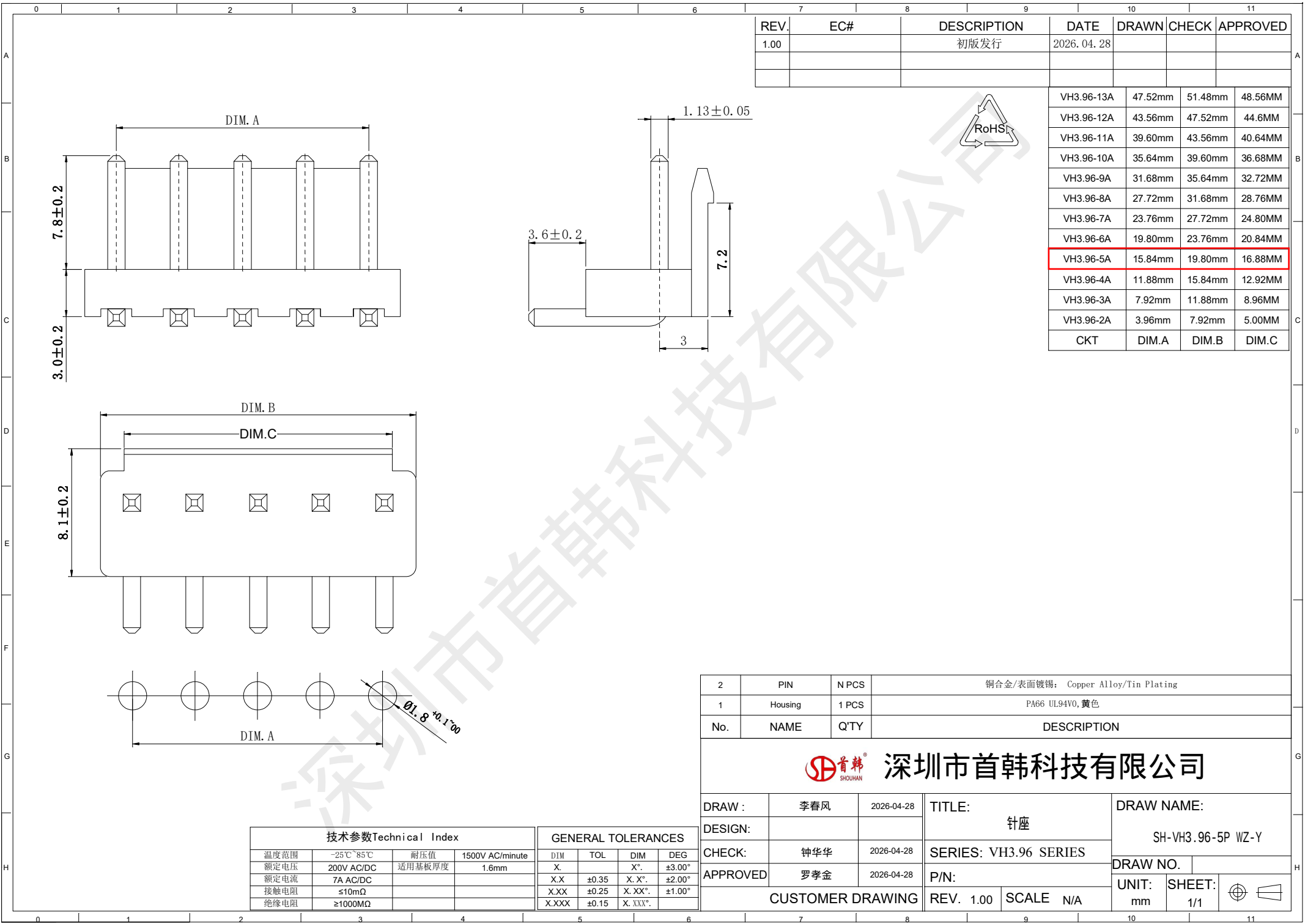




| REV. | EC# | DESCRIPTION | DATE         | DRAWN | CHECK | APPROVED |
|------|-----|-------------|--------------|-------|-------|----------|
| 1.00 |     | 初版发行        | 2026. 04. 28 |       |       |          |
|      |     |             |              |       |       |          |
|      |     |             |              |       |       |          |

|            |         |         |         |
|------------|---------|---------|---------|
| VH3.96-13A | 47.52mm | 51.48mm | 48.56MM |
| VH3.96-12A | 43.56mm | 47.52mm | 44.6MM  |
| VH3.96-11A | 39.60mm | 43.56mm | 40.64MM |
| VH3.96-10A | 35.64mm | 39.60mm | 36.68MM |
| VH3.96-9A  | 31.68mm | 35.64mm | 32.72MM |
| VH3.96-8A  | 27.72mm | 31.68mm | 28.76MM |
| VH3.96-7A  | 23.76mm | 27.72mm | 24.80MM |
| VH3.96-6A  | 19.80mm | 23.76mm | 20.84MM |
| VH3.96-5A  | 15.84mm | 19.80mm | 16.88MM |
| VH3.96-4A  | 11.88mm | 15.84mm | 12.92MM |
| VH3.96-3A  | 7.92mm  | 11.88mm | 8.96MM  |
| VH3.96-2A  | 3.96mm  | 7.92mm  | 5.00MM  |
| CKT        | DIM.A   | DIM.B   | DIM.C   |

