

1. 適用範圍 / SCOPE

MTP 系列保險絲，適用於一般電子設備。
MTP series Fuse, used in electronic equipment.



2. 產品型號 / TYPE

例「example」：



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

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

額定電流 / Rated Current:

15A、20A、25A、30A

額定電壓 / Rated Voltage:

250V AC

4. 標示 / MARKING

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


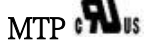


①規 格：額定電流+額定電壓

Specification：Rated Current + Rated Voltage

15A、20A、25A、30A： ___A 250V

②商 標：製造工廠的商標+系列號+認證符號

Trade mark：The Manufacture's Logo +Part Number + Approved Symbol.

20A、25A、30A：  MTP   

15A：  MTP  

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.

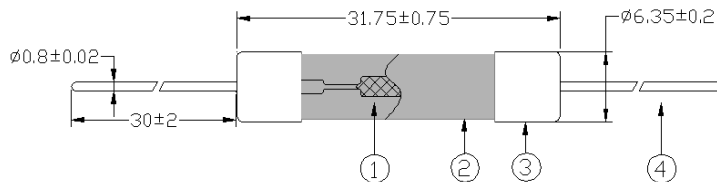
5-2 形狀：小型保險絲。

Configuration: Miniature-Fuse.

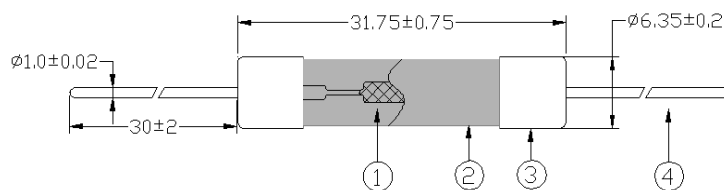
6. 工程圖和結構 / OUTLINE DRAWING AND STRUCTURE

6-1 工程圖 (單位 : mm) / Outline Drawing and Dimensions (Unit: mm)

15A:



20A~30A :



6-2 結構 / Structure

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

備注/Remarks: 25A/30A 採用有鉛高溫錫絲焊結/ 25A/30A uses a high-temperature lead tin wire bonding.

7. 產品特性 / PRODUCT CHARACTERISTICS

7-1 拉力測試 / Tensile test

軸向拉力 10 牛頓，持續 10 ±1 秒/ Pulling the cap of the fuse with 10N at axial direction keep 10±1sec.

7-2 推力測試 / Thrust test

軸向推力 2 牛頓，持續 10 ±1 秒/ Thrust two cap's bottom of the fuse with 2N at axial direction keep 10±1sec.

8. 電氣特性 / ELECTRICAL CHARACTERISTICS

熔斷/電流特性：Pre-Arcing Time / Current Characteristic



| RATED CURRENT | 1.35 IN | 2 IN | 10 IN |
|-----------------|---------|-------|-------|
| 15A、20A、25A、30A | Max. | Max. | Max. |
| | 1 Hour | 120 s | 150ms |

