

# 深圳市华灿天禄电子有限公司

## 物料承认书

### SPECIFICATION FOR APPROVAL

客户名称:

Customer: \_\_\_\_\_

产品名称:

Description: \_\_\_\_\_

规格型号:

Modelno: \_\_\_\_\_

XH2.54系列规格书

物料编号:

Cust P/N: \_\_\_\_\_

出厂签章

校 对 Issuer

审 核 Engineer

批 准 Approver

李攀进

/

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## 1、SCOPE

### 适用范围

**The contents of specifications for TJC3 series connector strip, including product performance, test methods and inspection requirements**

本规格书内容适用于 TJC3 系列条形连接器，包含了产品的性能、试验方法和检验要求

## 2、APPLICABLE STANDARDS

### 适用的标准

- |     |          |   |
|-----|----------|---|
| 2.1 | GB/T2421 | <b>Testing method for Environmental of Electrical Connectors Class 1 :</b><br><b>General Principles</b> |
|     | GB/T2421 | 电工电子产品环境试验 第一部分 总则  |
| 2.2 | GB/T2423 | <b>Testing method for Environmental of Electrical Connectors</b>  |
|     | GB/T2423 | 电工电子产品环境试验方法  |
| 2.3 | GB/T2424 | <b>Testing method for Environmental of Electrical Connectors</b>  |
|     | GB/T2424 | 电工电子产品环境试验导则  |
| 2.4 | GB/T5095 | <b>Testing Procedure/method for components of electric equipment</b><br>电子设备用机电元件基本试验规程及测量方法            |

## 3、USE CONDITION

### 使用条件

- 3.1 Ambient temperature Range:-25℃~+85℃**  
环境温度：-25℃~+85℃
- 3.2 Applicable Wire Sizes:AWG#22~#28**  
适用线规：AWG#22~#28
- 3.3 Applicable PC board thickness:1.6mm**  
适用 PC 板厚度：1.6mm

## 4、Appearance and Dimension

### 外观及尺寸

- 4.1 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.
- 4.2 Dimension:According to drawings**  
外形尺寸：依照附图
- 4.3 Exchangable:Exchangable with same specification products.**  
互换性：相同规格应能互换

## 5、Material

### 材 料

| 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 0.20mm | Tin Plating:3~5 μ m<br>镀锡: 3~5 μ m     | RoHS           |
| Housing<br>孔 座  | Plastic<br>塑 壳    | Nylon66 U L94V-0                 | Color: White<br>颜色: 白色                 |                |
| Wafer<br>直 针    | Plastic<br>塑 壳    | Nylon66 U L94V-0                 | Color: White<br>颜色: 白色/米色              |                |
|                 | Contact<br>插 针    | Brass<br>黄铜 厚□0.64mm             | Tin Plating:2.5~5 μ m<br>镀锡: 2.5~5 μ m |                |
| Wafer<br>弯 针    | Plastic<br>塑 壳    | Nylon66 U L94V-0                 | Color: White<br>颜色: 白色/米色              |                |
|                 | Contact<br>插 针    | Brass<br>黄铜 厚□0.64mm             | Tin Plating:2.5~5 μ m<br>镀锡: 2.5~5 μ m |                |
| Wafer<br>定位弯针   | Plastic<br>塑 壳    | Nylon66 U L94V-0                 | Color: White<br>颜色: 白色                 |                |
|                 | Contact<br>插 针    | Brass<br>黄铜 厚□0.64mm             | Tin Plating:2.5~5 μ m<br>镀锡: 2.5~5 μ m |                |
| Wafer<br>卧 贴    | Plastic<br>塑 壳    | LCP/PA6T U L94V-0                | Color: Beige<br>颜色: 米色                 |                |
|                 | Contact<br>插 针    | Brass<br>黄铜 厚□0.64mm             | Tin Plating:2.5~5 μ m<br>镀锡: 2.5~5 μ m |                |
|                 | Solder tab<br>焊护耳 | Brass<br>黄铜 厚 0.40mm             | Tin Plating:3~5 μ m<br>镀锡: 3~5 μ m     |                |
| Wafer<br>立 贴    | Plastic<br>塑 壳    | LCP/PA6T U L94V-0                | Color: Beige<br>颜色: 米色                 |                |
|                 | Contact<br>插 针    | Brass<br>黄铜 厚□0.64mm             | Tin Plating:2.5~5 μ m<br>镀锡: 2.5~5 μ m |                |
|                 | Solder tab<br>焊护耳 | Phosphor bronze<br>锡青磷铜 厚 0.25mm | Tin Plating:3~5 μ m<br>镀锡: 3~5 μ m     |                |

## 6、Electrical Performance

### 电 气 性 能

| N0.<br>序号 | Ltem<br>项 目           | Test mode<br>试验方法 | Requirement<br>技术要求 |
|-----------|-----------------------|-------------------|---------------------|
| 6.1       | Current Rated<br>额定电流 |                   | 3A AC DC            |
| 6.2       | Voltage Rated<br>额定电压 |                   | 250V AC DC          |

| N0.<br>序号 | Ltem<br>项目                   | Test mode<br>试验方法  | Requirement<br>技术要求                               |
|-----------|------------------------------|--|---|
| 6.3       | ContactResistance<br>接触电阻    | A maximum voltage of 20m V and a maximum current of 100mA are applied to the Mate connector<br>组合状态下的连接器，两端施以最大测试电压 20 mV 以及最大测试电流 100 mA<br><br>Does not include wire resistance<br>不包含电线阻抗                     | Initial value Less than 20m Ω<br><br>初始值 ≤ 20 m Ω |
| 6.4       | withstandvoltage<br>耐电压      | Apply 1000V AC(rms)for 1 m inute and the leakage current shal l not exceed 0. 5mA to t he adjacent terminal and ground of the Mate connectors<br>组合状态下的连接器，相邻两导体末端各施以电压 1000V AC(有效值)时间 1 分钟，且漏电流必须小于 0.5mA(毫安培) | No breakdownor flashover<br><br>无击穿或者产生火花         |
| 6.5       | InsulationResistance<br>绝缘电阻 | Apply 500V DC(rms)for 1 minute between adjacent contacts to measure the insulation resistance<br>相邻两接触导体，1 分钟时间内施予 500V DC 电压，测量期间的绝缘阻抗值   | More than 1000 M Ω<br><br>≥ 1000M Ω               |

## 7、Mechanical Performance:

### 机械性能

| N0.<br>序号 | Ltem<br>项目                                     | Test mode<br>试验方法  | Requirement<br>技术要求                                |
|-----------|--|--|--|
| 7.1       | Terminal crimping<br>wire strength<br>端子压接导线强度 | Terminal crimping wires , axia l per m inute to 25 ± 3mm rate of the pullout force<br><br>端子所压接电线，以每分钟 25±3mm 速率之轴向拔出力   | AWG#22 wire<br>AWG#22 导线<br>More than 50N<br>≥ 50N |
|           |  |  | AWG#24 wire<br>AWG#24 导线<br>More than 30N<br>≥ 30N |
|           |  |  | AWG#26 wire<br>AWG#26 导线<br>More than 20N<br>≥ 20N |
|           |  |  | AWG#28 wire<br>AWG#28 导线<br>More than 13N<br>≥ 13N |
| 7.2       | Fixed terminals<br>and hole seat<br>端子与孔座固定力   | The terminal and the hole seat, at a rate per minute to 25 ± 3mm along the wire direction are pulled out from the hole in the seat capacity<br><br>端子与孔座配合，以每分钟 25±3mm 的速率沿导线方向将端子从孔座中拔出的力 | Per contact<br>单一接触点<br><br>More than 15N<br>≥ 15N |

