



2P

SPECIFICATIONS

- 1、 Current Rating: 2A AC, DC
- 2、 Voltage Rating: 250V AC, DC
- 3、 Temperature Range: -25°C ~ +85°C
- 4、 Contact Resistance: 20mΩ Max
- 5、 Insulation Resistance: 1000MΩ Min
- 6、 Withstanding Voltage: 1000V AC/minute
- 7、 Material:Housing:Nylon66, UL94V-0

| 编号        | 尺寸 (mm) |       |       |
|-----------|---------|-------|-------|
|           | A       | B     | C     |
| A2006-02Y | 2.00    | 5.50  | 3.30  |
| A2006-03Y | 4.00    | 7.50  | 3.30  |
| A2006-04Y | 6.00    | 9.50  | 4.30  |
| A2006-05Y | 8.00    | 11.50 | 4.30  |
| A2006-06Y | 10.00   | 13.50 | 8.30  |
| A2006-07Y | 12.00   | 15.50 | 10.30 |
| A2006-08Y | 14.00   | 17.50 | 10.30 |
| A2006-09Y | 16.00   | 19.50 | 10.30 |
| A2006-10Y | 18.00   | 21.50 | 12.30 |
| A2006-11Y | 20.00   | 23.50 | 16.30 |
| A2006-13Y | 24.00   | 27.50 | 16.30 |
| A2006-20Y | 38.00   | 41.50 | 16.30 |

|                |            |                     |          |  |                   |             |
|----------------|------------|---------------------|----------|--|-------------------|-------------|
| 制图<br>DRAWING  | 李春风        | 料号<br>PART NO.      | HY2.0-3Y |  | 版本<br>REV.        | A           |
|                | 2018.01.11 |                     | 压线端子胶壳   |  |                   | 页次<br>SHEET |
| 审核<br>CHECK    | 钟华华        | 品名<br>TITLE         |          |  | 客户料号<br>CUTL. NO. |             |
| 核准<br>APPROVAL | 2018.01.11 | 罗孝金                 |          |  |                   |             |
| 单位<br>UNITS    | MM         | 比例<br>SCALE         | 1:1      |  |                   |             |
| 日期<br>DATE     |            | 变更内容<br>DESCRIPTION |          |  |                   |             |
| 制图<br>DRAWN    |            |                     |          |  |                   |             |



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# 承 认 书

## SPECIFICATION FOR APPROVAL

商品编码 Part Code:

\_\_\_\_\_

产品名称 Project:

压线端子胶壳

规格型号 Part No:

HY2.0-3Y

### 贵公司承认印 Approval signatures

| 料号/Part No. | 签章/Signatures |
|-------------|---------------|
|             |               |

日期 Date:

|             |     |  |
|-------------|-----|--|
| 拟制/Drawn    | 李春风 |  |
| 审核/Check    | 钟华华 |  |
| 批准/Approved | 罗孝金 |  |

## 1、SCOPE: (适用范围)

1.1 This specification covers production and inspection of Connector.

本规范内容适用于本公司普通系列型条形连接器（针座）产品的生产与检验。

## 2、USE CONDITION: (使用条件)

**2.1 Ambient temperature Range:-25℃~+85℃**

环境温度：-25℃~+85℃

**2.2 Applicable Wire Sizes:AWG#32~#24**

适用线规：AWG#32~#24

**2.3 Applicable PC board thickness:1.2~1.6mm**

适用PC板厚度：1.2~1.6 mm

## 3、Appearance and Dimension: (外观及尺寸)

**3.1 Appearance:Product surface without defect、dirt、crack、and mechanical damang, Contact without rust,plating not oxided and not peeled.**

产品表面不应有对制品有害的缺陷、污垢、裂痕及机械损伤；接触件无锈蚀、镀层氧化、脱落等现象。

**3.2 Dimension:According to drawings**

外形尺寸：依照附图

**3.3 Exchangable:Exchangable with same specification products.**

互换性：相同规格应能互换

## 4、Material:

材料 (以图纸为准)

