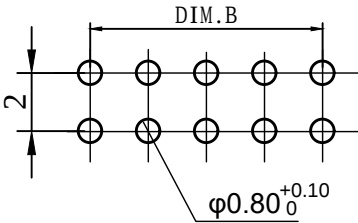
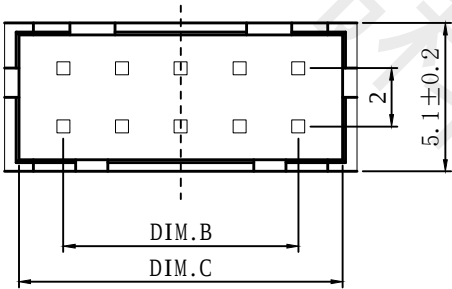
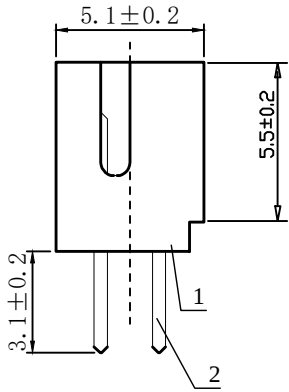
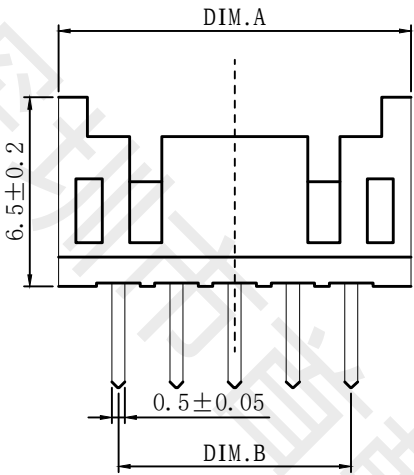


| REV. | EC# | DESCRIPTION | DATE DRAWN | CHECK | APPROVED |
|------|-----|-------------|------------|-------|----------|
| 1.00 |     | 初版发行        | 2020-8-28  |       |          |
|      |     |             |            |       |          |
|      |     |             |            |       |          |

|                |       |       |       |
|----------------|-------|-------|-------|
| 2x15P          | 32.0  | 28.0  | 30.9  |
| 2x14P          | 30.0  | 26.0  | 28.9  |
| 2x13P          | 28.0  | 24.0  | 26.9  |
| 2x12P          | 26.0  | 22.0  | 24.9  |
| 2x11P          | 24.0  | 20.0  | 22.9  |
| 2x10P          | 22.0  | 18.0  | 20.9  |
| 2x9P           | 20.0  | 16.0  | 18.9  |
| 2x8P           | 18.0  | 14.0  | 16.9  |
| 2x7P           | 16.0  | 12.0  | 14.9  |
| 2x6P           | 14.0  | 10.0  | 12.9  |
| 2x5P           | 12.0  | 8.0   | 10.9  |
| 2x4P           | 10.0  | 6.0   | 8.9   |
| 2x3P           | 8.0   | 4.0   | 6.9   |
| 2x2P           | 6.0   | 2.0   | 4.9   |
| MUMBER OF PINS | DIM.A | DIM.B | DIM.C |



PCB LAYOUT

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。

温度范围: -25℃~85℃  
额定电压: 250V AC/DC  
额定电流: 3A AC/DC  
接触电阻: ≤0.02Ω  
绝缘电阻: ≥1000MΩ  
耐 压 值: 800V AC/minute  
适用基板厚度: 1.6mm

|     |         |       |                              |
|-----|---------|-------|------------------------------|
| 2   | PIN     | n PCS | 材质: 黄铜, 电镀: 镀亮锡              |
| 1   | Housing | 1 PCS | 材质: PA6T (耐温UL94V-0), 颜色: 米色 |
| NO. | NAME    | Q'TY  | DESCRIPTION                  |



深圳市首韩科技有限公司

|                  |     |           |           |            |                 |
|------------------|-----|-----------|-----------|------------|-----------------|
| DRAW :           | 李春风 | 2020-8-28 | TITLE:    | 针座         | DRAW NAME:      |
| DESIGN:          |     |           |           |            | PHD2.0-2×4PZZMS |
| CHECK:           | 钟华华 | 2020-8-28 | SERIES:   | PHD SERIES |                 |
| APPROVED         | 罗孝金 | 2020-8-28 | P/N:      |            | DRAW NO.        |
| CUSTOMER DRAWING |     |           | REV. 1.00 | SCALE N/A  | UNIT: mm        |
|                  |     |           |           |            | SHEET: 1/1      |
|                  |     |           |           |            | ⊕               |

| 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° |        |



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:

PHD2.0-2 × 4PZZMS

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#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>黄 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>黄 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>黄 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

| N O .<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    | $\leq 20\text{m}\Omega$      |
| 5.4         | Insulation Resistance<br>绝缘电阻 | $\geq 1000\text{M}\Omega$    |
| 5.5         | Dielectric Strength<br>耐压     | $\geq 800\text{V AC/minute}$ |

## 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 | $\geq 10\text{N}$ 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

| N0.<br>序号 | Ltem<br>项目            | Requirement<br>技术要求                                                                                                                                                                                |
|-----------|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7.1       | Soldering rest<br>可焊性 | Time: $2.5 \pm 0.5\text{S}$<br>时间: $2.5 \pm 0.5\text{S}$<br><br>Temperature: $250 \pm 5^\circ\text{C}$<br>温度: $250 \pm 5^\circ\text{C}$<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: $5 \pm 1$ S<br>时间: $5 \pm 1$ S<br><br>Temperature: $250 \pm 5$ °C<br>温度: $250 \pm 5$ °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: $+85 \pm 3$ °C<br>温度: $+85 \pm 3$ °C<br><br>Appearance: NO Damage<br>外观: 无损坏<br><br>Contact resistance: $\leq 20$ m $\Omega$<br>接触电阻: $\leq 20$ m $\Omega$                                                                                                                                               |
| 7.4 | Cold test<br>耐冷性                     | Time: 48h<br>时间: 48 小时<br><br>Temperature: $-25 \pm 3$ °C<br>温度: $-25 \pm 3$ °C<br><br>Appearance: NO Damage<br>外观: 无损坏<br><br>Contact resistance: $\leq 20$ m $\Omega$<br>接触电阻: $\leq 20$ m $\Omega$                                                                                                                                               |
| 7.5 | Temperature Cycling<br>温度循环          | Low temperature: $-25 \pm 3$ °C<br>低温: $-25 \pm 3$ °C<br><br>High temperature: $85 \pm 3$ °C<br>高温: $85 \pm 3$ °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: $\leq 20$ m $\Omega$<br>接触电阻: $\leq 20$ 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