

1. 适用范围 / SCOPE

6125FA 系列快断型保险丝，适用于一般电子设备。

6125FA series Inrush Fuse, used in electronic equipment.

2. 产品编码 / Part Numbering

例「example」：

6125FA	0.5A	250V/300V	
1	2	3	4

①系列号/Series Number

②额定电流/Rated Current

③额定电压/Rated Voltage

④认证符号/Approved Symbol

3. 额定电流和额定电压/ RATED CURRENT AND RATED VOLTAGE

额定电流 / Rated Current:

50mA~30A

额定电压 / Rated Voltage:

50mA~30A :65V/125 V dc

50mA~30A :125V/250V/300V ac

4. 标示 / MARKING

保险丝上需有下列标示/The fuses shall have the following marking

① 产品系列标识 / Series type Logo : L B

② 额定电流 / Rated Current (A): __ A

注意 / Note: 对标示的大小和位置没有规定 / Size and position of the markings shall not be provided.

5. 外观及形状 / APPEARANCES AND CONFIGURATION

5-1 外观：无显著的污点、铁锈或裂纹; 标示应容易辨识。

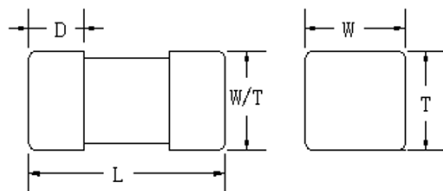
Appearances: There shall not be any remarkable stain, rust or crack on the appearances; marking shall be easily legible.

5-2 形状：表面贴装式保险丝

Configuration: Surface Mount Fuse.

6. 工程图和结构 / OUTLINE DRAWING AND STRUCTURE

6-1 工程图（单位：mm） / Outline Drawing and Dimensions (Unit: mm)



L (mm)	W (mm)	T (mm)	D (mm)
6.10±0.30	2.60±0.20	2.60±0.20	1.60±0.20

6-2 结构 / Structure

编号 No	元件 Component	材质 Material	数量 Quantity
1	本体 Body	陶瓷管 Ceramic tube	1
2	铜帽 Cap	黄铜镀银 Brass with silver plated	2

7. 产品特性 / PRODUCT CHARACTERISTICS

编号 No.	项目 Item	内容 Content	参考标准 Reference standard
1	绝缘阻抗 Insulation resistance	10,000 ohms minimum	MIL-STD-202G, Method 302 Test Condition A
2	可焊性 Solderability	T=240°C±5°C, t=3+0/-0.5s, Cover ≥95%	MIL-STD-202G, Method 208H
3	耐焊接热 Soldering heat resistance	10 sec at 260°C ΔR :<10%	MIL-STD-202G, Method 210F Test Condition B
4	热冲击 Thermal Shock	100 cycles between -65°C/+125°C 60 minutes ; each extreme ΔR :<10%	IEC 60068-2-14
5	高/低温储存 High/Low Temperature Storage	T=125°C±2°C, 96hours , T=-55°C±3°C, 96hours ΔR :<10%	IEC60068-2-1 / IEC60068-2-2
6	高温操作 High Temperature Operating Life	T=70°C±2°C, 0.6In, 96hours ΔR :<10%	MIL-STD-202 Method 108
7	耐湿性 Humidity(steady state)	T=40°C±2°C, 90%~95%RH, 1000hours ΔR :<10%	MIL-STD-202 Method 103
8	盐雾实验 Salt spray	5% salt solution , 48hours ΔR :<10%	MIL-STD-202G,Method 101E, Test Condition B

