



深圳市蓝宝安科电子有限公司

Shenzhen LanbaoAnke Electronics Co.,Ltd.

承 认 书

APPROVAL SHEET

编号 NO.	LB-RF30-02
版次 Ver.	A/3

客户 Customer	
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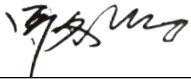
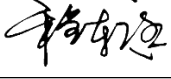
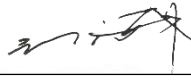
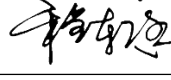
品名 Product	玻璃管保险丝
系列 Series	RFI-30

料号Part No.	规格描述Specification	备注Remark
蓝宝 LB fuse		
客 户 Customer		

供应商-蓝宝 Supplier-LB fuse	零件承认章 Approval Signet	客户 Customer	零件承认章 Approval Signet
制作 Make			
审查 Check			
批准 Approval			

联络Contact			
业务Sales	电话Telephone	手机Cellphone	邮箱E-mail
			lanbaofuse@163.com
零件承认后敬请回签一份给我司留存。			

History of Change变更记录

NO.	日期 Date	描述 Description	版次 Edition	修改 modified by	审核 Checked by
1	2020.12.07	新制订	A/1		
2	2023.04.03	更改为新封面	A/2		
3	2023.12.15	新增14.2 PN编码规则	A/3		
4					
5					
6					
7					
8					
9					
10					
11					

1. 适用范围 / SCOPE

RFI-30 系列保险丝，适用于一般电子设备。
RFI-30 series Fuse, used in electronic equipment.

2. 产品型号 / TYPE

例「example」：

RFI-30	F	2A	250V	  
1	2	3	4	5

- ①系列号/Series Number
- ②特性符号/Characteristic Symbol
- ③额定电流/Rated Current
- ④额定电压/Rated Voltage
- ⑤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:

100mA~20A

额定电压 / Rated Voltage:

250V AC

4. 标示 / MARKING

保险丝两端铜帽上需有下列标示 / The fuses cap shall have the following marking:

①规 格：额定电流+额定电压

Specification: Rated Current + Rated Voltage

100mA~20A : ____ A 250V

②商 标：制造工厂的商标+系列号+认证符号

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

100mA~20A :    

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：不应有破碎、明显的污斑。

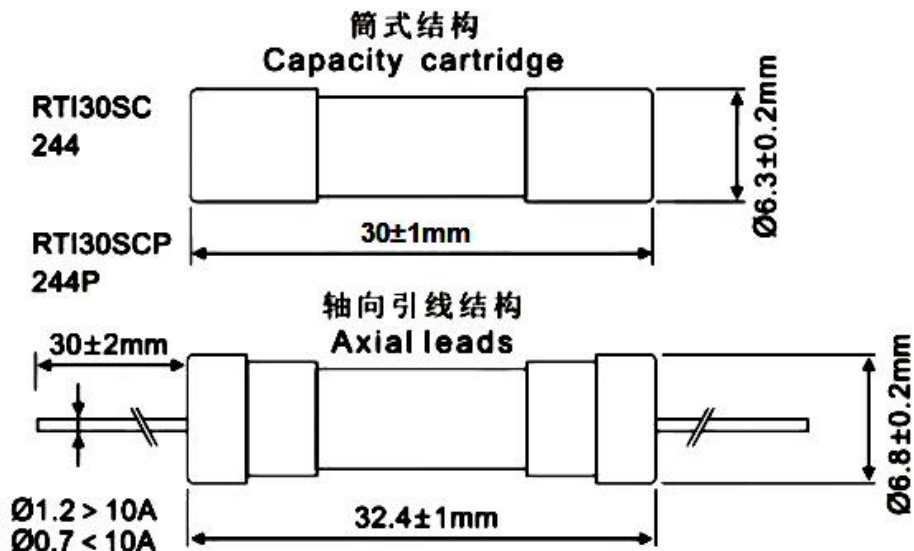
Appearances: There shall not be break up and any remarkable blotch.