| P/N<br>零件名称                   | Type<br>类型         | Material<br>材料                   | Finish<br>表面处理                          | Explain<br>说明     |
|-------------------------------|--------------------|----------------------------------|---|-------------------|
| Terminal<br>端子                | Contact<br>插簧      | Phosphor bronze<br>锡青磷铜 厚 0.15mm | Tin Plating:3~4 μ m<br>镀锡: 3~4 μ m      | RoHS<br>Compliant |
| Housing<br>孔座                 | Plastic<br>塑壳      | Nylon66 UL94V-0                  | Color:White<br>颜色: 白色                   |                   |
| Opening Wafer<br>开口针座         | Contact<br>插针      | Phosphor bronze<br>锡青磷铜 厚 0.30mm | Tin Plating:3~4 μ m<br>镀锡: 3~4 μ m      |                   |
|                               | Plastic<br>塑壳      | Nylon46 UL94V-0                  | Color: Beige<br>颜色: 米色                  |                   |
| Lips Wafer<br>闭口针座            | Contact<br>插针      | Phosphor bronze<br>锡青磷铜 厚 0.30mm | Gold Plating:3~4 μ " m<br>镀金: 3~4 μ " m |                   |
|                               | Plastic<br>塑壳      | PBT UL94V-0                      | Color: White<br>颜色: 白色                  |                   |
| Tiepian Wafer<br>卧贴针座<br>立贴针座 | Contact<br>插针      | Phosphor bronze<br>锡青磷铜 厚 0.30mm | Tin Plating:3~4 μ m<br>镀锡: 3~4 μ m      |                   |
|                               | Solder tabs<br>焊护耳 | Phosphor bronze<br>锡青磷铜 厚 0.25mm | Tin Plating:3~4 μ m<br>镀锡: 3~4 μ m      |                   |
|                               | Plastic<br>塑壳      | Nylon46 UL94V-0                  | Color: Beige<br>颜色: 米色                  |                   |

## 5、Electrical Performance:

电气性能

| NO.<br>序号 | Item<br>项目                    | Requirement<br>技术要求            |
|-----------|-------------------------------|--------------------------------|
| 5.1       | Voltage Rated<br>额定电压         | 250V AC DC                     |
| 5.2       | Current Rated<br>额定电流         | 2A AC DC                       |
| 5.3       | Contact Resistance<br>接触电阻    | $\leq 20 \text{ m}\Omega$      |
| 5.4       | Insulation Resistance<br>绝缘电阻 | $\geq 1000 \text{ M}\Omega$    |
| 5.5       | Dielectric Strength<br>耐压     | $\geq 800 \text{ V AC/minute}$ |

## 6、Mechanical Performance:

机械性能

| NO.<br>序号 | Item<br>项目                               | Requirement<br>技术要求          |
|-----------|--|------------------------------|
| 6.1       | Male contact Retention force<br>PIN 针固定力 | $\geq 10 \text{ N}$ per pin  |
| 6.2       | Female contact Retention force<br>端子固定力  | $\geq 10 \text{ N}$ per pin  |
| 6.3       | Plug-in force<br>插入力                     | $\leq 3 \text{ N}$ per pin   |
| 6.4       | Plug-out force<br>拔出力                    | $\geq 0.5 \text{ N}$ per pin |

## 7、Endurance Characteristics:

环境性能

| NO.<br>序号 | Item<br>项目            | Requirement<br>技术要求  |
|-----------|-----------------------|--|
| 7.1       | Soldering rest<br>可焊性 | Time: $2.5 \pm 0.5 \text{ S}$<br>时间: $2.5 \pm 0.5 \text{ S}$<br><br>Temperature: $260 \pm 5^\circ \text{C}$<br>温度: $260 \pm 5^\circ \text{C}$<br><br>Area of Soldering: $\geq 95\%$<br>焊锡面积: $\geq 95\%$ |