8. 电气特性 / ELECTRICAL CHARACTERISTICS

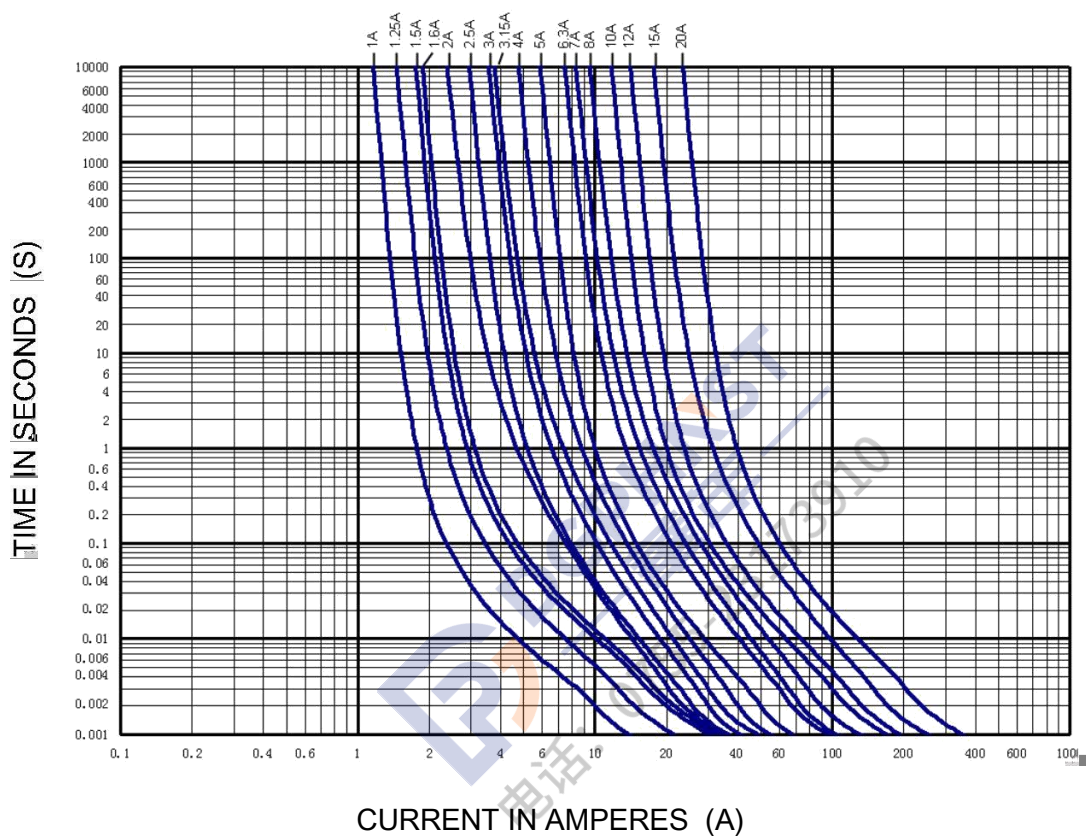
8-1 熔断 / 电流特性: Pre-Arcing Time / Current Characteristic (limits)

RATED CURRENT	1 IN/倍	2.0 IN/倍	10 IN/倍
50mA to 30A	Min.	Max.	Max.
	4hrs	60s	10ms

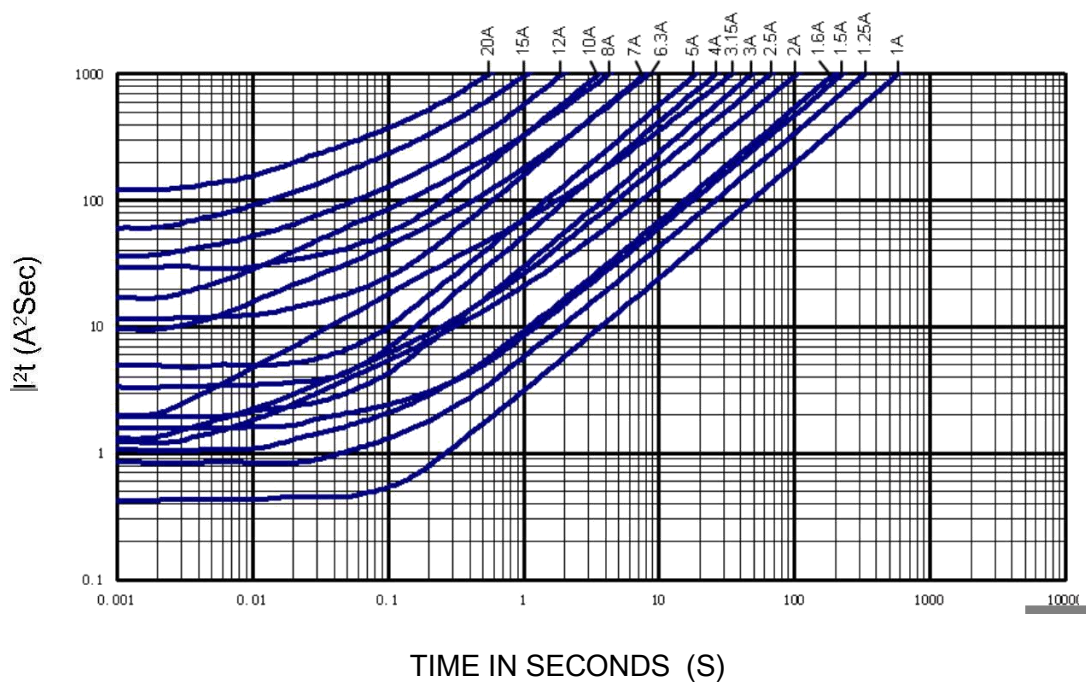
8-2 产品规格/Specification

Rated Current 额定电流	Rated Voltage 额定电压	Breaking Capacity 分断能力	Safety Approvals 安全认证		
					
