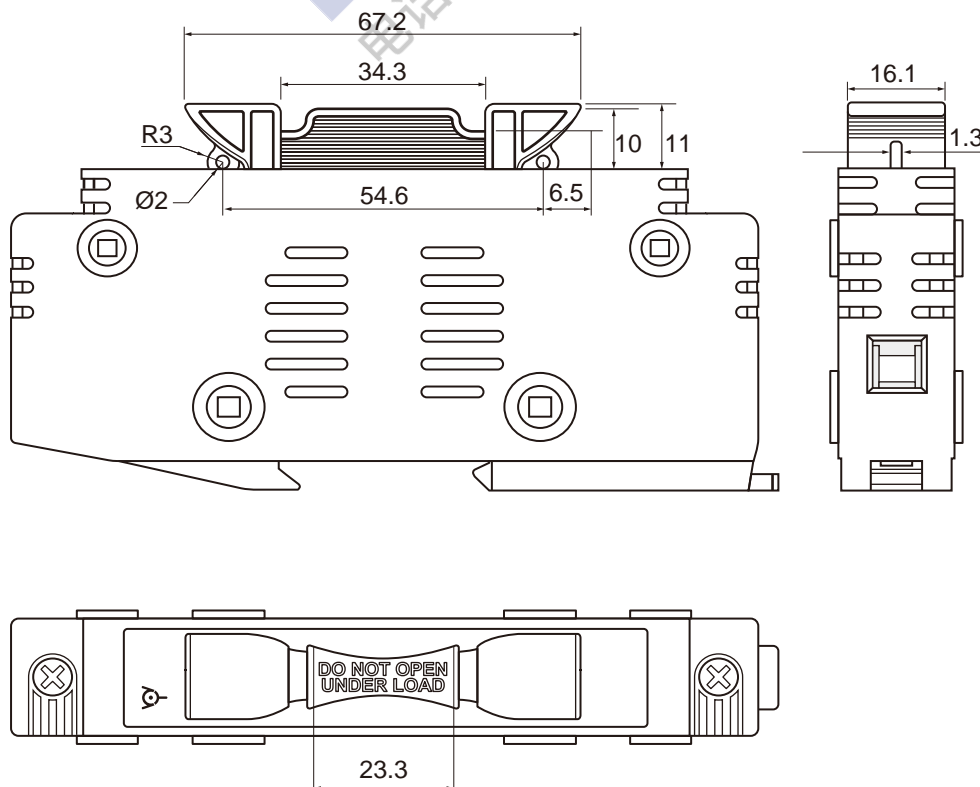
| Type<br>品名    | Ordering P / N<br>料號 |             | Rated Current<br>額定電流 | Breaking Capacity<br>分斷能力        | Safety Approvals<br>安全認證 |
|---------------|----------------------|-------------|-----------------------|----------------------------------|--------------------------|
| WL60<br>WL60P | WL60-XXX             | WL60P-XXX-I |                       |                                  | cUL <sub>US</sub>        |
|               | WL60-2               | WL60P-2-I   | 2A                    | 1500VDC / 10KA<br>1500VDC / 20KA | ●                        |
|               | WL60-4               | WL60P-4-I   | 4A                    |                                  | ●                        |
|               | WL60-10              | WL60P-10-I  | 10A                   |                                  | ●                        |
|               | WL60-12              | WL60P-12-I  | 12A                   |                                  | ●                        |
|               | WL60-15              | WL60P-15-I  | 15A                   |                                  | ●                        |

Product Features / 產品特性

|                              |                           |
|------------------------------|---------------------------|
| Fuse<br>對應保險絲                | 10x85mm Cylindrical Fuses |
| Voltage & Current<br>短路電流等級  | 1500VDC, 30A max          |
| SCCR Rating<br>短路電流等級        | 30KA @ 1500VDC            |
| Wire Range<br>線徑             | AWG14 to AWG6             |
| Flammability Ratings<br>防火等級 | UL 94-V0                  |



Dimensions / 尺寸圖 (Unit / 單位:mm)



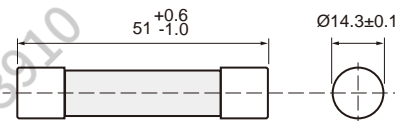
Product Features / 產品特性

|   |   |
|---|---|
| <b>Operating Temperature</b><br>操作溫度                | Operating temperature / 操作溫度範圍：-40°C~125°C<br>When choosing the fuses specification, if the operating environmental temperature beyond the scope from 20~30°C, you should consider the environmental temperature's affection to fuses.<br>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。 |
| <b>Storage Conditions</b><br>儲存條件                   | Under airtight in temperature +10°C~60°C、relative humidity ≤75% can store 3 years.<br>在溫度+10°C~60°C、相對濕度≤75%的密閉條件下可存放3年。<br>Without dew in temperature+10°C~60°C、relative humidity be 95% maximum value for 30 days.<br>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。                              |
| <b>Installation Way &amp; Parameters</b><br>安裝方式及條件 | Stud-mount / 螺絲安裝   |
|   | Wave soldering parameters / 波峰焊<br>Solder pot temperature / 錫爐溫度：260±3°C Max<br>Solder dwell time / 焊接時間：10s Max  |
|   | Hand welding parameters / 手工焊<br>Solder iron temperature / 烙鐵溫度：350±5°C<br>Heating time / 焊接時間：5s Max   |
|   |   |

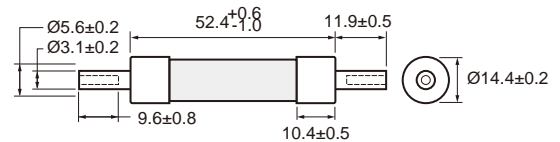


Dimensions / 尺寸圖 (Unit / 單位:mm)

WJ30-XXX



WJ30P-XXX-I



In-line crimp terminals, wire range 10-12 Awg

Electrical Characteristics / 電氣特性

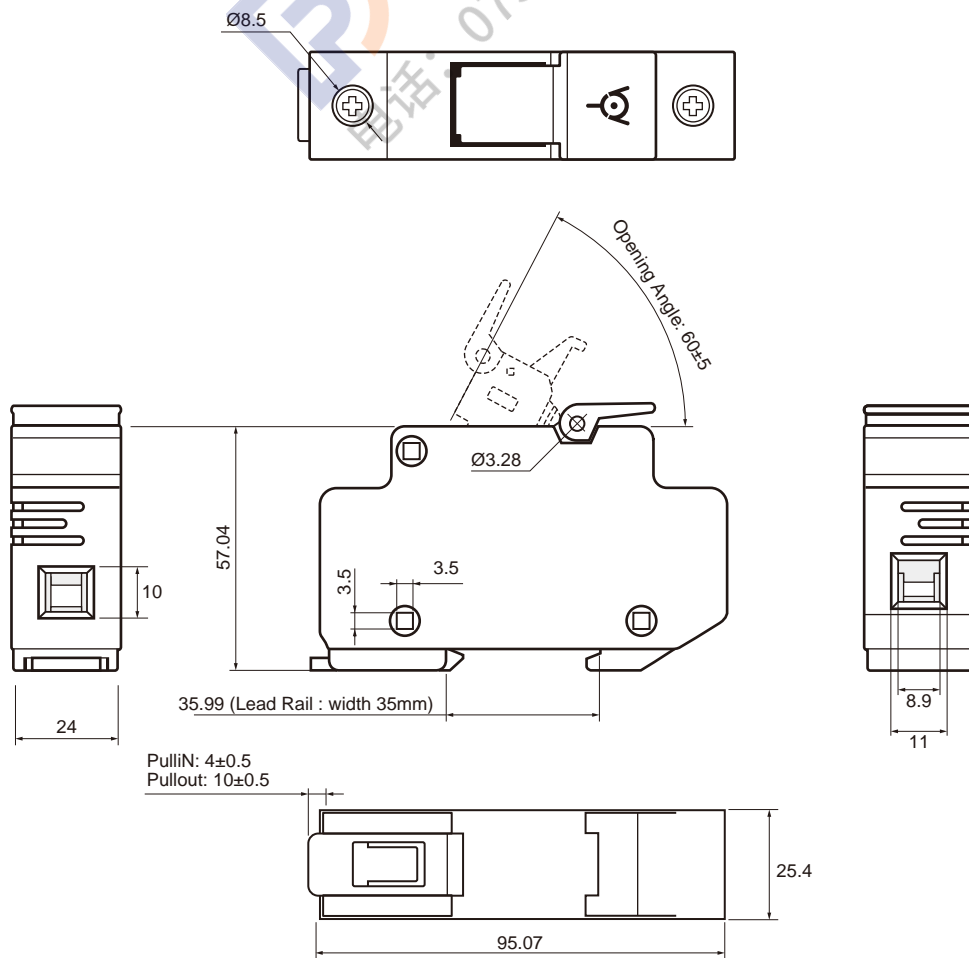
| Type<br>品名    | Ordering P / N<br>料號 |             | Rated Current<br>額定電流 | Breaking Capacity<br>分斷能力 | Safety Approvals<br>安全認證 |
|---------------|----------------------|-------------|-----------------------|---------------------------|--------------------------|
| WJ30<br>WJ30P | WJ30-XXX             | WJ30P-XXX-I |                       |                           | cULus                    |
|               | WJ30-4               | WJ30P-4-I   | 4A                    | 1500VDC /10KA             | ●                        |
|               | WJ30-15              | WJ30P-15-I  | 15A                   |                           | ●                        |
|               | WJ30-20              | WJ30P-20-I  | 20A                   |                           | ●                        |
|               | WJ30-25              | WJ30P-25-I  | 25A                   |                           | ●                        |
| WJ30-30       | WJ30P-30-I           | 30A         | ●                     |                           |                          |

Product Features / 產品特性

|   |   |
|---|---|
| <b>Fuse</b><br>對應保險絲  | 14x51 mm Cylindrical Fuse   |
| <b>Terminal Rating</b><br>端子強度                                | Solid, Stranded, Fine Stranded, Spade Lug, Comb Bus Bar ;<br>Single and Dual Wire ; 75°C and 90°C Cu wire |
| <b>Voltage &amp; Current</b><br>最大電壓電流                        | 1500VDC, 30A max  |
| <b>SCCR Rating</b><br>短路電流等級                                  | UL 10KA / 1500VDC   |
| <b>Wire Range</b><br>線徑                                       | AWG14 to AWG4   |
| <b>Flammability Ratings</b><br>防火等級                           | UL 94-V0  |
| <b>Storage &amp; Operating Temperature Range</b><br>儲存與操作溫度範圍 | -20°C to +120°C (It's not recommended,<br>but the holder will work well under -40°C without damage)       |

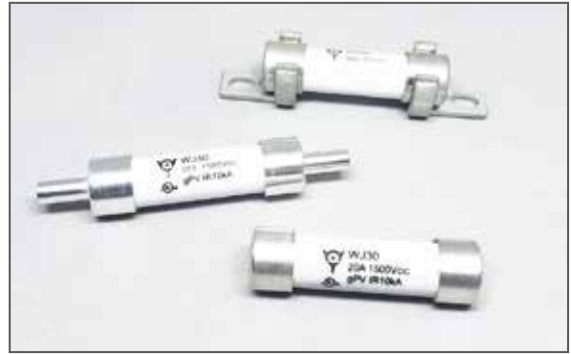


Dimensions / 尺寸圖 (Unit / 單位:mm)



I-T Characteristics / 時間-電流特性

| % of Ampere Rating<br>額定電流% | Opening Time<br>熔斷時間 |
|-----------------------------|----------------------|
| 100%                        | 4 Hrs Min. / 最短4小時   |
| 200%                        | 1s Min. / 最短1秒       |
|                             | 300s Max. / 最長300秒   |
| 300%                        | 0.2s Min. / 最短0.2秒   |
|                             | 30s Max. / 最長30秒     |
| 500%                        | 0.1s Min. / 最短0.1秒   |
|                             | 10s Max. / 最長10秒     |

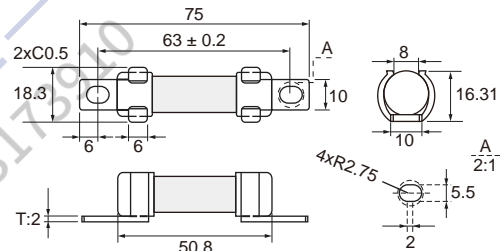


Product Features / 產品特性

|  |   |
|--|---|
| <b>Operating Temperature<br/>操作溫度</b>                | <p>Operating temperature / 操作溫度範圍: -55°C~125°C<br/>When choosing the fuses specification, if the operating environmental temperature beyond the scope from 20~30°C, you should consider the environmental temperature's affection to fuses.<br/>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。</p> |
| <b>Storage Conditions<br/>儲存條件</b>                   | <p>Under airtight in temperature +10°C~60°C、relative humidity ≤75% can store 3 years.<br/>在溫度+10°C~60°C、相對濕度≤75%的密封條件下可存放3年。<br/>Without dew in temperature+10°C~60°C、relative humidity be 95% maximum value for 30 days.<br/>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。</p>                                |
| <b>Installation Way &amp; Parameters<br/>安裝方式及條件</b> | <p>Stud-mount / 螺絲安裝</p> <p>Wave soldering parameters / 波峰焊<br/>Solder pot temperature / 錫爐溫度: 260±3°C Max<br/>Solder dwell time / 焊接時間: 10s Max</p> <p>Hand welding parameters / 手工焊<br/>Solder iron temperature / 烙鐵溫度: 350±5°C<br/>Heating time / 焊接時間: 5s Max</p>                                 |

Dimensions / 尺寸圖 (Unit / 單位:mm)

WJ45-XXX-BT



Electrical Characteristics / 電氣特性

| Type<br>品名 | Ordering P / N<br>料號 | Rated Current<br>額定電流 | Breaking Capacity<br>分斷能力 |
|------------|----------------------|-----------------------|---------------------------|
| WJ45       | WJ45-XXX-BT          |                       | 800VDC / 10KA             |
|            | WJ45-5-BT            | 5A                    |                           |
|            | WJ45-8-BT            | 8A                    |                           |
|            | WJ45-10-BT           | 10A                   |                           |
|            | WJ45-15-BT           | 15A                   |                           |
|            | WJ45-20-BT           | 20A                   |                           |
|            | WJ45-25-BT           | 25A                   |                           |
|            | WJ45-32-BT           | 32A                   |                           |
| WJ45-40-BT | 40A                  |                       |                           |
| WJ45-50-BT | 50A                  |                       |                           |

I-T Characteristics / 時間-電流特性

| % of Ampere Rating<br>額定電流% | Opening Time<br>熔斷時間 |
|-----------------------------|----------------------|
| 110%                        | 4 Hrs Min. / 最短4小時   |
| 200%                        | 1s Min. / 最短1秒       |
|                             | 300s Max. / 最長300秒   |
| 300%                        | 0.2s Min. / 最短0.2秒   |
|                             | 30s Max. / 最長30秒     |
| 500%                        | 0.1s Min. / 最短0.1秒   |
|                             | 10s Max. / 最長10秒     |