5-2 形状：小型保险丝。

Configuration: Miniature-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)



6-2 结构 / Structure

编号 No	元件 Component	材质 Material	数量 Quantity
①	熔丝 Wire	合金 Alloy	1
②	铜帽 Cap	黄铜镀镍 Brass with nickel plated	2
③	本体 Body	玻璃管 Glass Tube	1
④	引线 Lead	镀锡铜线 Tinned Copper wire	2
⑤	填充物 Lead	石英砂 Quartz sand	选装项

7. 产品特性 / PRODUCT CHARACTERISTICS

7-1 拉力测试 / Tensile test

轴向拉力 10 牛顿，持续 10 ± 1 秒 / Pulling the cap of the fuse with 10N at axial direction keep $10 \pm 1 \text{ sec}$.

7-2 推力测试 / Thrust test

轴向推力 2 牛顿，持续 10 ± 1 秒 / Thrust two cap's bottom of the fuse with 2N at axial direction keep $10 \pm 1 \text{ sec}$.

8. 电气特性 / ELECTRICAL CHARACTERISTICS

熔断/电流特性: Pre-Arcing Time / Current Characteristic

(In accordance with UI 248-1/-14 standard/遵循UL 248-1/-14)

RATED CURRENT	1 IN/倍	1.35 IN/倍	2 IN/倍	10 IN/倍
	Min.	Min.	Max.	Max.
100mA to 21A	4hrs	1hrs	120sec	10ms

9. 环境特性 / ENVIRONMENTAL CHARACTERISTIC

9-1 操作温度范围: -55℃~125℃ / Operating Temperature:-55℃~125℃

若贵司操作环境温度超出25±5℃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。

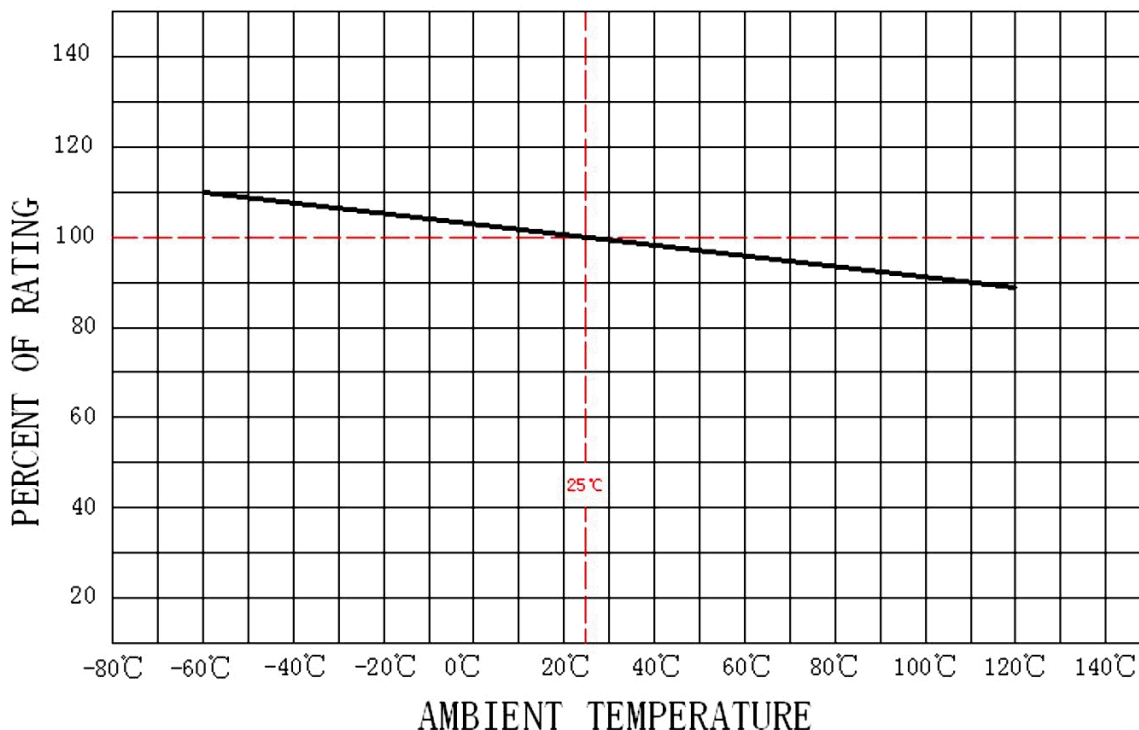
请参照: 温度-电流曲线图。

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:



9-2 存储条件 / Storage Conditions

在温度+10℃~60℃、相对湿度 $\leq 75\%$ 的密闭条件下可存放 3 年。

Under aiRFlight in temperature+10℃~60℃、relative humidity $\leq 75\%$ can store 3 years.