50mA~400mA	250V/300V	UL: 50mA~30A 100A@300V AC 100A@125V DC TUV&CQC: 规格<3.15A 35A@250V AC 35A@125V DC 规格>3.15A 10 IN@250V AC 10 IN@125V DC	●	○	○
500mA	250V/300V		●	●	●
630mA	250V/300V		●	○	○
750mA	250V/300V		●	○	○
800mA	250V/300V		●	○	○
1A	250V/300V		●	●	●
1.25A	250V/300V		●	●	●
1.6A	250V/300V		●	●	●
2.0A	250V/300V		●	●	●
2.5A	250V/300V		●	●	●
3.0A	250V/300V		●	○	○
3.15A	250V/300V		●	●	●
4A	250V/300V		●	●	●
5A	250V/300V		●	●	●
6.3A	250V/300V		●	●	●
7A	250V/300V		●	○	○
8A	250V/300V		●	●	●
10A	250V/300V		●	●	●
12.5A	250V/300V		●	●	●
15A	250V/300V		●	●	●
18A、20A、 25A、30A	250V/300V		●	○	○

8-3 I-t 图/CHARACTERISTICS DIAGRAM(I-t)



8-4 I^2t -t 图/CHARACTERISTICS DIAGRAM(I^2t -t)



9. 环境特性 / ENVIRONMENTAL CHARACTERISTIC

操作温度范围: -55℃~125℃ / Operating Temperature:-55℃~125℃

若贵司操作环境温度超出 $25\pm 5^{\circ}\text{C}$ 范围, 在选用保险丝规格时, 需考虑操作环境温度对保险丝的影响。

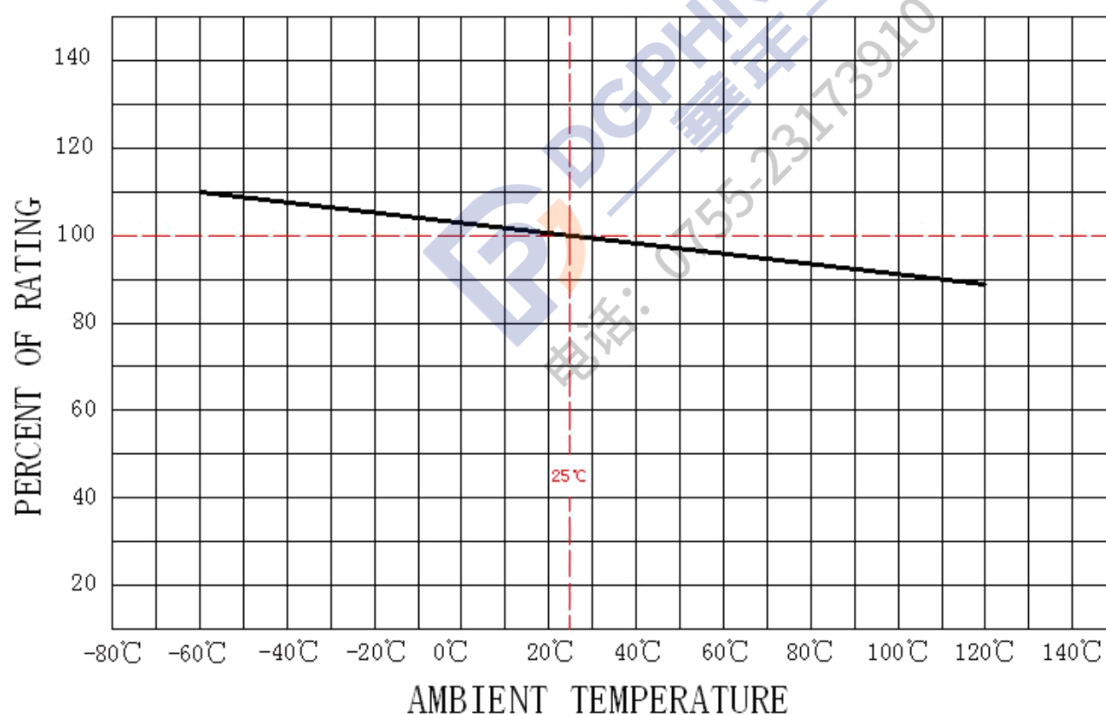
请参照: 温度-电流曲线图。

When choosing the fuse's specification, if the operating environmental temperature beyond the scope from 20~30℃,

you should consider the environmental temperature's affection to fuses.