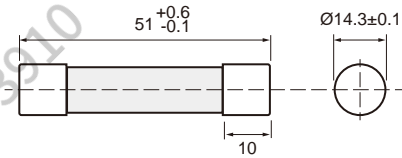


Product Features / 產品特性

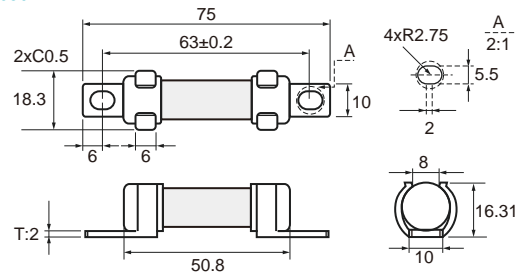
|  |  |
|--|--|
| <b>Operating Temperature<br/>操作溫度</b>                | Operating temperature / 操作溫度範圍: -55°C~125°C<br>When choosing the fuses specification, if the operating environmental temperature beyond the scope from 20~30°C, you should consider the environmental temperature's affection to fuses.<br>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。 |
| <b>Storage Conditions<br/>儲存條件</b>                   | Under airtight in temperature +10°C~60°C、relative humidity ≤75% can store 3 years.<br>在溫度+10°C~60°C、相對濕度≤75%的密閉條件下可存放3年。<br>Without dew in temperature+10°C~60°C、relative humidity be 95% maximum value for 30 days.<br>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。                                 |
| <b>Installation Way &amp; Parameters<br/>安裝方式及條件</b> | Stud-mount / 螺絲安裝  |
|  | Wave soldering parameters / 波峰焊<br>Solder pot temperature / 錫爐溫度: 260±3°C Max<br>Solder dwell time / 焊接時間: 10s Max   |
|  | Hand welding parameters / 手工焊<br>Solder iron temperature / 烙鐵溫度: 350±5°C<br>Heating time / 焊接時間: 5s Max  |

Dimensions / 尺寸圖 (Unit / 單位:mm)

WJ50-XXX



WJ50-XXX-BT



Electrical Characteristics / 電氣特性

| Type<br>品名 | Ordering P / N<br>料號 | Rated Current<br>額定電流 | Breaking Capacity<br>分斷能力 |     |
|------------|----------------------|-----------------------|---------------------------|-----|
| WJ50       | WJ50-XXX             | WJ50-XXX-BT           | 700VDC / 10KA             |     |
|            | WJ50-5               | WJ50-5-BT             |                           | 5A  |
|            | WJ50-8               | WJ50-8-BT             |                           | 8A  |
|            | WJ50-10              | WJ50-10-BT            |                           | 10A |
|            | WJ50-15              | WJ50-15-BT            |                           | 15A |
|            | WJ50-20              | WJ50-20-BT            |                           | 20A |
|            | WJ50-25              | WJ50-25-BT            |                           | 25A |
|            | WJ50-32              | WJ50-32-BT            |                           | 32A |
|            | WJ50-40              | WJ50-40-BT            |                           | 40A |
| WJ50-50    | WJ50-50-BT           | 50A                   |                           |     |

I-T Characteristics / 時間-電流特性

| % of Ampere Rating<br>額定電流% | Opening Time<br>熔斷時間 |
|-----------------------------|----------------------|
| 100%                        | 4 Hrs Min. / 最短4小時   |
| 200%                        | 1s Min. / 最短1秒       |
|                             | 300s Max. / 最長300秒   |
| 300%                        | 0.2s Min. / 最短0.2秒   |
|                             | 30s Max. / 最長30秒     |
| 500%                        | 0.1s Min. / 最短0.1秒   |
|                             | 10s Max. / 最長10秒     |

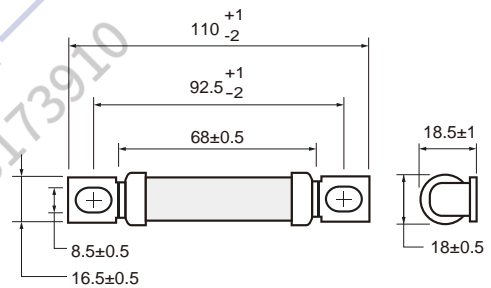


Product Features / 產品特性

|  |   |
|--|---|
| <b>Operating Temperature<br/>操作溫度</b>                | <p>Operating temperature / 操作溫度範圍: -55°C~125°C<br/>When choosing the fuses specification, if the operating environmental temperature beyond the scope from 20~30°C, you should consider the environmental temperature's affection to fuses.<br/>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。</p> |
| <b>Storage Conditions<br/>儲存條件</b>                   | <p>Under airtight in temperature +10°C~60°C、relative humidity ≤75% can store 3 years.<br/>在溫度+10°C~60°C、相對濕度≤75%的密封條件下可存放3年。<br/>Without dew in temperature+10°C~60°C、relative humidity be 95% maximum value for 30 days.<br/>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。</p>                                |
| <b>Installation Way &amp; Parameters<br/>安裝方式及條件</b> | <p>Stud-mount / 螺絲安裝</p>  |
|  | <p>Wave soldering parameters / 波峰焊<br/>Solder pot temperature / 錫爐溫度: 260±3°C Max<br/>Solder dwell time / 焊接時間: 10s Max</p> <p>Hand welding parameters / 手工焊<br/>Solder iron temperature / 烙鐵溫度: 350±5°C<br/>Heating time / 焊接時間: 5s Max</p>  |

Dimensions / 尺寸圖 (Unit / 單位:mm)

WH25-XXX-M8



Electrical Characteristics / 電氣特性

| Type<br>品名 | Ordering P / N<br>料號 | Rated Current<br>額定電流 | Breaking Capacity<br>分斷能力 | Safety Approvals<br>安全認證 |
|------------|----------------------|-----------------------|---------------------------|--------------------------|
| WH25       | WH25-XXX-M8          |                       |                           |                          |
|            | WH25-50-M8           | 50A                   | 800VDC / 10KA             | ●                        |
|            | WH25-60-M8           | 60A                   |                           | ●                        |
|            | WH25-80-M8           | 80A                   |                           | ●                        |
|            | WH25-100-M8          | 100A                  |                           |                          |

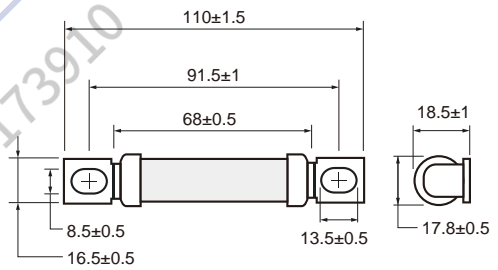
Product Features / 產品特性

|   |   |
|---|---|
| <b>Operating Temperature</b><br>操作溫度                | Operating temperature / 操作溫度範圍：-55°C~125°C<br>When choosing the fuses specification, if the operating environmental temperature beyond the scope from 20~30°C, you should consider the environmental temperature's affection to fuses.<br>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。 |
| <b>Storage Conditions</b><br>儲存條件                   | Under airtight in temperature +10°C~60°C、relative humidity ≤75% can store 3 years.<br>在溫度+10°C~60°C、相對濕度≤75%的密閉條件下可存放3年。<br>Without dew in temperature+10°C~60°C、relative humidity be 95% maximum value for 30 days.<br>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。                              |
| <b>Installation Way &amp; Parameters</b><br>安裝方式及條件 | Stud-mount / 螺絲安裝<br>Wave soldering parameters / 波峰焊<br>Solder pot temperature / 錫爐溫度：260±3°C Max<br>Solder dwell time / 焊接時間：10s Max<br>Hand welding parameters / 手工焊<br>Solder iron temperature / 烙鐵溫度：350±5°C<br>Heating time / 焊接時間：5s Max  |



Dimensions / 尺寸圖 (Unit / 單位:mm)

WH28-XXX-M8



Electrical Characteristics / 電氣特性

| Type<br>品名 | Ordering P / N<br>料號 | Rated Current<br>額定電流 | Breaking Capacity<br>分斷能力 | Safety Approvals<br>安全認證 |
|------------|----------------------|-----------------------|---------------------------|--------------------------|
| WH28       | WH25-XXX-M8          |                       |                           |                          |
|            | WH28-40-M8           | 40A                   | 1000VDC / 50KA            | ●                        |
|            | WH28-50-M8           | 50A                   |                           | ●                        |
|            | WH28-63-M8           | 63A                   |                           | ●                        |
|            | WH28-75-M8           | 75A                   |                           | ●                        |
|            | WH28-80-M8           | 80A                   |                           | ●                        |



I-T Characteristics / 時間-電流特性

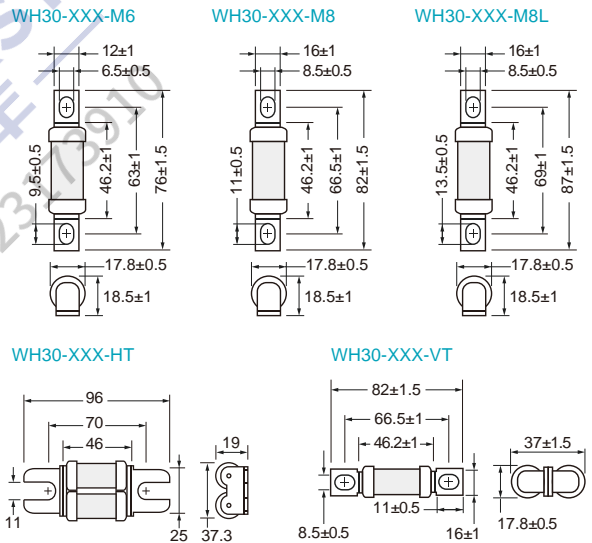
| % of Ampere Rating<br>額定電流% | Opening Time<br>熔斷時間 |
|-----------------------------|----------------------|
| 200%                        | 1s Min. / 最短1秒       |
|                             | 300s Max. / 最長300秒   |
| 300%                        | 0.2s Min. / 最短0.2秒   |
|                             | 30s Max. / 最長30秒     |
| 500%                        | 0.1s Min. / 最短0.1秒   |
|                             | 10s Max. / 最長10秒     |



Product Features / 產品特性

|  |   |
|--|---|
| <b>Operating Temperature<br/>操作溫度</b>                | <p>Operating temperature / 操作溫度範圍: -55°C~125°C</p> <p>When choosing the fuses specification, if the operating environmental temperature beyond the scope from 20~30°C, you should consider the environmental temperature's affection to fuses.</p> <p>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。</p> |
| <b>Storage Conditions<br/>儲存條件</b>                   | <p>Under airtight in temperature +10°C~60°C、relative humidity ≤75% can store 3 years.</p> <p>在溫度+10°C~60°C、相對濕度≤75%的密封條件下可存放3年。</p> <p>Without dew in temperature+10°C~60°C、relative humidity be 95% maximum value for 30 days.</p> <p>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。</p>                           |
| <b>Installation Way &amp; Parameters<br/>安裝方式及條件</b> | <p>Stud-mount / 螺絲安裝</p> <p>Wave soldering parameters / 波峰焊<br/>Solder pot temperature / 錫爐溫度: 260±3°C Max<br/>Solder dwell time / 焊接時間: 10s Max</p> <p>Hand welding parameters / 手工焊<br/>Solder iron temperature / 烙鐵溫度: 350±5°C<br/>Heating time / 焊接時間: 5s Max</p>                                     |

Dimensions / 尺寸圖 (Unit / 單位:mm)



Electrical Characteristics / 電氣特性

| Type<br>品名 | Ordering P / N<br>料號     | Rated Current<br>額定電流 | Breaking Capacity<br>分斷能力 | Safety Approvals<br>安全認證 |      |
|------------|--------------------------|-----------------------|---------------------------|--------------------------|------|
| WH30       | WH30-XXX-M6 (-M8 / -M8L) | WH30-XXX-HT(-VT)      | 500VDC / 10KA             | cUL <sup>®</sup> US      |      |
|            | WH30-10-M6 (-M8 / -M8L)  | -                     |                           |                          | 10A  |
|            | WH30-15-M6 (-M8 / -M8L)  | -                     |                           |                          | 15A  |
|            | WH30-20-M6 (-M8 / -M8L)  | -                     |                           |                          | 20A  |
|            | WH30-25-M6 (-M8 / -M8L)  | -                     |                           |                          | 25A  |
|            | WH30-32-M6 (-M8 / -M8L)  | -                     |                           |                          | 32A  |
|            | WH30-35-M6 (-M8 / -M8L)  | -                     |                           |                          | 35A  |
|            | WH30-40-M6 (-M8 / -M8L)  | -                     |                           |                          | 40A  |
|            | WH30-50-M6 (-M8 / -M8L)  | -                     |                           |                          | 50A  |
|            | WH30-60-M6 (-M8 / -M8L)  | -                     |                           |                          | 60A  |
|            | WH30-70-M6 (-M8 / -M8L)  | -                     |                           |                          | 70A  |
|            | WH30-80-M6 (-M8 / -M8L)  | -                     |                           |                          | 80A  |
|            | WH30-100-M6 (-M8 / -M8L) | -                     |                           |                          | 100A |
|            | WH30-125-M6 (-M8 / -M8L) | -                     |                           |                          | 125A |
|            | WH30-150-M6 (-M8 / -M8L) | -                     |                           |                          | 150A |
|            | -                        | WH30-150-HT (-VT)     | 150A                      | 500VDC / 10KA            |      |
| -          | WH30-175-HT (-VT)        | 175A                  |                           |                          |      |
| -          | WH30-200-HT (-VT)        | 200A                  |                           |                          |      |
| -          | WH30-225-HT (-VT)        | 225A                  |                           |                          |      |
| -          | WH30-250-HT (-VT)        | 250A                  |                           |                          |      |

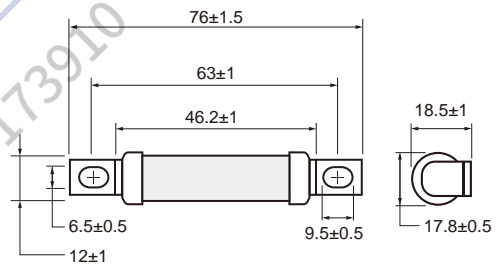
Product Features / 產品特性

|   |   |
|---|---|
| <b>Operating Temperature</b><br>操作溫度                | Operating temperature / 操作溫度範圍：-55°C~125°C<br>When choosing the fuses specification, if the operating environmental temperature beyond the scope from 20~30°C, you should consider the environmental temperature's affection to fuses.<br>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。 |
| <b>Storage Conditions</b><br>儲存條件                   | Under airtight in temperature +10°C~60°C、relative humidity ≤75% can store 3 years.<br>在溫度+10°C~60°C、相對濕度≤75%的密閉條件下可存放3年。<br>Without dew in temperature+10°C~60°C、relative humidity be 95% maximum value for 30 days.<br>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。                              |
| <b>Installation Way &amp; Parameters</b><br>安裝方式及條件 | Stud-mount / 螺柱安裝   |
|   | Wave soldering parameters / 波峰焊<br>Solder pot temperature / 錫爐溫度：260±3°C Max<br>Solder dwell time / 焊接時間：10s Max  |
|   | Hand welding parameters / 手工焊<br>Solder iron temperature / 烙鐵溫度：350±5°C<br>Heating time / 焊接時間：5s Max   |
|   |   |



Dimensions / 尺寸圖 (Unit / 單位:mm)

WH33-XXX-M6



Electrical Characteristics / 電氣特性

| Type<br>品名  | Ordering P / N<br>料號 | Rated Current<br>額定電流 | Breaking Capacity<br>分斷能力      | Safety Approvals<br>安全認證 |
|-------------|----------------------|-----------------------|--------------------------------|--------------------------|
| WH33        | WH33-XXX-M6          |                       |                                |                          |
|             | WH33-35-M6           | 35A                   | 500VAC / 50KA<br>500VDC / 50KA | ●                        |
|             | WH33-40-M6           | 40A                   |                                | ●                        |
|             | WH33-45-M6           | 45A                   |                                | ●                        |
|             | WH33-50-M6           | 50A                   |                                | ●                        |
|             | WH33-60-M6           | 60A                   |                                | ●                        |
|             | WH33-70-M6           | 70A                   |                                | ●                        |
|             | WH33-80-M6           | 80A                   |                                | ●                        |
|             | WH33-90-M6           | 90A                   |                                | ●                        |
| WH33-100-M6 | 100A                 | ●                     |                                |                          |

I-T Characteristics / 時間-電流特性

| Rated Current<br>額定電流 | % of Ampere Rating<br>額定電流% | Opening Time<br>熔斷時間 |
|-----------------------|-----------------------------|----------------------|
| 5A~100A               | 300%                        | 0.2s Min. / 最短0.2秒   |
|                       |                             | 30s Max. / 最長30秒     |
|                       | 500%                        | 0.1s Min. / 最短0.1秒   |
|                       |                             | 10s Max. / 最長10秒     |

