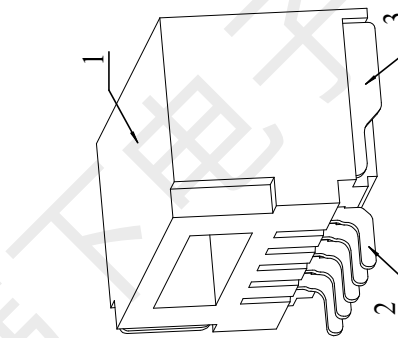
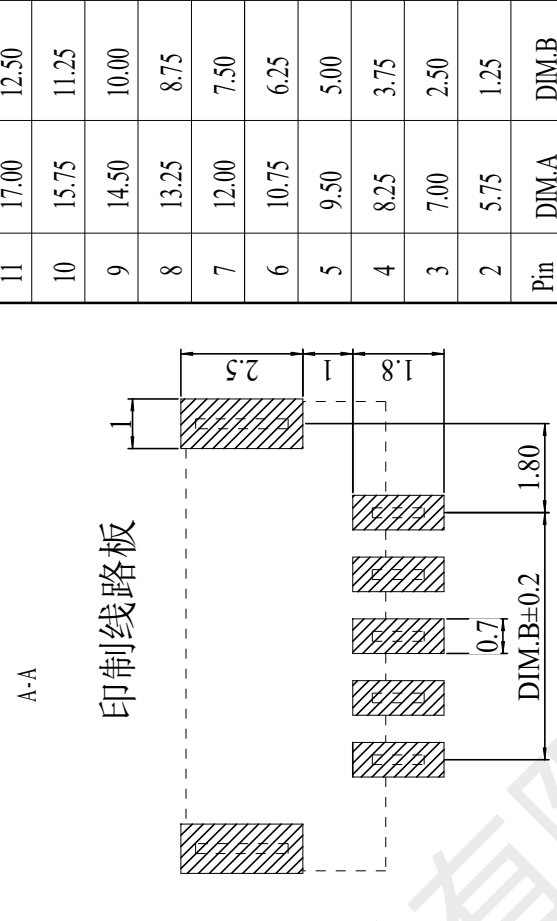
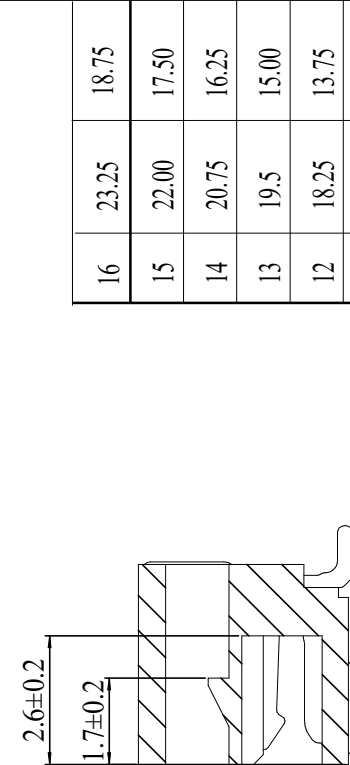
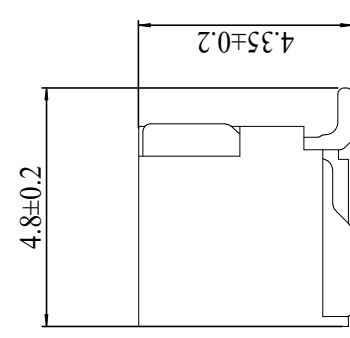
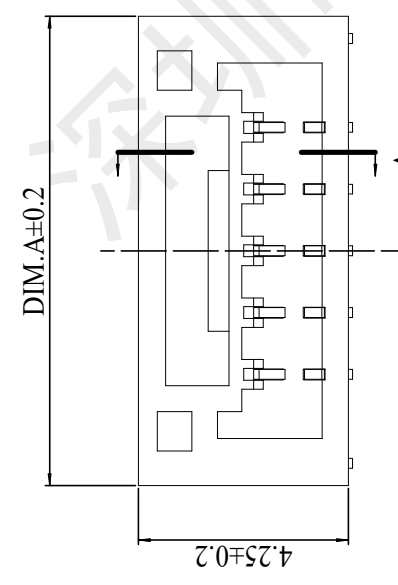