please refer:

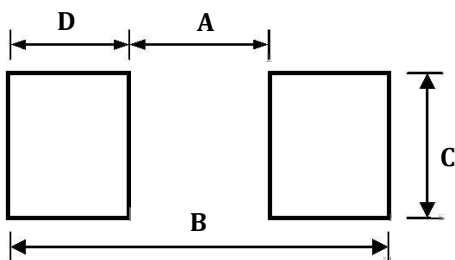
Temperature-Current curve:



10. 安装方式及条件 / INSTALLATION WAY AND PARAMETERS

10-1 建议如下图安装方式安装, 并满足所要求的尺寸。

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



Dimensions	A (mm)	B (mm)	C (mm)	D (mm)
6125FA	3.00±0.30	8.00±0.30	3.00±0.30	2.50±0.30

10-2 建议客户焊接参数 / Recommended Customer Soldering Parameters

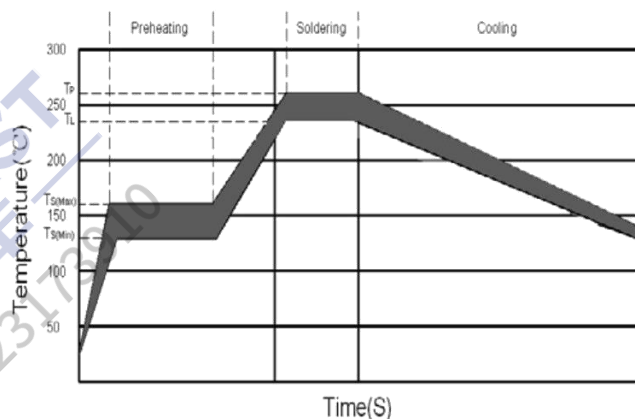
1. Infrared Reflow:

Temperature: 260°C

Time: 5sec Max.

Recommend Reflow profile

Reflow Condition		Pb-Free assembly
Preheating	-Temperature Min (Ts(min))	150 °C
	-Temperature Max (Ts(max))	200 °C
	-Time	60~120 Secs
Soldering	-Temperature (TL)(Liquidus)	235 °C
	-Time Max (TL)	20~40Secs
	-Peak Temperature (Tp)	Max 260 °C
	-Time Max (Tp)	5 Secs



2. Wave soldering

Reservoir Temperature: 260°C

Time in Reservoir: 10sec Max.

3. Hand Soldering :

Temperature: 300°C

Time: 2sec Max.

Soldering iron avoid touch Brass Cap.

11. 其他使用注意事项 / OTHER NOTICE IN USED

符合本公司可能的其它文件的要求。

It could be in conformance with another file which made by our company.