|     |         |       |                                    |
|-----|---------|-------|------------------------------------|
| 2   | PIN     | N PCS | 铜合金/表面镀锡: Copper Alloy/Tin Plating |
| 1   | Housing | 1 PCS | PA66 UL94V0, 黄色                    |
| No. | NAME    | Q'TY  | DESCRIPTION                        |

|                                                                                                                |     |            |                              |
|----------------------------------------------------------------------------------------------------------------|-----|------------|------------------------------|
| <div><div><div><div></div><div>SH</div><div>首韩</div><div>SHOUHAN</div></div></div><div>深圳市首韩科技有限公司</div></div> |     |            |                              |
| DRAW :                                                                                                         | 李春风 | 2026-04-28 | TITLE: 针座                    |
| DESIGN:                                                                                                        |     |            | DRAW NAME: SH-VH3.96-5P WZ-Y |
| CHECK:                                                                                                         | 钟华华 | 2026-04-28 | SERIES: VH3.96 SERIES        |
| APPROVED                                                                                                       | 罗孝金 | 2026-04-28 | P/N:                         |
| CUSTOMER DRAWING                                                                                               |     | REV. 1.00  | SCALE N/A                    |
|                                                                                                                |     | UNIT: mm   | SHEET: 1/1                   |
|                                                                                                                |     |            |                              |

| 技术参数Technical Index |            |        |                 | GENERAL TOLERANCES |       |         |        |
|---------------------|------------|--------|-----------------|--------------------|-------|---------|--------|
| 温度范围                | -25℃~85℃   | 耐压值    | 1500V AC/minute | DIM                | TOL   | DIM     | DEG    |
| 额定电压                | 200V AC/DC | 适用基板厚度 | 1.6mm           | X.                 |       | X°.     | ±3.00° |
| 额定电流                | 7A AC/DC   |        |                 | X.X                | ±0.35 | X.X°.   | ±2.00° |
| 接触电阻                | ≤10mΩ      |        |                 | X.XX               | ±0.25 | X.XX°.  | ±1.00° |
| 绝缘电阻                | ≥1000MΩ    |        |                 | 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:

SH-VH3.96-5P WZ-Y

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 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 （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                   |                    |
| OpeningWafer<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         | 7A 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     | $\geq 1500 \text{ V AC/minute}$ |

## 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 test<br>可焊性                | Time: $2.5 \pm 0.5 \text{ S}$ 时间: $2.5 \pm 0.5 \text{ S}$<br>Temperature: $230 \pm 5^\circ \text{C}$ 温度: $230 \pm 5^\circ \text{C}$<br>Area of Soldering: $\geq 95\%$ 焊锡面积: $\geq 95\%$ |
| 7.2    | Resistance to soldering Heat<br>耐焊接热 | Time: $5 \pm 1 \text{ S}$ 时间: $5 \pm 1 \text{ S}$<br>Temperature: $230 \pm 5^\circ \text{C}$ 温度: $230 \pm 5^\circ \text{C}$<br>Appearance: NO Damage 外观: 无损坏                            |

|     |                                 |                                                                                                                                                                                                                                                                                                                                                              |
|-----|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7.3 | Heat test<br>耐热性                | Time:96h 时间: 96 小时<br>Temperature:+85±3℃ 温度: +85±3℃<br>Appearance:NO Damage 外观: 无损坏<br>Contact resistance: ≤20 mΩ 接触电阻: ≤20 mΩ                                                                                                                                                                                                                               |
| 7.4 | Cold test<br>耐冷性                | Time:48h 时间: 48 小时<br>Temperature:-25±3℃ 温度: -25±3℃<br>Appearance:NO Damage 外观: 无损坏<br>Contact resistance: ≤20 mΩ 接触电阻: ≤20 mΩ                                                                                                                                                                                                                               |
| 7.5 | Temperature Cycling<br>温度循环     | Low temperature:-25±3℃ 低温: -25±3℃<br>High temperature:85±3℃ 高温: 85±3℃<br>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<br>Appearance: NO Damage 外观: 无损坏<br>Contact resistance: ≤20 mΩ 接触电阻: ≤20mΩ                                                                                                          |
| 7.6 | Invariab lenes humidity<br>恒定湿热 | Temperature:60±2℃ 温度: 60±2℃<br>Relative humidity:90%-96% RH<br>相对湿度: 90%-96% RH<br>Tim:96h 时间: 96 小时<br>Appearance:NO Damage 外观: 无损坏<br>Contact resistance: ≤20 mΩ 接触电阻: ≤20 mΩ<br>Insulation Resistance: ≥100MΩ 绝缘电阻: ≥100 MΩ                                                                                                                               |
| 7.7 | Salt Spray<br>盐雾试验              | Salt concentration: 5±1% 浓度: 5±1%<br>Temperature:35±2℃ 温度: 35±2℃<br>Tim:16±2h 时间: 16±2 小时<br>After salt is removed by running wafer and A drop is removed ,it is measured.<br>把试验样品从试验箱顶悬挂下来, 采用浓度 (5±1) %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<br>Appearance:NO Damage 外观: 无损坏<br>Contact resistance: ≤20 mΩ<br>接触电阻: ≤20 mΩ |