


### 1. 適用範圍 / SCOPE

TSC+P 系列小型保險絲，適用於一般電子設備。  
TSC+P series Miniature-Fuse，used in electronic equipment.

### 2. 產品型號 / TYPE

例「example」：

TSC+P	T	2A	H	250V	
①	②	③	④	⑤	⑥

- ① 系列號 / Series Number
- ② 特性符號 / Characteristic Symbol
- ③ 額定電流 / Rated Current
- ④ 斷路容量符號 / Breaking Capacity Symbol
- ⑤ 額定電壓 / Rated Voltage
- ⑥ 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:

200mA~20A

額定電壓 / Rated Voltage:

250VAC

### 4. 標示 / MARKING

保險絲兩端銅帽上需有下列標示/The fuses cap shall have the following marking


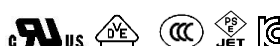



①規 格：製造工廠的商標+額定電流+額定電壓

Specification：The Manufacture's Logo +Rated Current + Rated Voltage

200mA~800mA：  T \_\_\_ mA H 250 V  
1A~20A：  T \_\_\_ A H 250 V

②商 標：系列號+認證符號

Trade mark：Part Number + Approved Symbol.

200mA~800mA(250V): TSC+P   
1A ~ 6.3A(250V): TSC+P   
8A/10A(250V): TSC+P   
12A/12.5A/15A(250V): TSC+P   
16A/20A(250V): TSC+P 

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、明顯的汙斑。

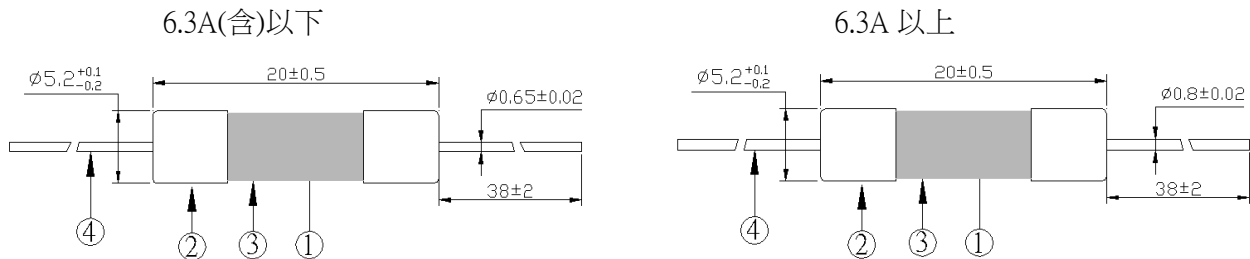
Appearances: There shall not be break up and any remarkable blotch.

5-2 形狀：帶腳的小型保險絲。

Configuration：Axial Leaded Miniature-Fuse.

## 6.工程圖和結構 / OUTLINE DRAWING AND STRUCTURE

### 6-1 工程圖（單位：mm） / Engineering drawing (Unit: mm)



### 6-2 結構 / Structure

編號 No.	元件 Component	材質 Material	數量 Quantity
①	熔絲 Wire	合金 Alloy	1
②	銅帽 Cap	黃銅鍍鎳 Brass with nickel plated	2
③	本體 Body	陶瓷管 Ceramic Tube	1
④	引線 Lead	鍍錫銅線 Tinned Copper wire	2
⑤	填充物 Filler	石英砂 Quartz sand	

## 7.產品特性 / PRODUCT CHARACTERISTICS

### 7-1 引腳拉力強度 / Lead Pull Strength

10 牛頓 10±1 秒 / 10N for 10±1 Sec.

### 7-2 引腳推力強度 / Lead Thrust Strength

2 牛頓 10±1 秒 / 2N for 10±1 Sec.

### 7-3 可焊性 / Solderability

波峰焊/Wave：260℃，≤3s;

烙鐵焊/Soldering Iron: 350±10℃，≤3s.

### 7-4 耐焊接熱 / Soldering Heat Resistance

波峰焊/Wave：260℃，10s;

烙鐵焊/Soldering Iron: 350℃，5s.

**8. 電氣特性 / ELECTRICAL CHARACTERISTICS**
**8-1 熔斷 / 電流特性：Pre-Arcing Time / Current Characteristic (limits)**

RATED CURRENT	2.1 In	2.75 In		4 In		10 In	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.
100mA to 800mA	30 min	250 ms	80 s	50ms	5 s	5 ms	150 ms
Above 800mA to 3.15A	30 min	750 ms	80 s	95 ms	5 s	10 ms	150 ms
Above 3.15A to 20A	30 min	750 ms	80 s	150 ms	5 s	10 ms	150 ms