12. 安全认证及编号 / STANDARDS AND APPROVALS

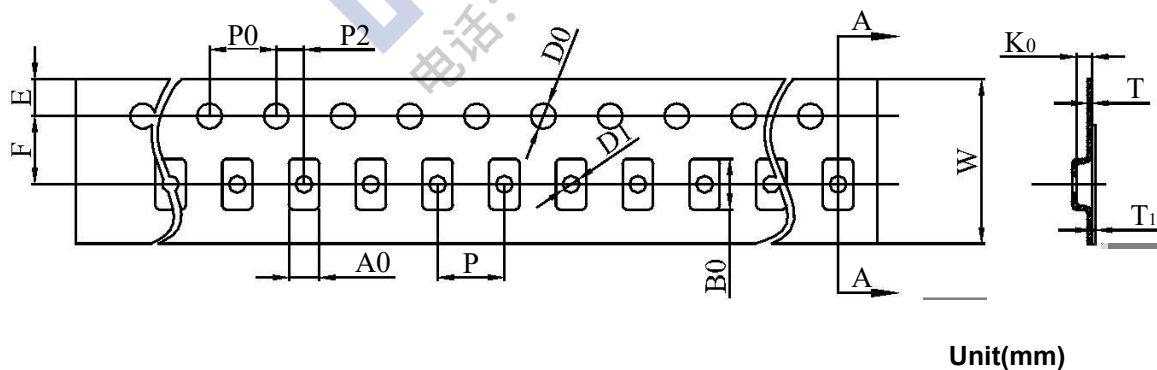
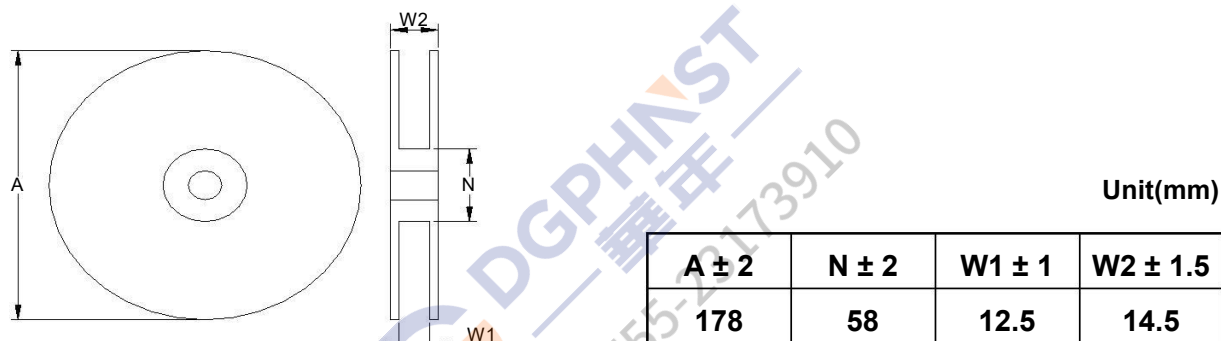
UL	NO. E213695
TUV	R504687690001
CQC	CQC20012246238

13. 包装讯息 / PACKING INFORMATION

13-1 包装数量、重量 / QUANTITY & WEIGHT

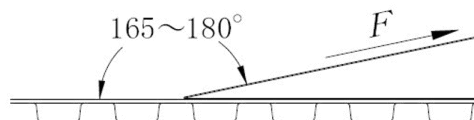
型号 Type Number	数量(pcs) Quantity(pcs)
6125FA	1,000

13-2 卷轮规格/ Reel & Tape specifications



13-3 密封胶膜剥离强度要求 / Peeling Strength of Seal Tape

F = 剥离强度 : 0.1 – 1.0N (10 - 100gf)



14.其他 / OTHERS

14-1 如果在使用中有超出本规格书的要求，必须经由双方协商确认。

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

14-2 如果本规格书有不适当的情况，必须通过双方协商并由本公司修改。

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

DGPHNS
— 華年 —
电话: 0755-23173910

版次	制作	确认	审核
第 1 版	赖秋莲 2020/11/19	谢海林 2020/11/19	熊士军 2020/11/19



UL iQ for Fuses



Fuses

E213695

Guide Information

ZHONG SHAN LANBAO ELECTRICAL APPLIANCES CO LTD

West Xing Pu Rd, Huang Pu, Zhongshan Guangdong 528429 CN

6125SB, 6125FA

Supplemental micro fuses: surface mount

<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>
6.5 x 2.8 x 2.8 (0.26 x 0.11 x 0.11)	0.05 - 30	300Vac	100
	0.05 - 30	250Vac	100
	0.05 - 30	125Vac	100
	0.05 - 30	125Vdc	100
	0.05 - 30	65Vdc	100

Report Date: 2019-08-15

Last Revised: 2019-08-21

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Zhongshan Lanbao Electrical
Appliances Co., Ltd.
Shijun Xiong

Date : 02.06.2020
Our ref. : YFC 05
Your ref.:

No.102 Xingpu Road, Huangpu Town
Zhongshan
528429 Guangdong
P.R. China

Ref : R TÜV-Mark Approval

Type of Equipment : Miniature fuse-links
Model Designation : See Certificate
Certificate No. : R 50468769 0001
Report No. : 60355661 001

Dear Shijun Xiong,

The above specified technical equipment has been tested and found to be in accordance with the relevant requirements.

Enclosed you will find the certificate of approval.

If cancellation of the certificate is submitted by November 15 in a given year, no fee will be charged for the following year.

We appreciate your kind support and would like to offer our assistance and continuous services in the future.

Please contact our office for approval of your new products.