9. 環境特性 / ENVIRONMENTAL CHARACTERISTIC

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

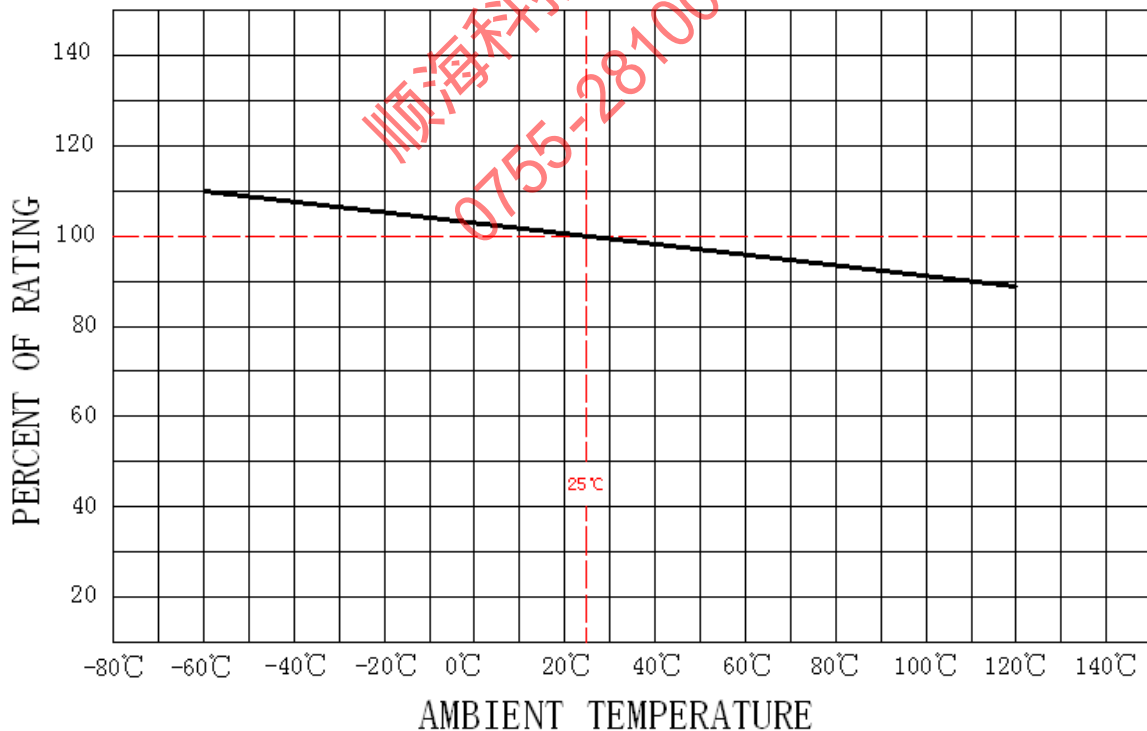
若貴司操作環境溫度超出25±5°C範圍，在選用保險絲規格時，需考慮操作環境溫度對保險絲的影響。

請參照：溫度-電流曲線圖。

When choosing the fuse's specification, if the operating environmental temperature beyond the scope from 20~30°C, you should consider the environmental temperature's affection to fuses.

Please refer:

Temperature-Current curve:



9-2 存儲條件 / Storage Conditions

在溫度+10°C ~ 60°C、相對濕度 ≤ 75%的密閉條件下可存放 3 年。
Under airtight in temperature+10°C ~ 60°C、relative humidity ≤ 75% can store 3 years.

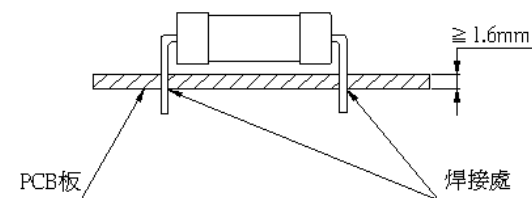
在溫度+10°C ~ 60°C、相對濕度為 95%的非露天下最多可存放 30 天。
Without dew in temperature+10°C ~ 60°C、relative humidity be 95% maximum value for 30days.



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

10-1 建議如下圖安裝方式安裝，並滿足所要求的尺寸。

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



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

波峰焊參數 / Wave Parameters:

錫爐溫度 / Solder Pot Temperature:

260°C Max

焊接時間 / Solder Dwell Time:

2~5s

手工焊參數 / Hand-Solder Parameters:

烙鐵溫度 / Solder Iron Temperature:

350±5°C

焊接時間 / Heating Time:

5 s Max

順海科技
0755-28100016

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 |
| TUV | J50305728 |
| PSE | JET2179-31003-1018(20A、25A、30A) |

13. 包裝 / PACKING

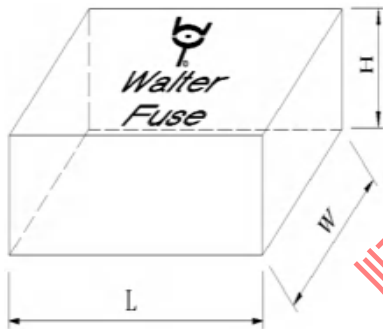
13-1 包裝數量 / Packing Quantity

A：每內盒裝 250 保險絲。
250cs per inner box .