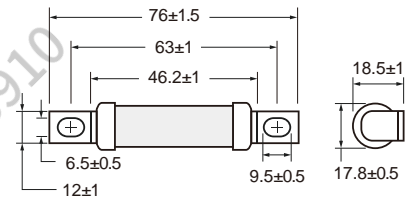


Product Features / 產品特性

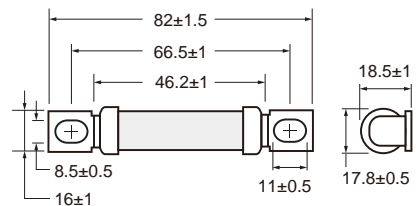
|  |   |
|--|---|
| <b>Operating Temperature<br/>操作溫度</b>                | <p>Operating temperature / 操作溫度範圍: -55°C~125°C</p> <p>When choosing the fuses specification, if the operating environmental temperature beyond the scope from 20~30°C, you should consider the environmental temperature's affection to fuses.</p> <p>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。</p> |
| <b>Storage Conditions<br/>儲存條件</b>                   | <p>Under airtight in temperature +10°C~60°C、relative humidity ≤75% can store 3 years.</p> <p>在溫度+10°C~60°C、相對濕度≤75%的密閉條件下可存放3年。</p> <p>Without dew in temperature+10°C~60°C、relative humidity be 95% maximum value for 30 days.</p> <p>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。</p>                             |
| <b>Installation Way &amp; Parameters<br/>安裝方式及條件</b> | <p>Stud-mount / 螺絲安裝</p> <p>Wave soldering parameters / 波峰焊<br/>Solder pot temperature / 錫爐溫度: 260±3°C Max<br/>Solder dwell time / 焊接時間: 10s Max</p> <p>Hand welding parameters / 手工焊<br/>Solder iron temperature / 烙鐵溫度: 350±5°C<br/>Heating time / 焊接時間: 5s Max</p>                                       |

Dimensions / 尺寸圖 (Unit / 單位:mm)

WH40-XXX-M6



WH40-XXX-M8



Electrical Characteristics / 電氣特性

| Type<br>品名  | Ordering P / N<br>料號 |             | Rated Current<br>額定電流 | Breaking Capacity<br>分斷能力 | Safety Approvals<br>安全認證 |
|-------------|----------------------|-------------|-----------------------|---------------------------|--------------------------|
| WH40        | WH40-XXX-M6          | WH40-XXX-M8 |                       | 700VDC / 10KA             |                          |
|             | WH40-5-M6            | WH40-5-M8   | 5A                    |                           |                          |
|             | WH40-8-M6            | WH40-8-M8   | 8A                    |                           |                          |
|             | WH40-10-M6           | WH40-10-M8  | 10A                   |                           |                          |
|             | WH40-15-M6           | WH40-15-M8  | 15A                   |                           |                          |
|             | WH40-20-M6           | WH40-20-M8  | 20A                   |                           |                          |
|             | WH40-25-M6           | WH40-25-M8  | 25A                   |                           |                          |
|             | WH40-32-M6           | WH40-32-M8  | 32A                   |                           |                          |
|             | WH40-40-M6           | WH40-40-M8  | 40A                   |                           |                          |
|             | WH40-50-M6           | WH40-50-M8  | 50A                   |                           |                          |
|             | WH40-60-M6           | WH40-60-M8  | 60A                   |                           |                          |
|             | WH40-80-M6           | WH40-80-M8  | 80A                   |                           |                          |
| WH40-100-M6 | WH40-100-M8          | 100A        |                       |                           |                          |

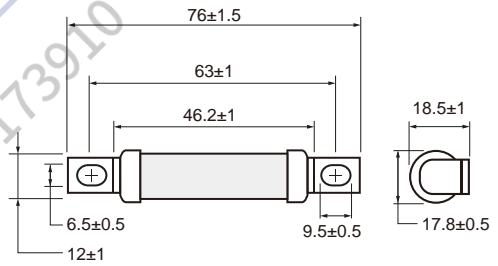
Product Features / 產品特性

|  |   |
|--|---|
| Operating Temperature<br>操作溫度            | Operating temperature / 操作溫度範圍：-55°C~125°C<br>When choosing the fuses specification, if the operating environmental temperature beyond the scope from 20~30°C, you should consider the environmental temperature's affection to fuses.<br>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。 |
| Storage Conditions<br>儲存條件               | Under airtight in temperature +10°C~60°C、relative humidity ≤75% can store 3 years.<br>在溫度+10°C~60°C、相對濕度≤75%的密閉條件下可存放3年。<br>Without dew in temperature+10°C~60°C、relative humidity be 95% maximum value for 30 days.<br>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。                              |
| Installation Way & Parameters<br>安裝方式及條件 | Stud-mount / 螺柱安裝<br><br>Wave soldering parameters / 波峰焊<br>Solder pot temperature / 錫爐溫度：260±3°C Max<br>Solder dwell time / 焊接時間：10s Max<br><br>Hand welding parameters / 手工焊<br>Solder iron temperature / 烙鐵溫度：350±5°C<br>Heating time / 焊接時間：5s Max                                    |



Dimensions / 尺寸圖 (Unit / 單位:mm)

WH42-XXX-M6



Electrical Characteristics / 電氣特性

| Type<br>品名  | Ordering P / N<br>料號 | Rated Current<br>額定電流 | Breaking Capacity<br>分斷能力      | Safety Approvals<br>安全認證 |
|-------------|----------------------|-----------------------|--------------------------------|--------------------------|
| WH42        | WH42-XXX-M6          |                       |                                |                          |
|             | WH42-35-M6           | 35A                   | 700VAC / 50KA<br>700VDC / 50KA | ●                        |
|             | WH42-40-M6           | 40A                   |                                | ●                        |
|             | WH42-50-M6           | 50A                   |                                | ●                        |
|             | WH42-60-M6           | 60A                   |                                | ●                        |
|             | WH42-70-M6           | 70A                   |                                | ●                        |
|             | WH42-80-M6           | 80A                   |                                | ●                        |
|             | WH42-90-M6           | 90A                   |                                | ●                        |
| WH42-100-M6 | 100A                 | ●                     |                                |                          |

I-T Characteristics / 時間-電流特性

| % of Ampere Rating<br>額定電流% | Opening Time<br>熔斷時間 |
|-----------------------------|----------------------|
| 200%                        | 1s Min. / 最短1秒       |
|                             | 300s Max. / 最長300秒   |
| 300%                        | 0.2s Min. / 最短0.2秒   |
|                             | 30s Max. / 最長30秒     |
| 500%                        | 0.1s Min. / 最短0.1秒   |
|                             | 10s Max. / 最長10秒     |

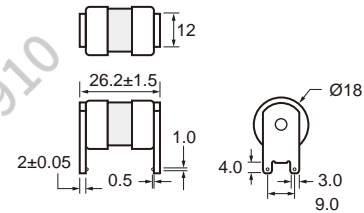


Product Features / 產品特性

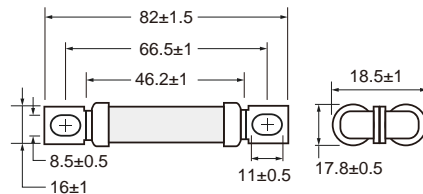
|  |  |
|--|--|
| <b>Operating Temperature<br/>操作溫度</b>                | Operating temperature / 操作溫度範圍: -55°C~125°C<br>When choosing the fuses specification, if the operating environmental temperature beyond the scope from 20~30°C, you should consider the environmental temperature's affection to fuses.<br>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。 |
| <b>Storage Conditions<br/>儲存條件</b>                   | Under airtight in temperature +10°C~60°C、relative humidity ≤75% can store 3 years.<br>在溫度+10°C~60°C、相對濕度≤75%的密閉條件下可存放3年。<br>Without dew in temperature+10°C~60°C、relative humidity be 95% maximum value for 30 days.<br>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。                                 |
| <b>Installation Way &amp; Parameters<br/>安裝方式及條件</b> | Stud-mount / 螺絲安裝<br>Wave soldering parameters / 波峰焊<br>Solder pot temperature / 錫爐溫度: 260±3°C Max<br>Solder dwell time / 焊接時間: 10s Max<br>Hand welding parameters / 手工焊<br>Solder iron temperature / 烙鐵溫度: 350±5°C<br>Heating time / 焊接時間: 5s Max   |

Dimensions / 尺寸圖 (Unit / 單位:mm)

WH60-XXX-P



WH60-XXX-VT



Electrical Characteristics / 電氣特性

| Type<br>品名 | Ordering P / N<br>料號 | Rated Current<br>額定電流 | Breaking Capacity<br>分斷能力 |                                |
|------------|----------------------|-----------------------|---------------------------|--------------------------------|
| WH60       | WH60-XXX-P           | WH60-XXX-VT           |                           |                                |
|            | WH60-32-P            | -                     | 32A                       | 150VDC / 10KA<br>100VDC / 10KA |
|            | WH60-40-P            | -                     | 40A                       |                                |
|            | WH60-50-P            | -                     | 50A                       |                                |
|            | WH60-60-P            | -                     | 60A                       |                                |
|            | WH60-80-P            | -                     | 80A                       |                                |
|            | WH60-100-P           | -                     | 100A                      |                                |
|            | WH60-125-P           | -                     | 125A                      |                                |
|            | WH60-150-P           | -                     | 150A                      |                                |
|            | WH60-160-P           | -                     | 160A                      |                                |
|            | WH60-180-P           | -                     | 180A                      |                                |
|            | WH60-200-P           | -                     | 200A                      |                                |
|            | -                    | WH60-250-VT           | 250A                      | 150VDC / 10KA<br>100VDC / 10KA |
|            | -                    | WH60-300-VT           | 300A                      |                                |
| -          | WH60-400-VT          | 400A                  |                           |                                |

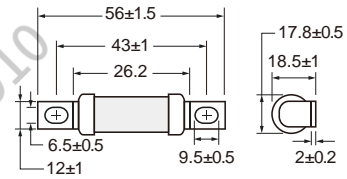
Product Features / 產品特性

|   |   |
|---|---|
| <b>Operating Temperature</b><br>操作溫度                | Operating temperature / 操作溫度範圍：-55°C~125°C<br>When choosing the fuses specification, if the operating environmental temperature beyond the scope from 20~30°C, you should consider the environmental temperature's affection to fuses.<br>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。 |
| <b>Storage Conditions</b><br>儲存條件                   | Under airtight in temperature +10°C~60°C、relative humidity ≤75% can store 3 years.<br>在溫度+10°C~60°C、相對濕度≤75%的密封條件下可存放3年。<br>Without dew in temperature+10°C~60°C、relative humidity be 95% maximum value for 30 days.<br>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。                              |
| <b>Installation Way &amp; Parameters</b><br>安裝方式及條件 | Stud-mount / 螺柱安裝   |
|   | Wave soldering parameters / 波峰焊<br>Solder pot temperature / 錫爐溫度：260±3°C Max<br>Solder dwell time / 焊接時間：10s Max  |
|   | Hand welding parameters / 手工焊<br>Solder iron temperature / 烙鐵溫度：350±5°C<br>Heating time / 焊接時間：5s Max   |
|   |   |

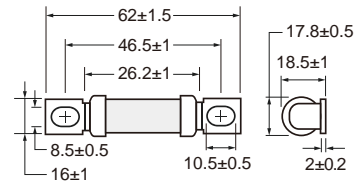


Dimensions / 尺寸圖 (Unit / 單位:mm)

WH62-XXX-M6



WH62-XXX-M8



Electrical Characteristics / 電氣特性

| Type<br>品名  | Ordering P / N<br>料號 | Rated Current<br>額定電流 | Breaking Capacity<br>分斷能力 | Safety Approvals<br>安全認證 |
|-------------|----------------------|-----------------------|---------------------------|--------------------------|
| WH62        | WH62-XXX-M6          | WH62-XXX-M8           | 150VDC / 10KA             |                          |
|             | WH62-20-M6           | WH62-20-M8            |                           | ● ●                      |
|             | WH62-32-M6           | WH62-32-M8            |                           | ● ●                      |
|             | WH62-50-M6           | WH62-50-M8            |                           | ● ●                      |
|             | WH62-60-M6           | WH62-60-M8            |                           | ● ●                      |
|             | WH62-80-M6           | WH62-80-M8            |                           | ● ●                      |
|             | WH62-100-M6          | WH62-100-M8           |                           | ● ●                      |
|             | WH62-125-M6          | WH62-125-M8           |                           | ● ●                      |
|             | WH62-150-M6          | WH62-150-M8           |                           | ● ●                      |
| WH62-200-M6 | WH62-200-M8          | 125A                  | ● ●                       |                          |

I-T Characteristics / 時間-電流特性

| % of Ampere Rating<br>額定電流% | Opening Time<br>熔斷時間 |
|-----------------------------|----------------------|
| 110%                        | 4 Hrs Min. / 最短4小時   |
| 200%                        | 1s Min. / 最短1秒       |
|                             | 300s Max. / 最長300秒   |
| 300%                        | 0.2s Min. / 最短0.2秒   |
|                             | 30s Max. / 最長30秒     |
| 500%                        | 0.1s Min. / 最短0.1秒   |
|                             | 10s Max. / 最長10秒     |

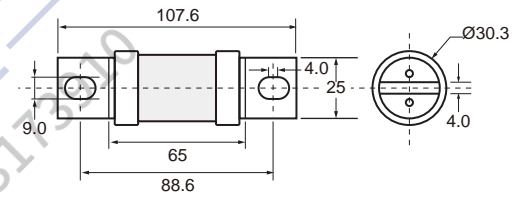


Product Features / 產品特性

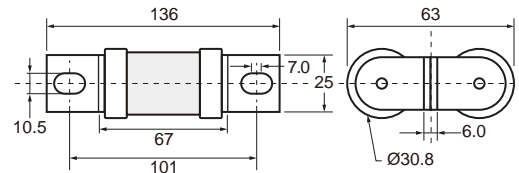
|  |   |
|--|---|
| <b>Operating Temperature<br/>操作溫度</b>                | <p>Operating temperature / 操作溫度範圍: -55°C~125°C</p> <p>When choosing the fuses specification, if the operating environmental temperature beyond the scope from 20~30°C, you should consider the environmental temperature's affection to fuses.</p> <p>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。</p> |
| <b>Storage Conditions<br/>儲存條件</b>                   | <p>Under airtight in temperature +10°C~60°C、relative humidity ≤75% can store 3 years.</p> <p>在溫度+10°C~60°C、相對濕度≤75%的密封條件下可存放3年。</p> <p>Without dew in temperature+10°C~60°C、relative humidity be 95% maximum value for 30 days.</p> <p>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。</p>                           |
| <b>Installation Way &amp; Parameters<br/>安裝方式及條件</b> | <p>Stud-mount / 螺絲安裝</p> <p>Wave soldering parameters / 波峰焊<br/>Solder pot temperature / 錫爐溫度: 260±3°C Max<br/>Solder dwell time / 焊接時間: 10s Max</p> <p>Hand welding parameters / 手工焊<br/>Solder iron temperature / 烙鐵溫度: 350±5°C<br/>Heating time / 焊接時間: 5s Max</p>                                     |

Dimensions / 尺寸圖 (Unit / 單位:mm)