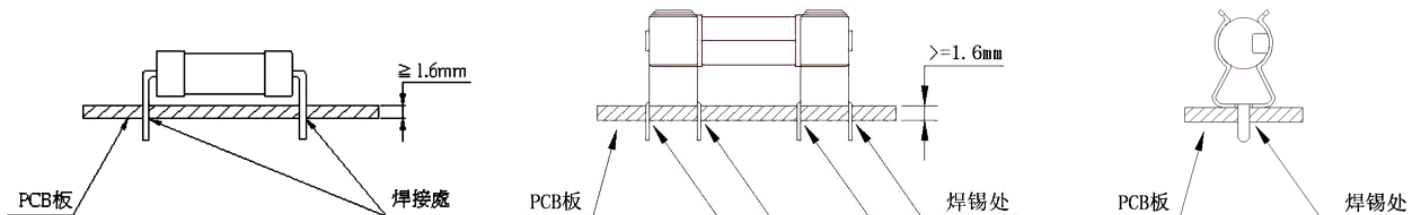
在温度+10℃~60℃、相对湿度为 95%的非露天下最多可存放 30 天。

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

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.



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

波峰焊参数 / Wave Parameters:

锡炉温度 / Solder Pot Temperature:

260℃ Max

焊接时间 / Solder Dwell Time:

2~5s

手工焊参数 / Hand-Solder Parameters:

烙铁温度 / Solder Iron Temperature:

350 $\pm$ 5℃

焊接时间 / Heating Time:

5 s Max

11.其他使用注意事项 / OTHER NOTICE IN USED

如果需在保险丝上加热缩套管，烘烤温度与时间需参照以下规定

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

温度 temperature	120℃	130℃	140℃	150℃	160℃	170℃	180℃
时间/time	Max 80s	Max 75s	Max 70s	Max 65s	Max 60s	Max 55s	Max 50s

12. 安全认证编号及分断能力 / SECURITY AUTHENTICATION CODE AND BREAKING CAPACITY

UL	E213695 (100mA~15A)	100A/250V AC
CQC	CQC19012234540 (2.5A、4A、6.3A)	35A/10IN@250V AC
KC	JU05001-3009D (1A~21A)	100A@250V AC

13. 包装 / PACKING

13-1 包装数量 / Packing Quantity

- A: 每内盒装 250 保险丝。
250cs per inner box .
- B: 每外箱装 20 保险丝。
20nner boxes per outer box .

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 PN编码规则见下表所示。

The PN encoding rules are shown in the table below

1	Part Numbering System (编码结构)						
2	FULL DESCRIPTION FORMAT (详细内容描述格式)						
	制造商Manufacturer	Series系列	Rated current额定电流	Rated voltage额定电压	Moulding&Packaging成型&包装	-	补充码
	xx	xxxxx	xxxx	x	xx		XX
	LB	RTG20	0125=125mA	A=250V	00=平头 散装		01=装砂防爆
		RTC20	1125=1.25A	B=125V	01=带常规引线 30mm 散装		
		RFG20	2125=12.5A	P=400V	02=带引线加长 38mm 散装		
		RFC20		R=500V	03=带引线加长 52mm 散装		
		RTG30		S=600V	04=带引线加粗 0.8 散装		
		RTC30		V=750V	05=带引线加粗 1.0 散装		
		RFG30			06=带引线加粗 1.2 散装		
		RFC30			07=立式成型 散装		
		630			08=卧式成型 散装		
					09=本体加套管卧式成型		
					10=本体及引线加套管立式成型		
3	Example例如:						
	P/N	RTG201200A00					
	规格描述	LB品牌 RTI-20 2A250V玻管保险丝 平头 散装					
	P/N	RTC201200A01-01					
	规格描述	LB品牌 RTI-20 2A250V陶瓷管保险丝 带常规引线 散装 装砂防爆					
	P/N	LB6302100V00					
	规格描述	LB品牌 LB630 10A750V 陶瓷管保险丝 平头散装					

14-3 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.