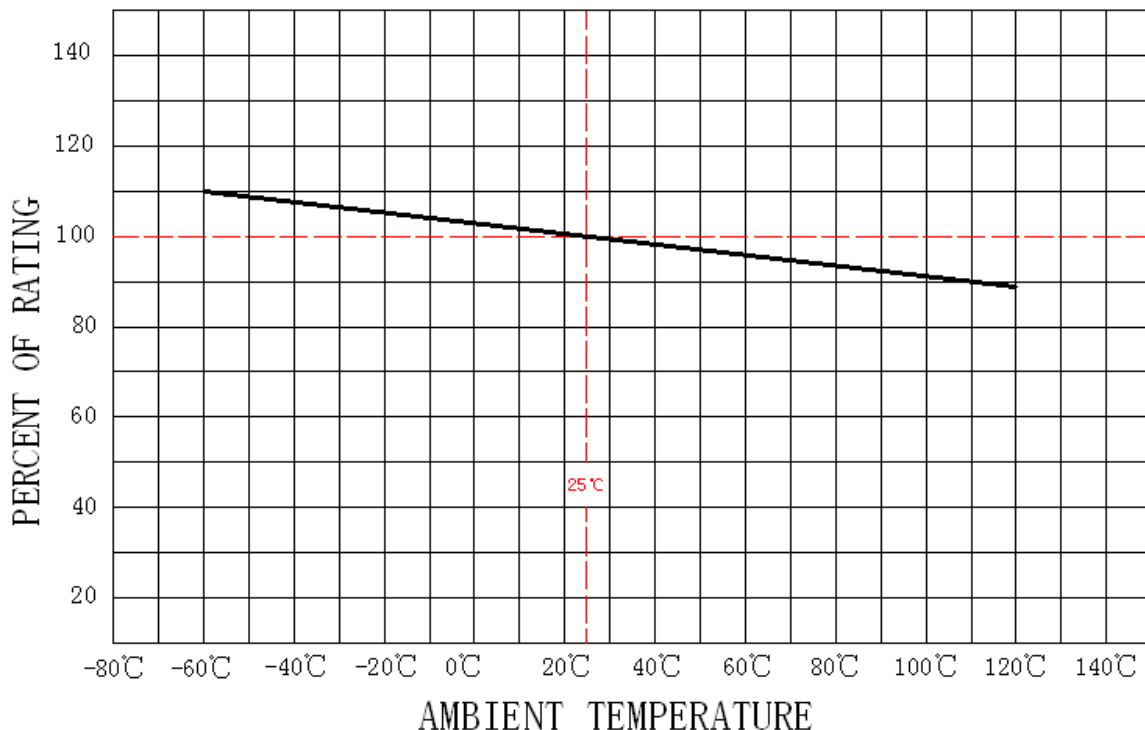
**9. 環境特性 / ENVIRONMENTAL CHARACTERISTIC**
**9-1 操作溫度範圍: -55°C ~ 125°C / Operating Temperature: -55°C ~ 125°C**

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°C ~ 60°C、相對濕度 ≤ 75%的密閉條件下可存放 3 年。

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

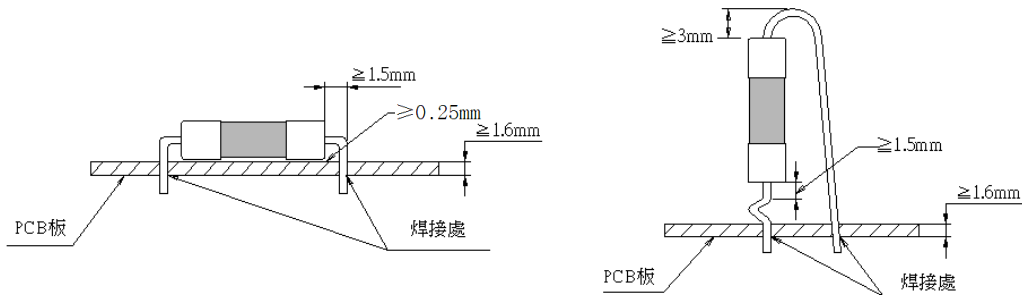
在溫度+10°C ~ 60°C、相對濕度為 95%的非露天下最多可存放 30 天。

Without dew in temperature+10°C ~ 60°C、relative humidity be 95% maximum value for 30days.

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

10-1 建議如下圖安裝方式安裝，並滿足所要求的尺寸。

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



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

波峰焊參數 / Wave Parameters:

錫爐溫度 / Solder Pot Temperature: 260°C Max

焊接時間 / Solder Dwell Time: 2~5s

手工焊參數 / Hand-Solder Parameters:

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

焊接時間 / Heating Time: 5 s Max

11.其他使用注意事項 / OTHER NOTICE IN USED

如果需在保險絲上加熱縮套管，烘烤溫度與時間需參照以下規定

If need to add heat draws back the sleeve pipe on the fuse, it needs to consult the following regulation to toast temperature and time

溫度 temperature	120°C	130°C	140°C	150°C	160°C	170°C	180°C
時間 time	Max 80s	Max 75s	Max 70s	Max 65s	Max 60s	Max 55s	Max 50s

## 12.安全認證及編號 / STANDARDS AND APPROVALS

UL	E56092 (200mA~20A)	
VDE	40016670(1A~6.3A 250V)	
CCC	2019010207154453 (1A ~ 10A / 250V)	
PSE	JET2179-31003-2006 (1A~5A 250V)    JET2179-31003-2007 ((5.1A~15A 250V)	
KC	SU05010~5002(1A~2.5A)	SU05010~5001(3.15A~6.3A)

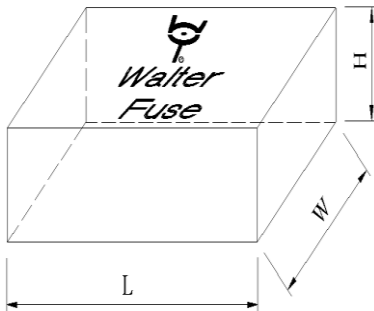
## 13.包裝 / PACKING

### 13-1 包裝數量 / Packing Quantity

A：每內盒裝 500 個保險絲。  
500pcs per inner box .