WE30-XXX-CT



WE30-XXX-VT



Electrical Characteristics / 電氣特性

| Type<br>品名 | Ordering P / N<br>料號 | Rated Current<br>額定電流 | Breaking Capacity<br>分斷能力 | Safety Approvals<br>安全認證 |  |
|------------|----------------------|-----------------------|---------------------------|--------------------------|--|
| WE30       | WE30-XXX-CT          | WE30-XXX-VT           |                           | cUL <sup>®</sup> US      |  |
|            | WE30-50-CT           | -                     | 50A                       | ●                        |  |
|            | WE30-60-CT           | -                     | 60A                       | ●                        |  |
|            | WE30-70-CT           | -                     | 70A                       | ●                        |  |
|            | WE30-80-CT           | -                     | 80A                       | ●                        |  |
|            | WE30-90-CT           | -                     | 90A                       | ●                        |  |
|            | WE30-100-CT          | -                     | 100A                      | ●                        |  |
|            | WE30-125-CT          | -                     | 125A                      | ●                        |  |
|            | WE30-150-CT          | -                     | 150A                      | ●                        |  |
|            | WE30-175-CT          | -                     | 175A                      | ●                        |  |
|            | WE30-200-CT          | -                     | 200A                      | ●                        |  |
|            | -                    | WE30-500-VT           | 500A                      | 700VDC / 10KA            |  |
|            | -                    | WE30-600-VT           | 600A                      | 700VDC / 10KA            |  |

I-T Characteristics / 時間-電流特性

| % of Ampere Rating<br>額定電流% | Opening Time<br>熔斷時間 |
|-----------------------------|----------------------|
| 110%                        | 4 Hrs Min. / 最短4小時   |
| 200%                        | 1s Min. / 最短1秒       |
|                             | 300s Max. / 最長300秒   |
| 300%                        | 0.2s Min. / 最短0.2秒   |
|                             | 30s Max. / 最長30秒     |
| 500%                        | 0.1s Min. / 最短0.1秒   |
|                             | 10s Max. / 最長10秒     |

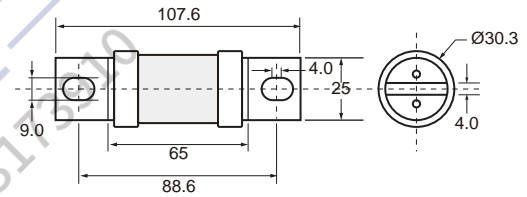


Product Features / 產品特性

|  |   |
|--|---|
| <b>Operating Temperature<br/>操作溫度</b>                | <p>Operating temperature / 操作溫度範圍: -55°C~125°C</p> <p>When choosing the fuses specification, if the operating environmental temperature beyond the scope from 20~30°C, you should consider the environmental temperature's affection to fuses.</p> <p>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。</p> |
| <b>Storage Conditions<br/>儲存條件</b>                   | <p>Under airtight in temperature +10°C~60°C、relative humidity ≤75% can store 3 years.</p> <p>在溫度+10°C~60°C、相對濕度≤75%的密封條件下可存放3年。</p> <p>Without dew in temperature+10°C~60°C、relative humidity be 95% maximum value for 30 days.</p> <p>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。</p>                           |
| <b>Installation Way &amp; Parameters<br/>安裝方式及條件</b> | <p>Stud-mount / 螺絲安裝</p>  |
|  | <p>Wave soldering parameters / 波峰焊</p> <p>Solder pot temperature / 錫爐溫度: 260±3°C Max</p> <p>Solder dwell time / 焊接時間: 10s Max</p> <p>Hand welding parameters / 手工焊</p> <p>Solder iron temperature / 烙鐵溫度: 350±5°C</p> <p>Heating time / 焊接時間: 5s Max</p>  |

Dimensions / 尺寸圖 (Unit / 單位:mm)

WE35-XXX-CT



Electrical Characteristics / 電氣特性

| Type<br>品名  | Ordering P / N<br>料號 | Rated Current<br>額定電流 | Breaking Capacity<br>分斷能力 | Safety Approvals<br>安全認證 |
|-------------|----------------------|-----------------------|---------------------------|--------------------------|
| WE35        | WE35-XXX-CT          |                       |                           |                          |
|             | WE35-60-CT           | 60A                   | 800VDC / 10KA             | ●                        |
|             | WE35-70-CT           | 70A                   |                           | ●                        |
|             | WE35-80-CT           | 80A                   |                           | ●                        |
|             | WE35-90-CT           | 90A                   |                           | ●                        |
|             | WE35-100-CT          | 100A                  |                           | ●                        |
|             | WE35-125-CT          | 125A                  |                           | ●                        |
| WE35-150-CT | 150A                 | ●                     |                           |                          |

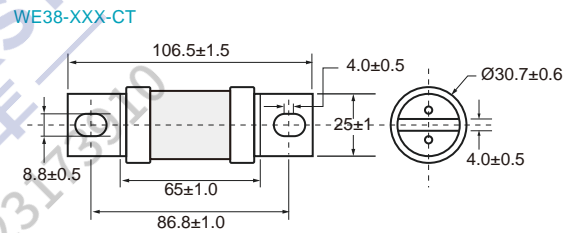


Product Features / 產品特性

|   |   |
|---|---|
| <b>Operating Temperature</b><br>操作溫度                | Operating temperature / 操作溫度範圍：-55°C~125°C<br>When choosing the fuses specification, if the operating environmental temperature beyond the scope from 20~30°C, you should consider the environmental temperature's affection to fuses.<br>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。 |
| <b>Storage Conditions</b><br>儲存條件                   | Under airtight in temperature +10°C~60°C、relative humidity ≤75% can store 3 years.<br>在溫度+10°C~60°C、相對濕度≤75%的密閉條件下可存放3年。<br>Without dew in temperature+10°C~60°C、relative humidity be 95% maximum value for 30 days.<br>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。                              |
| <b>Installation Way &amp; Parameters</b><br>安裝方式及條件 | Stud-mount / 螺栓安裝<br>Wave soldering parameters / 波峰焊<br>Solder pot temperature / 錫爐溫度：260±3°C Max<br>Solder dwell time / 焊接時間：10s Max<br>Hand welding parameters / 手工焊<br>Solder iron temperature / 烙鐵溫度：350±5°C<br>Heating time / 焊接時間：5s Max  |



Dimensions / 尺寸圖 (Unit / 單位:mm)



Electrical Characteristics / 電氣特性

| Type<br>品名 | Ordering P / N<br>料號 | Rated Current<br>額定電流 | Breaking Capacity<br>分斷能力 | Safety Approvals<br>安全認證 |
|------------|----------------------|-----------------------|---------------------------|--------------------------|
| WE38       | WE38-XXX-CT          |                       |                           |                          |
|            | WE38-100-CT          | 100A                  | 1000VDC / 50KA            | ●                        |
|            | WE38-125-CT          | 125A                  |                           | ●                        |
|            | WE38-160-CT          | 160A                  |                           | ●                        |
|            | WE38-200-CT          | 200A                  |                           | ●                        |

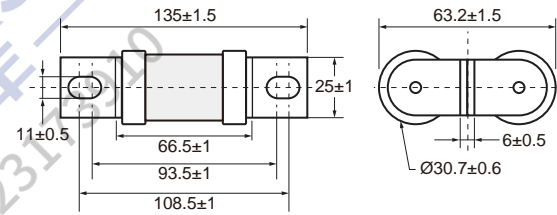
Product Features / 產品特性

|   |   |
|---|---|
| <b>Operating Temperature</b><br>操作溫度                | Operating temperature / 操作溫度範圍：-55°C~125°C<br>When choosing the fuses specification, if the operating environmental temperature beyond the scope from 20~30°C, you should consider the environmental temperature's affection to fuses.<br>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。 |
| <b>Storage Conditions</b><br>儲存條件                   | Under airtight in temperature +10°C~60°C、relative humidity ≤75% can store 3 years.<br>在溫度+10°C~60°C、相對濕度≤75%的密閉條件下可存放3年。<br>Without dew in temperature+10°C~60°C、relative humidity be 95% maximum value for 30 days.<br>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。                              |
| <b>Installation Way &amp; Parameters</b><br>安裝方式及條件 | Stud-mount / 螺絲安裝<br>Wave soldering parameters / 波峰焊<br>Solder pot temperature / 錫爐溫度：260±3°C Max<br>Solder dwell time / 焊接時間：10s Max<br>Hand welding parameters / 手工焊<br>Solder iron temperature / 烙鐵溫度：350±5°C<br>Heating time / 焊接時間：5s Max  |



Dimensions / 尺寸圖 (Unit / 單位:mm)

WE40-XXX-VT



Electrical Characteristics / 電氣特性

| Type<br>品名 | Ordering P / N<br>料號 | Rated Current<br>額定電流 | Breaking Capacity<br>分斷能力 |
|------------|----------------------|-----------------------|---------------------------|
| WE40       | WE40-XXX-VT          |                       |                           |
|            | WE40-500-VT          | 500A                  | 800VDC / 20KA             |
|            | WE40-600-VT          | 600A                  |                           |

I-T Characteristics / 時間-電流特性

| % of Ampere Rating<br>額定電流% | Opening Time<br>熔斷時間 |
|-----------------------------|----------------------|
| 200%                        | 1s Min. / 最短1秒       |
|                             | 300s Max. / 最長300秒   |
| 300%                        | 0.2s Min. / 最短0.2秒   |
|                             | 30s Max. / 最長30秒     |
| 500%                        | 0.1s Min. / 最短0.1秒   |
|                             | 10s Max. / 最長10秒     |

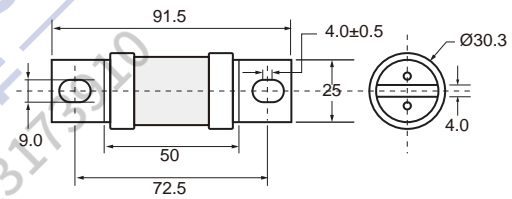


Product Features / 產品特性

|  |   |
|--|---|
| <b>Operating Temperature<br/>操作溫度</b>                | <p>Operating temperature / 操作溫度範圍: -55°C~125°C</p> <p>When choosing the fuses specification, if the operating environmental temperature beyond the scope from 20~30°C, you should consider the environmental temperature's affection to fuses.</p> <p>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。</p> |
| <b>Storage Conditions<br/>儲存條件</b>                   | <p>Under airtight in temperature +10°C~60°C、relative humidity ≤75% can store 3 years.</p> <p>在溫度+10°C~60°C、相對濕度≤75%的密封條件下可存放3年。</p> <p>Without dew in temperature+10°C~60°C、relative humidity be 95% maximum value for 30 days.</p> <p>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。</p>                           |
| <b>Installation Way &amp; Parameters<br/>安裝方式及條件</b> | <p>Stud-mount / 螺絲安裝</p> <p>Wave soldering parameters / 波峰焊</p> <p>Solder pot temperature / 錫爐溫度: 260±3°C Max</p> <p>Solder dwell time / 焊接時間: 10s Max</p> <p>Hand welding parameters / 手工焊</p> <p>Solder iron temperature / 烙鐵溫度: 350±5°C</p> <p>Heating time / 焊接時間: 5s Max</p>                         |

Dimensions / 尺寸圖 (Unit / 單位:mm)

WE50-XXX-CT



Electrical Characteristics / 電氣特性

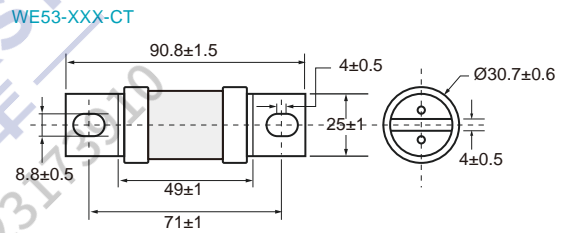
| Type<br>品名 | Ordering P / N<br>料號 | Rated Current<br>額定電流 | Breaking Capacity<br>分斷能力 | Safety Approvals<br>安全認證 |
|------------|----------------------|-----------------------|---------------------------|--------------------------|
| WE50       | WE50-XXX-CT          |                       |                           | cUL <sup>®</sup> US      |
|            | WE50-60-CT           | 60A                   | 500VDC / 20KA             | ●                        |
|            | WE50-70-CT           | 70A                   |                           | ●                        |
|            | WE50-80-CT           | 80A                   |                           | ●                        |
|            | WE50-90-CT           | 90A                   |                           | ●                        |
|            | WE50-100-CT          | 100A                  |                           | ●                        |
|            | WE50-125-CT          | 125A                  |                           | ●                        |
|            | WE50-150-CT          | 150A                  |                           | ●                        |
|            | WE50-175-CT          | 175A                  |                           | ●                        |
|            | WE50-200-CT          | 200A                  |                           | ●                        |
|            | WE50-250-CT          | 250A                  |                           | ●                        |
|            | WE50-300-CT          | 300A                  | 500VDC/10KA               | ●                        |

Product Features / 產品特性

|  |   |
|--|---|
| Operating Temperature<br>操作溫度            | Operating temperature / 操作溫度範圍：-55°C~125°C<br>When choosing the fuses specification, if the operating environmental temperature beyond the scope from 20~30°C, you should consider the environmental temperature's affection to fuses.<br>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。 |
| Storage Conditions<br>儲存條件               | Under airtight in temperature +10°C~60°C、relative humidity ≤75% can store 3 years.<br>在溫度+10°C~60°C、相對濕度≤75%的密閉條件下可存放3年。<br>Without dew in temperature+10°C~60°C、relative humidity be 95% maximum value for 30 days.<br>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。                              |
| Installation Way & Parameters<br>安裝方式及條件 | Stud-mount / 螺栓安裝<br><br>Wave soldering parameters / 波峰焊<br>Solder pot temperature / 錫爐溫度：260±3°C Max<br>Solder dwell time / 焊接時間：10s Max<br><br>Hand welding parameters / 手工焊<br>Solder iron temperature / 烙鐵溫度：350±5°C<br>Heating time / 焊接時間：5s Max                                    |



Dimensions / 尺寸圖 (Unit / 單位:mm)



Electrical Characteristics / 電氣特性

| Type<br>品名 | Ordering P / N<br>料號 | Rated Current<br>額定電流 | Breaking Capacity<br>分斷能力      | Safety Approvals<br>安全認證 |
|------------|----------------------|-----------------------|--------------------------------|--------------------------|
| WE53       | WE53-XXX-CT          |                       |                                |                          |
|            | WE53-100-CT          | 100A                  | 500VAC / 50KA<br>500VDC / 50KA | ●                        |
|            | WE53-125-CT          | 125A                  |                                | ●                        |
|            | WE53-150-CT          | 150A                  |                                | ●                        |
|            | WE53-175-CT          | 175A                  |                                | ●                        |
|            | WE53-200-CT          | 200A                  |                                | ●                        |

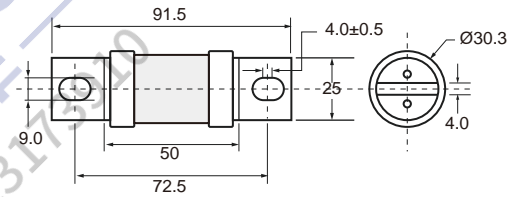
Product Features / 產品特性

|   |   |
|---|---|
| <b>Operating Temperature</b><br>操作溫度                | Operating temperature / 操作溫度範圍：-55°C~125°C<br>When choosing the fuses specification, if the operating environmental temperature beyond the scope from 20~30°C, you should consider the environmental temperature's affection to fuses.<br>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。 |
| <b>Storage Conditions</b><br>儲存條件                   | Under airtight in temperature +10°C~60°C、relative humidity ≤75% can store 3 years.<br>在溫度+10°C~60°C、相對濕度≤75%的密封條件下可存放3年。<br>Without dew in temperature+10°C~60°C、relative humidity be 95% maximum value for 30 days.<br>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。                              |
| <b>Installation Way &amp; Parameters</b><br>安裝方式及條件 | Stud-mount / 螺栓安裝<br>Wave soldering parameters / 波峰焊<br>Solder pot temperature / 錫爐溫度：260±3°C Max<br>Solder dwell time / 焊接時間：10s Max<br>Hand welding parameters / 手工焊<br>Solder iron temperature / 烙鐵溫度：350±5°C<br>Heating time / 焊接時間：5s Max  |



Dimensions / 尺寸圖 (Unit / 單位:mm)

