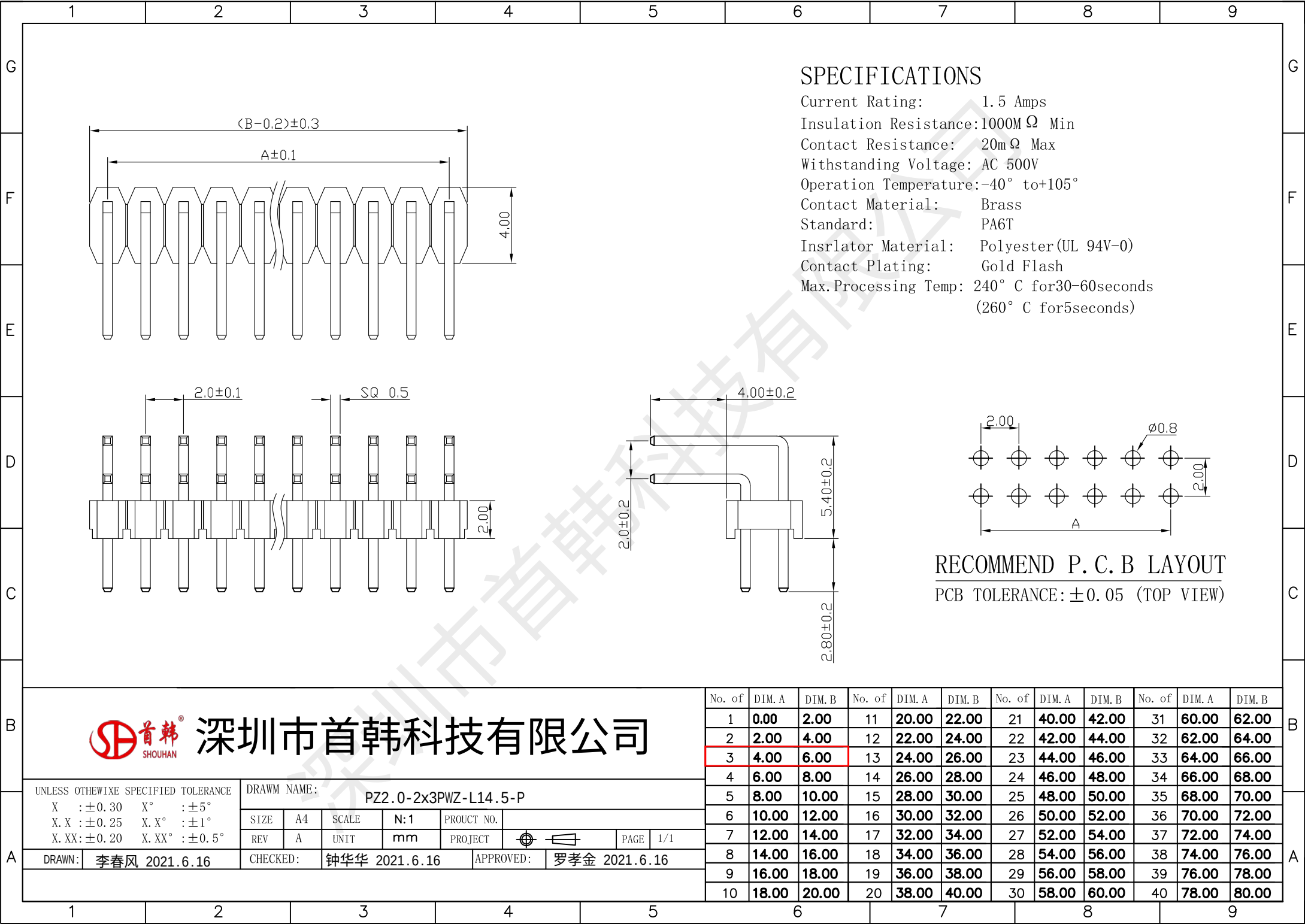




SPECIFICATIONS

Current Rating: 1.5 Amps  
Insulation Resistance:1000M Ω Min  
Contact Resistance: 20m Ω Max  
Withstanding Voltage: AC 500V  
Operation Temperature:-40° to+105°  
Contact Material: Brass  
Standard: PA6T  
Insrlator Material: Polyester(UL 94V-0)  
Contact Plating: Gold Flash  
Max.Processing Temp: 240° C for30-60seconds  
(260° C for5seconds)