B：每外箱裝 20 內盒保險絲。  
20 inner boxes per outer box .

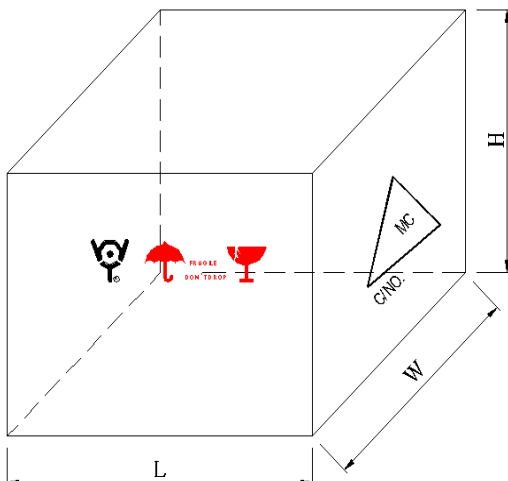
### 13-2 內包裝盒/Inner box of packing



單位/Unit : mm

L	W	H
157±3	127±3	84±2

### 13-3 外包裝箱/Outer box of packing



單位/Unit : mm

L	W	H
335±5	451±5	285±5

#### 14.其他 / OTHERS

14-1 如果在使用中有超出本規格書的要求，必須經由雙方協商確認。

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

14-2 如果本規格書有不適當的情況，必須通過雙方協商並由本公司修改。

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

版次	製作	確認	審核
第八版	饒紅	蔡明威	郭硯玲



# UL iQ for Fuses



## Fuses

E56092

### Guide Information

## SUZHOU WALTER ELECTRONIC CO LTD

Fenhu Technic Development Zone, Wujiang Jiangsu 215211 CN

### TSC+P

Supplemental fuses: pigtail leads, 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>
5 x 20 (0.20 x 0.79)	0.2 - 6.3	250Vac	1500
	0.2 - 6.3	125Vac	10000
	0.2 - 6.3	125Vdc	35
	8 - 10	250Vac	1500
	12 - 20	250Vac	1500

Report Date: 1997-04-04

Last Revised: 2018-09-04

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## ZEICHENGENEHMIGUNG MARKS APPROVAL

Suzhou Walter Electronic  
Co. Ltd.  
Fenhu Technic Development Zone  
215211 LUXU TOWN, WUJIANG CITY  
Jiangsu  
CHINA

ist berechtigt, für ihr Produkt /  
*is authorized to use for their product*

**Geräteschutzsicherung**  
**Miniature fuse**

die hier abgebildeten markenrechtlich geschützten Zeichen  
für die ab Blatt 2 aufgeführten Typen zu benutzen /  
*the legally protected Marks as shown below for the types referred to on page 2 ff.*



Geprüft und zertifiziert nach /  
*Tested and certified according to*

DIN EN 60127-1 (VDE 0820-1):2015-12; EN 60127-1:2006+A1:2011+A2:2015  
DIN EN 60127-2 (VDE 0820-2):2015-07; EN 60127-2:2014  
IEC 60127-1:2006  
IEC 60127-1:2006/AMD1:2011  
IEC 60127-1:2006/AMD2:2015  
IEC 60127-2:2014

Aktenzeichen: 5000410-1170-0029 / 253503

File ref.:

Ausweis-Nr. 40016670

Blatt 1

Certificate No.

Page

Weitere Bedingungen siehe Rückseite und Folgeblätter /  
*further conditions see overleaf and following pages*

Offenbach, 2006-01-30

(letzte Änderung / updated 2018-12-07)

VDE Prüf- und Zertifizierungsinstitut GmbH  
VDE Testing and Certification Institute  
Zertifizierungsstelle / Certification

R. Nickel

VDE Zertifikate sind nur gültig bei Veröffentlichung unter:  
VDE certificates are valid only when published on:

<http://www.vde.com/zertifikat>  
<http://www.vde.com/certificate>



Name und Sitz des Genehmigungs-Inhabers / *Name and registered seat of the Certificate holder*

Suzhou Walter Electronic Co. Ltd., Fenu Technic Development Zone, 215211 LUXU TOWN, WUJIANG CITY,  
Jiangsu, CHINA

Aktenzeichen / *File ref.*

5000410-1170-0029 / 253503 / TL3 / EUL

letzte Änderung / *updated*

2018-12-07

Datum / *Date*

2006-01-30

Dieses Blatt gilt nur in Verbindung mit Blatt 1 des Zeichengenehmigungsausweises Nr. 40016670.