| NO.<br>序号 | Item<br>项目                                   | Test mode<br>试验方法   | Requirement<br>技术要求   |
|-----------|--|---|---|
| 7.3       | Single contact<br>insertion force<br>单接触插入力  | The Housing together with the terminal ends with Wafer matched, at a rate per minute to $25 \pm 3$ mm, inserting force test<br><br>孔座连同端子与针座两端互配,以每分钟 $25 \pm 3$ mm 的速率,作插入力测试  | Less than 8N<br><br>$\leq 8$ N  |
| 7.4       | Single contact<br>withdrawal force<br>单接触拔出力 | The Housing together with the terminal ends with Wafer matched, at a rate per minute to $25 \pm 3$ mm, as the pull-out test<br><br>孔座连同端子与针座两端互配,以每分钟 $25 \pm 3$ mm 的速率,作拔出力测试  | More than 1N<br><br>$\geq 1$ N  |
| 7.5       | Pin Retention<br>force<br>PIN 针固定力           | Exerts a force on the pin end, at a rate per minute $25 \pm 3$ mm, until the needle exit seat pull-out force<br><br>在针脚前端施加力,以每分钟 $25 \pm 3$ mm 的速率,直到针退出针座的拔出力   | Per contact<br>单一接触点<br><br>More than 10N<br>$\geq 10$ N  |
| 7.6       | Durability<br>耐久性                            | Mate connectors up 30 cycles at a Maximum rate of 10cycles per minute prior to environmental test<br><br>组合状态下的连接器且未经环境测试,每分钟内进行 10 次嵌入与拔出,连续 30 次嵌入与拔出往返测试   | Contact Resistance<br>$\leq 30 \text{ m}\Omega$<br>接触电阻 $\leq 30 \text{ m}\Omega$   |
| 7.7       | Vibration<br>振动                              | Connector combination state of the welding circuit board as test samples, the request in accordance with the following specifications, resistance to vibration test, whether to produce discontinuous current determined during the experiment (off) phenomenon, after the experiment measuring contact resistance<br><br>组合状态下的连接器焊接电路板上作为试验样品,依照如下规格要求,进行耐振动试验,试验过程中确定是否产生不连续电流(断电)现象,试验过后测量接触电阻值<br><br>Frequency(频率):10-55-10 Hz/minute<br>Amplitude(振幅):1.5mm p-p<br>Direction(方向):<br>1、Axis of up and down 上下轴向(Y轴)<br>2、Axis of right the left 左右轴向(X轴)<br>3、Axis of front and back 前后轴向(Z轴)<br><br>Period(周期):2 hours for each direction<br>每一个轴向持续 2 小时 | Appearance: No damage<br>外观:无损伤<br><br>Contact Resistance<br>$\leq 30 \text{ m}\Omega$<br>接触电阻 $\leq 30 \text{ m}\Omega$<br><br>current Discontinuity:<br>1 micro second Max<br>电流中断: $1 \mu \text{ sec Max}$ |

## 8、Endurance Characteristics:

### 环境性能

| NO.<br>序号 | Item<br>项目              | Test mode<br>试验方法  | Requirement<br>技术要求  |
|-----------|-------------------------|--|--|
| 8.1       | Thermal Aging<br>高温老化试验 | <p>Connector combination condition is placed in the oven, the request in accordance with the following specifications, high temperature aging test, after the test and measurement of contact resistance</p> <p>组合状态下的连接器放置于加热烤箱中，依照如下规格要求，进行高温老化试验，试验后并测量接触电阻值</p> <p>Temperature: <math>85 \pm 2</math> °C<br/>Period: 96 hours continuously<br/>温度: <math>85 \pm 2</math> °C<br/>周期: 持续 96 小时</p>   | <p>Appearance: No damage<br/>外观: 无损伤</p> <p>Contact Resistance<br/><math>\leq 30</math> m<math>\Omega</math><br/>接触电阻 <math>\leq 30</math> m<math>\Omega</math></p>  |
| 8.2       | Temperature<br>温升       | <p>Mate connector measure the temperature rise of contact when the maximum rated current is passed</p> <p>组合状态下的连接器，通过最大容许电流测量导体温度上升值</p>  | 30°C Max   |
| 8.3       | Humidity<br>恒定潮湿        | <p>Connector combination under the condition of constant temperature and humidity place space, in accordance with the requirements of the following specifications, constant temperature and humidity test, after the experiment measuring contact resistance, insulation resistance and withstand voltage test</p> <p>组合状态下的连接器放置恒定温度的湿气空间，依照如下规格要求，进行恒温恒湿试验，试验过后测量接触电阻、绝缘电阻以及耐电压测试</p> <p>Temperature: <math>40 \pm 2</math> °C<br/>Relative humidity: 90-95%RH<br/>Period: 96 hours continuously<br/>温度: <math>40 \pm 2</math> °C<br/>相对湿度: 90-95%<br/>周期: 持续 96 小时</p> | <p>Appearance: No damage<br/>外观: 无损伤</p> <p>Contact Resistance:<br/><math>\leq 30</math> m<math>\Omega</math><br/>接触电阻: <math>\leq 30</math> m<math>\Omega</math></p> <p>Insulation Resistance:<br/><math>\geq 500</math> M<math>\Omega</math><br/>绝缘电阻: <math>\geq 500</math> M<math>\Omega</math></p> <p>No breakdown or flashover<br/>无击穿或者产生火花</p> |

| NO.<br>序号 | Ltem<br>项目                  | Test mode<br>试验方法   | Requirement<br>技术要求  |
|-----------|-----------------------------|---|--|
| 8.4       | Temperature cycling<br>温度循环 | <p>The combined state of connectors as test samples, in accordance with the requirements of the following specifications, thermal shock test, after the test measuring contact resistance, insulation resistance, and resistance to voltage</p> <p>组合状态下的连接器作为试验样品，依照如下规格要求，进行冷热冲击试验，试验后测量接触电阻、绝缘电阻、以及耐电压测试</p> <p>One cycle consists of:<br/> -55±3℃,30min,Room temp.10-15 min<br/> 85±3℃,30min,Room temp.10-15 min<br/> Total cycle: 5 cycle</p> <p>-55±3℃,30 分钟，放置转换时间 10-15 分钟<br/> 85±3℃,30 分钟，放置转换时间 10-15 分钟<br/> 循环次数：5 次</p> | Same as paragraph 8.3<br>同 8.3 章节  |
| 8.5       | Salt spray<br>盐雾            | <p>The combined state of connector as test samples, salt spray test according to the following specifications, test samples will be clean again with the water to dry naturally, measurement of contact resistance</p> <p>组合状态下的连接器作为试验样品，依照如下规格要求进行盐水喷雾试验，试验后将样品用清水冲干净自然凉干，测量接触电阻值</p> <p>Temperature: 35±3℃<br/> Solution: 5±1%<br/> Period:<br/> Stamping after tin plated for 8 hours<br/> Stamping before tin plated for 48 hours</p> <p>温度：35±3℃<br/> 浓度：5±1%<br/> 周期：<br/> 先电镀后冲压 8 小时<br/> 先冲压后电镀 48 小时</p>                   | <p>Appearance: No damage<br/>外观：无损伤</p> <p>Contact Resistance:<br/> ≤30mΩ<br/> 接触电阻：≤30 mΩ</p> |