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



深圳市首韩科技有限公司

UNLESS OTHEWIXE SPECIFIED TOLERANCE

X : ±0.30 X° : ±5°  
X. X : ±0.25 X. X° : ±1°  
X. XX: ±0.20 X. XX° : ±0.5°

DRAWM NAME:

PZ2.0-2x3PWZ-L14.5-P

|      |    |       |     |            |
|------|----|-------|-----|------------|
| SIZE | A4 | SCALE | N:1 | PROUCT NO. |
| REV  | A  | UNIT  | mm  | PROJECT    |

DRAWN: 李春风 2021.6.16 CHECKED: 钟华华 2021.6.16 APPROVED: 罗孝金 2021.6.16

| 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  |



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:

排针

规格型号 Part No:

PZ2.0-2x3PWZ-L14.5-P

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 Model PH Connector.  
本规范内容适用于本公司 PH 系列型条形连接器产品的生产与检验.

## 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:/

适用线规: /

### 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 oxided 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

| 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 0.20mm | Tin Plating:2~3 μ m<br>镀锡: 2~3 μ m | RoHS<br>Comp liant |
| Housing<br>孔 座        | Plastic<br>塑 壳     | Nylon66 UL94V-0                  | Color: White<br>颜色: 白色             |                    |
| Wafer<br>直针座<br>弯针座   | Plastic<br>塑 壳     | Nylon66 UL94V-0                  | Color: White<br>颜色: 白色             |                    |
|                       | Contact<br>插针      | Brass<br>黄铜 厚 0.50mm             | Tin Plating:3~4 μ m<br>镀锡: 3~4 μ m |                    |
| Wafer<br>卧贴针座<br>立贴针座 | Plastic<br>塑 壳     | Nylon9T UL94V-0                  | Color: Beige<br>颜色: 米色             |                    |
|                       | Contact<br>插针      | Brass<br>黄铜 厚 0.50mm             | 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 0.40mm | Tin Plating:3~4 μ m<br>镀锡: 3~4 μ m |                    |



## 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         | 1.5A AC DC             |
| 5.3       | Contact Resistance<br>接触电阻    | $\leq 20$ m $\Omega$   |
| 5.4       | Insulation Resistance<br>绝缘电阻 | $\geq 1000$ M $\Omega$ |
| 5.5       | Dielectric Strength<br>耐 压    | $\geq 500$ V 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 | /                   |
| 6.2       | Female contact Retention force<br>端子固定力  | /                   |
| 6.3       | Plug-in force<br>插入力                     | $\leq 8$ N per pin  |
| 6.4       | Plug-out force<br>拔出力                    | $\geq 1$ N 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: $2.5 \pm 0.5$ S<br>时间: $2.5 \pm 0.5$ S<br><br>Temperature: $260 \pm 5^\circ\text{C}$<br>温度: $260 \pm 5^\circ\text{C}$<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 | 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: $\leq 10\text{ m}\Omega$<br>接触电阻: $\leq 10\text{ m}\Omega$                                                                                                                                                                     |
| 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: $\leq 10\text{ m}\Omega$<br>接触电阻: $\leq 10\text{ m}\Omega$                                                                                                                                                                     |
| 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: $\leq 10\text{ m}\Omega$<br>接触电阻: $\leq 10\text{ m}\Omega$ |

|     |                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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<br/>Appearance: NO Damage<br/>外观: 无损坏</p> <p>Contact resistance: <math>\leq 10 \text{ m}\Omega</math><br/>接触电阻: <math>\leq 10 \text{ m}\Omega</math></p> <p>Insulation Resistance: <math>\geq 1000 \text{ M}\Omega</math><br/>绝缘电阻: <math>\geq 1000 \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 10 \text{ m}\Omega</math><br/>接触电阻: <math>\leq 10 \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