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



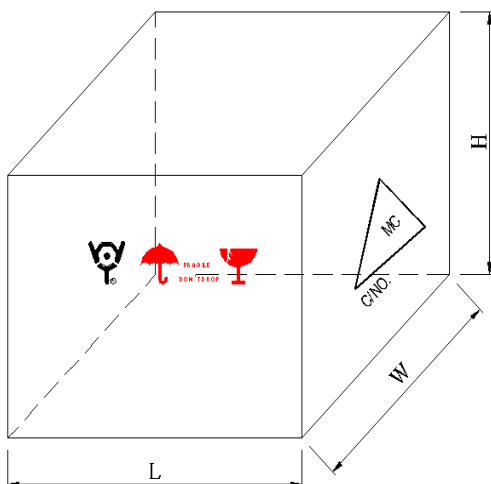
13-2 內包裝盒/Inner box of packing



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.



順海科技
0755-28100016

| 版次 | 製作 | 確認 | 審核 |
|-----|----|-----|----------|
| 第八版 | 饒紅 | 蔡明威 | Eris Kuo |



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

MTP

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> |
|----------------------------|--------------------|---------------------|--|
| 6.35 x 31.75 (0.25 x 1.25) | 15 - 20 | 250Vac | 1500 |
| | 25 - 30 | 250Vac | 500 |

Report Date: 2013-05-06

Last Revised: 2019-07-22

© 2019 UL LLC



顺海科技
0755-28100016

Zertifikat

mit überwachter Konformität

Certificate

of surveyed conformity



Zertifikat Nr. Certificate No.
J 50305728

Blatt Page
0001

Ihr Zeichen Client Reference

Unser Zeichen Our Reference

Ausstellungsdatum

Date of Issue
(day/mo/yr)

05-YFC- 16066653 001

26.03.2015

Genehmigungsinhaber License Holder

Walter Electronic Co., Ltd.
2nd FL. 97 Chung King N RD., Sec. 4
Taipei
Taiwan

Fertigungsstätte Manufacturing Plant

Dongguan Walter Electric Co., Ltd.
Yantian Village, Fenggang Town
Dongguan, Guangdong 523702
P.R. China

Prüfzeichen Test Mark

Geprüft nach Tested acc. to



EN 60127-1:2006+A1
EN 60127-7:2013

Zertifiziertes Produkt (Geräteidentifikation)
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

(Miniature fuse-links)

| | | |
|-------------------------|----------------------------|---|
| Type Designation | : MTP | 5 |
| Trademark | : Walter (Logo) Walter | |
| Rated Voltage | : AC 250V | |
| Rated Current | : (1)15A; 20A; (2)25A; 30A | 4 |
| T/I Characteristic | : t2=120s; t8=150ms | |
| Rated Breaking Capacity | : (1)1500A; (2)100A | |

Remark : The labelling requirements acc. to EU Directive 2001/95 have to be observed for distribution within the EEA.
The installation has to be carried out according to installation instruction accompanying the products.

9

ANLAGE (Appendix) : 1

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde.
Das Produkt entspricht den o.g. Anforderungen, die Herstellung wird überwacht.
This certificate is based on our Testing and Certification Regulation. The product fulfills above mentioned requirements, the production is subject to surveillance.



TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg
Tel.: +49 221 806-1371 e-mail: cert-validity@de.tuv.com
Fax: +49 221 806-3935 http://www.tuv.com/safety

G. Yin

Zertifikat

mit überwachter Konformität

Certificate

of surveyed conformity



Zertifikat Nr. *Certificate No.*
J 50305728

Blatt *Page*
0002

Ihr Zeichen *Client Reference*

Unser Zeichen *Our Reference*

Ausstellungsdatum

Date of Issue
(day/mo/yr)

05-YFC- 16066653 002

18.08.2017

Genehmigungsinhaber *License Holder*

Walter Electronic Co., Ltd.
2nd FL. 97 Chung King N RD., Sec. 4
Taipei
Taiwan

Fertigungsstätte *Manufacturing Plant*

Dongguan Walter Electric Co., Ltd.
Yantian Village, Fenggang Town
Dongguan, Guangdong 523702
P. R. China

Prüfzeichen *Test Mark*



Geprüft nach *Tested acc. to*

EN 60127-1:2006+A1+A2
EN 60127-7:2016

Zertifiziertes Produkt (Geräteidentifikation)
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

(Miniature fuse-links)

Change

Test Requirement : see above

Remark : The labelling requirements acc. to EU Directive 2001/95 have to be observed for distribution within the EEA. The installation has to be carried out according to installation instruction accompanying the products.

