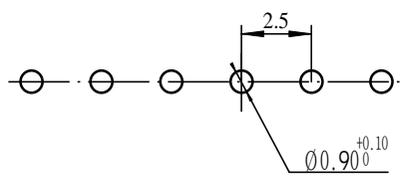
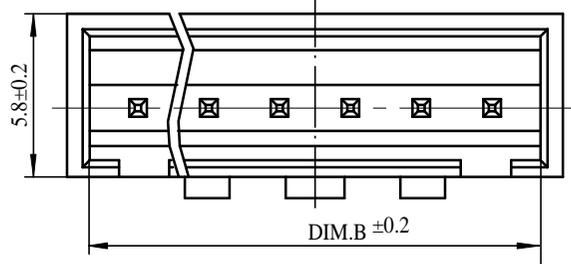
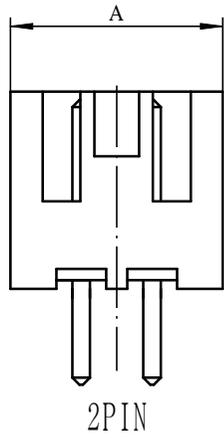
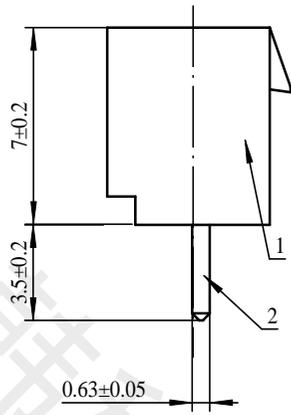
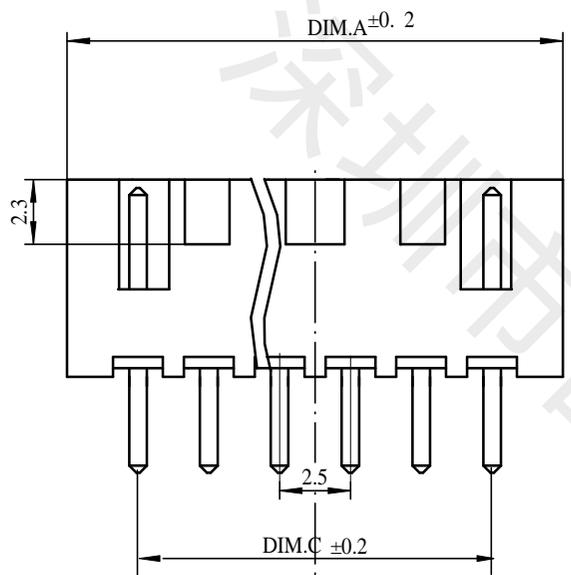


| REV. | EC# | DESCRIPTION | DATE      | DRAWN | CHECK | APPROVED |
|------|-----|-------------|-----------|-------|-------|----------|
| 1.00 |     | 初版发行        | 2020-8-26 |       |       |          |



PCB LAYOUT

| GENERAL TOLERANCES |       |        |        |
|--------------------|-------|--------|--------|
| DIM                | TOL   | DIM    | DEG    |
| X.                 |       | X°     | ±3.00° |
| X.X                | ±0.35 | X.X°   | ±2.00° |
| X.XX               | ±0.25 | X.XX°  | ±1.00° |
| X.XXX              | ±0.15 | X.XXX° |        |

| NUMBER OF PINS | DIM. A | DIM. B | DIM. C |
|----------------|--------|--------|--------|
| 15P            | 40     | 38.6   | 35     |
| 14P            | 37.5   | 36.1   | 32.5   |
| 13P            | 35     | 33.6   | 30     |
| 12P            | 32.5   | 31.1   | 27.5   |
| 11P            | 30     | 28.6   | 25     |
| 10P            | 27.5   | 26.1   | 22.5   |
| 9P             | 25     | 23.6   | 20     |
| 8P             | 22.5   | 21.1   | 17.5   |
| 7P             | 20     | 18.6   | 15     |
| 6P             | 17.5   | 16.1   | 12.5   |
| 5P             | 15     | 13.6   | 10     |
| 4P             | 12.5   | 11.1   | 7.5    |
| 3P             | 10     | 8.6    | 5      |
| 2P             | 7.5    | 6.1    | 2.5    |

适应基板厚度: 1.2mm~1.6mm  
 温度范围: -25℃~85℃  
 额定电压: 250V AC/DC  
 额定电流: 3A  
 接触电阻: <math>\leq 0.01 \Omega</math>  
 绝缘电阻: >math>\geq 1000M\Omega</math>  
 耐压: 1000V AC/minute

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。

| 2   | PIN     | n PCS | 材质: 黄铜, 电镀: 镀亮锡60u"MIN     |
|-----|---------|-------|----------------------------|
| 1   | Housing | 1 PCS | 材质: PA66 (UL94V-0), 颜色: 本色 |
| NO. | NAME    | Q'TY  | DESCRIPTION                |

**首韩** 深圳市首韩科技有限公司

|                  |     |           |         |               |            |               |
|------------------|-----|-----------|---------|---------------|------------|---------------|
| DRAW :           | 李春风 | 2020-8-28 | TITLE:  | 2.54-13P ZZDK | DRAW NAME: | SH2020-XHBA-1 |
| DESIGN:          |     |           | SERIES: | 1501 SERIES   | DRAW NO.   |               |
| CHECK:           | 钟华华 | 2020-8-28 | P/N:    |               | UNIT:      | SHEET:        |
| APPROVED         | 罗孝金 | 2020-8-28 | REV.    | 1.00          | SCALE      | N/A           |
| CUSTOMER DRAWING |     |           | REV.    | 1.00          | SCALE      | N/A           |
|                  |     |           | UNIT:   | mm            | SHEET:     | 1/1           |



深圳市首韩科技有限公司

SHENZHEN SHOUHAN TECHNOLOGY CO., LTD

Tel: 0755-27597601 Fax: 0755-27597491

# 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:

2.54-13P ZZDK

\_\_\_\_\_

### 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#22~#30

适用线规：AWG#22~#30

### 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                          | 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. 序号 | Item 项目                       | Requirement 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         | 3A AC DC                        |
| 5.3    | Contact Resistance<br>接触电阻    | $\leq 10 \text{ m}\Omega$       |
| 5.4    | Insulation Resistance<br>绝缘电阻 | $\geq 1000 \text{ M}\Omega$     |
| 5.5    | Dielectric Strength<br>耐压     | $\geq 1000 \text{ V AC/minute}$ |

## 6、Mechanical Performance:

机械性能

| NO. 序号 | Item 项目                                  | Requirement 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. 序号 | Item 项目               | Requirement 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: $230 \pm 5^\circ \text{C}$<br>温度: $230 \pm 5^\circ \text{C}$<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 | <p>Time: 5 ± 1S<br/>时间: 5 ± 1S</p> <p>Temperature: 230 ± 5°C<br/>温度: 230 ± 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 | 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