*This supplement is only valid in conjunction with page 1 of the Certificate No. 40016670.*

## Geräteschutzsicherung

### Miniature fuse

Typ(en) / *Type(s)*

#### TSC

#### TSC+P

Bemessungsspannung  
*Rated voltage*

AC 250 V

Bemessungsstrom  
*Rated current*

200 mA; 250 mA; 315 mA; 400 mA; 500 mA;  
630 mA; 800 mA; 1 A; 1,25 A; 1,6 A; 2 A;  
2,5 A; 3,15 A; 4 A; 5 A; 6,3 A; 8 A; 10 A

Normblatt

*Standard sheet*

5

Kennzeichnung der Charakteristik  
*Characteristic symbol*

T

Maße in mm

*Dimension in mm*

5 x 20

Kennzeichnung des Ausschaltvermögens  
*Breaking capacity symbol*

H

Bemessungsausschaltvermögen  
*Rated breaking capacity*

1500 A

Zeit/Strom-Charakteristik  
*Time/current-characteristic*

träge  
*time-lag*

Anmerkung

wahlweise mit Drahtanschlüssen:

Version mit doppelter Endkappe  
(alle Bemessungsströme)

Version mit einfacher Endkappe  
(1 A; 1,25 A; 1,6 A; 2 A; 2,5 A; 3,15 A; 4A; 5 A; 6,3 A)

Remark

*optional with lead wires (pigtails):*

*Version with double-endcap  
(all rated currents)*

*Version with single-endcap  
(1 A; 1,25 A; 1,6 A; 2 A; 2,5 A; 3,15 A; 4A; 5 A; 6,3 A)*

Fortsetzung siehe Blatt 3 /  
*continued on page 3*

Name und Sitz des Genehmigungs-Inhabers / *Name and registered seat of the Certificate holder*

Suzhou Walter Electronic Co. Ltd., Fenu Technic Development Zone, 215211 LUXU TOWN, WUJIANG CITY,  
Jiangsu, CHINA

Aktenzeichen / *File ref.*

5000410-1170-0029 / 253503 / TL3 / EUL

letzte Änderung / *updated*

2018-12-07

Datum / *Date*

2006-01-30

Dieses Blatt gilt nur in Verbindung mit Blatt 1 des Zeichengenehmigungsausweises Nr. 40016670.

*This supplement is only valid in conjunction with page 1 of the Certificate No. 40016670.*

Weitere Angaben

Siehe Anlage 1 vom 2012-08-13

Siehe Anlage 2 vom 2012-11-27

*Further information*

*See appendix 1 dated 2012-08-13*

*See appendix 2 dated 2012-11-27*

Dieser Zeichengenehmigungs-Ausweis bildet eine Grundlage für die EG-Konformitätserklärung und CE-Kennzeichnung durch den Hersteller oder dessen Bevollmächtigten und bescheinigt die Konformität mit den grundlegenden Schutzanforderungen der **EG-Niederspannungsrichtlinie 2014/35/EU**.

*This Marks Approval is a basis for the EC Declaration of Conformity and the CE Marking by the manufacturer or his agent and proves the conformity with the essential safety requirements of the **EC Low-Voltage Directive 2014/35/EU**.*

VDE Prüf- und Zertifizierungsinstitut GmbH

*VDE Testing and Certification Institute*

Fachgebiet TL3

*Section TL3*

# VDE Prüf- und Zertifizierungsinstitut Zeichengenehmigung

Ausweis-Nr. / Beiblatt /  
Certificate No. Supplement  
40016670

Name und Sitz des Genehmigungs-Inhabers / *Name and registered seat of the Certificate holder*

Suzhou Walter Electronic Co. Ltd., Fenu Technic Development Zone, 215211 LUXU TOWN, WUJIANG CITY,  
Jiangsu, CHINA

Aktenzeichen / *File ref.*

5000410-1170-0029 / 253503 / TL3 / EUL

letzte Änderung / *updated*

2018-12-07

Datum / *Date*

2006-01-30

Dieses Beiblatt ist Bestandteil des Zeichengenehmigungsausweises Nr. 40016670.

*This supplement is part of the Certificate No. 40016670.*

## Geräteschutzsicherung

### *Miniature fuse*

#### Fertigungsstätte(n)

#### *Place(s) of manufacture*

Referenz/*Reference*

**30006375**

Dongguan Walter Electric Co., Ltd.

Yan Tian, Feng Gang Town

523702 DONGGUAN CITY

Guangdong

CHINA

Referenz/*Reference*

**30011941**

Suzhou Walter Electronic

Co. Ltd.

Fenu Technic Development Zone

215211 LUXU TOWN, WUJIANG CITY

Jiangsu

CHINA

VDE Prüf- und Zertifizierungsinstitut GmbH

*VDE Testing and Certification Institute*

Fachgebiet TL3

*Section TL3*

Name und Sitz des Genehmigungs-Inhabers / Name and registered seat of the Certificate holder

Suzhou Walter Electronic Co. Ltd., Fenuh Technic Development Zone, 215211 LUXU TOWN, WUJIANG CITY, Jiangsu, CHINA

Aktenzeichen / File ref.

5000410-1170-0029 / 253503 / TL3 / EUL

letzte Änderung / updated

2018-12-07

Datum / Date

2006-01-30

Dieses Blatt gilt nur in Verbindung mit Blatt 1 des Zeichengenehmigungsausweises Nr. 40016670.

*This supplement is only valid in conjunction with page 1 of the Certificate No. 40016670.*

## **Genehmigung zum Benutzen des auf Seite 1 abgebildeten markenrechtlich geschützten Zeichens des VDE:**

Grundlage für die Benutzung sind die Allgemeinen Geschäftsbedingungen (AGB) der VDE Prüf- und Zertifizierungsinstitut GmbH ([www.vde.com\AGB-Institut](http://www.vde.com\AGB-Institut)). Das Recht zur Benutzung erstreckt sich nur auf die bezeichnete Firma mit den genannten Fertigungsstätten und die oben aufgeführten Produkte mit den zugeordneten Bezeichnungen. Die Fertigungsstätte muss so eingerichtet sein, dass eine gleichmäßige Herstellung der geprüften und zertifizierten Ausführung gewährleistet ist.