版次	制作	确认	审核
第三版	赖秋莲 2020/12/07	谢海林 2020/12/07	熊士军 2020/12/07



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

RFI-30

Supplemental fuses

<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>
6.3 x 32 (0.25 x 1.26)	0.1 - 10	250Vac	100
	12 - 15	250Vac	100

Report Date: 2002-10-16

Last Revised: 2012-10-18

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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

3F

Supplemental fuses

<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>
6.3 x 32 (0.25 x 1.26)	0.1 - 10	250Vac	100
	12 - 15	250Vac	100

Report Date: 2002-10-16

Last Revised: 2012-10-18

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产品认证证书

证书编号: CQC19012234540

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 (管状)

RFI-30 2.5A a.c. 250V、RFI-30 4A a.c. 250V、RFI-30 6.3A a.c. 250V (额定分断能力: 35A 或 10In,
取较大值, 主要尺寸: $\Phi 6.3\text{mm} \times 32\text{mm}$)

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+初次工厂检查+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: 2019 年 12 月 26 日

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 0186155



PRODUCT CERTIFICATE

CERTIFICATE NO.: CQC19012234540

NAME AND ADDRESS OF THE APPLICANT

Zhongshan Lanbao Electrical Appliances Co., Ltd.
No.3, West 102, Xingpu Road, Huangpu Town, Zhongshan City, Guangdong Province

NAME AND ADDRESS OF THE MANUFACTURER

Zhongshan Lanbao Electrical Appliances Co., Ltd.
No.3, West 102, Xingpu Road, Huangpu Town, Zhongshan City, Guangdong Province

NAME AND ADDRESS OF THE FACTORY

Zhongshan Lanbao Electrical Appliances Co., Ltd. (V002199)
No.3, West 102, Xingpu Road, Huangpu Town, Zhongshan City, Guangdong Province

PRODUCT NAME, MODEL AND SPECIFICATION

Miniature fuse-links for special applications
RFI-30 2.5A a.c. 250V、RFI-30 4A a.c. 250V、RFI-30 6.3A a.c. 250V (额定分断能力: 35A 或 10In, 取较大值, 主要尺寸: $\Phi 6.3\text{mm} \times 32\text{mm}$)

THE STANDARDS AND TECHNICAL REQUIREMENTS FOR THE PRODUCTS

GB/T 9364.1-2015; GB/T 9364.7-2016

TYPE OF CERTIFICATION SCHEMES

Type Testing of Product + Initial Factory Inspection + Follow up Factory Inspection

This is to certify that the above mentioned product(s) complies with the requirements of certification rules of CQC11-462125-2018.

Valid from: Dec.26,2019

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

President:

Lu Mei



CHINA QUALITY CERTIFICATION CENTRE

Section 9, No.188, Nansihuan Xilu, Beijing 100070 P.R.China
<http://www.cqc.com.cn>

C 0186155

접수번호(Order No.) : EKC2011-4874



전기용품 안전 인증서 Electrical Appliances Safety Certificate

안전 인증 번호 : JU05001-3008D
(Certificate No.)

제 조 업 자 명 : Zhongshan Lanbao Electrical Appliances Co.,Ltd
(Manufacturer)

대 표 자 명 : Yang Han Bin
(President)

제조공장의 소재지 : 102 Xin Pu Road Huang Pu, Zhongshan, Guangdong China
(Factory Address)

제 품 명 : 소형퓨즈
(Product) (Miniature fuse)

기 본 모 델 명 : 31GM 250V 1A~21A
(Basic Model)

정 격 : 250V, 1A~21A, 100A, a Type
(Rating)

파 생 모 델 명 : 32GM 250V 1A~21A, 61NR 250V 1A~21A,
(Series Model) 62NR 250V 1A~21A, 61MN 250V 1A~21A,
62MN 250V 1A~21A, 60NR 250V 1A~21A

적 용 기 준 : Technical Standards for Electrical Appliance ㉔ 02
(Standard)

「전기용품안전 관리법 시행규칙」 제6조제2항의 규정에 따라 위의 전기용품에 대하여 안전 인증서를 교부합니다.

