

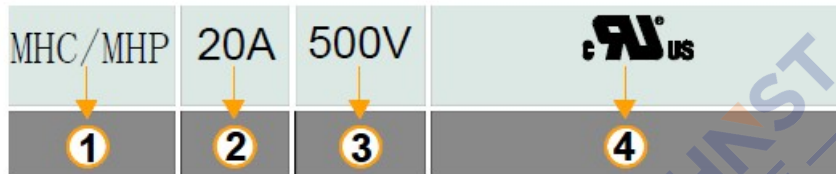
### 1. 適用範圍 / SCOPE

MHC/MHP 系列小型保險絲，適用通訊電源、伺服電源、充電樁。

MHC/MHP series Miniature-Fuse, used in Communication Power、Server Power、Charging Station.

### 2. 產品型號 / TYPE

例「example」：



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

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

額定電流 / Rated Current: 10A~30A

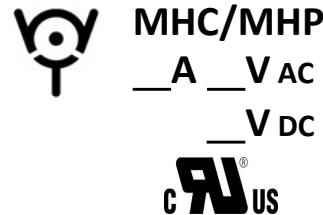
額定電壓 / Rated Voltage: 500V AC/ DC

### 4. 標示 / MARKING

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

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

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



注意 / Note:

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

### 5. 外觀及形狀 / APPEARANCES AND CONFIGURATION

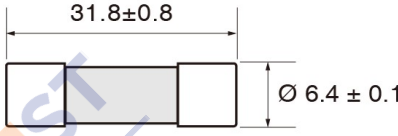
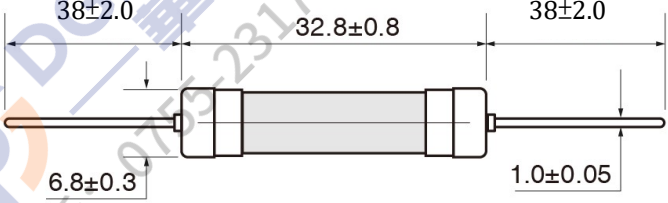
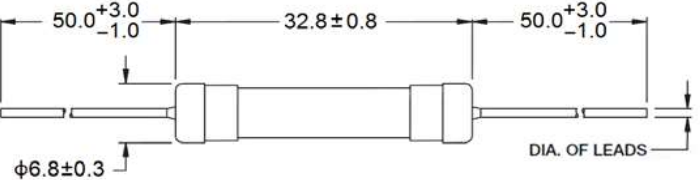
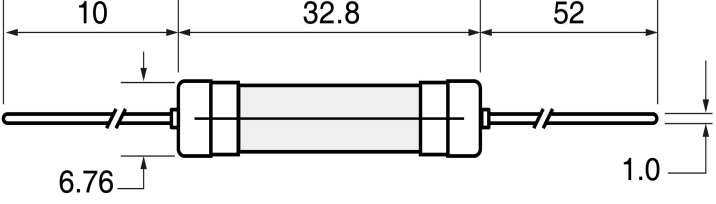
5-1 外觀：不應有破碎、明顯的污斑。

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

5-2 形狀：小型保險絲。

Configuration: Miniature-Fuse.

**6. 工程圖和結構 / OUTLINE DRAWING AND STRUCTURE**
**6-1 工程圖 (單位: mm) / Outline Drawing and Dimensions (Unit: mm)**

MHC-XXX	
MHP- XXX	 <p>10A~16A: 0.81mm; 20A~30A : 1.00mm</p>
MHP- XXX -L	 <p>10A~16A: 0.81mm; 20A~30A : 1.00mm</p>
MHP-XXX-SXL	 <p>10A~16A: 0.81mm; 20A~30A : 1.00mm</p>

