



# 产品规格书

## PRODUCT SPECIFICATION

|                                |                  |
|--------------------------------|------------------|
| 客户名称:<br>CUSTOMER:             |                  |
| 产品名称:<br>PRODUCT NAME:         | 贴片保险丝            |
| 产品描述:<br>Product description:  | 4012 贴片保险丝 慢断 编带 |
| 型号/规格:<br>Model/specification: | 40T 3.15A250V    |
| 料号<br>Part Number :            |                  |
| 日期:<br>Date:                   | 2025 年 4 月 3 日   |

| 供应商-泓达<br>Supplier-Hongda |     | 确认合格章<br>Confirm qualified Signet | 客 户<br>Customer | 零件承认章<br>Approval Signet |
|---------------------------|-----|-----------------------------------|-----------------|--------------------------|
| 编 制<br>PREPARED           | 李红  |                                   |                 |                          |
| 审 核<br>CHECKED            | 钱磊  |                                   |                 |                          |
| 批 准<br>APPROVED           | 孙嘉利 |                                   |                 |                          |



## 变更履历

[illegible]



## 1. 适用范围 Scope of Application

本产品适用于各种电子电路中起过电流保护作用。

This product is suitable for various kinds of electronic machines to work for over current protection.

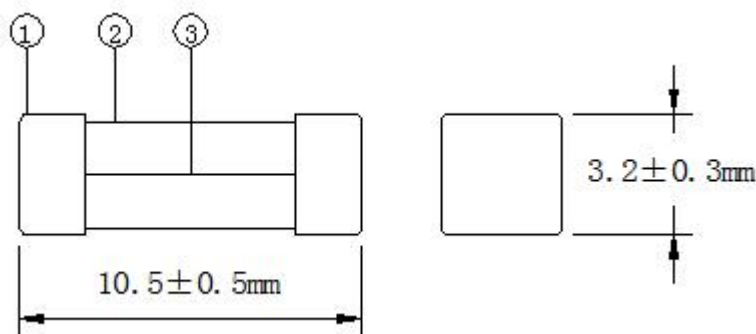
## 2. 相关标准及认证 Relevant Standards

### 2.1 执行标准 Standard: UL248-1、UL248-14

| 认证<br>Certification | 认证范围<br>Scope of Certification        | 证书编号<br>Certification No. |
|---------------------|---------------------------------------|---------------------------|
| UL/CUL (Recognized) | 32mA~20A 65V/125V/250V DC             | E318938                   |
| UL/CUL (Recognized) | 32mA-20A 125V/250V/300V/350V /600V AC | E318938                   |
| UL/CUL (Recognized) | 25A-100A 72V/125V/250V AC/DC          | E500244                   |
| TUV                 | 15A 250V/20A250V/30A250V              | J 50609026                |

## 3. 结构尺寸及原材料明细 Structure Size and Material Detail

### 3.1 结构尺寸 Structure Size (unit: mm)



### 3.2 原材料明细 Material Detail

| 编号 No. | 零件名称 Part Name   | 材质 Material                |
|--------|------------------|----------------------------|
| ①      | 端帽 End cap       | 黄铜表面镀银 Silver plated brass |
| ②      | 陶瓷管 Ceramic tube | 陶瓷 Ceramic                 |
| ③      | 熔丝 Fuse element  | 合金线 Alloy                  |

## 4. 标示 Mark

### 4.1 保险丝上需有下列标示:

The fuse shall have the following marking:

泓达标志 + 额定电流

HONGDA's logo+ Ampere rating



3.15A



## 5. 电气特性 Electrical Characteristics

### 5.1 实验条件: 所有测试环境温度为 $25\pm 5^{\circ}\text{C}$ 。

Test Condition: All electrical characteristics tests are conducted at an ambient temperature of  $25\pm 5^{\circ}\text{C}$ .

