



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-RT10-01 |
| 版次 Ver. | A/2        |

|                |  |
|----------------|--|
| 客户<br>Customer |  |
|----------------|--|

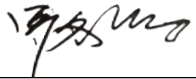
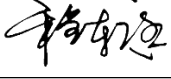
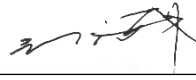
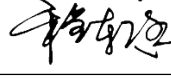
|               |        |
|---------------|--------|
| 品名<br>Product | 陶瓷管保险丝 |
| 系列<br>Series  | RTI-10 |

| 料号Part No.      | 规格描述Specification | 备注Remark |
|-----------------|-------------------|----------|
| 蓝宝<br>LB fuse   |                   |          |
| 客 户<br>Customer |                   |          |

| 供应商-蓝宝<br>Supplier-LB fuse | 零件承认章<br>Approval Signet | 客户<br>Customer | 零件承认章<br>Approval Signet |
|----------------------------|--------------------------|----------------|--------------------------|
| 制作<br>Make                 |                          |                |                          |
| 审查<br>Check                |                          |                |                          |
| 批准<br>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<br>Date | 描述<br>Description | 版次<br>Edition | 修改<br>modified by                                                                   | 审核<br>Checked by                                                                    |
|-----|------------|-------------------|---------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1   | 2020.11.17 | 新制订               | A/1           |  |  |
| 2   | 2023.04.03 | 更改为新封面            | A/2           |  |  |
| 3   |            |                   |               |                                                                                     |                                                                                     |
| 4   |            |                   |               |                                                                                     |                                                                                     |
| 5   |            |                   |               |                                                                                     |                                                                                     |
| 6   |            |                   |               |                                                                                     |                                                                                     |
| 7   |            |                   |               |                                                                                     |                                                                                     |
| 8   |            |                   |               |                                                                                     |                                                                                     |
| 9   |            |                   |               |                                                                                     |                                                                                     |
| 10  |            |                   |               |                                                                                     |                                                                                     |
| 11  |            |                   |               |                                                                                     |                                                                                     |

## 1. 适用范围 / SCOPE

RTI-10(1T) 系列超小型保险丝，适用于一般电子设备。  
RTI-10(1T) series Micro-Fuse, used in electronic equipment.

## 2. 产品型号 / TYPE

例「example」：

|        |   |    |   |      |                                                                                    |
|--------|---|----|---|------|------------------------------------------------------------------------------------|
| RTI-10 | T | 1A | L | 250V |  |
| 1      | 2 | 3  | 4 | 5    | 6                                                                                  |

- ①系列号/Series Number
- ②慢断T/Time-Lag
- ③额定电流/Rated Current
- ④分断能力/Breaking Capacity
- ⑤额定电压/Rated Voltage
- ⑥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、200mA、250mA、315mA、500mA、630mA、1A、1.25A、1.6A、2A、3.15A、4A、5A、6.3A、10A

额定电压 / Rated Voltage:

250VAC

## 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+分断能力+额定电压

Specification: Rated Current + Breaking Capacity+Rated Voltage

100mA~10A: T\_mA/ AL 250 V

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~10A **LB**® 

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。

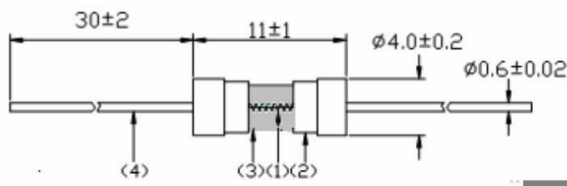
Appearances: There shall not be break up and any remarkable blotch.