WE55-XXX-CT



Electrical Characteristics / 電氣特性

| Type<br>品名  | Ordering P / N<br>料號 | Rated Current<br>額定電流 | Breaking Capacity<br>分斷能力 | Safety Approvals<br>安全認證 |
|-------------|----------------------|-----------------------|---------------------------|--------------------------|
| WE55        | WE55-XXX-CT          |                       |                           |                          |
|             | WE55-150-CT          | 150A                  | 500VDC / 20KA             | ●                        |
|             | WE55-175-CT          | 175A                  |                           | ●                        |
|             | WE55-200-CT          | 200A                  |                           | ●                        |
|             | WE55-250-CT          | 250A                  |                           | ●                        |
|             | WE55-300-CT          | 300A                  |                           | ●                        |
|             | WE55-350-CT          | 350A                  |                           | ●                        |
| WE55-400-CT | 400A                 | ●                     |                           |                          |

I-T Characteristics / 時間-電流特性

| % of Ampere Rating<br>額定電流% | Opening Time<br>熔斷時間 |
|-----------------------------|----------------------|
| 200%                        | 1s Min. / 最短1秒       |
|                             | 300s Max. / 最長300秒   |
| 300%                        | 0.2s Min. / 最短0.2秒   |
|                             | 30s Max. / 最長30秒     |
| 500%                        | 0.1s Min. / 最短0.1秒   |
|                             | 10s Max. / 最長10秒     |

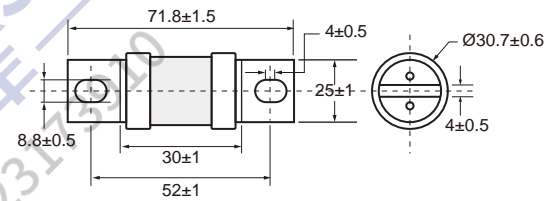


Product Features / 產品特性

|  |   |
|--|---|
| <b>Operating Temperature<br/>操作溫度</b>                | <p>Operating temperature / 操作溫度範圍: -55°C~125°C</p> <p>When choosing the fuses specification, if the operating environmental temperature beyond the scope from 20~30°C, you should consider the environmental temperature's affection to fuses.</p> <p>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。</p> |
| <b>Storage Conditions<br/>儲存條件</b>                   | <p>Under airtight in temperature +10°C~60°C、relative humidity ≤75% can store 3 years.</p> <p>在溫度+10°C~60°C、相對濕度≤75%的密閉條件下可存放3年。</p> <p>Without dew in temperature+10°C~60°C、relative humidity be 95% maximum value for 30 days.</p> <p>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。</p>                           |
| <b>Installation Way &amp; Parameters<br/>安裝方式及條件</b> | <p>Stud-mount / 螺絲安裝</p> <p>Wave soldering parameters / 波峰焊</p> <p>Solder pot temperature / 錫爐溫度: 260±3°C Max</p> <p>Solder dwell time / 焊接時間: 10s Max</p> <p>Hand welding parameters / 手工焊</p> <p>Solder iron temperature / 烙鐵溫度: 350±5°C</p> <p>Heating time / 焊接時間: 5s Max</p>                         |

Dimensions / 尺寸圖 (Unit / 單位:mm)

WE70-XXX-CT



Electrical Characteristics / 電氣特性

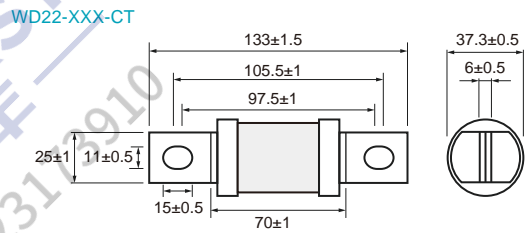
| Type<br>品名 | Ordering P / N<br>料號 | Rated Current<br>額定電流 | Breaking Capacity<br>分斷能力 |
|------------|----------------------|-----------------------|---------------------------|
| WE70       | WE70-XXX-CT          |                       | 200VDC / 10KA             |
|            | WE70-100-CT          | 100A                  |                           |
|            | WE70-150-CT          | 150A                  |                           |
|            | WE70-200-CT          | 200A                  |                           |
|            | WE70-250-CT          | 250A                  |                           |
|            | WE70-300-CT          | 300A                  |                           |
|            | WE70-350-CT          | 350A                  |                           |
|            | WE70-400-CT          | 400A                  |                           |

Product Features / 產品特性

|   |   |
|---|---|
| <b>Operating Temperature</b><br>操作溫度                | Operating temperature / 操作溫度範圍：-55°C~125°C<br>When choosing the fuses specification, if the operating environmental temperature beyond the scope from 20~30°C, you should consider the environmental temperature's affection to fuses.<br>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。 |
| <b>Storage Conditions</b><br>儲存條件                   | Under airtight in temperature +10°C~60°C、relative humidity ≤75% can store 3 years.<br>在溫度+10°C~60°C、相對濕度≤75%的密閉條件下可存放3年。<br>Without dew in temperature+10°C~60°C、relative humidity be 95% maximum value for 30 days.<br>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。                              |
| <b>Installation Way &amp; Parameters</b><br>安裝方式及條件 | Stud-mount / 螺絲安裝<br>Wave soldering parameters / 波峰焊<br>Solder pot temperature / 錫爐溫度：260±3°C Max<br>Solder dwell time / 焊接時間：10s Max<br>Hand welding parameters / 手工焊<br>Solder iron temperature / 烙鐵溫度：350±5°C<br>Heating time / 焊接時間：5s Max  |



Dimensions / 尺寸圖 (Unit / 單位:mm)



Electrical Characteristics / 電氣特性

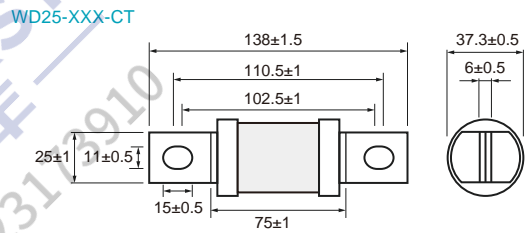
| Type<br>品名  | Ordering P / N<br>料號 | Rated Current<br>額定電流 | Breaking Capacity<br>分斷能力      | Safety Approvals<br>安全認證 |
|-------------|----------------------|-----------------------|--------------------------------|--------------------------|
| WD22        | WD22-XXX-CT          |                       |                                |                          |
|             | WD22-125-CT          | 125A                  | 700VAC / 50KA<br>700VDC / 50KA | ●                        |
|             | WD22-150-CT          | 150A                  |                                | ●                        |
|             | WD22-175-CT          | 175A                  |                                | ●                        |
|             | WD22-200-CT          | 200A                  |                                | ●                        |
|             | WD22-225-CT          | 225A                  |                                | ●                        |
|             | WD22-250-CT          | 250A                  |                                | ●                        |
|             | WD22-300-CT          | 300A                  |                                | ●                        |
|             | WD22-350-CT          | 350A                  |                                | ●                        |
| WD22-400-CT | 400A                 | ●                     |                                |                          |

Product Features / 產品特性

|   |   |
|---|---|
| <b>Operating Temperature</b><br>操作溫度                | Operating temperature / 操作溫度範圍：-55°C~125°C<br>When choosing the fuses specification, if the operating environmental temperature beyond the scope from 20~30°C, you should consider the environmental temperature's affection to fuses.<br>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。 |
| <b>Storage Conditions</b><br>儲存條件                   | Under airtight in temperature +10°C~60°C、relative humidity ≤75% can store 3 years.<br>在溫度+10°C~60°C、相對濕度≤75%的密封條件下可存放3年。<br>Without dew in temperature+10°C~60°C、relative humidity be 95% maximum value for 30 days.<br>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。                              |
| <b>Installation Way &amp; Parameters</b><br>安裝方式及條件 | Stud-mount / 螺絲安裝<br>Wave soldering parameters / 波峰焊<br>Solder pot temperature / 錫爐溫度：260±3°C Max<br>Solder dwell time / 焊接時間：10s Max<br>Hand welding parameters / 手工焊<br>Solder iron temperature / 烙鐵溫度：350±5°C<br>Heating time / 焊接時間：5s Max  |



Dimensions / 尺寸圖 (Unit / 單位:mm)



Electrical Characteristics / 電氣特性

| Type<br>品名  | Ordering P / N<br>料號 | Rated Current<br>額定電流 | Breaking Capacity<br>分斷能力 | Safety Approvals<br>安全認證 |
|-------------|----------------------|-----------------------|---------------------------|--------------------------|
| WD25        | WD25-XXX-CT          |                       |                           | cUL <sup>®</sup> US      |
|             | WD25-125-CT          | 125A                  | 750VDC / 50KA             | ●                        |
|             | WD25-150-CT          | 150A                  |                           | ●                        |
|             | WD25-175-CT          | 175A                  |                           | ●                        |
|             | WD25-200-CT          | 200A                  |                           | ●                        |
|             | WD25-225-CT          | 225A                  |                           | ●                        |
|             | WD25-250-CT          | 250A                  |                           | ●                        |
| WD25-300-CT | 300A                 | ●                     |                           |                          |

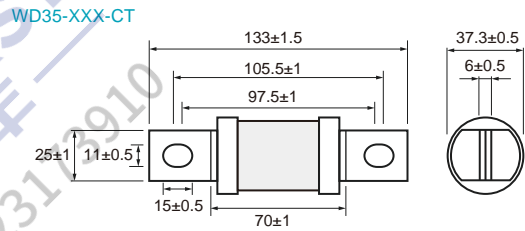


Product Features / 產品特性

|   |   |
|---|---|
| <b>Operating Temperature</b><br>操作溫度                | Operating temperature / 操作溫度範圍：-55°C~125°C<br>When choosing the fuses specification, if the operating environmental temperature beyond the scope from 20~30°C, you should consider the environmental temperature's affection to fuses.<br>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。 |
| <b>Storage Conditions</b><br>儲存條件                   | Under airtight in temperature +10°C~60°C、relative humidity ≤75% can store 3 years.<br>在溫度+10°C~60°C、相對濕度≤75%的密閉條件下可存放3年。<br>Without dew in temperature+10°C~60°C、relative humidity be 95% maximum value for 30 days.<br>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。                              |
| <b>Installation Way &amp; Parameters</b><br>安裝方式及條件 | Stud-mount / 螺絲安裝<br>Wave soldering parameters / 波峰焊<br>Solder pot temperature / 錫爐溫度：260±3°C Max<br>Solder dwell time / 焊接時間：10s Max<br>Hand welding parameters / 手工焊<br>Solder iron temperature / 烙鐵溫度：350±5°C<br>Heating time / 焊接時間：5s Max  |



Dimensions / 尺寸圖 (Unit / 單位:mm)



Electrical Characteristics / 電氣特性

| Type<br>品名  | Ordering P / N<br>料號 | Rated Current<br>額定電流 | Breaking Capacity<br>分斷能力 | Safety Approvals<br>安全認證 |
|-------------|----------------------|-----------------------|---------------------------|--------------------------|
| WD35        | WD35-XXX-CT          |                       |                           | cUL <sup>®</sup> US      |
|             | WD35-150-CT          | 150A                  | 800VDC / 20KA             | ●                        |
|             | WD35-200-CT          | 200A                  |                           | ●                        |
|             | WD35-250-CT          | 250A                  |                           | ●                        |
|             | WD35-300-CT          | 300A                  |                           | ●                        |
|             | WD35-350-CT          | 350A                  |                           | ●                        |
| WD35-400-CT | 400A                 | ●                     |                           |                          |

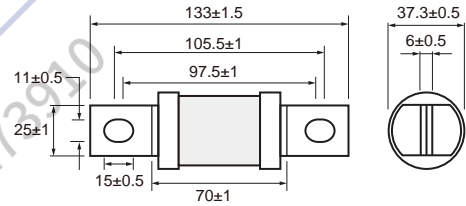
Product Features / 產品特性

|   |   |
|---|---|
| <b>Operating Temperature</b><br>操作溫度                | Operating temperature / 操作溫度範圍：-55°C~125°C<br>When choosing the fuses specification, if the operating environmental temperature beyond the scope from 20~30°C, you should consider the environmental temperature's affection to fuses.<br>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。 |
| <b>Storage Conditions</b><br>儲存條件                   | Under airtight in temperature +10°C~60°C、relative humidity ≤75% can store 3 years.<br>在溫度+10°C~60°C、相對濕度≤75%的密封條件下可存放3年。<br>Without dew in temperature+10°C~60°C、relative humidity be 95% maximum value for 30 days.<br>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。                              |
| <b>Installation Way &amp; Parameters</b><br>安裝方式及條件 | Stud-mount / 螺絲安裝<br>Wave soldering parameters / 波峰焊<br>Solder pot temperature / 錫爐溫度：260±3°C Max<br>Solder dwell time / 焊接時間：10s Max<br>Hand welding parameters / 手工焊<br>Solder iron temperature / 烙鐵溫度：350±5°C<br>Heating time / 焊接時間：5s Max  |

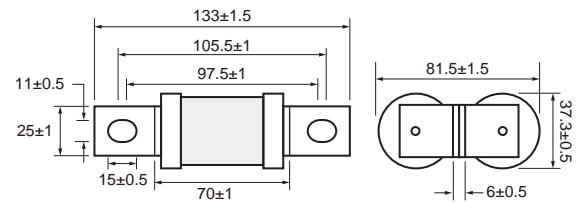


Dimensions / 尺寸圖 (Unit / 單位:mm)

WD38-XXX-CT



WD38-XXX-VT



Electrical Characteristics / 電氣特性

| Type<br>品名 | Ordering P / N<br>料號 | Rated Current<br>額定電流 | Breaking Capacity<br>分斷能力 | Safety Approvals<br>安全認證 |   |
|------------|----------------------|-----------------------|---------------------------|--------------------------|---|
| WD38       | WD38-XXX-CT          | WD38-XXX-VT           |                           |                          |   |
|            | WD38-250-CT          | -                     | 250A                      |                          | ● |
|            | WD38-315-CT          | -                     | 315A                      |                          | ● |
|            | WD38-350-CT          | -                     | 350A                      |                          | ● |
|            | WD38-400-CT          | -                     | 400A                      |                          | ● |
|            | -                    | WD38-500-VT           | 500A                      |                          | ● |
| -          | WD38-600-VT          | 600A                  | ●                         |                          |   |

I-T Characteristics / 時間-電流特性

| % of Ampere Rating<br>額定電流% | Opening Time<br>熔斷時間 |
|-----------------------------|----------------------|
| 110%                        | 4 Hrs Min. / 最短4小時   |
| 200%                        | 1s Min. / 最短1秒       |
|                             | 300s Max. / 最長300秒   |
| 300%                        | 0.2s Min. / 最短0.2秒   |
|                             | 30s Max. / 最長30秒     |
| 500%                        | 0.1s Min. / 最短0.1秒   |
|                             | 10s Max. / 最長10秒     |

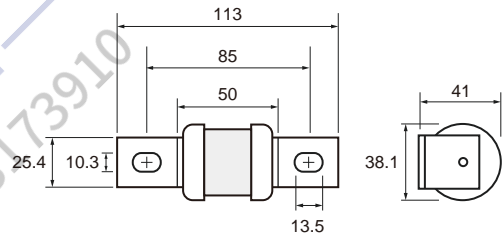


Product Features / 產品特性

|  |   |
|--|---|
| <b>Operating Temperature<br/>操作溫度</b>                | <p>Operating temperature / 操作溫度範圍: -55°C~125°C<br/>When choosing the fuses specification, if the operating environmental temperature beyond the scope from 20~30°C, you should consider the environmental temperature's affection to fuses.<br/>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。</p> |
| <b>Storage Conditions<br/>儲存條件</b>                   | <p>Under airtight in temperature +10°C~60°C &amp; relative humidity ≤75% can store 3 years.<br/>在溫度+10°C~60°C、相對濕度≤75%的密閉條件下可存放3年。<br/>Without dew in temperature+10°C~60°C &amp; relative humidity be 95% maximum value for 30 days.<br/>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。</p>                    |
| <b>Installation Way &amp; Parameters<br/>安裝方式及條件</b> | <p>Stud-mount / 螺絲安裝</p> <p>Wave soldering parameters / 波峰焊<br/>Solder pot temperature / 錫爐溫度: 260±3°C Max<br/>Solder dwell time / 焊接時間: 10s Max</p> <p>Hand welding parameters / 手工焊<br/>Solder iron temperature / 烙鐵溫度: 350±5°C<br/>Heating time / 焊接時間: 5s Max</p>                                 |