### 5.2 时间-电流特性

#### Time-Current Characteristics

| 额定电流<br>Ampere Rating | 额定电流的%<br>% of Ampere Rating | 熔断时间<br>Opening Time |
|-----------------------|------------------------------|----------------------|
| 32mA~100A             | 200%                         | 60 S Max.(小于 60 秒)   |
| 32mA~100A             | 1000%                        | 1ms Min.(大于 10 毫秒)   |

### 5.3 额定分断能力:

Interrupting Rating:

DC 32V/60V/65V/72V/125V/250V 500A

AC 72V/125V/250V/300V/350V 1000A

AC 600V 200A

## 6. 环境特性 Environmental Characteristics

### 6.1 使用温度范围 Operating Temperature

$-40^{\circ}\text{C}\sim 125^{\circ}\text{C}$ 。

### 6.2 保存条件 Storage Conditions

相对湿度 $\leq 75\%$ , 可以存放 3 年。

Relative humidity  $\leq 75\%$ , store 3 years.

## 7. 可靠性试验 Reliability Test

### 7.1 冷热冲击试验 Thermal Shock Test

MIL-STD-202G, Method 107G。

### 7.2 防潮湿试验 Moisture Resistance Test

MIL-STD-202G, Method 106G。

### 7.3 振动试验 Vibration Test

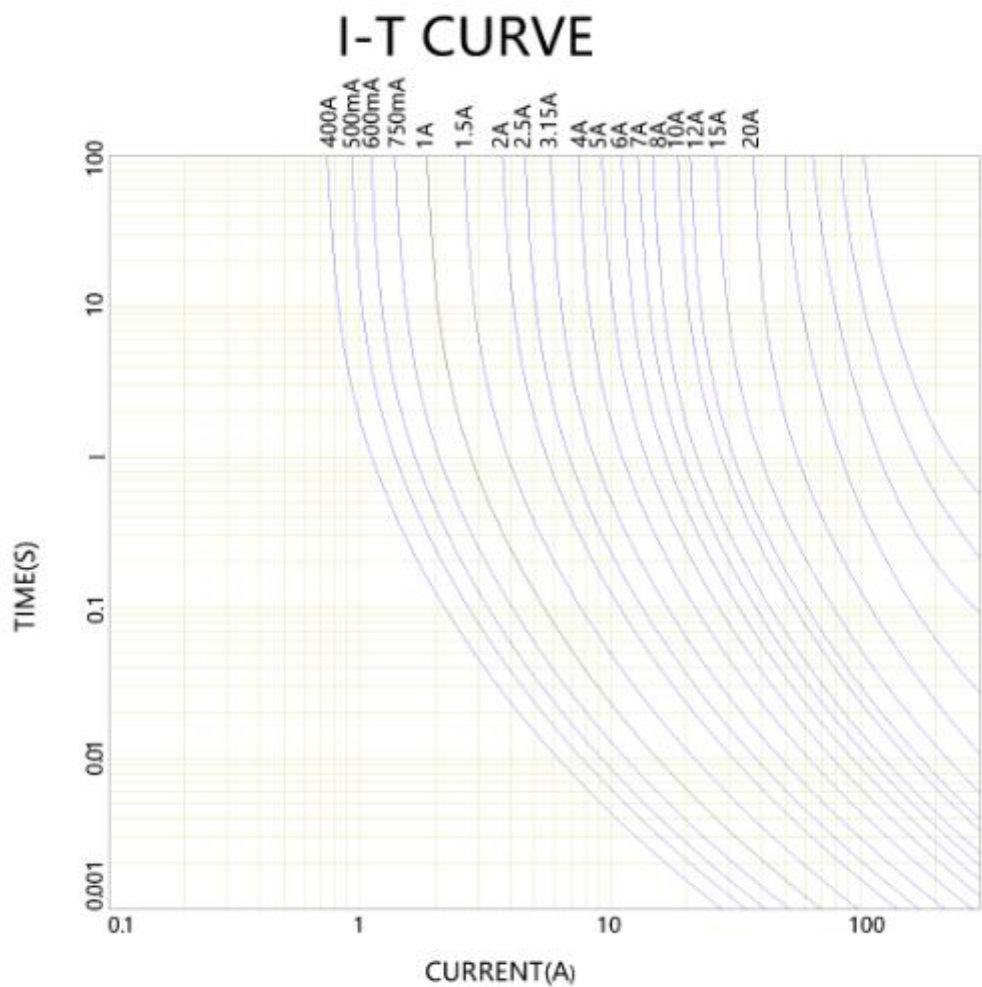