Die Genehmigung ist so lange gültig wie die VDE-Bestimmungen gelten, die der Zertifizierung zugrunde gelegen haben, sofern sie nicht auf Grund anderer Bedingungen aus der VDE Prüf- und Zertifizierungsordnung (PM102) zurückgezogen werden muss.

Der Gültigkeitszeitraum einer VDE-GS-Zeichengenehmigung kann auf Antrag verlängert werden. Bei gesetzlichen und / oder normativen Änderungen kann die VDE-GS-Zeichengenehmigung ihre Gültigkeit zu einem früheren als dem angegebenen Datum verlieren.

Produkte, die das Biozid Dimethylfumarat (DMF) enthalten, dürfen gemäß der Kommissionsentscheidung 2009/251/EG nicht mehr in den Verkehr gebracht oder auf dem Markt bereitgestellt werden.

Der VDE-Zeichengenehmigungsausweis wird ausschließlich auf der ersten Seite unterzeichnet.

### **Approval to use the legally protected Mark of the VDE as shown on the first page:**

*Basis for the use are the general terms and conditions of the VDE Testing and Certification Institute ([www.vde.com\terms-institute](http://www.vde.com\terms-institute)). The right to use the mark is granted only to the mentioned company with the named places of manufacture and the listed products with the related type references. The place of manufacture shall be equipped in a way that a constant manufacturing of the certified construction is assured.*

*The approval is valid as long as the VDE specifications are in force, on which the certification is based on, unless it is withdrawn according to the VDE Testing and Certification Procedure (PM102E).*

*The validity period of a VDE-GS-Mark Approval may be prolonged on request. In case of changes in legal and / or normative requirements, the validity period of a VDE-GS-Mark Approval may be shortened.*

*Products containing the biocide dimethylfumarate (DMF) may not be marketed or made available on the EC market according to the Commission Decision 2009/251/EC.*

*The approval is solely signed on the first page.*



# 中国国家强制性产品认证证书

证书编号: 2019010207154453

委托人名称、地址

苏州华德电子有限公司  
江苏省吴江市汾湖经济技术开发区(芦墟)

生产者(制造商)名称、地址

苏州华德电子有限公司  
江苏省吴江市汾湖经济技术开发区(芦墟)

生产企业名称、地址

苏州华德电子有限公司  
江苏省吴江汾湖经济开发区新黎路99号

产品名称和系列、规格、型号

带引线的管状熔断体

TSC+P T1AH250V、TSC+P T1.25AH250V、TSC+P T1.6AH250V、TSC+P T2AH250V、  
TSC+P T2.5AH250V、TSC+P T3.15AH250V、TSC+P T4AH250V、TSC+P T5AH250V、  
TSC+P T6.3AH250V、TSC+P T8AH250V、TSC+P T10AH250V

产品标准和技术要求

GB/T9364.1-2015; GB/T9364.2-2018

上述产品符合强制性产品认证实施规则 CNCA-C02-01:2014 的要求,  
特发此证。

发证日期: 2019年02月22日 有效期至: 2024年02月22日

证书有效期内本证书的有效性依据发证机构的定期监督获得保持。

本证书的相关信息可通过国家认监委网站 [www.cnca.gov.cn](http://www.cnca.gov.cn) 查询



主任:

陆楠



## 中国质量认证中心



# CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

CERTIFICATE NO.: 2019010207154453

## NAME AND ADDRESS OF THE APPLICANT

Suzhou Walter Electronic Co., Ltd.  
Fenhu Technic Development Zone, Luxu, Wujiang City, Jiangsu

## NAME AND ADDRESS OF THE MANUFACTURER

Suzhou Walter Electronic Co., Ltd.  
Fenhu Technic Development Zone, Luxu, Wujiang City, Jiangsu

## NAME AND ADDRESS OF THE FACTORY

SUZHOU WALTER ELECTRONIC CO.,LTD.  
South of Xinli Road, Fenhu Technic Development Zone, Luxu, Wujiang City, Jiangsu

## PRODUCT NAME, MODEL AND SPECIFICATION

Cartridge Fuse-links with wire terminations

TSC+P T1AH250V, TSC+P T1.25AH250V, TSC+P T1.6AH250V, TSC+P T2AH250V,  
TSC+P T2.5AH250V, TSC+P T3.15AH250V, TSC+P T4AH250V, TSC+P T5AH250V,  
TSC+P T6.3AH250V, TSC+P T8AH250V, TSC+P T10AH250V

## THE STANDARDS AND TECHNICAL REQUIREMENTS FOR THE PRODUCTS

GB/T9364.1-2015; GB/T9364.2-2018

This is to certify that the above mentioned product(s) complies with the requirements of implementation rules for compulsory certification(REFNO.CNCA-C02-01:2014).

Valid from: Feb.22,2019

Valid until: Feb.22,2024

The validity of the certificate is subject to positive result of the regular follow up inspection by issuing certification body until the expiry date.