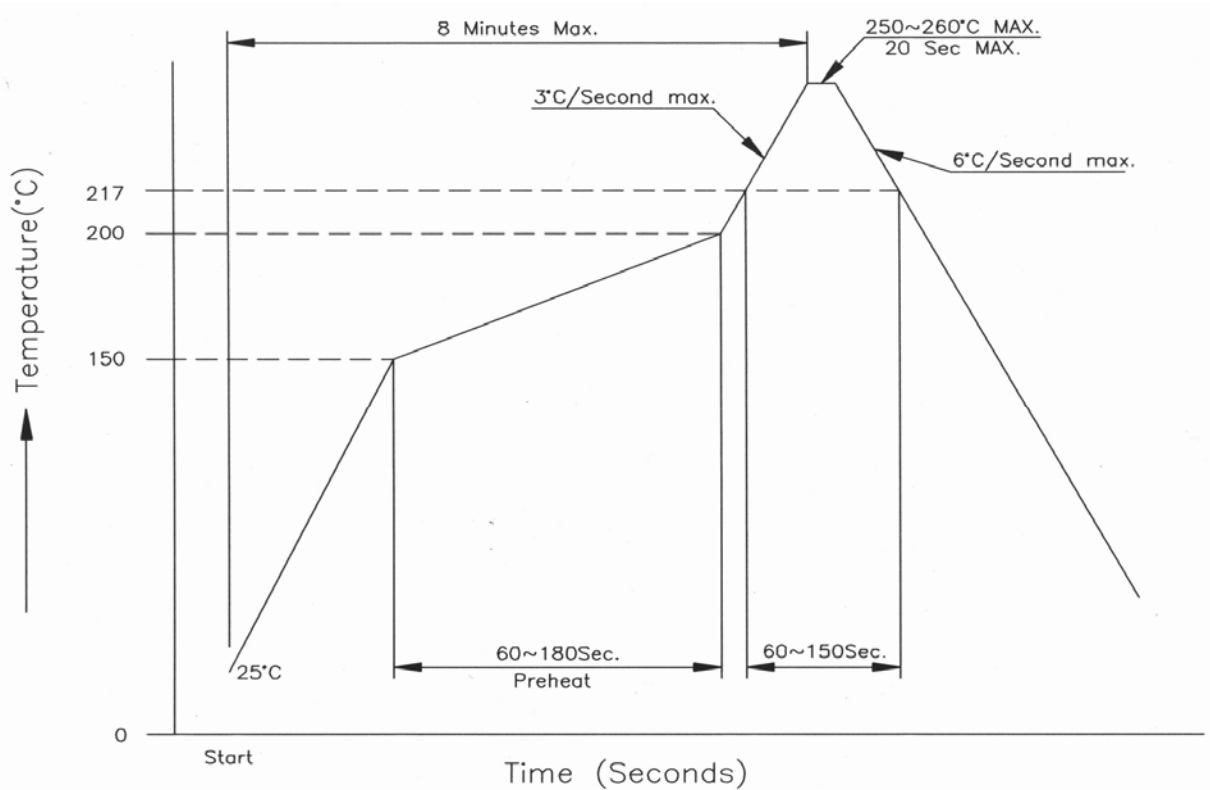
| NO.<br>序号 | Item<br>项目                           | Test mode<br>试验方法   | Requirement<br>技术要求   |
|-----------|--------------------------------------|---|---|
| 8.6       | Solder ability<br>可焊性                | <p>In accordance with the following specifications were placed tin soldering test<br/>放置锡炉中依照如下规格进行焊锡试验</p> <p>Solder Temperature: <math>245 \pm 5^{\circ}\text{C}</math><br/>Immersion period: <math>3 \pm 0.5\text{S}</math><br/>焊锡温度: <math>245 \pm 5^{\circ}\text{C}</math><br/>沉浸周期: <math>3 \pm 0.5\text{S}</math></p>  | <p>Area of Soldering: <math>\geq 90\%</math><br/>焊锡面积: <math>\geq 90\%</math></p> |
| 8.7       | Resistance to soldering heat<br>耐焊接热 | <p>anual soldering tin process<br/>Soldering time: <math>3 \pm 0.5\text{S}</math><br/>Soldering pot: <math>305 \pm 5^{\circ}\text{C}</math><br/>手工烙铁焊锡工艺<br/>焊接时间: <math>3 \pm 0.5\text{S}</math><br/>焊接温度: <math>305 \pm 5^{\circ}\text{C}</math></p> <p>Mode of operation:<br/>操作方式:<br/>Position DIP type needle solder, conductor or a fixed piece at the end of the 1.5mm distance<br/>DIP 型针座焊锡位置, 距离导体或固定片末端 1.5mm</p> <p>Position SMT type needle solder, conductor or a fixed piece at the end of the 0.5mm distance<br/>SMT 型针座焊锡位置, 距离导体或固定片末端 0.5mm</p> <p>Wave soldering tin soldering process<br/>Soldering time: <math>5 \pm 0.5\text{S}</math><br/>Soldering pot: <math>230 \pm 5^{\circ}\text{C}</math><br/>波峰焊焊锡工艺<br/>焊接时间: <math>5 \pm 0.5\text{S}</math><br/>焊接温度: <math>230 \pm 5^{\circ}\text{C}</math></p> <p>Reflow soldering process<br/>Soldering time: 20 S Max<br/>Soldering pot: <math>255 \pm 5^{\circ}\text{C}</math><br/>回流焊焊锡工艺<br/>焊接时间: 20S 最大<br/>焊接温度: <math>255 \pm 5^{\circ}\text{C}</math></p> <p>Please refer to the 9.1 solder reflow temperature curve<br/>回流焊请参考 9.1 温度曲线图</p> | <p>Appearance: No damage<br/>外观: 无损伤</p>  |

## 9、The reflow temperature curve

回流焊温度曲线

### 9.1 SMT lead-free process temperature curve

SMT 无铅工艺温度曲线



## 10、Caution

注意事项

- 10.1 plastic because of characteristics with water after package is opened should avoid exposure to, the temperature is higher than 30 °C, humidity is higher than 60%RH in the environment, and in the 24 hours after all after use, to prevent subsequent reflow, wave soldering process to produce foaming phenomenon of deformation

塑料因具有吸水之特性包装拆封后应避免暴露于，温度高于 30°C，湿度高于 60%RH 的环境中，并在拆封后 24 小时内全数使用完毕，防止后续回流焊、波峰焊制程产生起泡变形现象

## 11、Packaging Transportation Storage

包装、运输、贮存

### 11.1 Packaging

包装

- (1) **Terminal within the packaging for disc loading material packaging, plastic shell packaging for plastic bags, packaging bags, seat plates, tubes, mounted (paste) into the certificate, indicate the product name, specifications, quantity production date and other information**

端子内包装为盘装带料包装、胶壳内包装为塑料袋，针座包装为盘装、袋装，装（贴）入合格证，注明产品名称、规格型号、数量生产日期等信息

- (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

### 11.2 Transportation

运输

**Any vehicle can be adopted for the transportation, but moisture-proof and no mechanical damage, transport temperature to  $-20^{\circ}\text{C} \sim +50^{\circ}\text{C}$**

允许用任何方式运输，但需避免雨雪直淋和阳光照射，不能有碰撞和挤压等机械损伤，运输环境温度为 $-20^{\circ}\text{C} \sim +50^{\circ}\text{C}$

### 11.3 Storage

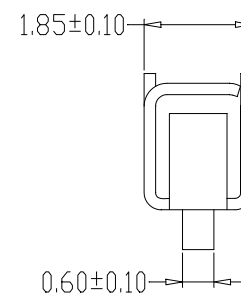
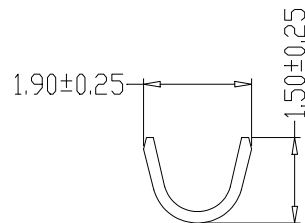
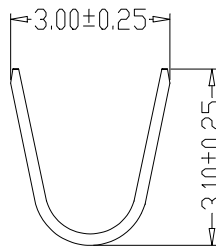
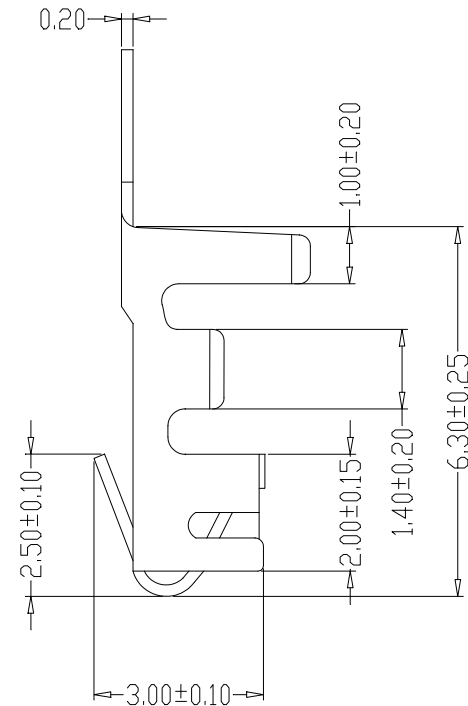
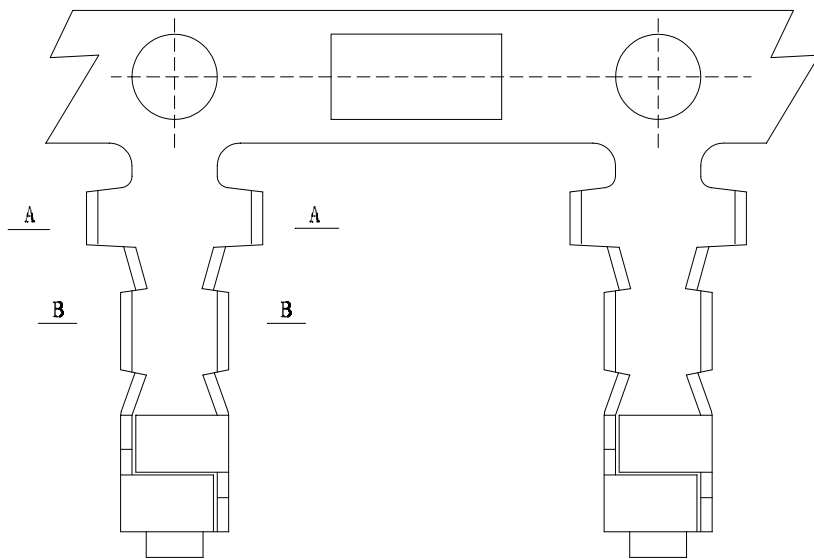
贮存