We Issue Electrical Appliances Safety Certification as above product by Article 6 Section 2 of the Electrical Appliances Safety Control Enforcement Regulation.

2011년 11월 21일
year month day



한국화학융합시험연구원

(KOREA TESTING & RESEARCH INSTITUTE)



이 인증서는 「전기용품안전관리법」에 따른 전기용품안전성 확인에 한정된 것이며 그 밖의 다른 법률이 적용되는 제품의 경우에는 해당법률에 따라 추가로 인증·허가 등을 받아야 합니다.

- 첨부서류
1. 안전관리부품 및 재질목록(List of Critical Components)
 2. 기본모델·파생모델의 내용(General Descriptions of Certified Products)
 3. 전기용품안전인증의 변경 현황(Status of Certificate Revisions)

Certification No. : JU05001-3008D

[Attachment 1 : List of Critical Components]

1/1

Component/ part No.	Manufacturer/ trademark	Model/type	Technical data	Mark(s) of conformity
Fusible Material	Heesung Metal Ltd	-	10% Ag Coated Cu	-
	Shin Il Metic			
Tube Type Terminal	Poong San	-	Brass	-
Tube	Hankoon Glass	-	Glass Outer diameter : 6.3mm Length : 31.8mm	-
Solder	Heesung Metal Ltd	-	Pb 63%, Sn 36% Flux 1%	-

※ Attention

1. As the critical components and parts are directly related with safety, these components shall be checked during a factory inspection by the certification body. In case of applying for multiple listings or changes for the items above, the certification revision shall be applied.
2. The safety certification will be cancelled under the Electrical Appliance Safety Control Law, Clause 1 of Article 8 if the contents of the certification are altered without prior authorization.
3. Handling criteria for non-conforming electrical appliance
 - 1) Added in new items and test items for conventional track shall be subject to existing similar items
 - 2) In case of the products without the validation process by a safety certification body and randomly missing paths such as adding and changing some components, unlike a safety certificate or a registration for the self-regulatory safety confirmation and other related regulations shall apply most serious level of defect)

Certification No. : JU05001-3008D

[Attachment 2 : General Description of Certified Products]

1/1

Series model(s)	Difference between the basic and variant models	Remarks
32GM 250V 1A~21A	o Lead wire is attached	
61NR 250V 1A~21A	o Different model name for basic model (For model name identification in market)	
62NR 250V 1A~21A	o Lead wire is attached o Different model name from variant model (32GM 250V 1A~21A) o For model name identification in market	
61MN 250V 1A~21A	o Different model name for basic model (For model name identification in market)	
62MN 250V 1A~21A	o Lead wire is attached o Different model name from variant model (32GM 250V 1A~21A) o For model name identification in market	
60NR 250V 1A~21A	o Different model name for basic model (For model name identification in market)	

Features and Specifications

o Usage

- It is used to protect overcurrent for electric appliances
- Inner structure : Comprised of solder, fusible material in glass case
- Outer structure : It is fixed to fuse holder

o Specifications

- Rated : 250V, 1A~21A, 100A, a Type

※ If you have questions on product testing contents, please contact the following :

- Division of Conformity Testing
- Tel : 82-31-679-9600 Fax : 82-31-336-2427

Certification No. : JU05001-3008D

[Attachment 3 : Status of Compliance Certificate Revision]

1/1

Date	Content of revision	Reference
2003. 10. 20	o Variant models are added (61NR 250V 1A~21A, 62NR 250V 1A~21A 61MN 250V 1A~21A, 62MN 250V 1A~21A 60R 250V 1A~21A)	
2004. 4. 1	- o Name of Manufacturer is changed (Before : Dandong Daewon Automobile Co.,Ltd) - o Address of Factory is changed (Before : 6F Bldg 1 Jianwan Export Processing Section Dandong Liaoning China)	
2006. 2. 14	o Name of Manufacturer is changed - Before : Zhongshan Lanbao Electrical Appliances Co.,Ltd (Dawewon LB Fuse)	
2011. 11. 21	o Reissue by manufacturer at request certificate	