5-2 形状：带脚的超小型保险丝。

Configuration: Axial Leaded Micro -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<br>No | 元件<br>Component | 材质<br>Material                   | 数量<br>Quantity |
|----------|-----------------|----------------------------------|----------------|
| ①        | 熔丝<br>Wire      | 合金<br>Alloy                      | 1              |
| ②        | 铜帽<br>Cap       | 黄铜镀镍<br>Brass with nickel plated | 2              |
| ③        | 本体<br>Body      | 陶瓷管<br>Ceramic Tube              | 1              |
| ④        | 引线<br>Lead      | 镀锡铜线<br>Tinned Copper wire       | 2              |
| ⑤        | 填充物<br>Lead     | 石英砂<br>Quartz sand               | 选装项            |

## 7.特性 / PRODUCT CHARACTERISTICS

### 7-1 引脚拉力强度 / Lead Pull Strength

10 牛顿 10±1 秒 / 10N for 10±1 Sec.

### 7-2 引脚推力强度 / Lead Thrust Strength

2 牛顿 10±1 秒 / 2N for 10±1 Sec.

### 7-3 可焊性 / Solderability

波峰焊/Wave : 260°C, ≤3s;

烙铁焊/Soldering Iron: 350±10°C, ≤3s.

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

波峰焊/Wave : 260°C, 10s;

烙铁焊/Soldering Iron: 350°C, 5s.

## 8. 特性 / ELECTRICAL CHARACTERISTICS

### 8-1 熔断 / 电流特性（遵循 IEC60127-3, 规格单 2&4）： In accordance with IEC60127-3 standard, sheet 2&4

| RATED<br>CURRENT | 1.5 IN/倍 | 2 IN/倍 | 2.75 IN/倍 |      | 4 IN/倍 |      | 10 IN/倍 |       |
|------------------|----------|--------|-----------|------|--------|------|---------|-------|
|                  | Min.     | Max.   | Min.      | Max. | Min.   | Max. | Min.    | Max.  |
| 100mA to 10A     | 1hrs     | 2min   | 400ms     | 10s  | 150ms  | 3s   | 20ms    | 150ms |

## 8-2 分断能力 / Breaking Capacity

|         |                                       |                                    |
|---------|---------------------------------------|------------------------------------|
| UL&C-UL | 100mA~5A                              | 50A/250V AC                        |
| VDE     | 500mA~3.15A                           | 35A/250V AC                        |
| CQC&CCC | CQC:500mA~5A<br>CCC:500mA~5A、6.3A、10A | 35A/50A/250V AC、>3.15A规格 10 IN额定电流 |
| KC      | 3.15A、4A、5A、6.3A                      | 35A/250V AC                        |

## 9.特性 / ENVIRONMENTAL CHARACTERISTIC

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

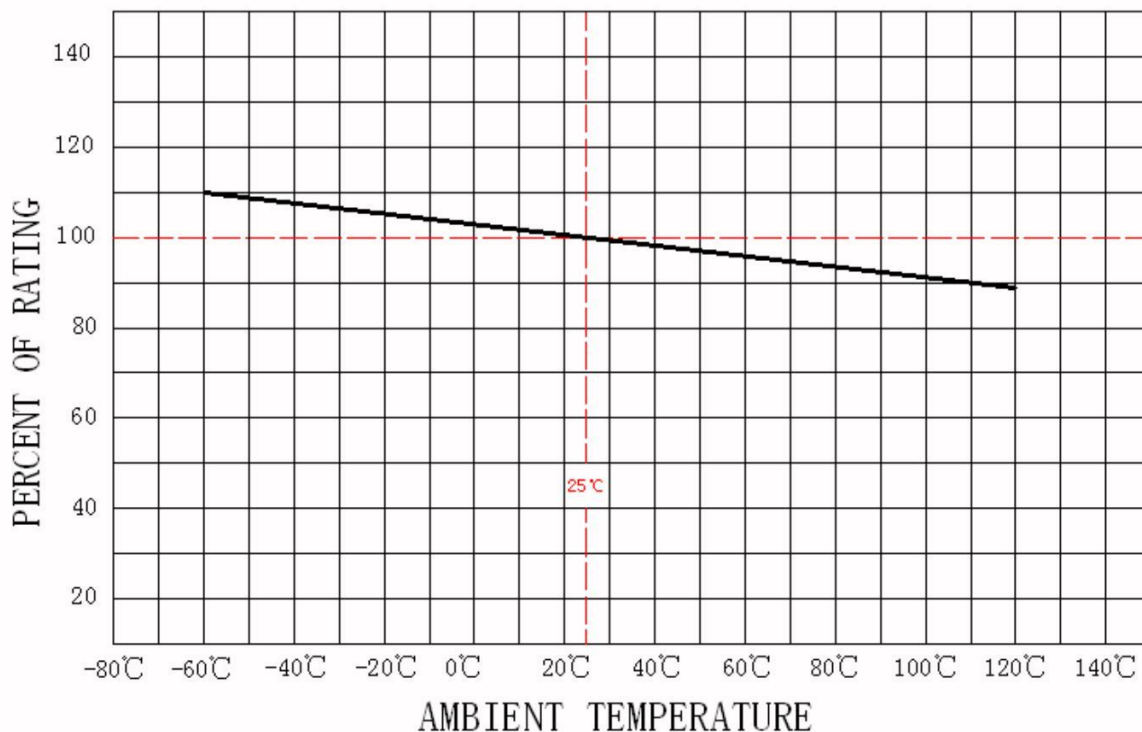
若贵司操作环境温度超出 $25\pm5^{\circ}\text{C}$ 范围, 在选用保险丝规格时, 需考虑操作环境温度对保险丝的影响。