The certificate information is available through CNCA's website: [www.cnca.gov.cn](http://www.cnca.gov.cn)



President:

Lu Mei



**CHINA QUALITY CERTIFICATION CENTRE**



# 適合同等証明書

Statement of Conformity Assessment

電気用品安全法第8条第1項に規定する技術基準及び同法第9条第2項の経済産業省令で定める基準（法第9条第1項第2号に係る検査に係るものに限る）に適合していることを証明します

I hereby certify that the product mentioned below complies with the technical requirements stipulated in Paragraph 1 of Article 8 of Electrical Appliances and Materials Safety Act (here under referred to as the Act) and the requirements defined by the ordinance of the Ministry of Economy, Trade and Industry based on Paragraph 2 of Article 9 of the Act (limited to Item 2 of Paragraph 1 of Article 9 for Inspection of the Act).

1. 証明書番号: JET2179-31003-2006  
Statement Number
2. 交付年月日: 平成29年1月5日  
Effective Date January 5, 2017
3. 有効年月日: 平成36年1月4日  
Date of Validity January 4, 2024
4. 申込者名 (Applicant)  
住所: FENHU TECHNIC DEVELOPMENT ZONE WUJIANG, JIANGSU PROVINCE, CHINA  
Address
  
- 氏名又は名称: SUZHOU WALTER ELECTRONIC CO., LTD.  
Name
5. 特定電気用品名: 管形ヒューズ  
Name of Product Cartridge fuses
6. 型式の区分: 別紙のとおり  
Type Classification See attached "Type Classification"
7. 製造工場名 (Manufacturer)  
住所: FENHU TECHNIC DEVELOPMENT ZONE WUJIANG, JIANGSU PROVINCE, CHINA  
Address
  
- 氏名又は名称: SUZHOU WALTER ELECTRONIC CO., LTD.  
Name
8. 適用試験規格: 電気用品の技術上の基準を定める省令の解釈  
Applied Standard for Testing Description of the technical requirements by the METI Ordinance  
別表第十二 J60127-1 (H26) 及び J60127-2 (H26)  
Appendix 12 J60127-1 (H26) and J60127-2 (H26)
9. 適合性検査の方法: (Testing Method for Conformity Assessment)
  - 1) 試験用の特定電気用品については、電気用品の技術上の基準を定める省令の解釈に定める方法  
With respect to testing for Category A products, the testing method is based on the technical requirements of the description of Electrical Appliances and Materials stipulated in the METI Ordinance.
  - 2) 当該特定電気用品に係る届出事業者又は事業場における検査設備については、電気用品安全法施行規則別表第四の検査設備の欄に掲げる検査設備ごとにそれぞれ同表の技術上の基準の欄に掲げる方法  
With respect to inspection facilities required for Category A products at the factory, Testing Method described in the column of the technical requirements for each inspection facilities in the column of inspection facilities is shown in the Appendix 4 of Enforcement Regulations of the Act.

10. 注意事項

- 1) この適合同等証明書は、提出された試験用の電気用品に関して評価を行った上で交付したものであり、同一の型式の区分にある電気用品について電気用品安全法第8条1項に規定する技術基準適合確認の義務を履行したことを示すものではありません。

This Statement of Conformity Assessment, which is issued on the evaluation of the submitted test-use Electrical Appliances and Materials, does not signify that the Obligation to Comply with Requirements, which is prescribed at Paragraph 1 of Article 8 of the Act, is fulfilled on Electrical Appliances and Materials in the same Type Classification.

- 2) この適合同等証明書は、別紙に記載されている型式の区分の範囲内及び区分の組み合わせについてのみに有効です。

This Statement of Conformity Assessment is valid only for Electrical Appliances and Materials within the Type Classifications and their combination as stated in the attached "Type Classification".

一般財団法人 電気安全環境研究所  
Japan Electrical Safety & Environment Technology Laboratories (JET)

理事長 薦田 康久  
President Yasuhisa Komoda

東京都渋谷区代々木5-14-12  
(5-14-12, Yoyogi, Shibuya-ku, Tokyo, Japan)

証明書番号：JET2179-31003-2006



# 適合同等証明書別紙

Statement of Conformity Assessment

## 型式の区分

Type Classification

要素 Factor	区分 Classification
定格電圧 Rated voltage	(2) 125Vを超えるもの Exceeding 125V
定格電流（定格電流表示のあるものの場合に限る。） Rated current (limited to those with rated current markings)	(1) 5 A以下のもの 5A or less
適用電動機の定格容量（定格電流表示のないものの場合に限る。） Rated capacity of applicable motor (limited to those without rated current markings)	—
可溶体の主材料 Fuse element materials	(6) その他のもの Others
可溶体の数 Number of fuse elements	(1) 1のもの One
再使用（管形ヒューズを除く。） Reusability (excluding cartridge fuses)	—
内部充てん物 Filler materials	(1) あるもの With filler materials
筒（内筒を除く。）の材料 Outer cartridge materials	(3) 磁器のもの又はガラスのもの Ceramic or glass
端子 Terminals	(4) リード線付きのもの Lead terminal
排気孔 Exhausting opening	(2) ないもの Without exhausting opening
溶断の表示 Blowout fuse indicator	(2) ないもの Without blowout fuse indicator
用途 Application	(2) 電子機器用のもの For use in electric appliances
定格遮断電流 Rated breaking capacity	(5) 1,000Aを超え1,500A以下のもの Exceeding 1,000A, and less than or equal to 1,500A

証明書番号：JET2179-31003-2006

# 適合同等証明書

Statement of Conformity Assessment

電気用品安全法第8条第1項に規定する技術基準及び同法第9条第2項の経済産業省令で定める基準（法第9条第1項第2号に係る検査に係るものに限る）に適合していることを証明します

I hereby certify that the product mentioned below complies with the technical requirements stipulated in Paragraph 1 of Article 8 of Electrical Appliances and Materials Safety Act (here under referred to as the Act) and the requirements defined by the ordinance of the Ministry of Economy, Trade and Industry based on Paragraph 2 of Article 9 of the Act (limited to Item 2 of Paragraph 1 of Article 9 for Inspection of the Act).