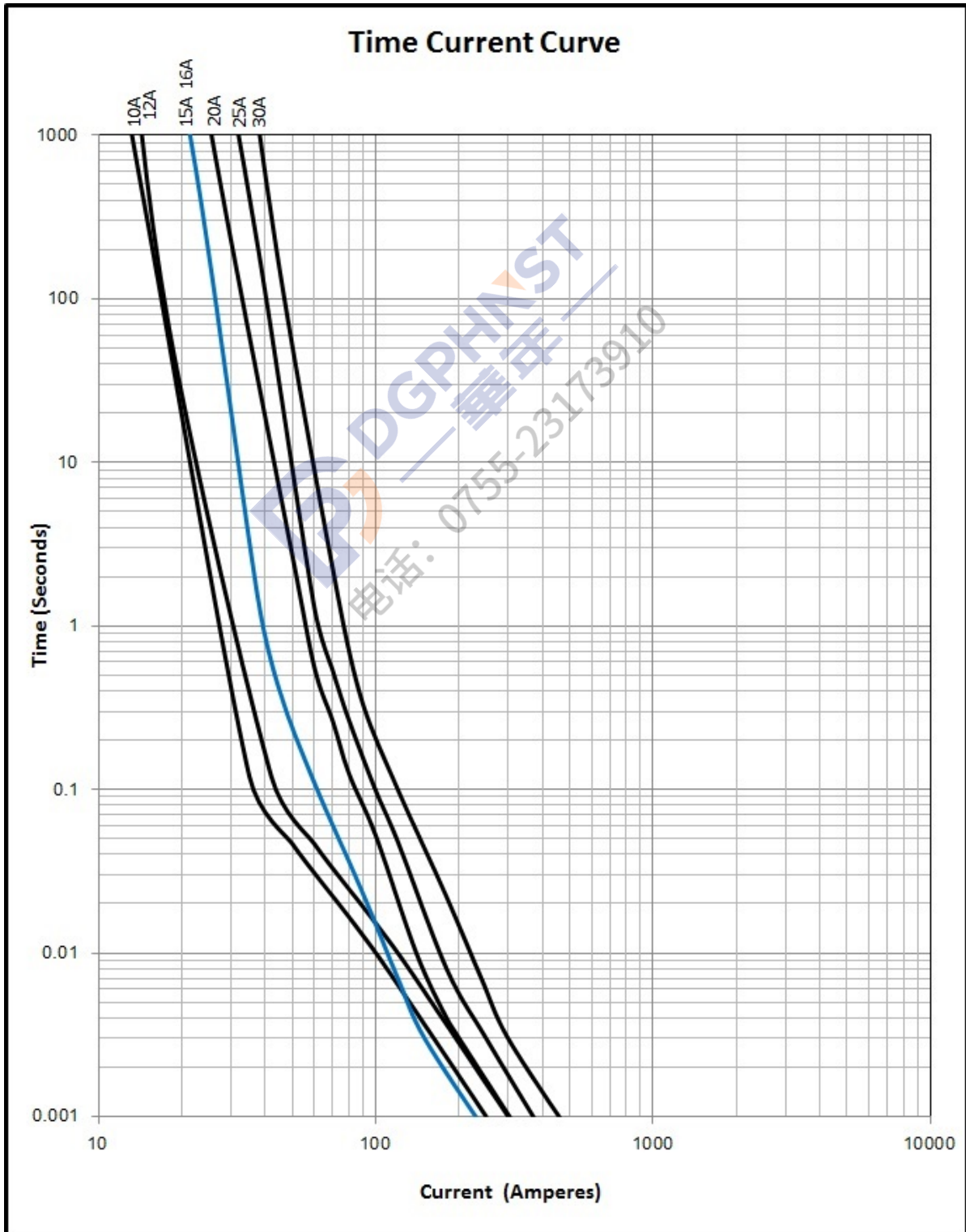
**7. 電氣特性 / ELECTRICAL CHARACTERISTICS**

Electrical Characteristics	
1.5In	30mins, Maximum
2.0In	5mins, Maximum
3.0In	10 Seconds, Maximum

