

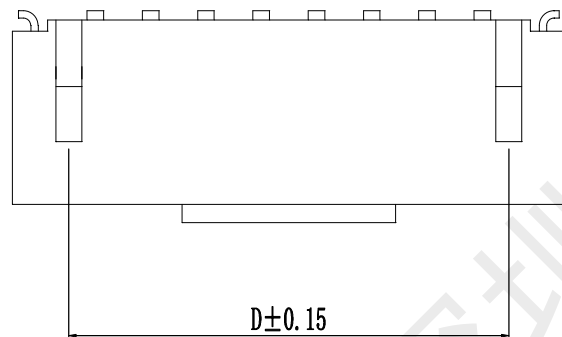
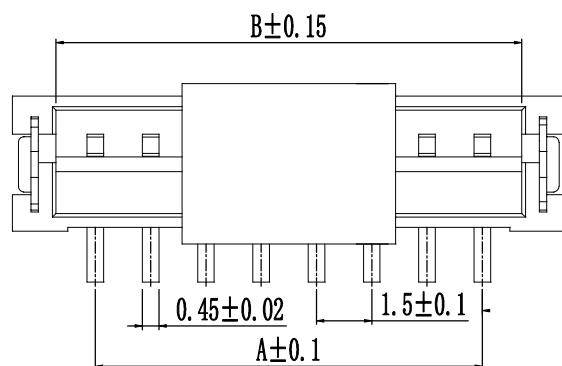
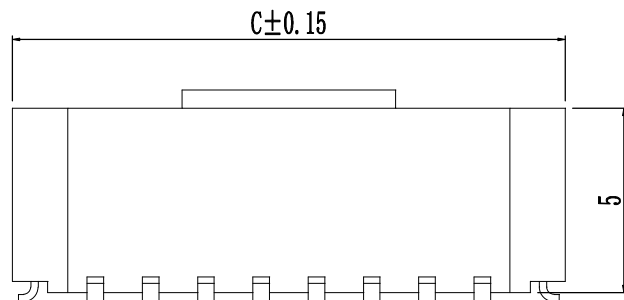
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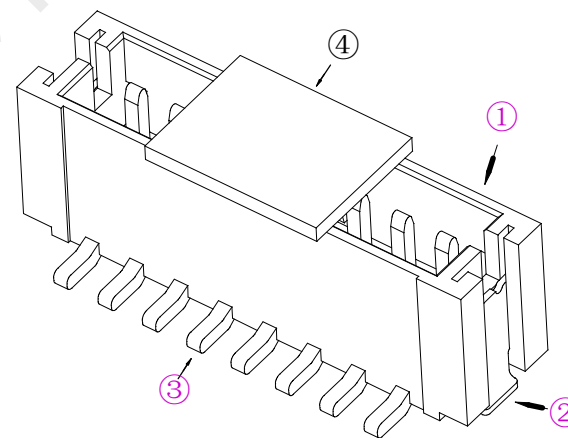
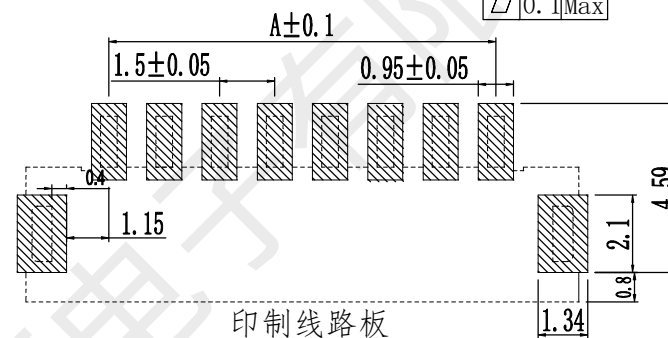
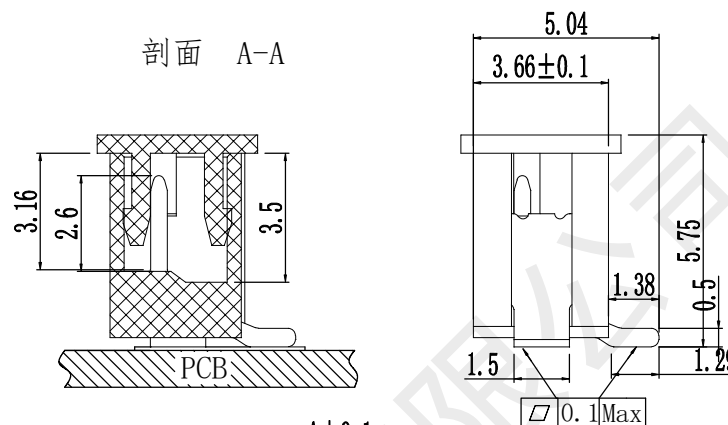
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剖面 A-A



