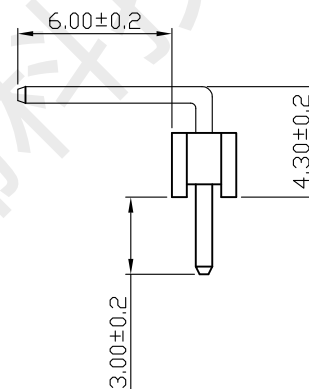
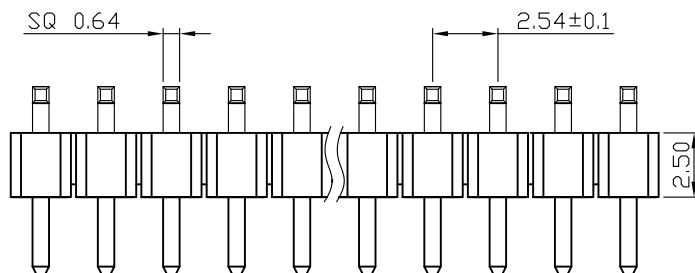
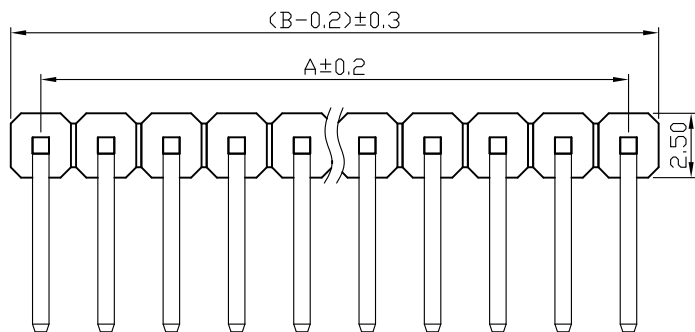


RECOMMEND P. C. B LAYOUT  
PCB TOLERANCE:  $\pm 0.05$  (TOP VIEW)

## SPECIFICATIONS

Current Rating: 3Amps  
Insulation Resistance: 1000M $\Omega$  Min  
Contact Resistance: 20M $\Omega$  Max  
Withstanding Voltage: AC 1000V  
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)



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UNLESS OTHERWISE SPECIFIED TOLERANCE

X :  $\pm 0.30$  X° :  $\pm 5^\circ$   
X.X :  $\pm 0.25$  X.X° :  $\pm 1^\circ$   
X.XX :  $\pm 0.20$  X.XX° :  $\pm 0.5^\circ$

DRAWN NAME:

PZ2.54-1x3PWZ-L13.8-P

SIZE

A4

SCALE

N:1

PROUCT NO.

REV

A

UNIT

mm

PROJECT

☉

☉

PAGE

1/1

DRAW; 李春风 2022/04/24

CHECKED:

钟华华

2022/04/24

APPROVED:

罗孝金

2022/04/24

| 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   | 2.54   | 11     | 25.40  | 27.94  | 21     | 50.80  | 53.34  | 31     | 76.20  | 78.74  |
| 2      | 2.54   | 5.08   | 12     | 27.94  | 30.48  | 22     | 53.34  | 55.88  | 32     | 78.74  | 81.28  |
| 3      | 5.08   | 7.62   | 13     | 30.48  | 33.02  | 23     | 55.88  | 58.42  | 33     | 81.28  | 83.82  |
| 4      | 7.62   | 10.16  | 14     | 33.02  | 35.56  | 24     | 58.42  | 60.96  | 34     | 83.82  | 86.36  |
| 5      | 10.16  | 12.70  | 15     | 35.56  | 38.10  | 25     | 60.96  | 63.50  | 35     | 86.36  | 88.90  |
| 6      | 12.70  | 15.24  | 16     | 38.10  | 40.64  | 26     | 63.50  | 66.04  | 36     | 88.90  | 91.44  |
| 7      | 15.24  | 17.78  | 17     | 40.64  | 43.18  | 27     | 66.04  | 68.58  | 37     | 91.44  | 93.98  |
| 8      | 17.78  | 20.32  | 18     | 43.18  | 45.72  | 28     | 68.58  | 71.12  | 38     | 93.98  | 96.52  |
| 9      | 20.32  | 22.86  | 19     | 45.72  | 48.26  | 29     | 71.12  | 73.66  | 39     | 96.52  | 99.06  |
| 10     | 22.86  | 25.40  | 20     | 48.26  | 50.80  | 30     | 73.66  | 76.20  | 40     | 99.06  | 101.60 |



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:

PZ2.54-1x3PWZ-L13.8-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         | 250V AC DC              |
| 5.2       | Current Rated<br>额定电流         | 3A AC DC                |
| 5.3       | Contact Resistance<br>接触电阻    | $\leq 20$ m $\Omega$    |
| 5.4       | Insulation Resistance<br>绝缘电阻 | $\geq 1000$ M $\Omega$  |
| 5.5       | Dielectric Strength<br>耐 压    | $\geq 1000$ 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 | <p>Time: <math>5 \pm 1\text{S}</math><br/>时间: <math>5 \pm 1\text{S}</math></p> <p>Temperature: <math>260 \pm 5^\circ\text{C}</math><br/>温度: <math>260 \pm 5^\circ\text{C}</math></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: <math>+85 \pm 3^\circ\text{C}</math><br/>温度: <math>+85 \pm 3^\circ\text{C}</math></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>                                                                                                                                                                                        |
| 7.4 | Cold test<br>耐冷性                     | <p>Time: 48h<br/>时间: 48 小时</p> <p>Temperature: <math>-25 \pm 3^\circ\text{C}</math><br/>温度: <math>-25 \pm 3^\circ\text{C}</math></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>                                                                                                                                                                                        |
| 7.5 | Temperature Cycling<br>温度循环          | <p>Low temperature: <math>-25 \pm 3^\circ\text{C}</math><br/>低温: <math>-25 \pm 3^\circ\text{C}</math></p> <p>High temperature: <math>85 \pm 3^\circ\text{C}</math><br/>高温: <math>85 \pm 3^\circ\text{C}</math></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, 进行测试</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> |

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