**說明/Specifications**

品名 Type	料號 Ordering P/N		額定電壓 Rated Voltage	額定電流 Rated Current	分斷能力 Breaking Capacity	壓降 Voltage drop (mv)	最大耗散 功率 Typical Power loss (W)	電阻 Typical Cold Resistance (mΩ)	I2t 值 Typical Pre- Arcing I2t (A2S)
	MHC-XXX	MHP-XXX-YY (YY : blank / L / SXL)							
MHC MHP	MHC-10	MHP-10-YY	500V AC/DC	10A	30KA@500VAC  20KA@500VDC	260	2.58	17.1	100
	MHC-12	MHP-12-YY		12A		255	3	12.3	140
	MHC-15	MHP-15-YY		15A		200	2.96	8.0	66
	MHC-16	MHP-16-YY		16A		200	3.15	8.0	62
	MHC-20	MHP-20-YY		20A		170	3.2	5.5	120
	MHC-25	MHP-25-YY		25A		185	4.5	4.6	200
	MHC-30	MHP-30-YY		30A		210	5.85	3.7	270

8. 時間電流曲線 Time-Current Curve



### 9. 環境特性 / ENVIRONMENTAL CHARACTERISTIC

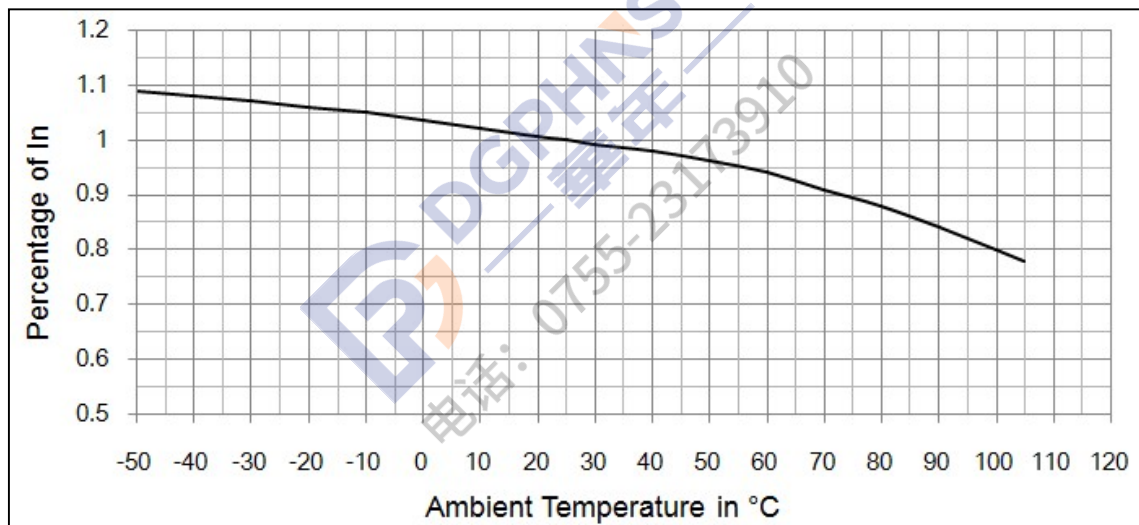
#### 9-1 操作溫度範圍: -55°C ~ 125°C / Operating Temperature: -55°C ~ 125°C

若貴司操作環境溫度超出 $25 \pm 5^\circ\text{C}$ 範圍，在選用保險絲規格時，需考慮操作環境溫度對保險絲的影響。  
請參照：溫度-電流曲線圖。

When choosing the fuse's specification, if the operating environmental temperature beyond the scope from  $20 \sim 30^\circ\text{C}$ , you should consider the environmental temperature's affection to fuses.

Please refer:

Temperature-Current curve:



#### 9-2 存儲條件 / Storage Conditions

在溫度 $+10^\circ\text{C} \sim 60^\circ\text{C}$ 、相對濕度 $\leq 75\%$ 的密閉條件下可存放 6 個月。

Under airtight in temperature  $+10^\circ\text{C} \sim 60^\circ\text{C}$ 、relative humidity  $\leq 75\%$  can store 6 months.

