

F E D C B A

9 8 7 6 5 4 3 2 1

| REV. | ECN NO | DESCRIPTION | REVISED | DATE      |
|------|--------|-------------|---------|-----------|
| A    |        | 新订图画        |         | 2020.5.13 |

| 孔数  | 型号       | 尺寸 (mm) |     |
|-----|----------|---------|-----|
|     |          | A       | B   |
| 2   | PH-2ALT  | 2.0     | 8   |
| 3   | PH-3ALT  | 4.0     | 10  |
| 4   | PH-4ALT  | 6.0     | 12  |
| 5   | PH-5ALT  | 8.0     | 14  |
| ... | .....    | ...     | ... |
| 16  | PH-16ALT | 30.0    | 36  |

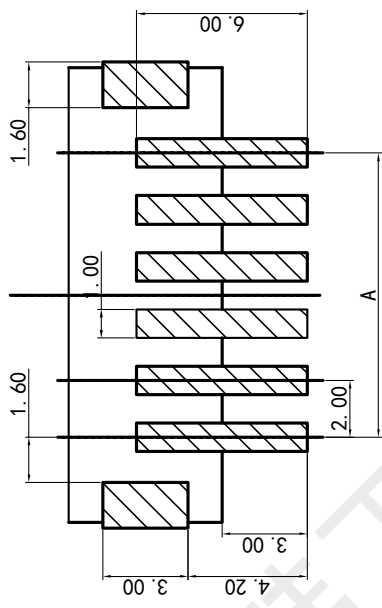
**ROHS**

**Specifications 技术规格:**

Current rating: 2A  
 额定电流: 2A  
 Voltage rating: 100V AC, DC  
 额定电压: 100V AC, DC  
 Insulation Resistance: 1000M $\Omega$  Min.  
 绝缘电阻: 最小1000M $\Omega$   
 Dielectric Withstanding: 800V AC 1Min  
 耐压: 800V AC 1分钟  
 Contact Resistance: 20m $\Omega$  Max.  
 接触电阻: 最大20m $\Omega$   
 Operating Temperature: -25 $^{\circ}$ C to +85 $^{\circ}$ C  
 工作温度: -25 $^{\circ}$ C 到85 $^{\circ}$ C

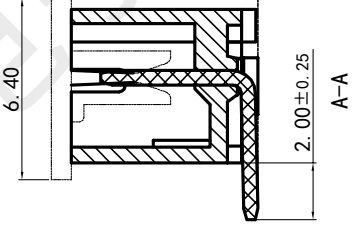
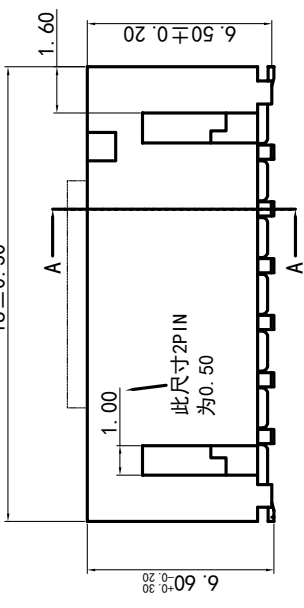
**Materials/材料:**

Contact Material: Brass (Sn plating)  
 接触铜料材料: 黄铜(镀锡)  
 Soldering Terminal: Bronze (Sn plating)  
 焊片材料: 磷铜(镀锡)  
 Insulation Material: LCP UL94V-0 Beige  
 绝缘体材料: LCP UL94 V-0 米黄色



RECOMMENDED P. C. BOARD LAYOUT (TOP VIEW)

GENERAL TOLERANCE :  $\pm 0.05$



**韩下 HANXIA** 深圳市韩下电子有限公司

|         |          |            |  |
|---------|----------|------------|--|
| REV. A1 | UNIT. MM | SCALE. 1:1 |  |
|---------|----------|------------|--|

| GENERAL TOLERANCE      |                 |
|------------------------|-----------------|
| X. $\pm 3^{\circ}$     | .XXX $\pm 0.10$ |
| X. $\pm 2^{\circ}$     | .XX $\pm 0.15$  |
| .XX $\pm 1^{\circ}$    | .X $\pm 0.25$   |
| .XXX $\pm 0.5^{\circ}$ | X. $\pm 0.35$   |

|               |                 |          |
|---------------|-----------------|----------|
| DESIGN: 黄彬    | DATE: 2020.5.13 | DWG. NO. |
| CHECKED: 张伟   | DATE: 2020.5.13 | PART NO. |
| AUDITED:      | DATE:           | PH-NALT  |
| APPROVED: 罗小春 | DATE: 2020.5.13 |          |

|        |               |
|--------|---------------|
| TITLE: | HX-PH2.0-6PLT |
|--------|---------------|

F E D C B A

1 2 3 4 5 6 7 8 9



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## 承 认 书

### SPECIFICATION FOR APPROVAL

客 户 Customer:

\_\_\_\_\_

产品名称 Project:

针座

规格型号 Part No:

