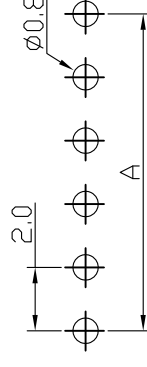
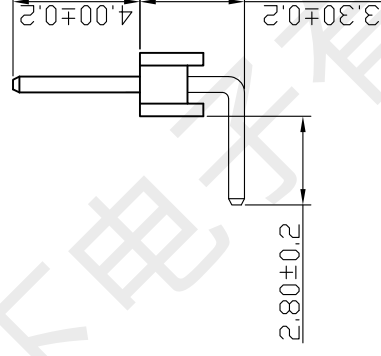
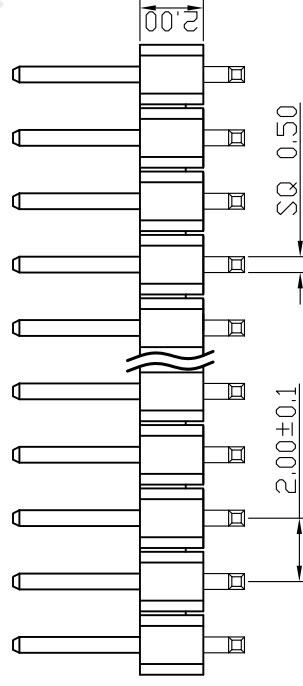
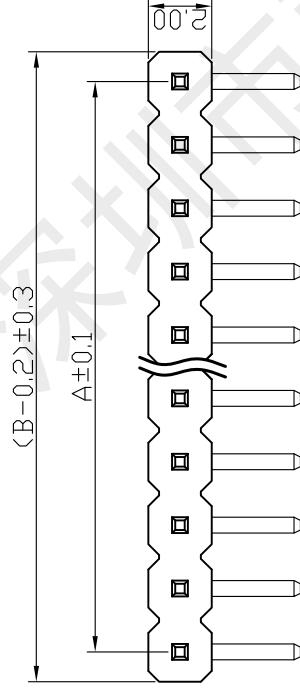


## SPECIFICATIONS

Current Rating: 1.5 Amps  
Insulation Resistance: 1000M  $\Omega$  Min  
Contact Resistance: 20m  $\Omega$  Max  
Withstanding Voltage: AC 500V  
Operation Temperature: -40° to +105°  
Contact Material: Brass  
Standard: PA6T  
Insulator Material: Polyester (UL 94V-0)  
Contact Plating: Gold Flash  
Max. Processing Temp: 240° C for 30-60 seconds  
(260° C for 5 seconds)

RECOMMEND P.C.B LAYOUT  
PCB TOLERANCE: +0.05 (TOP VIEW)

| No. of | DIM. A | DIM. B | No. of | DIM. A | DIM. B | No. of | DIM. A | DIM. B | No. of | DIM. A | DIM. B |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1      | 0.00   | 2.00   | 11     | 20.00  | 22.00  | 21     | 40.00  | 42.00  | 31     | 60.00  | 62.00  |
| 2      | 2.00   | 4.00   | 12     | 22.00  | 24.00  | 22     | 42.00  | 44.00  | 32     | 62.00  | 64.00  |
| 3      | 4.00   | 6.00   | 13     | 24.00  | 26.00  | 23     | 44.00  | 46.00  | 33     | 64.00  | 66.00  |
| 4      | 6.00   | 8.00   | 14     | 26.00  | 28.00  | 24     | 46.00  | 48.00  | 34     | 66.00  | 68.00  |
| 5      | 8.00   | 10.00  | 15     | 28.00  | 30.00  | 25     | 48.00  | 50.00  | 35     | 68.00  | 70.00  |
| 6      | 10.00  | 12.00  | 16     | 30.00  | 32.00  | 26     | 50.00  | 52.00  | 36     | 70.00  | 72.00  |
| 7      | 12.00  | 14.00  | 17     | 32.00  | 34.00  | 27     | 52.00  | 54.00  | 37     | 72.00  | 74.00  |
| 8      | 14.00  | 16.00  | 18     | 34.00  | 36.00  | 28     | 54.00  | 56.00  | 38     | 74.00  | 76.00  |
| 9      | 16.00  | 18.00  | 19     | 36.00  | 38.00  | 29     | 56.00  | 58.00  | 39     | 76.00  | 78.00  |
| 10     | 18.00  | 20.00  | 20     | 38.00  | 40.00  | 30     | 58.00  | 60.00  | 40     | 78.00  | 80.00  |


**韩下**  
 HANXIA  
 深圳市韩下电子有限公司®

|                                      |         |       |         |                                    |  |          |    |            |     |             |            |
|--------------------------------------|---------|-------|---------|------------------------------------|--|----------|----|------------|-----|-------------|------------|
| UNLESS OTHERWISE SPECIFIED TOLERANCE |         |       |         | DRAWING NAME: HX PZ2.0-1x3P WZ -AM |  |          |    |            |     |             |            |
| X                                    | : ±0.30 | X°    | : ±5°   |                                    |  | SIZE     | A4 | SCALE      | N:1 | PRODUCT NO. |            |
| X.X                                  | : ±0.25 | X.X°  | : ±1°   |                                    |  | REV      | A  | UNIT       | mm  | PROJECT     |            |
| X.XX:                                | : ±0.20 | X.XX° | : ±0.5° |                                    |  | CHECKED: |    |            |     |             |            |
| DRAWN:                               | 黄彬      |       |         | 2022/04/24                         |  | 张伟       |    | 2022/04/24 |     | APPROVED:   | 罗小春        |
|                                      |         |       |         |                                    |  |          |    |            |     |             | 2022/04/24 |



深圳市韩下电子有限公司

Shenzhen Hanxia Electronic Co., Ltd

Tel: 0755-33819206 Fax: 0755-27597491

## 承 认 书

### SPECIFICATION FOR APPROVAL

客 户 Customer:

产品名称 Project:

排针

规格型号 Part No:

HX PZ2.0-1x3P WZ-AM

#### 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:-40℃~+105℃**

环境温度：-40℃~+105℃

**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 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         | 250V AC DC            |
| 5.2       | Current Rated<br>额定电流         | 1.5A 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 | $\geq 10N$ per pin  |
| 6.2       | Female contact Retention force<br>端子固定力  | $\geq 10N$ 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 | Time: $5 \pm 1\text{S}$<br>时间: $5 \pm 1\text{S}$<br><br>Temperature: $260 \pm 5^\circ\text{C}$<br>温度: $260 \pm 5^\circ\text{C}$<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