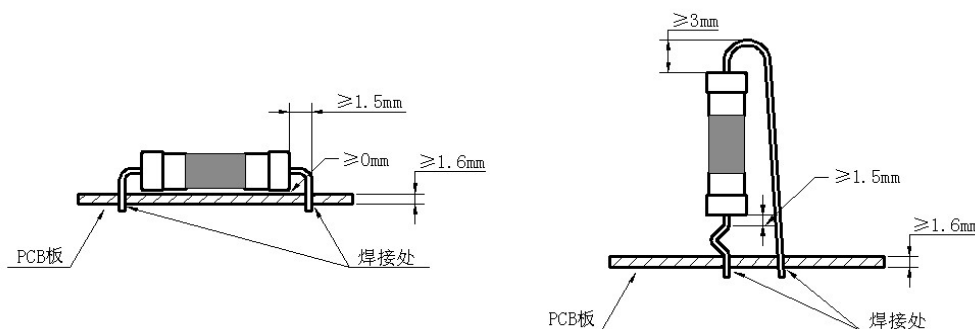
在溫度 $+10^\circ\text{C} \sim 60^\circ\text{C}$ 、相對濕度為 95% 的非露天下最多可存放 30 天。

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

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

10-1 建議如下圖安裝方式安裝，並滿足所要求的尺寸。

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



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

波峰焊參數 / Wave Parameters:

錫爐溫度 / Solder Pot Temperature: 260±3°C

焊接時間 / Solder Dwell Time: 10s Max

手工焊參數 / Hand-Solder Parameters:

烙鐵溫度 / Solder Iron Temperature: 350±5°C

焊接時間 / Heating Time: 5 s Max

**11. 安全認證及編號 / STANDARDS AND APPROVALS**

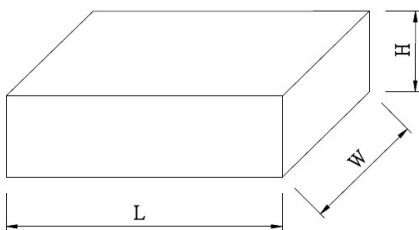
C-UR	E56092 (10A~30A JDYX2 / 8)
TUV	T50430880 01(10A~30A)

**12. 包裝/ PACKING**
**12-1 數量/Quantity**

規格 Specs	袋 Inner polybag	小盒 Inner small box .	大盒 Inner big box	外箱 outer carton
MHC-XXX	250PCS	/	250PCS	5000 PCS
MHP-XXX	200PCS	/	200PCS	2000 PCS
MHP-XXX-L MHP-XXX-SXL	200PCS	/	200PCS	2000 PCS

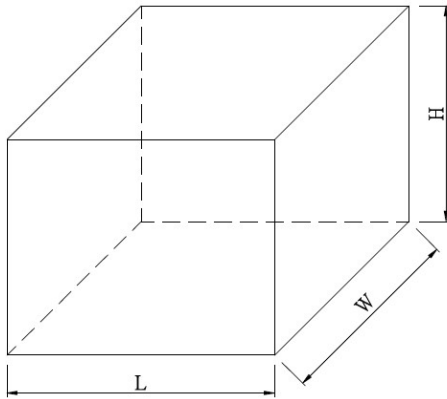
**12-2 內盒(大) / Inner big box**

單位 / Unit: mm



規格/ Specs	L	W	H
MHC-XXX	185±5	75±5	65±5
MHP-XXX	238±5	76±5	67±5
MHP-XXX-L MHP-XXX-SXL	238±5	76±5	67±5

### 12-3 外箱 / Outer carton



單位/Unit: mm

规格 /Specs	L	W	H
MHC-XXX	400±5	380±5	140±5
MHP-XXX	410±5	250±5	160±5
MHP-XXX-L MHP-XXX-SXL	410±5	250±5	160±5

### 13. 其他 / OTHERS

13-1 如果在使用中有超出本規格書的要求，必須經由雙方協商確認。

In the event that an impropriety is found beyond this specification, it shall be fixed by mutual agreement between the parties.