Dimensions / 尺寸圖 (Unit / 單位:mm)

WD50-XXX-BT



Electrical Characteristics / 電氣特性

| Type<br>品名 | Ordering P / N<br>料號 | Rated Current<br>額定電流 | Breaking Capacity<br>分斷能力 |
|------------|----------------------|-----------------------|---------------------------|
| WD50       | WD50-XXX-BT          |                       | 300VDC / 10KA             |
|            | WD50-200-BT          | 200A                  |                           |
|            | WD50-225-BT          | 225A                  |                           |
|            | WD50-250-BT          | 250A                  |                           |
|            | WD50-300-BT          | 300A                  |                           |
|            | WD50-350-BT          | 350A                  |                           |
|            | WD50-400-BT          | 400A                  |                           |

I-T Characteristics / 時間-電流特性

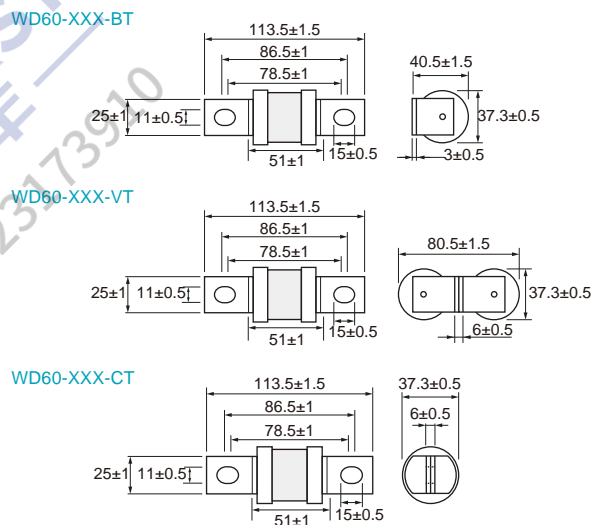
| % of Ampere Rating<br>額定電流% | Opening Time<br>熔斷時間 |
|-----------------------------|----------------------|
| 100%                        | 4 Hrs Min. / 最短4小時   |
| 200%                        | 1s Min. / 最短1秒       |
|                             | 300s Max. / 最長300秒   |
| 300%                        | 0.2s Min. / 最短0.2秒   |
|                             | 30s Max. / 最長30秒     |
| 500%                        | 0.1s Min. / 最短0.1秒   |
|                             | 10s Max. / 最長10秒     |



Product Features / 產品特性

|  |  |
|--|--|
| <b>Operating Temperature<br/>操作溫度</b>                | Operating temperature / 操作溫度範圍: -55°C~125°C<br>When choosing the fuses specification, if the operating environmental temperature beyond the scope from 20~30°C, you should consider the environmental temperature's affection to fuses.<br>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。 |
| <b>Storage Conditions<br/>儲存條件</b>                   | Under airtight in temperature +10°C~60°C & relative humidity ≤75% can store 3 years.<br>在溫度+10°C~60°C、相對濕度≤75%的密封條件下可存放3年。<br>Without dew in temperature+10°C~60°C & relative humidity be 95% maximum value for 30 days.<br>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。                             |
| <b>Installation Way &amp; Parameters<br/>安裝方式及條件</b> | Stud-mount / 螺絲安裝<br>Wave soldering parameters / 波峰焊<br>Solder pot temperature / 錫爐溫度: 260±3°C Max<br>Solder dwell time / 焊接時間: 10s Max<br>Hand welding parameters / 手工焊<br>Solder iron temperature / 烙鐵溫度: 350±5°C<br>Heating time / 焊接時間: 5s Max   |

Dimensions / 尺寸圖 (Unit / 單位:mm)



Electrical Characteristics / 電氣特性

| Type<br>品名 | Ordering P / N<br>料號 |             |             | Rated Current<br>額定電流 | Breaking Capacity<br>分斷能力 | Safety Approvals<br>安全認證 |
|------------|----------------------|-------------|-------------|-----------------------|---------------------------|--------------------------|
| WD60       | WD60-XXX-BT          | WD60-XXX-CT | WD60-XXX-VT |                       |                           | cUL <sup>®</sup> US      |
|            | WD60-200-BT          | WD60-200-CT | -           | 200A                  | 500VDC / 10KA             | ●                        |
|            | WD60-225-BT          | -           | -           | 225A                  |                           | ●                        |
|            | WD60-250-BT          | WD60-250-CT | -           | 250A                  |                           | ●                        |
|            | WD60-300-BT          | WD60-300-CT | -           | 300A                  |                           | ●                        |
|            | WD60-350-BT          | WD60-350-CT | -           | 350A                  |                           | ●                        |
|            | WD60-400-BT          | WD60-400-CT | -           | 400A                  |                           | ●                        |
|            | -                    | -           | WD60-450-VT | 450A                  |                           | ●                        |
|            | -                    | -           | WD60-500-VT | 500A                  |                           | ●                        |
| -          | -                    | WD60-600-VT | 600A        | ●                     |                           |                          |

I-T Characteristics / 時間-電流特性

| % of Ampere Rating<br>額定電流% | Opening Time<br>熔斷時間 |
|-----------------------------|----------------------|
| 100%                        | 4 Hrs Min. / 最短4小時   |
| 200%                        | 1s Min. / 最短1秒       |
|                             | 300s Max. / 最長300秒   |
| 300%                        | 0.2s Min. / 最短0.2秒   |
|                             | 30s Max. / 最長30秒     |
| 500%                        | 0.1s Min. / 最短0.1秒   |
|                             | 10s Max. / 最長10秒     |

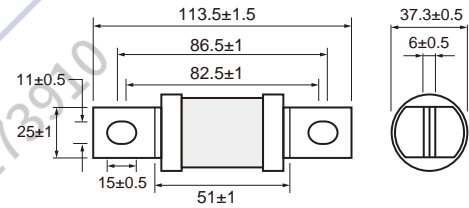


Product Features / 產品特性

|  |   |
|--|---|
| <b>Operating Temperature<br/>操作溫度</b>                | <p>Operating temperature / 操作溫度範圍: -55°C~125°C</p> <p>When choosing the fuses specification, if the operating environmental temperature beyond the scope from 20~30°C, you should consider the environmental temperature's affection to fuses.</p> <p>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。</p> |
| <b>Storage Conditions<br/>儲存條件</b>                   | <p>Under airtight in temperature +10°C~60°C &amp; relative humidity ≤75% can store 3 years.</p> <p>在溫度+10°C~60°C、相對濕度≤75%的密封條件下可存放3年。</p> <p>Without dew in temperature+10°C~60°C &amp; relative humidity be 95% maximum value for 30 days.</p> <p>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。</p>                 |
| <b>Installation Way &amp; Parameters<br/>安裝方式及條件</b> | <p>Stud-mount / 螺絲安裝</p>  |
|  | <p>Wave soldering parameters / 波峰焊</p> <p>Solder pot temperature / 錫爐溫度: 260±3°C Max</p> <p>Solder dwell time / 焊接時間: 10s Max</p> <p>Hand welding parameters / 手工焊</p> <p>Solder iron temperature / 烙鐵溫度: 350±5°C</p> <p>Heating time / 焊接時間: 5s Max</p>  |

Dimensions / 尺寸圖 (Unit / 單位:mm)

WD60X-XXX-CT



Electrical Characteristics / 電氣特性

| Type<br>品名 | Ordering P / N<br>料號 | Rated Current<br>額定電流 | Breaking Capacity<br>分斷能力 | Safety Approvals<br>安全認證 |
|------------|----------------------|-----------------------|---------------------------|--------------------------|
| WD60X      | WD60-XXX-CT          |                       |                           |                          |
|            | WD60X-500-CT         | 500A                  | 500VDC / 10KA             | ●                        |

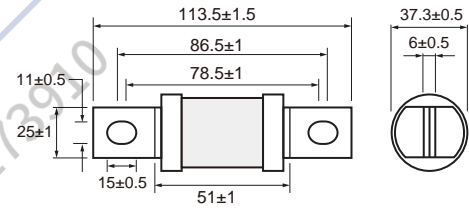
Product Features / 產品特性

|  |   |
|--|---|
| Operating Temperature<br>操作溫度            | Operating temperature / 操作溫度範圍：-55°C~125°C<br>When choosing the fuses specification, if the operating environmental temperature beyond the scope from 20~30°C, you should consider the environmental temperature's affection to fuses.<br>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。 |
| Storage Conditions<br>儲存條件               | Under airtight in temperature +10°C~60°C、relative humidity ≤75% can store 3 years.<br>在溫度+10°C~60°C、相對濕度≤75%的密閉條件下可存放3年。<br>Without dew in temperature+10°C~60°C、relative humidity be 95% maximum value for 30 days.<br>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。                              |
| Installation Way & Parameters<br>安裝方式及條件 | Stud-mount / 螺栓安裝<br><br>Wave soldering parameters / 波峰焊<br>Solder pot temperature / 錫爐溫度：260±3°C Max<br>Solder dwell time / 焊接時間：10s Max<br><br>Hand welding parameters / 手工焊<br>Solder iron temperature / 烙鐵溫度：350±5°C<br>Heating time / 焊接時間：5s Max                                    |



Dimensions / 尺寸圖 (Unit / 單位:mm)

WD63-XXX-CT



Electrical Characteristics / 電氣特性

| Type<br>品名 | Ordering P / N<br>料號 | Rated Current<br>額定電流 | Breaking Capacity<br>分斷能力 | Safety Approvals<br>安全認證 |
|------------|----------------------|-----------------------|---------------------------|--------------------------|
| WD63       | WD63-XXX-CT          |                       |                           |                          |
|            | WD63-250-CT          | 250A                  |                           | ●                        |
|            | WD63-300-CT          | 300A                  | 500VAC / 50KA             | ●                        |
|            | WD63-350-CT          | 350A                  | 500VDC / 50KA             | ●                        |
|            | WD63-400-CT          | 400A                  |                           | ●                        |

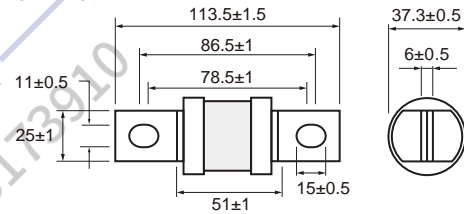
Product Features / 產品特性

|   |   |
|---|---|
| <b>Operating Temperature</b><br>操作溫度                | Operating temperature / 操作溫度範圍：-55°C~125°C<br>When choosing the fuses specification, if the operating environmental temperature beyond the scope from 20~30°C, you should consider the environmental temperature's affection to fuses.<br>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。 |
| <b>Storage Conditions</b><br>儲存條件                   | Under airtight in temperature +10°C~60°C、relative humidity ≤75% can store 3 years.<br>在溫度+10°C~60°C、相對濕度≤75%的密封條件下可存放3年。<br>Without dew in temperature+10°C~60°C、relative humidity be 95% maximum value for 30 days.<br>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。                              |
| <b>Installation Way &amp; Parameters</b><br>安裝方式及條件 | Stud-mount / 螺絲安裝<br>Wave soldering parameters / 波峰焊<br>Solder pot temperature / 錫爐溫度：260±3°C Max<br>Solder dwell time / 焊接時間：10s Max<br>Hand welding parameters / 手工焊<br>Solder iron temperature / 烙鐵溫度：350±5°C<br>Heating time / 焊接時間：5s Max  |

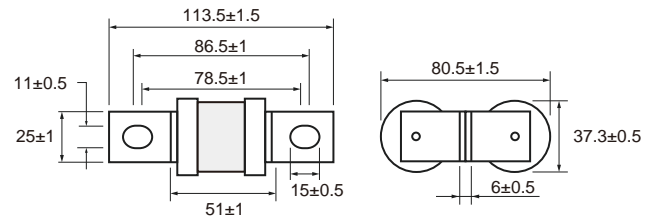


Dimensions / 尺寸圖 (Unit / 單位:mm)

WD70-XXX-CT



WD70-XXX-VT



Electrical Characteristics / 電氣特性

| Type<br>品名 | Ordering P / N<br>料號 | Rated Current<br>額定電流 | Breaking Capacity<br>分斷能力 |      |
|------------|----------------------|-----------------------|---------------------------|------|
| WD70       | WD70-XXX-CT          | WD70-XXX-VT           | 700VDC / 20KA             |      |
|            | WD70-250-CT          | -                     |                           | 250A |
|            | WD70-300-CT          | -                     |                           | 300A |
|            | WD70-400-CT          | -                     |                           | 400A |
|            | -                    | WD70-500-VT           |                           | 500A |
|            | -                    | WD70-600-VT           |                           | 600A |

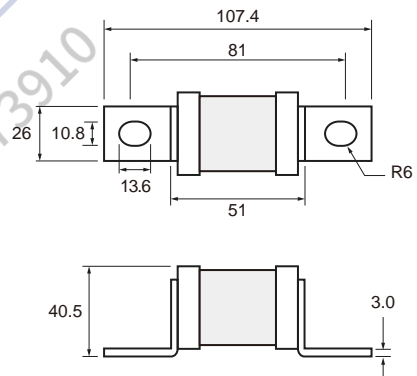
Product Features / 產品特性

|   |  |
|---|--|
| <p><b>Operating Temperature</b><br/>操作溫度</p>                | <p>Operating temperature / 操作溫度範圍：-55°C~125°C<br/>When choosing the fuses specification, if the operating environmental temperature beyond the scope from 20~30°C, you should consider the environmental temperature's affection to fuses.<br/>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。</p> |
| <p><b>Storage Conditions</b><br/>儲存條件</p>                   | <p>Under airtight in temperature +10°C~60°C、relative humidity ≤75% can store 3 years.<br/>在溫度+10°C~60°C、相對濕度≤75%的密封條件下可存放3年。<br/>Without dew in temperature+10°C~60°C、relative humidity be 95% maximum value for 30 days.<br/>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。</p>                             |
| <p><b>Installation Way &amp; Parameters</b><br/>安裝方式及條件</p> | <p>Stud-mount / 螺栓安裝</p> <p>Wave soldering parameters / 波峰焊<br/>Solder pot temperature / 錫爐溫度：260±3°C Max<br/>Solder dwell time / 焊接時間：10s Max</p> <p>Hand welding parameters / 手工焊<br/>Solder iron temperature / 烙鐵溫度：350±5°C<br/>Heating time / 焊接時間：5s Max</p>                                  |



Dimensions / 尺寸圖 (Unit / 單位:mm)

WD70M-XXX-BTL



Electrical Characteristics / 電氣特性

| Type<br>品名 | Ordering P / N<br>料號 | Rated Current<br>額定電流 | Breaking Capacity<br>分斷能力 |
|------------|----------------------|-----------------------|---------------------------|
| WD70M      | WD70M-XXX-BTL        |                       | 700VDC / 20KA             |
|            | WD70M-250-BTL        | 250A                  |                           |
|            | WD70M-300-BTL        | 300A                  |                           |
|            | WD70M-350-BTL        | 350A                  |                           |
|            | WD70M-400-BTL        | 400A                  |                           |