1. 証明書番号： J E T 2 1 7 9 - 3 1 0 0 3 - 2 0 0 7  
Statement Number
2. 交付年月日： 平成29年 1月 5日  
Effective Date January 5, 2017
3. 有効年月日： 平成36年 1月 4日  
Date of Validity January 4, 2024
4. 申込者名 (Applicant)  
住所 (Address) 所： FENHU TECHNIC DEVELOPMENT ZONE WUJIANG, JIANGSU PROVINCE, CHINA

氏名又は名称： SUZHOU WALTER ELECTRONIC CO., LTD.  
Name

5. 特定電気用品名： 管形ヒューズ  
Name of Product Cartridge fuses
6. 型式の区分： 別紙のとおり  
Type Classification See attached "Type Classification"
7. 製造工場名 (Manufacturer)  
住所 (Address) 所： FENHU TECHNIC DEVELOPMENT ZONE WUJIANG, JIANGSU PROVINCE, CHINA

氏名又は名称： SUZHOU WALTER ELECTRONIC CO., LTD.  
Name

8. 適用試験規格： 電気用品の技術上の基準を定める省令の解釈  
Applied Standard for Testing Description of the technical requirements by the METI Ordinance  
別表第十二 J60127-1 (H26) 及び J60127-2 (H26)  
Appendix 12 J60127-1 (H26) and J60127-2 (H26)

9. 適合性検査の方法： (Testing Method for Conformity Assessment)

- 1) 試験用の特定電気用品については、電気用品の技術上の基準を定める省令の解釈に定める方法

With respect to testing for Category A products, the testing method is based on the technical requirements of the description of Electrical Appliances and Materials stipulated in the METI Ordinance.

- 2) 当該特定電気用品に係る届出事業者又は事業場における検査設備については、電気用品安全法施行規則別表第四の検査設備の欄に掲げる検査設備ごとにそれぞれ同表の技術上の基準の欄に掲げる方法

With respect to inspection facilities required for Category A products at the factory, Testing Method described in the column of the technical requirements for each inspection facilities in the column of inspection facilities is shown in the Appendix 4 of Enforcement Regulations of the Act.

10. 注意事項

- 1) この適合同等証明書は、提出された試験用の電気用品に関して評価を行った上で交付したものであり、同一の型式の区分にある電気用品について電気用品安全法第8条1項に規定する技術基準適合確認の義務を履行したことを示すものではありません。

This Statement of Conformity Assessment, which is issued on the evaluation of the submitted test-use Electrical Appliances and Materials, does not signify that the Obligation to Comply with Requirements, which is prescribed at Paragraph 1 of Article 8 of the Act, is fulfilled on Electrical Appliances and Materials in the same Type Classification.

- 2) この適合同等証明書は、別紙に記載されている型式の区分の範囲内及び区分の組み合わせについてのみ有効です。

This Statement of Conformity Assessment is valid only for Electrical Appliances and Materials within the Type Classifications and their combination as stated in the attached "Type Classification".

一般財団法人 電気安全環境研究所  
Japan Electrical Safety & Environment technology Laboratories (JET)

理事長 薦田 康久  
President Yasuhisa Komoda

東京都渋谷区代々木5-14-12  
(5-14-12, Yoyogi, Shibuya-ku, Tokyo, Japan)

証明書番号：JET2179-31003-2007

# 適合同等証明書別紙

Statement of Conformity Assessment

## 型式の区分

Type Classification

要素 Factor	区分 Classification
定格電圧 Rated voltage	(2) 125Vを超えるもの Exceeding 125V
定格電流（定格電流表示のあるものの場合に限る。） Rated current (limited to those with rated current markings)	(2) 5Aを超え15A以下のもの Exceeding 5A, and less than or equal to 15A
適用電動機の定格容量（定格電流表示のないものの場合に限る。） Rated capacity of applicable motor (limited to those without rated current markings)	—
可溶体の主材料 Fuse element materials	(6) その他のもの Others
可溶体の数 Number of fuse elements	(1) 1のもの One
再使用（管形ヒューズを除く。） Reusability (excluding cartridge fuses)	—
内部充てん物 Filler materials	(1) あるもの With filler materials
筒（内筒を除く。）の材料 Outer cartridge materials	(3) 磁器のもの又はガラスのもの Ceramic or glass
端子 Terminals	(4) リード線付きのもの Lead terminal
排気孔 Exhausting opening	(2) ないもの Without exhausting opening
溶断の表示 Blowout fuse indicator	(2) ないもの Without blowout fuse indicator
用途 Application	(2) 電子機器用のもの For use in electric appliances
定格遮断電流 Rated breaking capacity	(5) 1,000Aを超え1,500A以下のもの Exceeding 1,000A, and less than or equal to 1,500A



# 전기용품안전인증서

## Electrical Appliances Safety Certificate

인증번호 (Certificate No.) : SU05015-5002

접수번호 (Order No.) : 05-1920-3186

제조사명 (Manufacturer) : Suzhou Walter Electronic Co., Ltd.

