

# 深圳市华微讯半导体有限公司

## 承 认 书

### SPECIFICATION FOR APPROVAL

|                               |           |
|-------------------------------|-----------|
| 客户名称<br>Customer name         |           |
| 客户料号<br>Customer material No. |           |
| 产品名称<br>Product name          | PTC自恢复保险丝 |
| 产品型号/规格<br>specification      |           |
| 送样日期<br>Deliver date          |           |

#### 本司确认（HWX APPROVAL）

|                  |                    |                |                 |
|------------------|--------------------|----------------|-----------------|
| 检验<br>Inspection | 校对<br>Proofreading | 批准<br>Approval | 签章<br>Signature |
| 张淑敏              | 郑义铎                | 王工             |                 |

#### 客户确认（CUSTOMER APPROVAL）

|                  |                    |                |                 |
|------------------|--------------------|----------------|-----------------|
| 检验<br>Inspection | 校对<br>Proofreading | 批准<br>Approval | 签章<br>Signature |
|                  |                    |                |                 |

确认结果Verify the results:

☐合格Qualified

☐不合格Unqualified

☐其他Other

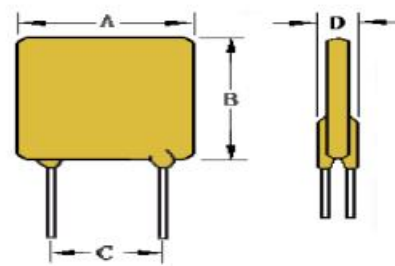
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## 1、Description

|      |   |             |   |   |                 |   |   |
|------|---|-------------|---|---|-----------------|---|---|
| H    | 6 | 0           | 0 | - | 1               | 6 | 0 |
| Logo |   | 600Vvoltage |   |   | Working current |   |   |



- 1.1、Coating color: yellow
- 1.2、Lead material: Φ 0.6 tin line
- 1.3、Overall dimensions (max. mm)

| A <sub>max</sub> | B <sub>max</sub> | C         | D <sub>max</sub> |
|------------------|------------------|-----------|------------------|
| 15.5             | 15.5             | 5.1 ± 0.5 | 7.5              |

## 2、Electrical performance

| Part Number | V <sub>max</sub> | I <sub>max</sub> | I <sub>hold</sub> | I <sub>trip</sub> | P <sub>dmax</sub> | Max Time Tirp |      | Resistance       |                  |                   |
|-------------|------------------|------------------|-------------------|-------------------|-------------------|---------------|------|------------------|------------------|-------------------|
|             | (V)              | (A)              | (A)               | (A)               | (W)               | (A)           | (s)  | R <sub>min</sub> | R <sub>max</sub> | R <sub>1max</sub> |
|             |                  |                  |                   |                   |                   |               |      | (Ω)              | (Ω)              | (Ω)               |
| H600-160    | 600              | 3                | 0.16              | 0.32              | 1.0               | 1.0           | 10.0 | 4.5              | 12.0             | 18.0              |

- I<sub>h</sub>:** Maximum operating current of the HPTC at an ambient temperature of 25°C
- I<sub>t</sub>:** The HPTC initiated the minimum current for protection at an ambient temperature of 25°C
- V<sub>max</sub>:** Maximum operating voltage of the HPTC
- I<sub>max</sub>:** Maximum current that the HPTC can withstand
- R<sub>min</sub>:** Minimum resistance at 25°C of stationary air
- R<sub>max</sub>:** Maximum device resistance at 25°C prior to tripping.
- R<sub>1max</sub>:** Maximum resistance of product

## 3、Table of Operating Current with Temperature (A) (for reference only)

| Part Number | The working temperature and working current reduction ratio is (°C) |       |      |      |      |      |      |      |      |      |
|-------------|---------------------------------------------------------------------|-------|------|------|------|------|------|------|------|------|
|             | -40°C                                                               | -20°C | 0°C  | 25°C | 30°C | 40°C | 50°C | 60°C | 70°C | 85°C |
| H600 Series | 147%                                                                | 136%  | 119% | 100% | 91%  | 83%  | 77%  | 68%  | 61%  | 52%  |

#### 4、Product performance test items and standard requirements

| test           | condition                    | resistance variation |
|----------------|------------------------------|----------------------|
| Passive aging  | + 85°C, 1,000 hours          | $\leq R_{\max}$      |
| Humidity aging | + 85°C, 85%R. H. 1,000 hours | $\leq R_{\max}$      |
| thermal shock  | + 125°C to -55°C, 10 times   | $\geq R_{\min}$      |

| number | project                    | technical standard                                                       | Test conditions and methods                                                                                                                                                                                                                                                                                               |
|--------|----------------------------|--------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1      | zero-power resistance      | 4.5-12.0 $\Omega$                                                        | 25°C $\pm$ 2°C, with still air. Low-resistance tester.                                                                                                                                                                                                                                                                    |
| 2      | Non-action characteristics | Rate of resistance change<br>$\Delta R/R_0 \leq 50\%$                    | 25°C $\pm$ 2°C, still air, and DC60V, 0.16A current for 1 hour. After resting the DC voltage stabilizing source for one hour at 25°C $\pm$ 2°C, retest the zero power resistance value                                                                                                                                    |
| 3      | performance characteristic | $t \leq 10.0s$                                                           | 25°C $\pm$ 2°C, still air, DC12V/1.0A, DC stabilizer source, stopwatch.                                                                                                                                                                                                                                                   |
| 4      | Welding heat resistance    | No visible post-welding resistance value<br>$R_{l\max} \leq 18.0 \Omega$ | Preheat the 130 $\pm$ 5°C oven for 3min ( $\pm$ 10s), dip the element end into 270 $\pm$ 5°C tin liquid to the root of the element end, hold for 3 seconds, stand in air for 4 seconds, and then soak for 5s. Tin stove, stopwatch. After standing at 25°C $\pm$ 2°C for 4 hours, retest the zero power resistance value. |

#### 5、Package Information

**Tape & Reel: 5 0 0pcs/ bag.**

**storage condition:**

**Storage conditions: 30° C max, 60% R.H.Devices may not meet specified performance if storage conditions are exceeded.**

#### 6、WARNING

- 1、Use PPTC exceed by the maximum rating and improper use may result in device damage and possible electrical arcing and flame.
- 2、PPTC are designed for protection against over current or temperature fault conditions and should not be used when repeated fault conditions or prolonged trip events are anticipated.
- 3、Device performance can be impacted negatively if devices are handled in a manner inconsistent with recommended electronic, thermal, and mechanical procedures for electronic components.
- 4、Use PPTC with a large inductance in circuit will generate a circuit voltage above the rated voltage of the PPTC.
- 5、Avoid impact PPTC device its thermal expansion like placed under pressure or installed in limited space.
- 6、If any quality problems caused by improper use mentioned above,our company is not responsible.