- (1) **The connector of packing finished should be in the ambient temperature between  $-10^{\circ}\text{C}$  to  $+40^{\circ}\text{C}$ , Relative humidity  $\leq 80\%$ . 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 $-20^{\circ}\text{C} \sim +40^{\circ}\text{C}$ ，相对湿度 $\leq 80\%$ ，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

- (2) **Re-qualification test shall be conducted immediately while the storing duration exceed 6 months**

贮存期为6个月，超期6个月需重新检查

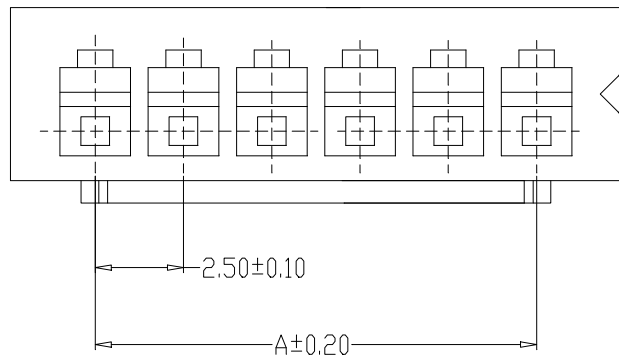
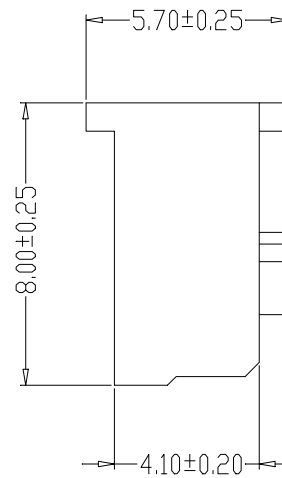
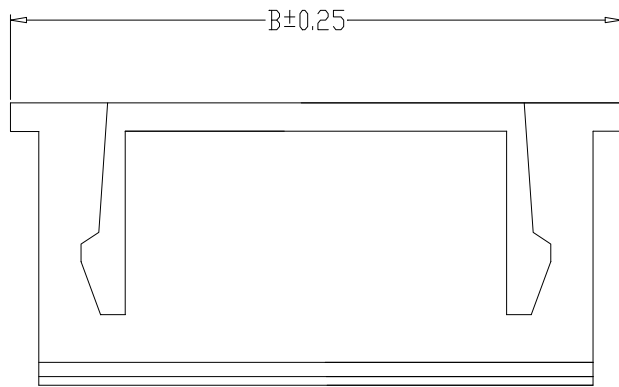


**SPECIFICATIONS**

- 1、Current Rating: 3A AC, DC SEC:A-A
- 2、Voltage Rating: 250V AC, DC
- 3、Temperatuer Range: -25℃~+85℃
- 4、Contact Resistance: 20mΩ Max
- 5、Insulation Resistance: 1000MΩ Min
- 6、Withstanding Voltang: 1000V AC/minute
- 7、Material:Phosphoric bronze Tin-plated
- 8、Applicable Wire Sizes:AWG#22~28#

SEC:B-B

| 制图<br>DRAWN | 变更内容<br>DESCRIPTION | 日期<br>DATE | GENERAL TOLERANCE |            | 制图<br>DRAWING  | 钱岳生<br>2013、07、01 | 料号<br>PART NO.    | XH-T   | 版本<br>REV.  | A   |
|-------------|---------------------|------------|-------------------|------------|----------------|-------------------|-------------------|--------|-------------|-----|
|             |                     |            | X.±0.25           | X.*±2°     | 审核<br>CHECK    | 张名<br>2013、07、03  | 品名<br>TITLE       | TJC3端子 | 页次<br>SHEET | 1/1 |
|             |                     |            | .X±0.20           | .X*±1°     | 核准<br>APPROVAL | 张名<br>2013、07、05  | 客户料号<br>CUTL. NO. |        |             |     |
|             |                     |            | .XX±0.15          | .XX*±0.5°  | 单位<br>UNITS    | MM                | 比例<br>SCALE       | 1:1    |             |     |
|             |                     |            | .XXX±0.10         | .XXX*±0.5° | 深圳市华灿天禄电子有限公司  |                   |                   |        |             |     |

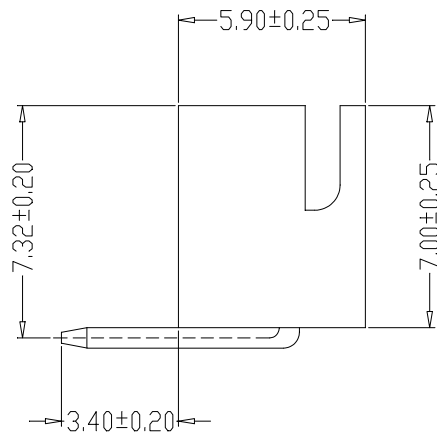
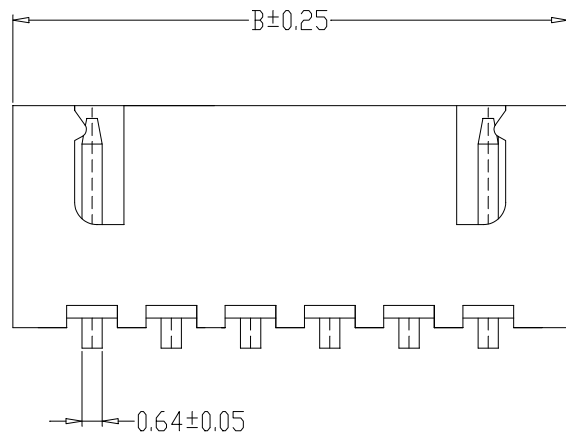


**SPECIFICATIONS**

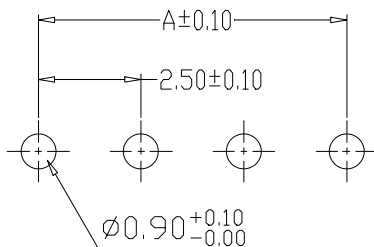
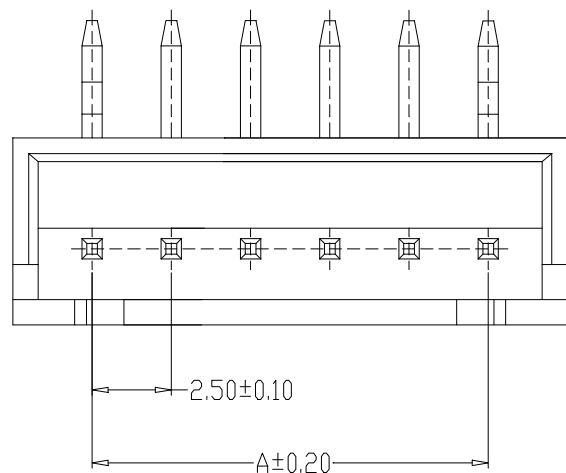
- 1、Current Rating: 3A AC, DC
- 2、Voltage Rating: 250V AC, DC
- 3、Temperatuer Range: -25℃~+85℃
- 4、Contact Resistance: 20mΩ Max
- 5、Insulation Resistance: 1000 MΩ Min
- 6、Withstanding Voltang: 1000V AC/minute
- 7、Material:Nylon66,UL94V-0