HX PH2.0-6PLT

#### 贵公司承认印 Approval signatures

| 料 号/Part No. | 签 章/Signatures |
|--------------|----------------|
|              |                |

日期 Date:

|             |     |  |
|-------------|-----|--|
| 拟制/Drawn    | 黄彬  |  |
| 审核/Check    | 张伟  |  |
| 批准/Approved | 罗小春 |  |

## 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:  $-25^{\circ}\text{C} \sim 85^{\circ}\text{C}$

环境温度:  $-25^{\circ}\text{C} \sim +85^{\circ}\text{C}$

2.2 Applicable Wire Sizes: AWG#28~#22

适用线规: AWG#28~#22

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 damage, Contact without rust, plating not oxidized 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 $\mu\text{m}$<br>镀锡: 3~4 $\mu\text{m}$  | 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 $\mu\text{m}$<br>镀锡: 3~4 $\mu\text{m}$  |                   |
|                               | 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 $\mu\text{m}$<br>镀金: 3~4 $\mu\text{m}$ |                   |
|                               | 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 $\mu\text{m}$<br>镀锡: 3~4 $\mu\text{m}$  |                   |
|                               | Solder tabs<br>焊护耳 | Phosphor bronze<br>锡青磷铜 厚 0.25mm | Tin Plating: 3~4 $\mu\text{m}$<br>镀锡: 3~4 $\mu\text{m}$  |                   |
|                               | Plastic<br>塑壳      | Nylon46 UL94V-0                  | Color: Beige<br>颜色: 米色                                   |                   |

## 5、Electrical Performance:

电气性能

| N0.<br>序号 | Ltem<br>项目                    | Requirement<br>技术要求   |
|-----------|-------------------------------|-----------------------|
| 5.1       | Voltage Rated<br>额定电压         | 100V AC DC            |
| 5.2       | Current Rated<br>额定电流         | 2A AC DC              |
| 5.3       | Contact Resistance<br>接触电阻    | $\leq 0.02 \Omega$    |
| 5.4       | Insulation Resistance<br>绝缘电阻 | $\geq 1000 M\Omega$   |
| 5.5       | Dielectric Strength<br>耐压     | $\geq 500V$ AC/minute |

## 6、Mechanical Performance:

机械性能

| N0.<br>序号 | Ltem<br>项目                               | Requirement<br>技术要求 |
|-----------|--|---------------------|
| 6.1       | Male contact Retention force<br>PIN 针固定力 | $\geq 15N$ per pin  |
| 6.2       | Female contact Retention force<br>端子固定力  | $\geq 15N$ per pin  |
| 6.3       | Plug-in force<br>插入力                     | $\leq 3N$ per pin   |
| 6.4       | Plug-out force<br>拔出力                    | $\geq 0.5N$ per pin |

## 7、Endurance Characteristics:

环境性能

| N0.<br>序号 | Ltem<br>项目            | Requirement<br>技术要求  |
|-----------|-----------------------|--|
| 7.1       | Soldering rest<br>可焊性 | Time: $2.5 \pm 0.5S$<br>时间: $2.5 \pm 0.5S$<br><br>Temperature: $260 \pm 5^\circ C$<br>温度: $260 \pm 5^\circ C$<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 | <p>Time: 5 ± 1S<br/>时间: 5 ± 1S</p> <p>Temperature: 260 ± 5°C<br/>温度: 260 ± 5°C</p> <p>Appearance: NO Damage<br/>外观: 无损坏</p>  |
| 7.3 | Heat test<br>耐热性                     | <p>Time: 96h<br/>时间: 96 小时</p> <p>Temperature: +85 ± 3°C<br/>温度: +85 ± 3°C</p> <p>Appearance: NO Damage<br/>外观: 无损坏</p> <p>Contact resistance: ≤ 20 mΩ<br/>接触电阻: ≤ 20 mΩ</p>   |
| 7.4 | Cold test<br>耐冷性                     | <p>Time: 48h<br/>时间: 48 小时</p> <p>Temperature: -25 ± 3°C<br/>温度: -25 ± 3°C</p> <p>Appearance: NO Damage<br/>外观: 无损坏</p> <p>Contact resistance: ≤ 20 mΩ<br/>接触电阻: ≤ 20 mΩ</p>   |
| 7.5 | Temperature Cycling<br>温度循环          | <p>Low temperature: -25 ± 3°C<br/>低温: -25 ± 3°C</p> <p>High temperature: 85 ± 3°C<br/>高温: 85 ± 3°C</p> <p>For 5 cycles. test after keeping in Normal Condition for 30 min.<br/>5 次循环后, 放置在正常环境中 30 分钟, 在进行测试</p> <p>Appearance: NO Damage<br/>外观: 无损坏</p> <p>Contact resistance: ≤ 20 mΩ<br/>接触电阻: ≤ 20 mΩ</p> |

|     |                                |  |
|-----|--------------------------------|--|
| 7.6 | Invariablenes 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<br/>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, specificcation 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

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