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  $20\sim30^{\circ}\text{C}$ , 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 aiRTIght in temperature+10℃~60℃、relative humidity  $\leq 75\%$  can store 3 years.

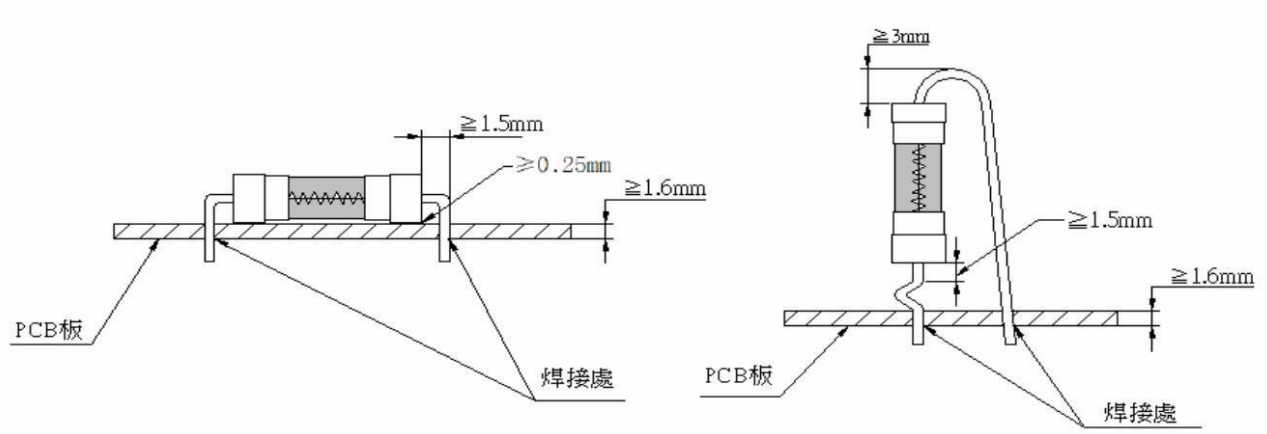
在温度相对湿度为 95%的非露天下最多可存放 30 天。

Without at dew relative humidity is 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±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<br>temperature | 120℃       | 130℃       | 140℃       | 150℃       | 160℃       | 170℃       | 180℃       |
|-------------------|------------|------------|------------|------------|------------|------------|------------|
| 时间/time           | Max<br>80s | Max<br>75s | Max<br>70s | Max<br>65s | Max<br>60s | Max<br>55s | Max<br>50s |