|     |                                      |  |
|-----|--------------------------------------|--|
| 7.2 | Resistance to soldering Heat<br>耐焊接热 | Time: $5 \pm 1S$<br>时间: $5 \pm 1S$<br><br>Temperature: $260 \pm 5^{\circ}C$<br>温度: $260 \pm 5^{\circ}C$<br><br>Appearance: NO Damage<br>外观: 无损坏  |
| 7.3 | Heat test<br>耐热性                     | Time: 96h<br>时间: 96 小时<br><br>Temperature: $+85 \pm 3^{\circ}C$<br>温度: $+85 \pm 3^{\circ}C$<br><br>Appearance: NO Damage<br>外观: 无损坏<br><br>Contact resistance: $\leq 20 m\Omega$<br>接触电阻: $\leq 20 m\Omega$  |
| 7.4 | Cold test<br>耐冷性                     | Time: 48h<br>时间: 48 小时<br><br>Temperature: $-25 \pm 3^{\circ}C$<br>温度: $-25 \pm 3^{\circ}C$<br><br>Appearance: NO Damage<br>外观: 无损坏<br><br>Contact resistance: $\leq 20 m\Omega$<br>接触电阻: $\leq 20 m\Omega$  |
| 7.5 | Temperature Cycling<br>温度循环          | Low temperature: $-25 \pm 3^{\circ}C$<br>低温: $-25 \pm 3^{\circ}C$<br><br>High temperature: $85 \pm 3^{\circ}C$<br>高温: $85 \pm 3^{\circ}C$<br><br>For 5 cycles. test after keeping in Normal Condition for 30 min.<br><br>5 次循环后, 放置在正常环境中 30 分钟, 在进行测试<br><br>Appearance: NO Damage<br>外观: 无损坏<br><br>Contact resistance: $\leq 20 m\Omega$<br>接触电阻: $\leq 20 m\Omega$ |

|     |                                 |  |
|-----|---------------------------------|--|
| 7.6 | Invariab lenes humidity<br>恒定湿热 | <p>Temperature: <math>60 \pm 2^{\circ}\text{C}</math><br/>温度: <math>60 \pm 2^{\circ}\text{C}</math></p> <p>Relative humidity: 90%-96% RH<br/>相对湿度: 90%-96% RH</p> <p>Tim: 96h<br/>时间: 96 小时</p> <p>Appearance: NO Damage<br/>外观: 无损坏</p> <p>Contact resistance: <math>\leq 20 \text{ m}\Omega</math><br/>接触电阻: <math>\leq 20 \text{ m}\Omega</math></p> <p>Insulation Resistance: <math>\geq 100 \text{ M}\Omega</math><br/>绝缘电阻: <math>\geq 100 \text{ M}\Omega</math></p>  |
| 7.7 | Salt Spray<br>盐雾试验              | <p>Salt concentration: <math>5 \pm 1\%</math><br/>浓度: <math>5 \pm 1\%</math></p> <p>Temperature: <math>35 \pm 2^{\circ}\text{C}</math><br/>温度: <math>35 \pm 2^{\circ}\text{C}</math></p> <p>Tim: <math>16 \pm 2\text{h}</math><br/>时间: <math>16 \pm 2</math> 小时</p> <p>After salt is removed by running wafer and A drop is removed ,it is measured.</p> <p>把试验样品从试验箱顶悬挂下来,采用浓度 (<math>5 \pm 1</math>) %的氯化钠溶液,连续雾化 16 小时,试验后用流动的蒸馏水轻轻洗去表面沉积物,在常温常驻湿条件下恢复 1-2 小时,外观无损伤</p> <p>Appearance: NO Damage<br/>外观: 无损坏</p> <p>Contact resistance: <math>\leq 20 \text{ m}\Omega</math><br/>接触电阻: <math>\leq 20 \text{ m}\Omega</math></p> |

## 8、Packaging Transportation Storage

包装、运输、贮存

### 8.1 Packaging

包装

- (1) **The packing of plastic inner is the plastic bag,the packing of inner terminal is panel mounting attach material packing, marked with product name, specification model, quantity, date in produced.**

塑件内包装为塑料袋，端子内包装为盘装带料包装，装（贴）入合格证，注明产品名称、规格型号、数量生产日期

- (2) **Exterior package is carton, facing the packing list, the packing list marked with product name, specification model, quantity, date of dispatch.**

外包装为纸箱，贴装箱单、装箱单上注明产品名称、规格型号、数量、出货日期

- (3) **The product in the box must not rock.**

产品在箱内不晃动

### 8.2 Transportation

运输

**Allow for any way transportation, can't get wet and mechanical in jury.**

允许用任何方式运输，勿淋湿及机械性损伤

### 8.3 Storage

贮存

**The connector of packing finished should be in the ambient temperature between-10℃ to+40℃, Relative humidity≤80%. To store in storehouse does not have acidic, alkaline air and other corrosive gas in the ambient air.**

包装完毕的连接器应在环境温度为-10℃~+40℃，相对湿度≤80%，周围空气中没有酸性，碱性及其它腐蚀性气体的库房中贮存