## 1. 技术参数:

- 1.1 额定电流: 1.0A AC/DC  
1.2 额定电压: 125V AC DC  
1.3 耐电压: 500V ACminute  
1.4 接触电阻: 20mΩ MAX  
1.5 绝缘电阻: 500MΩ MIN  
2. 工作温度: -25℃~+85℃

| Circuits | Dimensions (mm) |       |       |       |
|----------|-----------------|-------|-------|-------|
|          | A               | B     | C     | D     |
| 2PIN     | 1.5             | 3.66  | 6.02  | 2.96  |
| 3PIN     | 3.0             | 5.16  | 7.52  | 4.46  |
| 4PIN     | 4.5             | 6.66  | 9.02  | 5.96  |
| 5PIN     | 6.0             | 8.16  | 10.52 | 7.46  |
| 6PIN     | 7.5             | 9.66  | 12.02 | 8.96  |
| 7PIN     | 9.0             | 11.16 | 13.52 | 10.46 |
| 8PIN     | 10.5            | 12.66 | 15.02 | 11.96 |
| 9PIN     | 12.0            | 14.16 | 16.52 | 13.46 |
| 10PIN    | 13.5            | 15.66 | 18.02 | 14.96 |
| 11PIN    | 15.0            | 17.16 | 19.52 | 16.46 |
| 12PIN    | 16.5            | 18.66 | 21.02 | 17.96 |
| 13PIN    | 18.0            | 20.16 | 22.52 | 19.46 |
| 14PIN    | 19.5            | 21.66 | 24.02 | 20.96 |
| 15PIN    | 21.0            | 23.16 | 25.52 | 22.46 |
| 16PIN    | 22.5            | 24.66 | 27.02 | 23.96 |

| NO | 物料名称 | 数量 (PCS) | 材质           | 镀涂 |
|----|------|----------|--------------|----|
| ①  | 塑胶件  | 1 PCS    | VicrystR8535 | 本色 |
| ②  | 盖板   | 1 PCS    | VicrystR8535 | 本色 |
| ③  | PIN针 | 2~16 PCS | 黄铜H62        | 亮锡 |
| ④  | 焊片   | 2 PCS    | 黄铜H62        | 亮锡 |

电镀标准: 镀层: 0.5~1.2um 锡层: 2.5~3.5um

更改记录

| 标记 | 变更内容 | 签名/日期 | 未注公差        | 单位 | mm  | 标准化 | 签名/日期         |
|----|------|-------|-------------|----|-----|-----|---------------|
|    |      |       | X.X ±0.30   | 版本 | A   | 编制  | 黄彬 2020.8.25  |
|    |      |       | X.XX ±0.20  | 比例 | 1:1 | 审核  | 张伟 2020.8.25  |
|    |      |       | X.XXX ±0.10 | 投影 |     | 批准  | 罗小春 2020.8.25 |
|    |      |       | Angle ±3.0° | 页次 | 1/1 |     |               |



深圳市韩下电子有限公司

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4

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深圳市韩下电子有限公司  
Shenzhen Hanxia Electronic Co., Ltd  
Tel: 0755-23086569

## 承 认 书

### SPECIFICATION FOR APPROVAL

产 品 编 码  
Material code:

\_\_\_\_\_

产品名称 Project:

针座

\_\_\_\_\_

规格型号 Part No:

HX ZH1.5-4PLT

\_\_\_\_\_

#### 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℃~ 85℃**

环境温度：-25℃~+85℃

**2.2 Applicable Wire Sizes:AWG#26~#32**

适用线规： AWG#26~#32

**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 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                          | Expiain<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>Comp liant |
| 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

| N0.<br>序号 | Ltem<br>项 目                   | Requirement<br>技术要求   |
|-----------|-------------------------------|-----------------------|
| 5.1       | Voltage Rated<br>额定电压         | 50V AC DC             |
| 5.2       | Current Rated<br>额定电流         | 1A AC DC              |
| 5.3       | Contact Resistance<br>接触电阻    | $\leq 0.02 \Omega$    |
| 5.4       | Insulation Resistance<br>绝缘电阻 | $\geq 500 M\Omega$    |
| 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: $250 \pm 5^\circ C$<br>温度: $250 \pm 5^\circ C$<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 | Time: $5 \pm 1\text{S}$<br>时间: $5 \pm 1\text{S}$<br><br>Temperature: $250 \pm 5^\circ\text{C}$<br>温度: $250 \pm 5^\circ\text{C}$<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: $+85 \pm 3^\circ\text{C}$<br>温度: $+85 \pm 3^\circ\text{C}$<br><br>Appearance: NO Damage<br>外观: 无损坏<br><br>Contact resistance: $\leq 20\text{ m}\Omega$<br>接触电阻: $\leq 20\text{ m}\Omega$                                                                                                                                                                     |
| 7.4 | Cold test<br>耐冷性                     | Time: 48h<br>时间: 48 小时<br><br>Temperature: $-25 \pm 3^\circ\text{C}$<br>温度: $-25 \pm 3^\circ\text{C}$<br><br>Appearance: NO Damage<br>外观: 无损坏<br><br>Contact resistance: $\leq 20\text{ m}\Omega$<br>接触电阻: $\leq 20\text{ m}\Omega$                                                                                                                                                                     |
| 7.5 | Temperature Cycling<br>温度循环          | Low temperature: $-25 \pm 3^\circ\text{C}$<br>低温: $-25 \pm 3^\circ\text{C}$<br><br>High temperature: $85 \pm 3^\circ\text{C}$<br>高温: $85 \pm 3^\circ\text{C}$<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, 进行测试<br><br>Appearance: NO Damage<br>外观: 无损坏<br><br>Contact resistance: $\leq 20\text{ m}\Omega$<br>接触电阻: $\leq 20\text{ m}\Omega$ |

|     |                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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