## 12.安全认证及编号 / STANDARDS AND APPROVALS

|         |                                                                                   |
|---------|-----------------------------------------------------------------------------------|
| UL      | E213695 (100mA~5A)                                                                |
| VDE     | 40017009 (500mA~3.15A)                                                            |
| CQC     | CQC2019010207260541 (500mA、630mA、1A、1.6A、2A、3.15A、5A)                             |
| CCC自我声明 | 2020970207000025 (500mA、630mA、1A、1.6A、2A、3.15A、5A)<br>2020000207000003 (6.3A、10A) |
| KC      | HU05055-19001A (3.15A、4A、5A、6.3A)                                                 |

## 13.包装 / PACKING

### 13-1 包装数量 / Packing Quantity

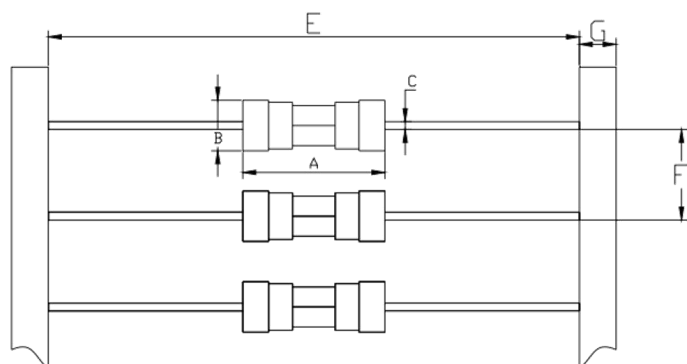
500PCS/小袋、10 小袋/内盒、10 内盒/外箱(实际装箱依客户订单)

500 fuses per plastic bag, 10 plastic bags per inner box, 10 inner boxes per external carton. (The actual case in accordance with the customer order)

### 13-2 编带包装尺寸图/ Taping Configuration

2000PCS/内盒、10 内盒/外箱(实际装箱依客户订单)。

2000 fuses per inner box, 10 inner boxes per external carton.  
(The actual case in accordance with the customer order)。

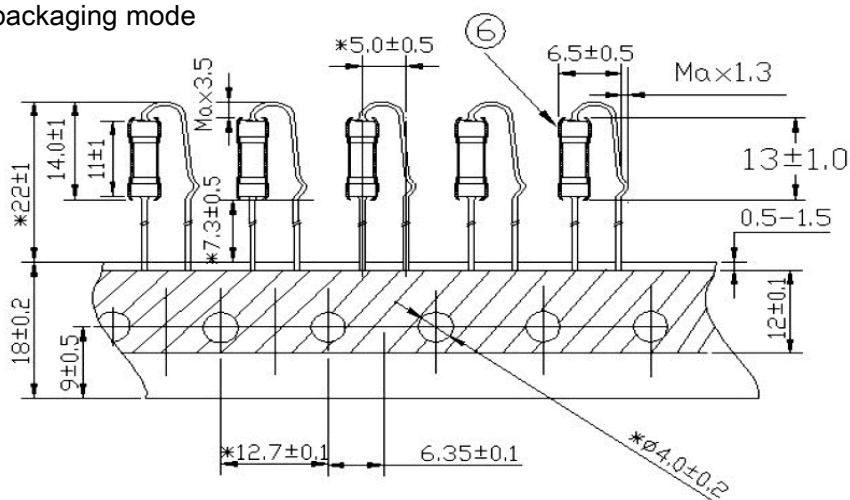


单位/Unit: mm

| A    | B       | C       | E    | F       | G       |
|------|---------|---------|------|---------|---------|
| 11±1 | 4.0±0.2 | 0.6±0.2 | 60±1 | 5.0±0.2 | 6.0±0.5 |

立式编带包装方式/Vertical braiding packaging mode

单位/Unit: mm



## 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.

| 版次  | 制作                | 确认                | 审核                |
|-----|-------------------|-------------------|-------------------|
| 第一版 | 赖秋莲<br>2020/11/17 | 谢海林<br>2020/11/17 | 熊士军<br>2020/11/17 |