With kind regards,

Certification Body

G. Yin

Enclosure

证书的详细资料请登陆www.tuvdotcom.com查阅,或拨打我司客服热线800 999 3668 / 400 883 1300咨询

Zertifikat

Certificate



Zertifikat Nr. *Certificate No.*
R 50468769

Blatt *Sheet*
0001

Ihr Zeichen *Client Reference*

Unser Zeichen *Our Reference*
05-YFC-60355661 001

Ausstellungsdatum
02.06.2020

Date of Issue
(day/mo/yr)

Genehmigungsinhaber *License Holder*

Zhongshan Lanbao Electrical
Appliances Co., Ltd.
No.102 Xingpu Road, Huangpu Town
Zhongshan
528429 Guangdong
P.R. China

Fertigungsstätte *Manufacturing Plant*

Zhongshan Lanbao Electrical
Appliances Co., Ltd.
No.102 Xingpu Road, Huangpu Town
Zhongshan
528429 Guangdong
P.R. China

Prüfzeichen *Test Mark*



Geprüft nach *Tested acc. to*

EN 60127-1:2006+A1+A2
EN 60127-7:2016
IEC 60127-1:2006+A1+A2
IEC 60127-7:2015

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

**Lizenzentgelte - Einheit
*License Fee - Unit***

Fuse Link (Miniature fuse-links)

Type Designation : 6125SB 6125FA
Trademark : LB
Rated Voltage : AC 250V, DC 125V
Rated Current(In) : 500mA; 1A; 1,25A; 1,6A; 2A; 2,5A
3,15A; 4A; 5A; 6,3A; 8A; 10A;
12,5A; 15A
T/I Characteristic : see appendix 1
Rated Breaking Capacity : 35A or 10In, whichever is greater
Dimension : 6,1mmx2,6mm, without pigtail

15

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.

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ANLAGE (Appendix): 1

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde und es bestätigt die Konformität des Produktes mit den oben genannten Standards und Prüfgrundlagen. Zusätzliche Anforderungen in Ländern, in denen das Produkt in Verkehr gebracht werden soll, müssen zusätzlich betrachtet werden. Die Herstellung des zertifizierten Produktes wird überwacht. This certificate is based on our Testing and Certification Regulation and states the conformity of the product with the standards and testing requirements as indicated above. Any additional requirements in countries where the product is going to be marketed have to be considered additionally. The manufacturing of the certified product 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



证书编号: CQC20012246238

申请人名称及地址

中山市蓝宝电器有限公司
中山市黄圃镇兴圃大道西 102 号之三

制造商名称及地址

中山市蓝宝电器有限公司
中山市黄圃镇兴圃大道西 102 号之三

生产企业名称及地址

中山市蓝宝电器有限公司 (V002199)
中山市黄圃镇兴圃大道西 102 号之三

产品名称和系列、规格、型号

特殊应用的小型熔断体

6125SB/6125FA 500mA a.c. 250V/d.c. 125V、6125SB/6125FA 1A a.c. 250V/d.c. 125V、6125SB/6125FA 1.25A a.c. 250V/d.c. 125V、6125SB/6125FA 1.6A a.c. 250V/d.c. 125V、6125SB/6125FA 2A a.c. 250V/d.c. 125V、6125SB/6125FA 2.5A a.c. 250V/d.c. 125V、6125SB/6125FA 3.15A a.c. 250V/d.c. 125V、6125SB/6125FA 4A a.c. 250V/d.c. 125V、6125SB/6125FA 5A a.c. 250V/d.c. 125V、6125SB/6125FA 6.3A a.c. 250V/d.c. 125V、6125SB/6125FA 8A a.c. 250V/d.c. 125V、6125SB/6125FA 10A a.c. 250V/d.c. 125V、6125SB/6125FA 12.5A a.c. 250V/d.c. 125V、6125SB/6125FA 15A a.c. 250V/d.c. 125V(额定分断能力: 35A 或 10In 取较大值, 主要尺寸: 6.1mm×2.6mm×2.6mm)

产品标准和技术要求

GB/T 9364. 1-2015; GB/T 9364. 7-2016

认证模式

产品型式试验+获证后监督

上述产品符合 CQC11-462125-2018 认证规则的要求, 特发此证。

发证日期: 2020 年 05 月 12 日 有效期至: 2025 年 05 月 12 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。

主任:

陆梅



中国质量认证中心

中国·北京·南四环西路 188 号 9 区 100070

<http://www.cqc.com.cn>

C 0256484