MIL-STD-202G, Method 201A。

### 7.4 可焊性试验 Solderability Test

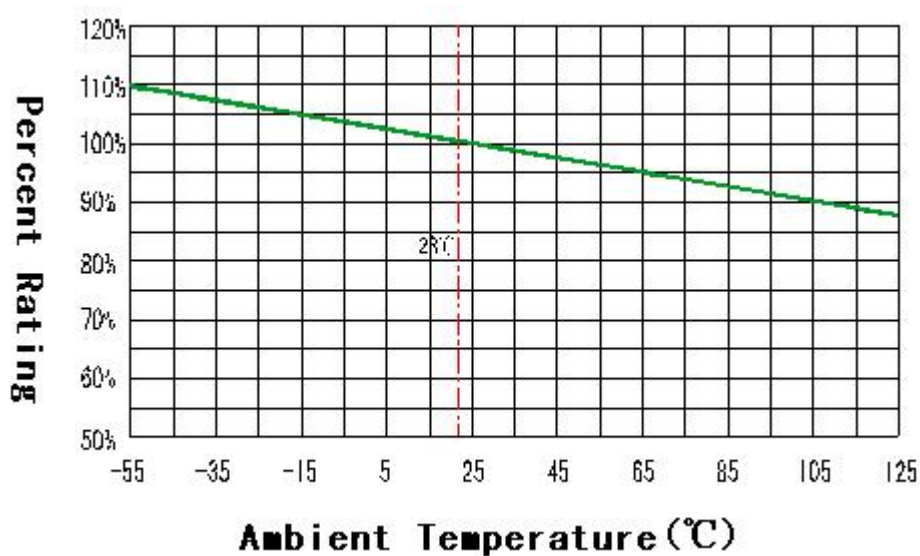
MIL-STD-202G, Method 208H, IEC60127-2, IEC60068-2。



## 8. 时间-电流曲线图 Time-Current Curve



## 9. 温度-电流负荷比曲线 Temperature-Current Curve





## 10. 焊锡参数 Soldering Parameters

### 10.1 回流焊 Reflow Soldering

10.1.1 温度 Temperature 260℃

10.1.2 时间 Time ≤10 seconds

10.1.3 最大可以承受三次回流焊  
Capable for three times reflow

### 10.2 手工焊锡 Hand Soldering

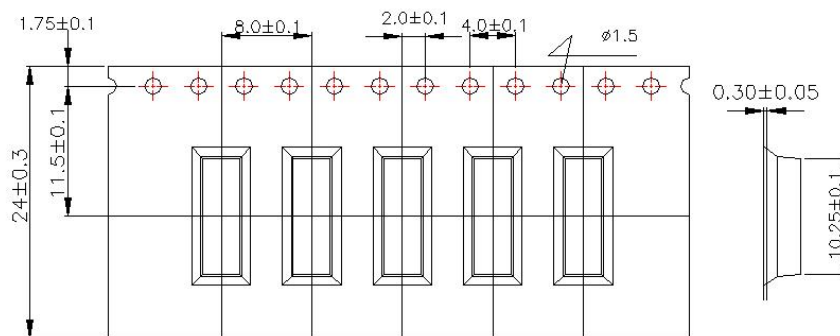
9.2.1 温度 Temperature 380℃

9.2.2 时间 Time ≤3 seconds

## 11. 包装 Packing

11.1 自动机器包装 **2500PCS/卷**。Automaton taped **2500PCS** per reel.

11.2 包装尺寸 Packing Size (unit: mm)



## 12. 其他 Others

12-1 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.

12-2 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 , HONGDA ELECTRONIC CO., LTD. shall amend it by mutual agreement between the parties.

附：承认书后附安规证书及环保报告

Appendix: The specification attached safety certificate and RoHS directive test report.