| REV. | EC# | DESCRIPTION | DATE       | DRAWN | CHECK | APPROVED |
|------|-----|-------------|------------|-------|-------|----------|
| 1.00 |     | 封装设计        | 2020-03-22 |       |       |          |
|      |     |             |            |       |       |          |

| REV. | EC# | DESCRIPTION | DATE       | DRAWN | CHECK | APPROVED |
|------|-----|-------------|------------|-------|-------|----------|
| 1.00 |     | 封装设计        | 2020-03-22 |       |       |          |
|      |     |             |            |       |       |          |



### 印制线路板

适应基板厚度：1.2mm~1.6mm  
 温度范围：-25℃~85℃  
 额定电压：125V AC/DC  
 额定电流：1A  
 接触电阻： $\leq 0.02 \Omega$   
 绝缘电阻： $\geq 100M \Omega$   
 耐压：250V AC/minute

| NO. | NAME         | QTY   | DESCRIPTION                |
|-----|--------------|-------|----------------------------|
| 3   | FITTING NAIL | 2 PCS | 材质：磷青铜, 电镀：镀亮锡60μMIN       |
| 2   | PIN          | n PCS | 材质：磷青铜, 电镀：镀亮锡60μMIN       |
| 1   | Housing      | 1 PCS | 材质：LCP (UL94V-0), 颜色：本色或黑色 |

**技术要求：**

- 1) 材质：见附表；
- 2) 电镀：见附表；
- 3) 塑件表面平整、光洁、无毛刺、气泡、烧焦、变形、浇口无拉伤、多料或缺料等不良现象；
- 4) 端子表面无氧化、电镀不良等现象。

|                  |     |            |          |              |             |          |
|------------------|-----|------------|----------|--------------|-------------|----------|
| DRAW :           | 黄彬  | 2020-03-22 | TITLE :  | 针座           | DRAW NAME : | HX002055 |
| DESIGN :         |     |            | SERIES : | 12502 SERIES | DRAW NO. :  |          |
| CHECK :          | 张伟  | 2020-03-22 | P/N :    |              | UNIT :      | SHEET :  |
| APPROVED :       | 罗小春 | 2020-03-22 | REV. :   | 1.00         | SCALE :     | N/A      |
| CUSTOMER DRAWING |     |            |          |              |             |          |

**深圳市韩下电子有限公司**

| GENERAL TOLERANCES |     |        |
|--------------------|-----|--------|
| DIM                | TOL | DEG    |
| X.                 | X°  | +3.00° |
| X.X                | X°  | +2.00° |
| X.XX               | X°  | +1.00° |
| X.XXX              | X°  | +1.00° |

|    |     |       |       |
|----|-----|-------|-------|
| 11 | 16  | 23.25 | 18.75 |
| 10 | 15  | 22.00 | 17.50 |
| 9  | 14  | 20.75 | 16.25 |
| 8  | 13  | 19.5  | 15.00 |
| 7  | 12  | 18.25 | 13.75 |
| 6  | 11  | 17.00 | 12.50 |
| 5  | 10  | 15.75 | 11.25 |
| 4  | 9   | 14.50 | 10.00 |
| 3  | 8   | 13.25 | 8.75  |
| 2  | 7   | 12.00 | 7.50  |
| 1  | 6   | 10.75 | 6.25  |
|    | 5   | 9.50  | 5.00  |
|    | 4   | 8.25  | 3.75  |
|    | 3   | 7.00  | 2.50  |
|    | 2   | 5.75  | 1.25  |
|    | Pin | DIM.A | DIM.B |



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:

针座

\_\_\_\_\_

规格型号 Part No:

HX002055

\_\_\_\_\_

### 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#28~#32

适用线规： AWG#28~#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>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

| N0.<br>序号 | Ltem<br>项目                    | Requirement<br>技术要求   |
|-----------|-------------------------------|-----------------------|
| 5.1       | Voltage Rated<br>额定电压         | 125V 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 | $\geq 100 M\Omega$    |
| 5.5       | Dielectric Strength<br>耐压     | $\geq 250V$ 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 | <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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