공장소재지 (Factory Address) : Fenu, Technic Development Zone, Luxu Wu Jiang, Jiangsu, P.R.China

제품명 (Product) : 소형퓨즈(관형퓨즈) (Miniature fuse-link)

기본모델명 (Basic Model) : TSC 2.5A

정격 (Electrical Ratings) : AC250V-, 2.5A

파생모델명 (Series Model) : See the Attachment 1

적용기준 (Applied Standard) : K60127-1, K60127-2

- 첨부 : 1. 기본모델·파생모델의 내용 (General Descriptions of Certified Products)  
2. 전기용품안전인증서의 변경발급 현황 (Status of Compliance Certificate Revisions)

전기용품 안전관리법 제5조의 규정에 의하여 위의 전기용품에 대하여 안전인증서를 교부합니다.

We Certificate Electrical Appliances Safety Certification as above product by Article 5 of the Electrical Appliance Safety Control Law.

2005년 08월 05일  
year month day



안전인증기관  
산업기술시험원  
KOREA TESTING LABORATORY





첨부 1 : 기본모델-파생모델의 내용  
General description of Certified Products

파생모델명 Derivative Model	기본모델과의 차이점 Differences between the basic and derivative models
TSC 1A	A rated current is different from the basic model.
TSC 1.25A	A rated current is different from the basic model.
TSC 1.6A	A rated current is different from the basic model.
TSC 2.0A	A rated current is different from the basic model.
TSC 1A+P	A rated current is different from the basic model and adhere lead wire.
TSC 1.25A+P	A rated current is different from the basic model and adhere lead wire.
TSC 1.6A+P	A rated current is different from the basic model and adhere lead wire.
TSC 2.0A+P	A rated current is different from the basic model and adhere lead wire.
TSC 2.5A+P	adhere lead wire.
참고사항 Remarks	
1. Review Report No. 05-1920-3185 (2005. 07. 29) 2. Product Description - AC 250V~, 2.5A - Miniature fuse-link	
□ 본 제품의 시험내용에 관하여 문의하실 사항이 있으시면 아래 연락처로 문의하시기 바랍니다. 시험담당자 : 전기권자분부, 부품평가팀, 정문석 / (02)8601-406 □ If you have any question on product testing, please contact the person below : Job holder : Electro-Technical Center, Components Assessment Team, M.S. Jung /#82 2 8601-406	

첨부 2 : 전기용품안전인증서의 변경발급현황  
Status of Compliance Certificate Revisions

변경내용 Contents of Certificate Revision	변경일자 Revision Date
Not Applicable	



# 전기용품안전인증서

## Electrical Appliances Safety Certificate

안전인증번호  
(Certificate No.) : SU05015-5001

접수번호  
(Order No.) : 05-1920-3185

제조자명  
(Manufacturer) : Suzhou Waller Electronic Co., Ltd

공장소재지  
(Factory Address) : Fenhui Technic Development Zone, Luxu Wu Jiang, Jiangsu, P.R.China

제품명  
(Product) : 소형퓨즈(관형퓨즈) (Miniature fuse-link)

기본모델명  
(Basic Model) : TSC 6.3A

정격  
(Electrical Ratings) : AC250V~, 6.3A

과형모델명  
(Series Model) : See the Attachment 1

적용기준  
(Applied Standard) : K60127-1, K60127-2

- 첨부 : 1. 기본모델·과형모델의 내용 (General Descriptions of Certified Products)  
2. 전기용품안전인증서의 변경발급 현황 (Status of Compliance Certificate Revisions)

전기용품 안전관리법 제5조의 규정에 의하여 위의 전기용품에 대하여 안전인증서를 교부합니다.

We Certificate Electrical Appliances Safety Certification as above product by Article 6 of the Electrical Appliance Safety Control Law.

2005년 08월 05일  
year month day



안전인증기관  
산업기술시험원  
KOREA TESTING LABORATORY



첨부 1 : 기본모델·파생모델의 내용  
General description of Certified Products

파생모델명 Derivative model	기본모델과의 차이점 Difference between basic and derivative models
TSC 3,15A	A rated current is different from the basic model.
TSC 4A	A rated current is different from the basic model.
TSC 5A	A rated current is different from the basic model.
TSC 3,15A+P	A rated current is different from the basic model and adhere lead wire.
TSC 4A+P	A rated current is different from the basic model and adhere lead wire.
TSC 5A+P	A rated current is different from the basic model and adhere lead wire.
TSC 6,3A+P	adhere lead wire.
비고 Remarks	
1. Review Report No. 05-1920-3185 (2006. 07. 29) 2. Product Description - AC 250V~, 6.3A - Miniature fuse-link	
<input type="checkbox"/> 본 제품의 시험내용에 관하여 문의하실 사항이 있으시면 아래 연락처로 문의하시기 바랍니다. 시험담당자 : 권기찬/권부, 부품평가팀, 정문식 / (02)8601-406 <input type="checkbox"/> If you have any question on product testing, please contact the person below : Job holder : Electro-Technical Center, Components Assessment Team, M.S. Jung /+82 2 8601-406	

첨부 2 : 전기용품안전인증서의 변경발급현황  
Status of Compliance Certificate Revisions

변경발급 내용 Contents of Certificate Revisions	비고 Remarks
Not Applicable	