| 编 号    | 尺寸 (mm) |       |
|--------|---------|-------|
|        | A       | B     |
| XH-2Y  | 2.50    | 7.50  |
| XH-3Y  | 5.00    | 10.00 |
| XH-4Y  | 7.50    | 12.50 |
| XH-5Y  | 10.00   | 15.00 |
| XH-6Y  | 12.50   | 17.50 |
| XH-7Y  | 15.00   | 20.00 |
| XH-8Y  | 17.50   | 22.50 |
| XH-9Y  | 20.00   | 25.00 |
| XH-10Y | 22.50   | 27.50 |
| XH-11Y | 25.00   | 30.00 |
| XH-12Y | 27.50   | 32.50 |
| XH-13Y | 30.00   | 35.00 |
| XH-14Y | 32.50   | 37.50 |
| XH-15Y | 35.00   | 40.00 |
| XH-16Y | 37.50   | 42.50 |

|             |                     |            |                   |            |                 |                   |                     |        |  |              |     |
|-------------|---------------------|------------|-------------------|------------|-----------------|-------------------|---------------------|--------|--|--------------|-----|
| 制图<br>DRAWN | 变更内容<br>DESCRIPTION | 日期<br>DATE | GENERAL TOLERANCE |            | 制 图<br>DRAWING  | 钱岳生<br>2013、07、01 | 料 号<br>PART NO.     | XH-NY  |  | 版 本<br>REV.  | A   |
|             |                     |            | X.±0.25           | X.*±2'     | 审 核<br>CHECK    | 张 名<br>2013、07、03 | 品 名<br>TITLE        | TJC3孔座 |  | 页 次<br>SHEET | 1/1 |
|             |                     |            | .X±0.20           | .X*±1'     | 核 准<br>APPROVAL | 张 名<br>2013、07、05 | 客 户 料 号<br>CUTL NO. |        |  |              |     |
|             |                     |            | .XX±0.15          | .XX*±0.5'  | 单 位<br>UNITS    | MM                | 比 例<br>SCALE        | 1:1    |  |              |     |
|             |                     |            | .XXX±0.10         | .XXX*±0.5' | 深圳市华灿天禄电子有限公司   |                   |                     |        |  |              |     |



TYPE 1



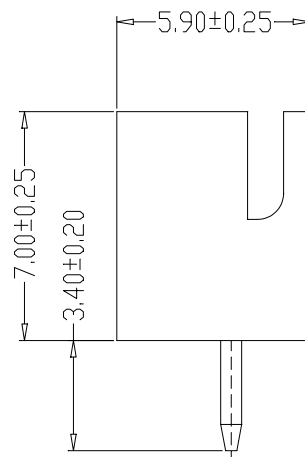
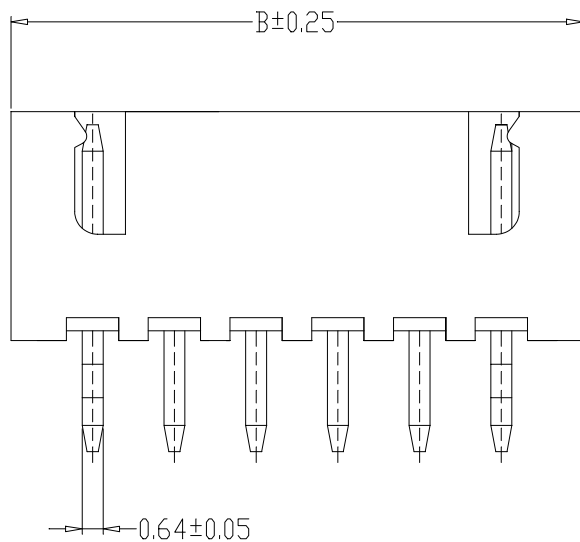
PCB LAYOUT

SPECIFICATIONS

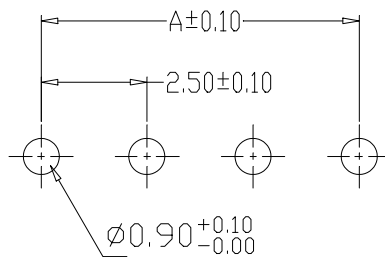
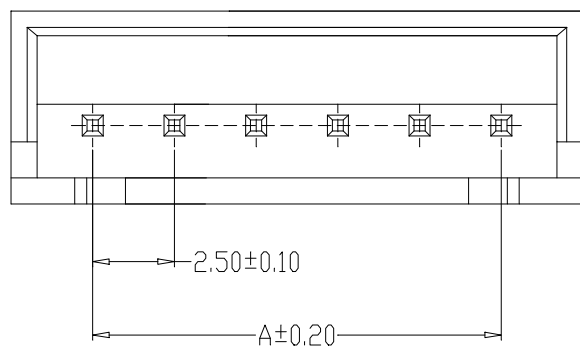
- 1、Current Rating: 3A AC, DC
- 2、Voltage Rating: 250V AC, DC
- 3、Temperatuer Range:  $-25^{\circ}\text{C} \sim +85^{\circ}\text{C}$
- 4、Contact Resistance:  $20\text{m}\Omega$  Max
- 5、Insulation Resistance:  $1000\text{M}\Omega$  Min
- 6、Withstanding Voltang:  $1000\text{V AC/minute}$
- 7、Material: Wafer Nylon66, UL94V-0  
PIN Brass Tin-plated

| 编 号     | 尺寸 (mm) |       |
|---------|---------|-------|
|         | A       | B     |
| XH-2AW  | 2.50    | 7.50  |
| XH-3AW  | 5.00    | 10.00 |
| XH-4AW  | 7.50    | 12.50 |
| XH-5AW  | 10.00   | 15.00 |
| XH-6AW  | 12.50   | 17.50 |
| XH-7AW  | 15.00   | 20.00 |
| XH-8AW  | 17.50   | 22.50 |
| XH-9AW  | 20.00   | 25.00 |
| XH-10AW | 22.50   | 27.50 |
| XH-11AW | 25.00   | 30.00 |
| XH-12AW | 27.50   | 32.50 |
| XH-13AW | 30.00   | 35.00 |
| XH-14AW | 32.50   | 37.50 |
| XH-15AW | 35.00   | 40.00 |
| XH-16AW | 37.50   | 42.50 |

| 制图<br>DRAWN | 变更内容<br>DESCRIPTION | 日期<br>DATE | GENERAL TOLERANCE |            | 制图<br>DRAWING | 钱岳生<br>2013、07、01 | 料号<br>PART NO.   | XH-NA                    |  | 版本<br>REV.    | A   |
|-------------|---------------------|------------|-------------------|------------|---------------|-------------------|------------------|--------------------------|--|---------------|-----|
|             |                     |            | X.±0.25           | X.*±2'     | 审核            | 张名                | 品名<br>TITLE      | TJCS弯针<br>WAFER DIP TYPE |  | 页次<br>SHEET   | 1/1 |
|             |                     |            | .X±0.20           | .X*±1'     | 核准            | 张名                | 客户料号<br>CUTL NO. |                          |  |               |     |
|             |                     |            | .XX±0.15          | .XX*±0.5'  | APPROVAL      | 2013、07、05        |                  |                          |  |               |     |
|             |                     |            | .XXX±0.10         | .XXX*±0.5' | 单位<br>UNITS   | MM                | 比例<br>SCALE      | 1:1                      |  | 深圳市华灿天禄电子有限公司 |     |



TYPE 1



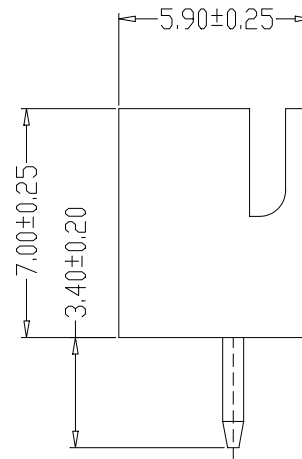
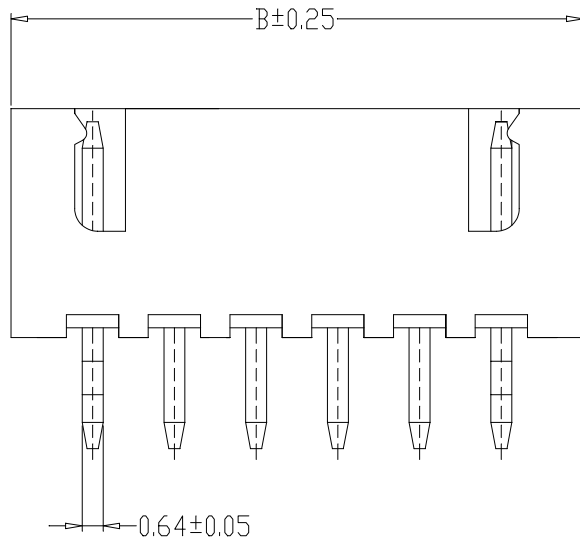
PCB LAYOUT