I-T Characteristics / 時間-電流特性

| % of Ampere Rating<br>額定電流% | Opening Time<br>熔斷時間 |
|-----------------------------|----------------------|
| 200%                        | 1s Min. / 最短1秒       |
|                             | 300s Max. / 最長300秒   |
| 300%                        | 0.2s Min. / 最短0.2秒   |
|                             | 30s Max. / 最長30秒     |
| 500%                        | 0.1s Min. / 最短0.1秒   |
|                             | 10s Max. / 最長10秒     |

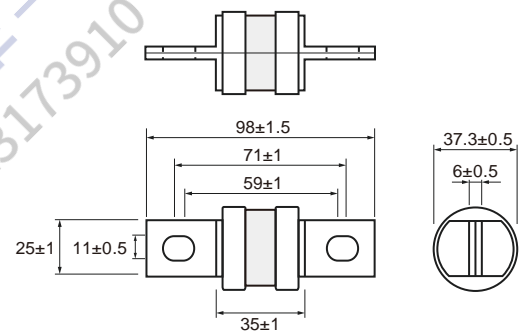


Product Features / 產品特性

|  |  |
|--|--|
| <b>Operating Temperature<br/>操作溫度</b>                | Operating temperature / 操作溫度範圍: -55°C~125°C<br>When choosing the fuses specification, if the operating environmental temperature beyond the scope from 20~30°C, you should consider the environmental temperature's affection to fuses.<br>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。 |
| <b>Storage Conditions<br/>儲存條件</b>                   | Under airtight in temperature +10°C~60°C、relative humidity ≤75% can store 3 years.<br>在溫度+10°C~60°C、相對濕度≤75%的密閉條件下可存放3年。<br>Without dew in temperature+10°C~60°C、relative humidity be 95% maximum value for 30 days.<br>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。                                 |
| <b>Installation Way &amp; Parameters<br/>安裝方式及條件</b> | Stud-mount / 螺絲安裝  |
|  | Wave soldering parameters / 波峰焊<br>Solder pot temperature / 錫爐溫度: 260±3°C Max<br>Solder dwell time / 焊接時間: 10s Max   |
|  | Hand welding parameters / 手工焊<br>Solder iron temperature / 烙鐵溫度: 350±5°C<br>Heating time / 焊接時間: 5s Max  |

Dimensions / 尺寸圖 (Unit / 單位:mm)

WD80-XXX-CT



Electrical Characteristics / 電氣特性

| Type<br>品名 | Ordering P / N<br>料號 | Rated Current<br>額定電流 | Breaking Capacity<br>分斷能力 |
|------------|----------------------|-----------------------|---------------------------|
| WD80       | WD80-XXX-CT          |                       | 250VDC / 10KA             |
|            | WD80-200-CT          | 200A                  |                           |
|            | WD80-250-CT          | 250A                  |                           |
|            | WD80-300-CT          | 300A                  |                           |
|            | WD80-350-CT          | 350A                  |                           |
|            | WD80-400-CT          | 400A                  |                           |
|            | WD80-450-CT          | 450A                  |                           |
|            | WD80-500-CT          | 500A                  |                           |

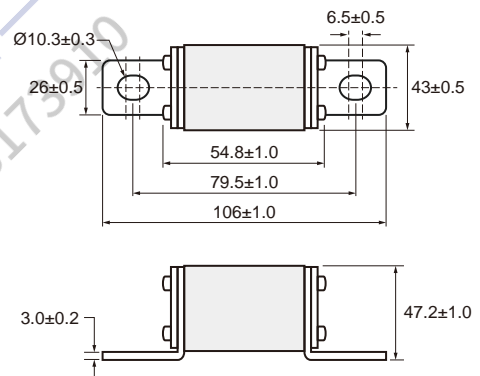
Product Features / 產品特性

|   |   |
|---|---|
| <b>Operating Temperature</b><br>操作溫度                | Operating temperature / 操作溫度範圍：-55°C~125°C<br>When choosing the fuses specification, if the operating environmental temperature beyond the scope from 20~30°C, you should consider the environmental temperature's affection to fuses.<br>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。 |
| <b>Storage Conditions</b><br>儲存條件                   | Under airtight in temperature +10°C~60°C、relative humidity ≤75% can store 3 years.<br>在溫度+10°C~60°C、相對濕度≤75%的密封條件下可存放3年。<br>Without dew in temperature+10°C~60°C、relative humidity be 95% maximum value for 30 days.<br>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。                              |
| <b>Installation Way &amp; Parameters</b><br>安裝方式及條件 | Stud-mount / 螺栓安裝<br><br>Wave soldering parameters / 波峰焊<br>Solder pot temperature / 錫爐溫度：260±3°C Max<br>Solder dwell time / 焊接時間：10s Max<br><br>Hand welding parameters / 手工焊<br>Solder iron temperature / 烙鐵溫度：350±5°C<br>Heating time / 焊接時間：5s Max                                    |



Dimensions / 尺寸圖 (Unit / 單位:mm)

WS32-XXX-BT



Electrical Characteristics / 電氣特性

| Type<br>品名 | Ordering P / N<br>料號 | Rated Current<br>額定電流 | Breaking Capacity<br>分斷能力 |
|------------|----------------------|-----------------------|---------------------------|
| WS32       | WS32-XXX-BT          |                       |                           |
|            | WS32-500-BT          | 500A                  | 750VDC / 20KA             |
|            | WS32-550-BT          | 550A                  |                           |
|            | WS32-630-BT          | 630A                  |                           |

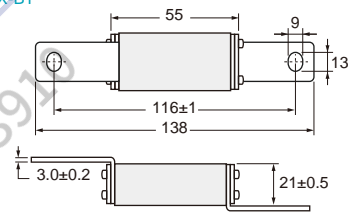
Product Features / 產品特性

|   |   |
|---|---|
| <b>Operating Temperature</b><br>操作溫度                | Operating temperature / 操作溫度範圍：-55°C~125°C<br>When choosing the fuses specification, if the operating environmental temperature beyond the scope from 20~30°C, you should consider the environmental temperature's affection to fuses.<br>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。 |
| <b>Storage Conditions</b><br>儲存條件                   | Under airtight in temperature +10°C~60°C、relative humidity ≤75% can store 3 years.<br>在溫度+10°C~60°C、相對濕度≤75%的密封條件下可存放3年。<br>Without dew in temperature+10°C~60°C、relative humidity be 95% maximum value for 30 days.<br>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。                              |
| <b>Installation Way &amp; Parameters</b><br>安裝方式及條件 | Stud-mount / 螺栓安裝<br>Wave soldering parameters / 波峰焊<br>Solder pot temperature / 錫爐溫度：260±3°C Max<br>Solder dwell time / 焊接時間：10s Max<br>Hand welding parameters / 手工焊<br>Solder iron temperature / 烙鐵溫度：350±5°C<br>Heating time / 焊接時間：5s Max  |

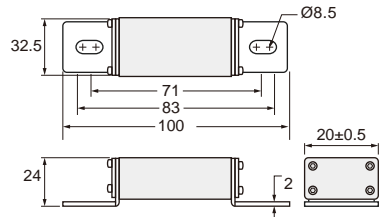


Dimensions / 尺寸圖 (Unit / 單位:mm)

WS35-XXX-BT



WS35-XXX-BT



Recommended tightening torque: 12+/-1 Nm

Electrical Characteristics / 電氣特性

| Type<br>品名 | Ordering P / N<br>料號 |             | Rated Current<br>額定電流 | Breaking Capacity<br>分斷能力 |
|------------|----------------------|-------------|-----------------------|---------------------------|
| WS35       | WS35-XXX-DT          | WS35-XXX-BT |                       | 800VDC / 20KA             |
|            | WS35-250-DT          | WS35-250-DT | 250A                  |                           |
|            | WS35-315-DT          | WS35-315-DT | 315A                  |                           |
|            | WS35-350-DT          | WS35-350-DT | 350A                  |                           |
|            | WS35-400-DT          | WS35-400-DT | 400A                  |                           |

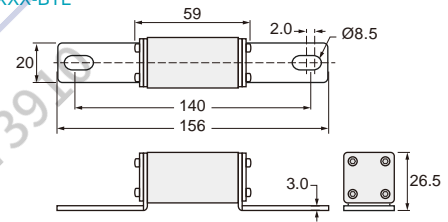
Product Features / 產品特性

|   |   |
|---|---|
| <b>Operating Temperature</b><br>操作溫度                | Operating temperature / 操作溫度範圍：-55°C~125°C<br>When choosing the fuses specification, if the operating environmental temperature beyond the scope from 20~30°C, you should consider the environmental temperature's affection to fuses.<br>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。 |
| <b>Storage Conditions</b><br>儲存條件                   | Under airtight in temperature +10°C~60°C、relative humidity ≤75% can store 3 years.<br>在溫度+10°C~60°C、相對濕度≤75%的密封條件下可存放3年。<br>Without dew in temperature+10°C~60°C、relative humidity be 95% maximum value for 30 days.<br>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。                              |
| <b>Installation Way &amp; Parameters</b><br>安裝方式及條件 | Stud-mount / 螺絲安裝   |
|   | Wave soldering parameters / 波峰焊<br>Solder pot temperature / 錫爐溫度：260±3°C Max<br>Solder dwell time / 焊接時間：10s Max  |
|   | Hand welding parameters / 手工焊<br>Solder iron temperature / 烙鐵溫度：350±5°C<br>Heating time / 焊接時間：5s Max   |
|   |   |

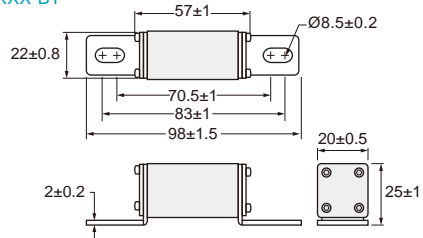


Dimensions / 尺寸圖 (Unit / 單位:mm)

WS37-XXX-BTL



WS37-XXX-BT



Recommended tightening torque: 12+/-1 Nm

Electrical Characteristics / 電氣特性

| Type<br>品名 | Ordering P / N<br>料號 |             | Rated Current<br>額定電流 | Breaking Capacity<br>分斷能力 |
|------------|----------------------|-------------|-----------------------|---------------------------|
| WS37       | WS37-XXX-BTL         | WS37-XXX-BT |                       | 800VDC / 50KA             |
|            | WS37-100-BTL         | WS37-100-BT | 100A                  |                           |
|            | WS37-150-BTL         | WS37-150-BT | 150A                  |                           |
|            | WS37-200-BTL         | WS37-200-BT | 200A                  |                           |

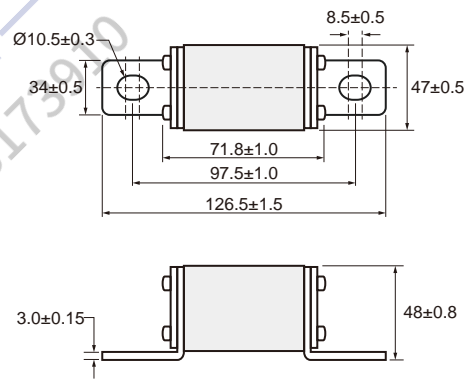
Product Features / 產品特性

|   |   |
|---|---|
| <b>Operating Temperature</b><br>操作溫度                | Operating temperature / 操作溫度範圍：-55°C~125°C<br>When choosing the fuses specification, if the operating environmental temperature beyond the scope from 20~30°C, you should consider the environmental temperature's affection to fuses.<br>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。 |
| <b>Storage Conditions</b><br>儲存條件                   | Under airtight in temperature +10°C~60°C、relative humidity ≤75% can store 3 years.<br>在溫度+10°C~60°C、相對濕度≤75%的密封條件下可存放3年。<br>Without dew in temperature+10°C~60°C、relative humidity be 95% maximum value for 30 days.<br>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。                              |
| <b>Installation Way &amp; Parameters</b><br>安裝方式及條件 | Stud-mount / 螺栓安裝<br>Wave soldering parameters / 波峰焊<br>Solder pot temperature / 錫爐溫度：260±3°C Max<br>Solder dwell time / 焊接時間：10s Max<br>Hand welding parameters / 手工焊<br>Solder iron temperature / 烙鐵溫度：350±5°C<br>Heating time / 焊接時間：5s Max  |



Dimensions / 尺寸圖 (Unit / 單位:mm)

WS40-XXX-BT



Electrical Characteristics / 電氣特性

| Type<br>品名 | Ordering P / N<br>料號 | Rated Current<br>額定電流 | Breaking Capacity<br>分斷能力 |
|------------|----------------------|-----------------------|---------------------------|
| WS40       | WS40-XXX-BT          |                       | 1000VDC / 20KA            |
|            | WS40-350-BT          | 350A                  |                           |
|            | WS40-400-BT          | 400A                  |                           |
|            | WS40-450-BT          | 450A                  |                           |
|            | WS40-500-BT          | 500A                  |                           |

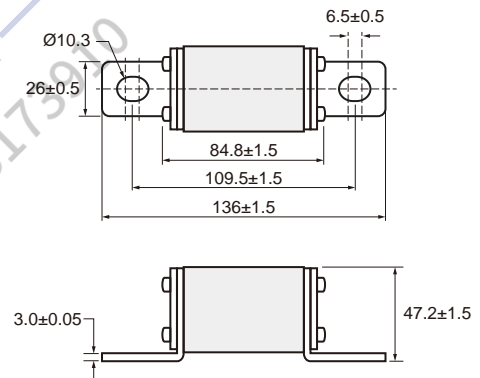
Product Features / 產品特性

|   |   |
|---|---|
| <b>Operating Temperature</b><br>操作溫度                | Operating temperature / 操作溫度範圍：-55°C~125°C<br>When choosing the fuses specification, if the operating environmental temperature beyond the scope from 20~30°C, you should consider the environmental temperature's affection to fuses.<br>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。 |
| <b>Storage Conditions</b><br>儲存條件                   | Under airtight in temperature +10°C~60°C、relative humidity ≤75% can store 3 years.<br>在溫度+10°C~60°C、相對濕度≤75%的密封條件下可存放3年。<br>Without dew in temperature+10°C~60°C、relative humidity be 95% maximum value for 30 days.<br>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。                              |
| <b>Installation Way &amp; Parameters</b><br>安裝方式及條件 | Stud-mount / 螺栓安裝<br>Wave soldering parameters / 波峰焊<br>Solder pot temperature / 錫爐溫度：260±3°C Max<br>Solder dwell time / 焊接時間：10s Max<br>Hand welding parameters / 手工焊<br>Solder iron temperature / 烙鐵溫度：350±5°C<br>Heating time / 焊接時間：5s Max  |



Dimensions / 尺寸圖 (Unit / 單位:mm)

WS70-XXX-BT



Electrical Characteristics / 電氣特性

| Type<br>品名 | Ordering P / N<br>料號 | Rated Current<br>額定電流 | Breaking Capacity<br>分斷能力 |
|------------|----------------------|-----------------------|---------------------------|
| WS70       | WS70-XXX-BT          |                       | 1500VDC / 30KA            |
|            | WS70-160-BT          | 160A                  |                           |
|            | WS70-200-BT          | 200A                  |                           |
|            | WS70-250-BT          | 250A                  |                           |
|            | WS70-300-BT          | 300A                  |                           |