13-2 如果本規格書有不適當的情況，必須通過雙方協商並由本公司修改。

In the event that an impropriety is found in this specification, WALTER ELECTRONIC CO., LTD. shall amend it by mutual agreement between the parties.

版次	製作	確認	審核
第九版	King	Walker	Andrew



# UL iQ for Fuses



Fuses

E56092

Guide Information

## SUZHOU WALTER ELECTRONIC CO LTD

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

**MHC followed by 0.1, 0.2, 0.25, 0.315, 0.4, 0.5, 0.6, 0.75, 0.8, 1, 1.5, 2, 2.5, 3, 4, 5, 6.3, 7, 8, 10, 12, 15, 20, 25 or 30**

Supplemental fuses: filled-tube, cartridge enclosed

<u>Size</u> <u>mm(in)</u>	<u>Amps</u> <u>(A)</u>	<u>Volts</u> <u>(V)</u>	<u>Interrupting</u> <u>Rating (A)</u>
6.4 x 31.75 (0.25 x 1.25)	0.1 - 30	500Vac	1000
	0.1 - 30	500Vdc	1000
	0.1 - 30	500Vac	30K
	0.1 - 30	500Vdc	20K

Report Date: 2016-04-01

Last Revised: 2018-06-28

© 2019 UL LLC







# UL iQ for Fuses



## Fuses

E56092

### Guide Information

#### SUZHOU WALTER ELECTRONIC CO LTD

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

**MHP followed by 0.1, 0.2, 0.25, 0.315, 0.4, 0.5, 0.6, 0.75, 0.8, 1, 1.5, 2, 2.5, 3, 4, 5, 6.3, 7, 8, 10, 12, 15, 20, 25 or 30**

Supplemental fuses: pigtail leads, filled-tube, cartridge enclosed

<u>Size</u> mm(in)	<u>Amps</u> (A)	<u>Volts</u> (V)	<u>Interrupting</u> <u>Rating (A)</u>
6.76 x 32.8 (0.27 x 1.29)	0.1 - 30	500Vac	1000
	0.1 - 30	500Vdc	1000
	0.1 - 30	500Vac	30K
	0.1 - 30	500Vdc	20K

Report Date: 2016-04-01

Last Revised: 2018-06-28

© 2019 UL LLC



DGPHKST  
— 華信 —  
电话: 0755-23173910

# Certificate



Certificate no.

T 50430880 01

**License Holder:**

Suzhou Walter Electronic Co., Ltd.  
Fenhu Technic Development Zone, Lux  
Wujiang City, Jiangsu  
P. R. China

**Manufacturing Plant:**

05-YFC-50163174 001

**Test report no.:** YFC 50163174 002

**Client Reference:**

**Tested to:** UL 248-1:2011 R6.17  
UL 248-14:2000 R3.15

PDGPHNST  
电话: 0755-23173910

**Certified Product:** (Miniature Fuses)

**License Fee - Units**

Type Designation : MHC MHP  
Trademark : Walter(Logo) Walter  
Rated Voltage : 1) AC 500V, 50/60Hz; 2) DC 500V  
Rated Current : 10A, 12A, 12.5A, 15A, 16A, 20A, 25A, 30A  
Breaking Capacity : 1) 30kA, 1000A at 500VAC  
2) 20kA, 1000A at 500VDC  
Max. opening time : 2.0In: 2min; 3.0In: 10s  
Dimension : 6.3mm\*31.75mm without pigtail (for MHC)  
6.8mm\*32.8mm with pigtail (for MHP)  
Remark: Temperature test shall be performed in the end-product and the effect of the heat produced by the fuse shall be considered on surrounding components.

15

15

**Licensed Test mark:**



TÜV Rheinland (China) Ltd.



**Date of Issue**

(day/mo/yr)  
12/03/2019

TÜV Rheinland (China) Ltd

No. 01/03B-08, Floor 7 and No. 01/04B-08, Floor 11, AVIC Building, No.10B, Central Road, East 3rd Ring Road, Chaoyang District, Beijing, P.R. China