SPECIFICATIONS

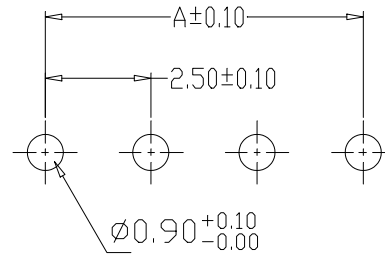
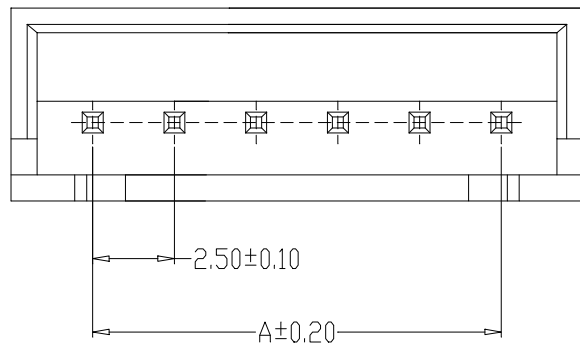
- 1、Current Rating: 3A AC, DC
- 2、Voltage Rating: 250V AC, DC
- 3、Temperatuer Range:  $-25^{\circ}\text{C} \sim +85^{\circ}\text{C}$
- 4、Contact Resistance:  $20\text{m}\Omega$  Max
- 5、Insulation Resistance:  $1000\text{M}\Omega$  Min
- 6、Withstanding Voltang:  $1000\text{V AC/minute}$
- 7、Material: Wafer Nylon66, UL94V-0  
PIN Brass Tin-plated

| 编 号    | 尺寸 (mm) |       |
|--------|---------|-------|
|        | A       | B     |
| XH-2A  | 2.50    | 7.50  |
| XH-3A  | 5.00    | 10.00 |
| XH-4A  | 7.50    | 12.50 |
| XH-5A  | 10.00   | 15.00 |
| XH-6A  | 12.50   | 17.50 |
| XH-7A  | 15.00   | 20.00 |
| XH-8A  | 17.50   | 22.50 |
| XH-9A  | 20.00   | 25.00 |
| XH-10A | 22.50   | 27.50 |
| XH-11A | 25.00   | 30.00 |
| XH-12A | 27.50   | 32.50 |
| XH-13A | 30.00   | 35.00 |
| XH-14A | 32.50   | 37.50 |
| XH-15A | 35.00   | 40.00 |
| XH-16A | 37.50   | 42.50 |

| 制图<br>DRAWN | 变更内容<br>DESCRIPTION | 日期<br>DATE | GENERAL TOLERANCE |            | 制图<br>DRAWING  | 钱岳生<br>2013、07、01 | 料号<br>PART NO.    | XH-NA                     |  | 版本<br>REV.    | A   |
|-------------|---------------------|------------|-------------------|------------|----------------|-------------------|-------------------|---------------------------|--|---------------|-----|
|             |                     |            | X.±0.25           | X.*±2°     | 审核<br>CHECK    | 张名<br>2013、07、03  | 品名<br>TITLE       | TJ33直针<br>WAFFER DIP TYPE |  | 页次<br>SHEET   | 1/1 |
|             |                     |            | .X±0.20           | .X*±1°     | 核准<br>APPROVAL | 张名<br>2013、07、05  | 客户料号<br>CUTL. NO. |                           |  |               |     |
|             |                     |            | .XX±0.15          | .XX*±0.5°  | 单位<br>UNITS    | MM                | 比例<br>SCALE       | 1:1                       |  | 深圳市华灿天禄电子有限公司 |     |
|             |                     |            | .XXX±0.10         | .XXX*±0.5° |                |                   |                   |                           |  |               |     |



TYPE 1



PCB LAYOUT

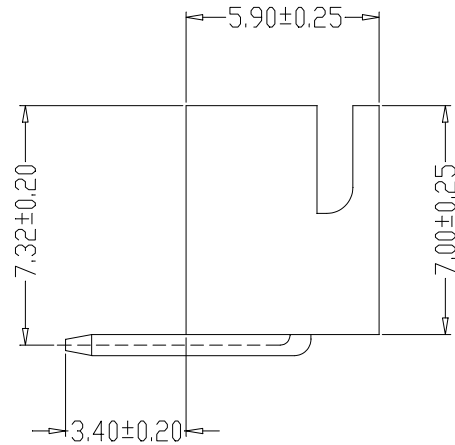
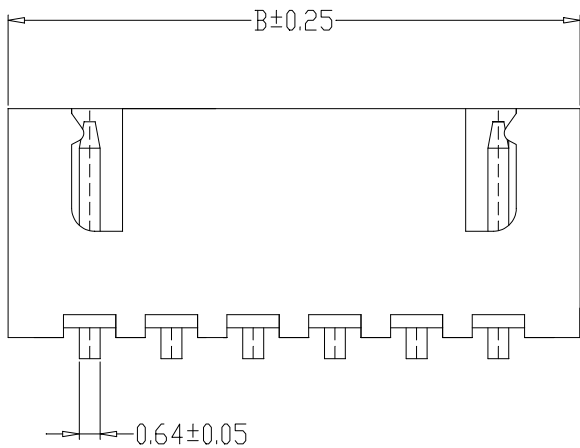
SPECIFICATIONS

- 1、Current Rating: 3A AC, DC
- 2、Voltage Rating: 250V AC, DC
- 3、Temperatuer Range:  $-25^{\circ}\text{C} \sim +85^{\circ}\text{C}$
- 4、Contact Resistance:  $20\text{m}\Omega$  Max
- 5、Insulation Resistance:  $1000\text{M}\Omega$  Min
- 6、Withstanding Voltang:  $1000\text{V AC/minute}$
- 7、Material: Wafer Nylon66, UL94V-0  
PIN Brass Tin-plated

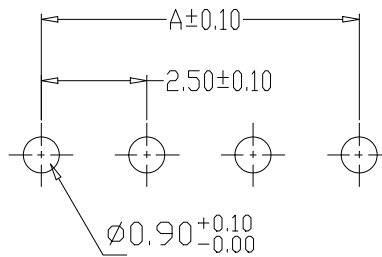
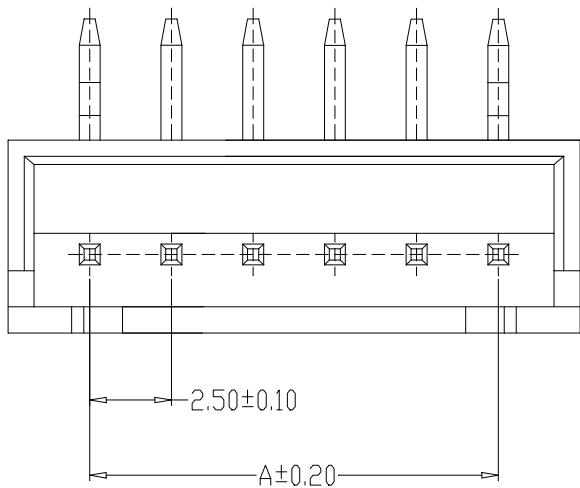
| 编 号         | 尺寸 (mm) |       |
|-------------|---------|-------|
|             | A       | B     |
| HC-XH-2A-M  | 2.50    | 7.50  |
| HC-XH-3A-M  | 5.00    | 10.00 |
| HC-XH-4A-M  | 7.50    | 12.50 |
| HC-XH-5A-M  | 10.00   | 15.00 |
| HC-XH-6A-M  | 12.50   | 17.50 |
| HC-XH-7A-M  | 15.00   | 20.00 |
| HC-XH-8A-M  | 17.50   | 22.50 |
| HC-XH-9A-M  | 20.00   | 25.00 |
| HC-XH-10A-M | 22.50   | 27.50 |
| HC-XH-11A-M | 25.00   | 30.00 |
| HC-XH-12A-M | 27.50   | 32.50 |
| HC-XH-13A-M | 30.00   | 35.00 |
| HC-XH-14A-M | 32.50   | 37.50 |
| HC-XH-15A-M | 35.00   | 40.00 |
| HC-XH-16A-M | 37.50   | 42.50 |