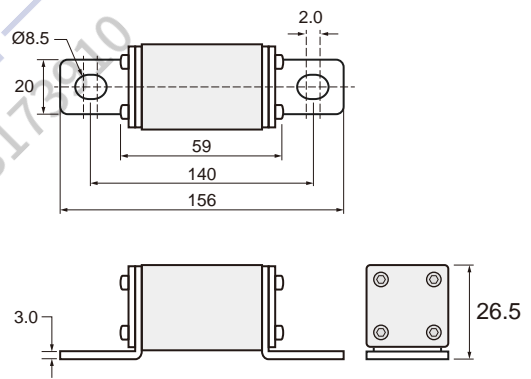
Product Features / 產品特性

|   |  |
|---|--|
| <p><b>Operating Temperature</b><br/>操作溫度</p>                | <p>Operating temperature / 操作溫度範圍：-55°C~125°C<br/>When choosing the fuses specification, if the operating environmental temperature beyond the scope from 20~30°C, you should consider the environmental temperature's affection to fuses.<br/>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。</p> |
| <p><b>Storage Conditions</b><br/>儲存條件</p>                   | <p>Under airtight in temperature +10°C~60°C、relative humidity ≤75% can store 3 years.<br/>在溫度+10°C~60°C、相對濕度≤75%的密封條件下可存放3年。<br/>Without dew in temperature+10°C~60°C、relative humidity be 95% maximum value for 30 days.<br/>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。</p>                             |
| <p><b>Installation Way &amp; Parameters</b><br/>安裝方式及條件</p> | <p>Stud-mount / 螺栓安裝</p> <p>Wave soldering parameters / 波峰焊<br/>Solder pot temperature / 錫爐溫度：260±3°C Max<br/>Solder dwell time / 焊接時間：10s Max</p> <p>Hand welding parameters / 手工焊<br/>Solder iron temperature / 烙鐵溫度：350±5°C<br/>Heating time / 焊接時間：5s Max</p>                                  |



Dimensions / 尺寸圖 (Unit / 單位:mm)

WS80-XXX-BT



Electrical Characteristics / 電氣特性

| Type<br>品名 | Ordering P / N<br>料號 | Rated Current<br>額定電流 | Breaking Capacity<br>分斷能力 |
|------------|----------------------|-----------------------|---------------------------|
| WS80       | WS80-XXX-BT          |                       |                           |
|            | WS80-100-BT          | 100A                  | 1500VDC / 20KA            |

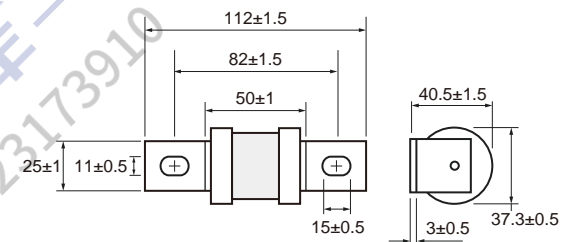
Product Features / 產品特性

|  |   |
|--|---|
| Operating Temperature<br>操作溫度            | Operating temperature / 操作溫度範圍：-55°C~125°C<br>When choosing the fuses specification, if the operating environmental temperature beyond the scope from 20~30°C, you should consider the environmental temperature's affection to fuses.<br>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。 |
| Storage Conditions<br>儲存條件               | Under airtight in temperature +10°C~60°C、relative humidity ≤75% can store 3 years.<br>在溫度+10°C~60°C、相對濕度≤75%的密閉條件下可存放3年。<br>Without dew in temperature+10°C~60°C、relative humidity be 95% maximum value for 30 days.<br>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。                              |
| Installation Way & Parameters<br>安裝方式及條件 | Stud-mount / 螺絲安裝<br><br>Wave soldering parameters / 波峰焊<br>Solder pot temperature / 錫爐溫度：260±3°C Max<br>Solder dwell time / 焊接時間：10s Max<br><br>Hand welding parameters / 手工焊<br>Solder iron temperature / 烙鐵溫度：350±5°C<br>Heating time / 焊接時間：5s Max                                    |



Dimensions / 尺寸圖 (Unit / 單位:mm)

WHFM-XXX



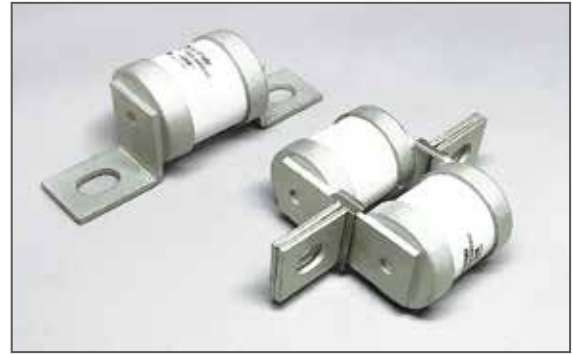
Electrical Characteristics / 電氣特性

| Type<br>品名 | Ordering P / N<br>料號 | Rated Current<br>額定電流 | Breaking Capacity<br>分斷能力      | Safety Approvals<br>安全認證 |
|------------|----------------------|-----------------------|--------------------------------|--------------------------|
| WHFM       | WHFT-XXX             |                       |                                |                          |
|            | WHFT-180             | 180A                  | 690VAC / 50KA<br>500VDC / 10KA | ●                        |
|            | WHFT-200             | 200A                  |                                | ●                        |
|            | WHFT-225             | 225A                  |                                | ●                        |
|            | WHFT-250             | 250A                  |                                | ●                        |
|            | WHFT-280             | 280A                  |                                | ●                        |
|            | WHFT-315             | 315A                  |                                | ●                        |
| WHFT-350   | 350A                 | ●                     |                                |                          |



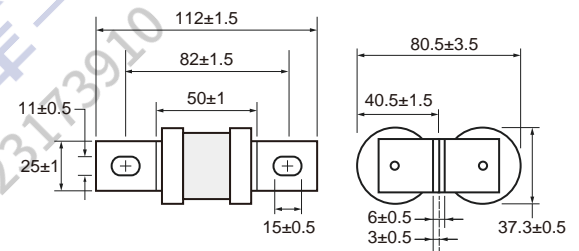
Product Features / 產品特性

|   |  |
|---|--|
| <b>Operating Temperature</b><br>操作溫度                | Operating temperature / 操作溫度範圍: -55°C~125°C<br>When choosing the fuses specification, if the operating environmental temperature beyond the scope from 20~30°C, you should consider the environmental temperature's affection to fuses.<br>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。 |
| <b>Storage Conditions</b><br>儲存條件                   | Under airtight in temperature +10°C~60°C、relative humidity ≤75% can store 3 years.<br>在溫度+10°C~60°C、相對濕度≤75%的密封條件下可存放3年。<br>Without dew in temperature+10°C~60°C、relative humidity be 95% maximum value for 30 days.<br>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。                               |
| <b>Installation Way &amp; Parameters</b><br>安裝方式及條件 | Stud-mount / 螺栓安裝<br>Wave soldering parameters / 波峰焊<br>Solder pot temperature / 錫爐溫度: 260±3°C Max<br>Solder dwell time / 焊接時間: 10s Max<br>Hand welding parameters / 手工焊<br>Solder iron temperature / 烙鐵溫度: 350±5°C<br>Heating time / 焊接時間: 5s Max   |



Dimensions / 尺寸圖 (Unit / 單位:mm)

WHFMM-XXX

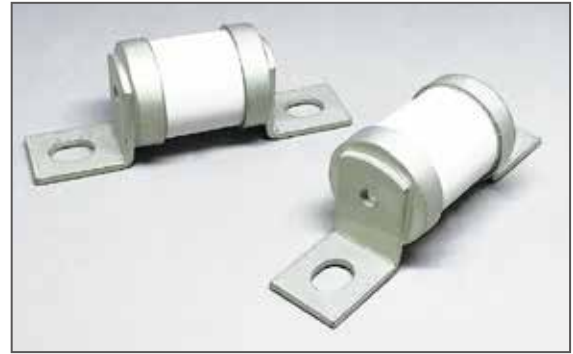


Electrical Characteristics / 電氣特性

| Type<br>品名 | Ordering P / N<br>料號 | Rated Current<br>額定電流 | Breaking Capacity<br>分斷能力 | Safety Approvals<br>安全認證 |
|------------|----------------------|-----------------------|---------------------------|--------------------------|
| WHFMM      | WHFMM-XXX            |                       |                           |                          |
|            | WHFMM-500            | 500A                  | 690VAC / 50KA             | ●                        |
|            | WHFMM-700            | 700A                  | 500VDC / 10KA             | ●                        |

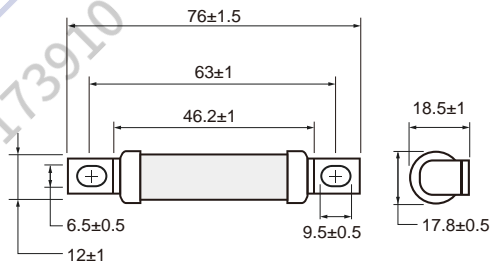
Product Features / 產品特性

|  |   |
|--|---|
| Operating Temperature<br>操作溫度            | Operating temperature / 操作溫度範圍：-55°C~125°C<br>When choosing the fuses specification, if the operating environmental temperature beyond the scope from 20~30°C, you should consider the environmental temperature's affection to fuses.<br>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。 |
| Storage Conditions<br>儲存條件               | Under airtight in temperature +10°C~60°C、relative humidity ≤75% can store 3 years.<br>在溫度+10°C~60°C、相對濕度≤75%的密閉條件下可存放3年。<br>Without dew in temperature+10°C~60°C、relative humidity be 95% maximum value for 30 days.<br>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。                              |
| Installation Way & Parameters<br>安裝方式及條件 | Stud-mount / 螺柱安裝<br><br>Wave soldering parameters / 波峰焊<br>Solder pot temperature / 錫爐溫度：260±3°C Max<br>Solder dwell time / 焊接時間：10s Max<br><br>Hand welding parameters / 手工焊<br>Solder iron temperature / 烙鐵溫度：350±5°C<br>Heating time / 焊接時間：5s Max                                    |



Dimensions / 尺寸圖 (Unit / 單位:mm)

WHET-XXX

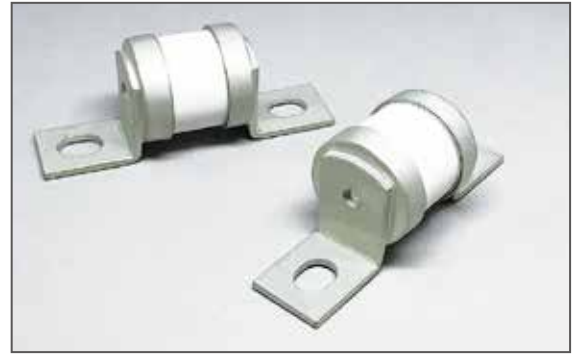


Electrical Characteristics / 電氣特性

| Type<br>品名 | Ordering P / N<br>料號 | Rated Current<br>額定電流 | Breaking Capacity<br>分斷能力      | Safety Approvals<br>安全認證 |
|------------|----------------------|-----------------------|--------------------------------|--------------------------|
| WHET       | WHET-XXX             |                       |                                |                          |
|            | WHET-25              | 25A                   | 690VAC / 50KA<br>500VDC / 10KA | ●                        |
|            | WHET-32              | 32A                   |                                | ●                        |
|            | WHET-35              | 35A                   |                                | ●                        |
|            | WHET-40              | 40A                   |                                | ●                        |
|            | WHET-45              | 45A                   |                                | ●                        |
|            | WHET-50              | 50A                   |                                | ●                        |
|            | WHET-63              | 63A                   |                                | ●                        |
|            | WHET-71              | 71A                   |                                | ●                        |
|            | WHET-80              | 80A                   |                                | ●                        |
|            | WHET-90              | 90A                   |                                | ●                        |
|            | WHET-100             | 100A                  |                                | ●                        |

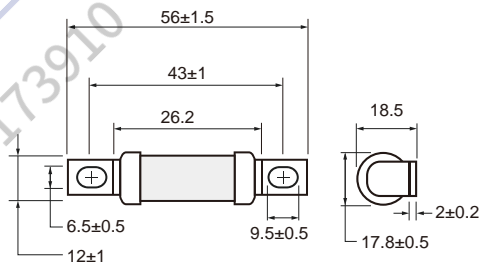
Product Features / 產品特性

|  |   |
|--|---|
| Operating Temperature<br>操作溫度            | Operating temperature / 操作溫度範圍：-55°C~125°C<br>When choosing the fuses specification, if the operating environmental temperature beyond the scope from 20~30°C, you should consider the environmental temperature's affection to fuses.<br>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。 |
| Storage Conditions<br>儲存條件               | Under airtight in temperature +10°C~60°C、relative humidity ≤75% can store 3 years.<br>在溫度+10°C~60°C、相對濕度≤75%的密封條件下可存放3年。<br>Without dew in temperature+10°C~60°C、relative humidity be 95% maximum value for 30 days.<br>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。                              |
| Installation Way & Parameters<br>安裝方式及條件 | Stud-mount / 螺栓安裝<br><br>Wave soldering parameters / 波峰焊<br>Solder pot temperature / 錫爐溫度：260±3°C Max<br>Solder dwell time / 焊接時間：10s Max<br><br>Hand welding parameters / 手工焊<br>Solder iron temperature / 烙鐵溫度：350±5°C<br>Heating time / 焊接時間：5s Max                                    |



Dimensions / 尺寸圖 (Unit / 單位:mm)

WLET-XXX



Electrical Characteristics / 電氣特性

| Type<br>品名 | Ordering P / N<br>料號 | Rated Current<br>額定電流 | Breaking Capacity<br>分斷能力      | Safety Approvals<br>安全認證 |
|------------|----------------------|-----------------------|--------------------------------|--------------------------|
| WLET       | WLET-XXX             |                       |                                |                          |
|            | WLET-25              | 25A                   | 240VAC / 50KA<br>150VDC / 10KA | ●                        |
|            | WLET-32              | 32A                   |                                | ●                        |
|            | WLET-35              | 35A                   |                                | ●                        |
|            | WLET-50              | 50A                   |                                | ●                        |
|            | WLET-60              | 60A                   |                                | ●                        |
|            | WLET-80              | 80A                   |                                | ●                        |
|            | WLET-100             | 100A                  |                                | ●                        |
|            | WLET-125             | 125A                  |                                | ●                        |
|            | WLET-160             | 160A                  |                                | ●                        |
| WLET-180   | 180A                 | ●                     |                                |                          |

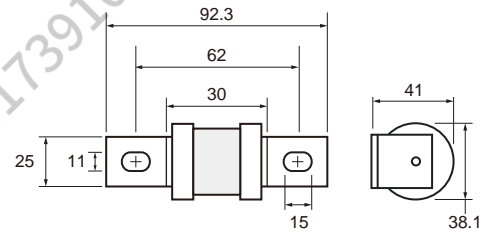
Product Features / 產品特性

|   |   |
|---|---|
| <b>Operating Temperature</b><br>操作溫度                | Operating temperature / 操作溫度範圍：-55°C~125°C<br>When choosing the fuses specification, if the operating environmental temperature beyond the scope from 20~30°C, you should consider the environmental temperature's affection to fuses.<br>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。 |
| <b>Storage Conditions</b><br>儲存條件                   | Under airtight in temperature +10°C~60°C、relative humidity ≤75% can store 3 years.<br>在溫度+10°C~60°C、相對濕度≤75%的密封條件下可存放3年。<br>Without dew in temperature+10°C~60°C、relative humidity be 95% maximum value for 30 days.<br>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。                              |
| <b>Installation Way &amp; Parameters</b><br>安裝方式及條件 | Stud-mount / 螺栓安裝<br>Wave soldering parameters / 波峰焊<br>Solder pot temperature / 錫爐溫度：260±3°C Max<br>Solder dwell time / 焊接時間：10s Max<br>Hand welding parameters / 手工焊<br>Solder iron temperature / 烙鐵溫度：350±5°C<br>Heating time / 焊接時間：5s Max  |



Dimensions / 尺寸圖 (Unit / 單位:mm)

WLMT-XXX



Electrical Characteristics / 電氣特性

| Type<br>品名 | Ordering P / N<br>料號 | Rated Current<br>額定電流 | Breaking Capacity<br>分斷能力      | Safety Approvals<br>安全認證 |
|------------|----------------------|-----------------------|--------------------------------|--------------------------|
| WLMT       | WLMT-XXX             |                       |                                |                          |
|            | WLMT-250             | 250A                  | 240VAC / 50KA<br>150VDC / 10KA | ●                        |
|            | WLMT-315             | 315A                  |                                | ●                        |
|            | WLMT-400             | 400A                  |                                | ●                        |



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