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde.
Das Produkt entspricht den o.g. Anforderungen die Herstellung wird überwacht.
This certificate is based on our Testing and Certification Regulation. The product fulfills above mentioned requirements. the production is subject to surveillance.

TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg
Tel.: +49 221 806-1371 e-mail: cert-validity@de.tuv.com
Fax: +49 221 806-3935 http://www.tuv.com/safety



Zertifikat
mit überwachter Konformität

Certificate
of surveyed conformity



Zertifikat Nr. *Certificate No.*
J 50305728

Blatt *Page*
0003

Ihr Zeichen *Client Reference*

Unser Zeichen *Our Reference*
05-YFC- 16066653 003

Ausstellungsdatum
09.11.2017

Date of Issue
(day/mo/yr)

Genehmigungsinhaber *License Holder*

Walter Electronic Co., Ltd.
2nd FL. 97 Chung King N RD., Sec. 4
Taipei
Taiwan

Fertigungsstätte *Manufacturing Plant*

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

Prüfzeichen *Test Mark*



Geprüft nach *Tested acc. to*

EN 60127-1:2006+A1+A2
EN 60127-7:2016

Zertifiziertes Produkt *(Geräteidentifikation)*
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

(Miniature fuse-links)

Addition

Name and address of factory : see above

Remark : The labelling requirements acc. to EU Directive 2001/95 have to be observed for distribution within the EEA. The installation has to be carried out according to installation instruction accompanying the products.

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde.
Das Produkt entspricht den o.g. Anforderungen, die Herstellung wird überwacht.
This certificate is based on our Testing and Certification Regulation. The product fulfills above mentioned requirements, the production is subject to surveillance.

TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg
Tel : +49 221 806-1371 e-mail. cert-validity@de.tuv.com
Fax +49 221 806-3935 http://www.tuv.com/safety



Zertifikat **Certificate**
mit überwachter Konformität *of surveyed conformity*



Zertifikat Nr. *Certificate No.*
J 50305728

Blatt *Page*
0004

Ihr Zeichen *Client Reference*

Unser Zeichen *Our Reference*
05-YFC- 16066653 004

Ausstellungsdatum
17.07.2018

Date of Issue
(day/mo/yr)

Genehmigungsinhaber *License Holder*

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

Fertigungsstätte *Manufacturing Plant*

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

Prüfzeichen *Test Mark*



Geprüft nach *Tested acc. to*

EN 60127-1:2006+A1+A2
EN 60127-7:2016

Zertifiziertes Produkt (Geräteidentifikation)
Certified Product (Product Identification)

(Miniature fuse-links)

as pages 0001-0003

Change

Name and address of License Holder : see above

Lizenzentgelte - Einheit
License Fee - Unit

Remark : The labelling requirements acc. to EU Directive 2001/95 have to be observed for distribution within the EEA. The installation has to be carried out according to installation instruction accompanying the products.

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde.
Das Produkt entspricht den o.g. Anforderungen, die Herstellung wird überwacht.
This certificate is based on our Testing and Certification Regulation. The product fulfills above mentioned requirements, the production is subject to surveillance.

TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg
Tel.: +49 221 806-1371 e-mail: ccrt-validity@dc.tuv.com
Fax: +49 221 806-3935 http://www.tuv.com/safety



顺海科技
0755-28100016

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: JET2179-31003-1018
Statement Number
2. 交付年月日: 2018年11月13日
Effective Date November 13, 2018
3. 有効年月日: 2025年11月12日
Date of Validity November 12, 2025
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
別表第三2

Appendix 3 Section 2

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".

順海科技
0755-28100016

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：JET2179-31003-1018

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) | (3) 15Aを超え30A以下のもの Exceeding 15A, and less than or equal to 30A |
| 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 | (5) 銅のもの Copper |
| 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 | (3) 300Aを超え500A以下のもの Exceeding 300A, and less than or equal to 500A |

証明書番号：JET2179-31003-1018