| 制图<br>DRAWN | 变更内容<br>DESCRIPTION | 日期<br>DATE | GENERAL TOLERANCE |            | 制图<br>DRAWING  | 钱岳生<br>2013、07、01 | 料号<br>PART NO.    | HC-XH-NA-M     | 版本<br>REV.  | A   |
|-------------|---------------------|------------|-------------------|------------|----------------|-------------------|-------------------|----------------|-------------|-----|
|             |                     |            | X.±0.25           | X.*±2°     | 审核<br>CHECK    | 张名<br>2013、07、03  | 品名<br>TITLE       | TJ33直针         | 页次<br>SHEET | 1/1 |
|             |                     |            | .X±0.20           | .X*±1°     | 核准<br>APPROVAL | 张名<br>2013、07、05  | 客户料号<br>CUTL. NO. | WAFER DIP TYPE |             |     |
|             |                     |            | .XX±0.15          | .XX*±0.5°  | 单位<br>UNITS    | MM                | 比例<br>SCALE       | 1:1            |             |     |
|             |                     |            | .XXX±0.10         | .XXX*±0.5° | 深圳市华灿天禄电子有限公司  |                   |                   |                |             |     |





TYPE 1



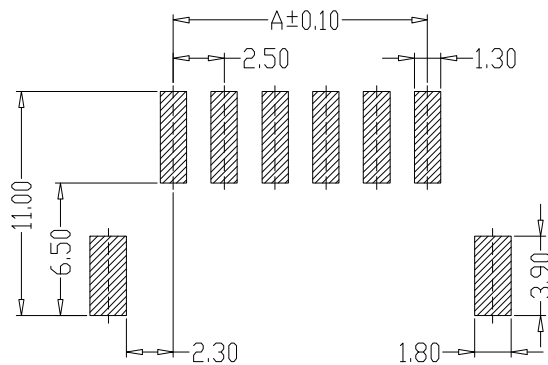
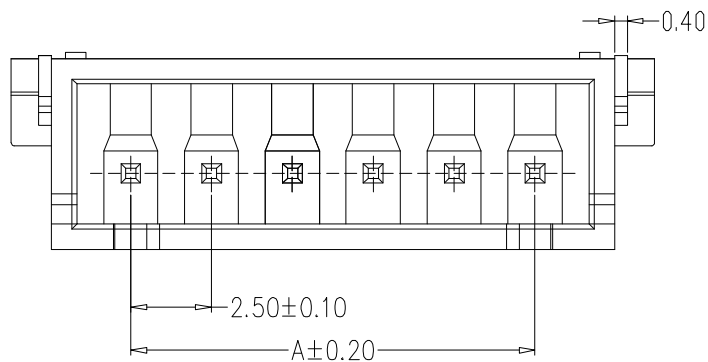
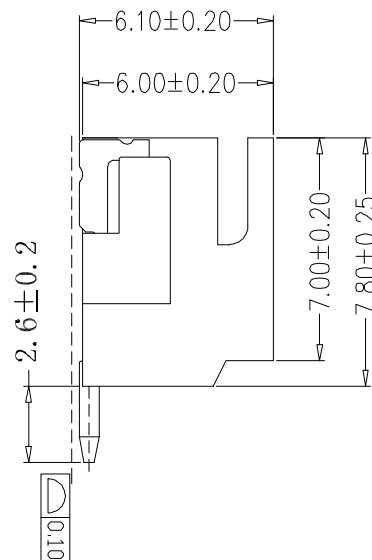
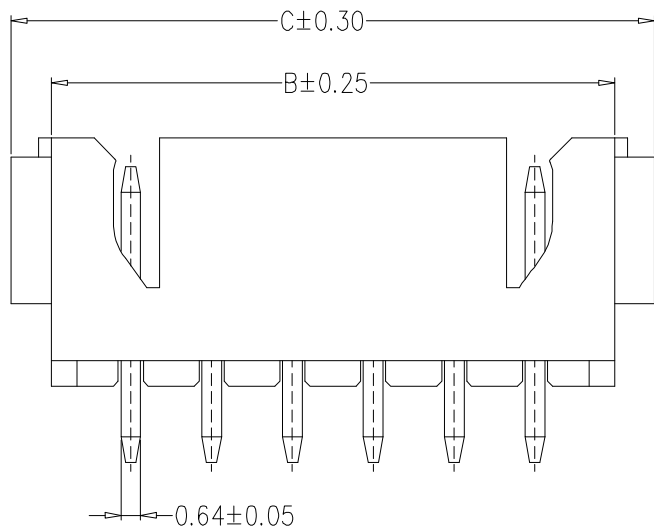
PCB LAYOUT

SPECIFICATIONS

1. Current Rating: 3A AC, DC
2. Voltage Rating: 250V AC, DC
3. Temperature Range:  $-25^{\circ}\text{C} \sim +85^{\circ}\text{C}$
4. Contact Resistance:  $20\text{m}\Omega$  Max
5. Insulation Resistance:  $1000\text{M}\Omega$  Min
6. Withstanding Voltage: 1000V AC/minute
7. Material: Wafer Nylon66, UL94V-0  
PIN Brass Tin-plated

| 编号           | 尺寸 (mm) |       |
|--------------|---------|-------|
|              | A       | B     |
| HC-XH-2AW-M  | 2.50    | 7.50  |
| HC-XH-3AW-M  | 5.00    | 10.00 |
| HC-XH-4AW-M  | 7.50    | 12.50 |
| HC-XH-5AW-M  | 10.00   | 15.00 |
| HC-XH-6AW-M  | 12.50   | 17.50 |
| HC-XH-7AW-M  | 15.00   | 20.00 |
| HC-XH-8AW-M  | 17.50   | 22.50 |
| HC-XH-9AW-M  | 20.00   | 25.00 |
| HC-XH-10AW-M | 22.50   | 27.50 |
| HC-XH-11AW-M | 25.00   | 30.00 |
| HC-XH-12AW-M | 27.50   | 32.50 |
| HC-XH-13AW-M | 30.00   | 35.00 |
| HC-XH-14AW-M | 32.50   | 37.50 |
| HC-XH-15AW-M | 35.00   | 40.00 |
| HC-XH-16AW-M | 37.50   | 42.50 |

| 制图<br>DRAWN | 变更内容<br>DESCRIPTION | 日期<br>DATE | GENERAL TOLERANCE |            | 制图<br>DRAWING  | 钱岳生<br>2013.07.01 | 料号<br>PART NO.     | HC-XH-NAW-M               |  | 版本<br>REV.    | A   |
|-------------|---------------------|------------|-------------------|------------|----------------|-------------------|--------------------|---------------------------|--|---------------|-----|
|             |                     |            | X.±0.25           | X.*±2°     | 审核<br>CHECK    | 张名<br>2013.07.03  | 品名<br>TITLE        | TJC3弯针<br>WAFFER DIP TYPE |  | 页次<br>SHEET   | 1/1 |
|             |                     |            | .X±0.20           | .X*±1°     | 核准<br>APPROVAL | 张名<br>2013.07.05  | 客户料号<br>CUSTM. NO. |                           |  |               |     |
|             |                     |            | .XX±0.15          | .XX*±0.5°  | 单位<br>UNITS    | MM                | 比例<br>SCALE        | 1:1                       |  | 深圳市华灿天禄电子有限公司 |     |
|             |                     |            | .XXX±0.10         | .XXX*±0.5° |                |                   |                    |                           |  |               |     |



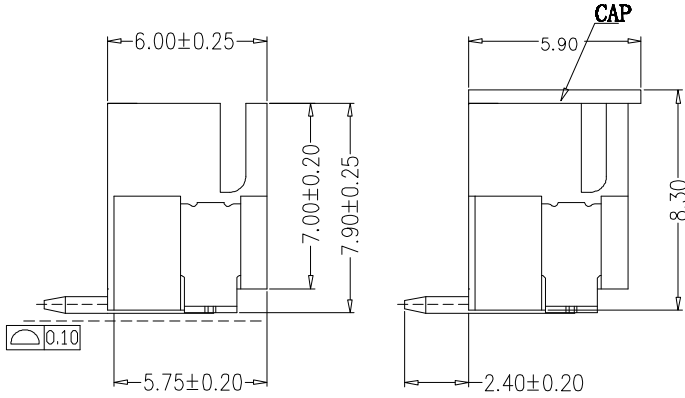
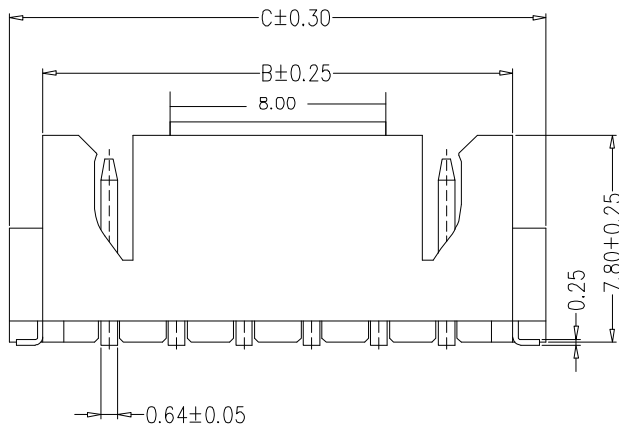
### SPECIFICATIONS

- 1、Current Rating: 3A AC, DC
- 2、Voltage Rating: 250V AC, DC
- 3、Temperatuer Range: -25°C~+85°C
- 4、Contact Resistance: 20mΩ Max
- 5、Insulation Resistance: 1000MΩ Min
- 6、Withstanding Voltang: 1000V AC/minute
- 7、Material: Wafer LCP、PA6T、UL94V-0  
PIN Brass Tin-plated  
Solder tad Brass Tin-plated

| 编号          | 尺寸 (mm) |       |       |
|-------------|---------|-------|-------|
|             | A       | B     | C     |
| HC-XH-2AWT  | 2.50    | 7.50  | 10.00 |
| HC-XH-3AWT  | 5.00    | 10.00 | 12.50 |
| HC-XH-4AWT  | 7.50    | 12.50 | 15.00 |
| HC-XH-5AWT  | 10.00   | 15.00 | 17.50 |
| HC-XH-6AWT  | 12.50   | 17.50 | 20.00 |
| HC-XH-7AWT  | 15.00   | 20.00 | 22.50 |
| HC-XH-8AWT  | 17.50   | 22.50 | 25.00 |
| HC-XH-9AWT  | 20.00   | 25.00 | 27.50 |
| HC-XH-10AWT | 22.50   | 27.50 | 30.00 |
| HC-XH-11AWT | 25.00   | 30.00 | 32.50 |
| HC-XH-12AWT | 27.50   | 32.50 | 35.00 |

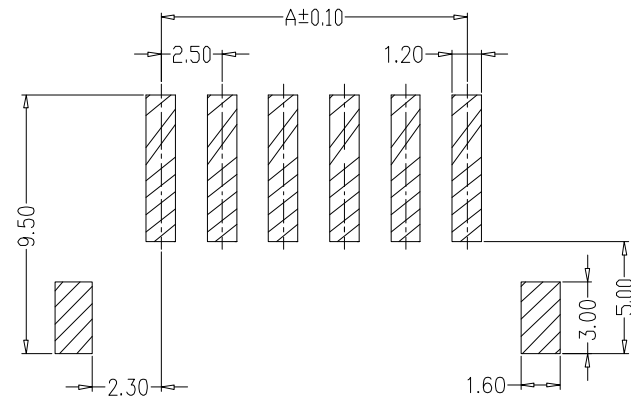
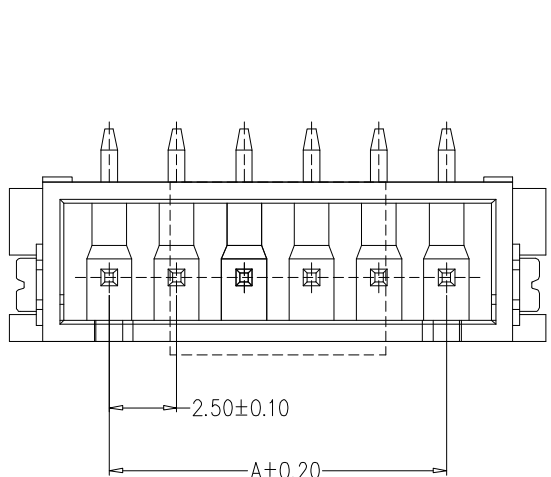
### PCB LAYOUT

| 制图<br>DRAWN | 变更内容<br>DESCRIPTION | 日期<br>DATE | GENERAL TOLERANCE |            | 制图<br>DRAWING  | 钱岳生<br>2013、07、01 | 料号<br>PART NO.   | HC-XH-NAWT               | 版本<br>REV.    | A   |
|-------------|---------------------|------------|-------------------|------------|----------------|-------------------|------------------|--------------------------|---------------|-----|
|             |                     |            | X.±0.25           | X.'±2'     | 审核<br>CHECK    | 张名<br>2013、07、03  | 品名<br>TITLE      | TJCS贴片<br>WAFER SMT TYPE | 页次<br>SHEET   | 1/1 |
|             |                     |            | .X±0.20           | .X'±1'     | 核准<br>APPROVAL | 张名<br>2013、07、05  | 客户料号<br>CUTL NO. |                          |               |     |
|             |                     |            | .XX±0.15          | .XX'±0.5'  | 单位<br>UNITS    | MM                | 比例<br>SCALE      | 1:1                      | 深圳市华灿天禄电子有限公司 |     |
|             |                     |            | .XXX±0.10         | .XXX'±0.5' |                |                   |                  |                          |               |     |



**SPECIFICATIONS**

- 1、Current Rating: 3A AC, DC
- 2、Voltage Rating: 250V AC, DC
- 3、Temperatuer Range: -25℃~+85℃
- 4、Contact Resistance: 20mΩ Max
- 5、Insulation Resistance: 1000MΩ Min
- 6、Withstanding Voltang: 1000V AC/minute
- 7、Material:Wafer LCP、PA6T,UL94V-0  
PIN Brass Tin-plated  
Solder tad Phosphoric bronze Tin-plated



**PCB LAYOUT**

| 编 号         | 尺寸 (mm) |       |       |
|-------------|---------|-------|-------|
|             | A       | B     | C     |
| HC-XH-2ALT  | 2.50    | 7.50  | 10.00 |
| HC-XH-3ALT  | 5.00    | 10.00 | 12.50 |
| HC-XH-4ALT  | 7.50    | 12.50 | 15.00 |
| HC-XH-5ALT  | 10.00   | 15.00 | 17.50 |
| HC-XH-6ALT  | 12.50   | 17.50 | 20.00 |
| HC-XH-7ALT  | 15.00   | 20.00 | 22.50 |
| HC-XH-8ALT  | 17.50   | 22.50 | 25.00 |
| HC-XH-9ALT  | 20.00   | 25.00 | 27.50 |
| HC-XH-10ALT | 22.50   | 27.50 | 30.00 |
| HC-XH-11ALT | 25.00   | 30.00 | 32.50 |
| HC-XH-12ALT | 27.50   | 32.50 | 35.00 |
| HC-XH-20ALT | 47.50   | 52.50 | 55.00 |

|             |                     |             |                   |             |               |            |    |                |             |            |            |   |    |                |    |
|-------------|---------------------|-------------|-------------------|-------------|---------------|------------|----|----------------|-------------|------------|------------|---|----|----------------|----|
| 制图<br>DRAWN | 变更内容<br>DESCRIPTION | 日期<br>DATE  | GENERAL TOLERANCE |             | 制图<br>DRAWING | 钱岳生        |    | 料号<br>PART NO. | HC-XH-NALT  |            | 版本<br>REV. | A |    |                |    |
|             |                     |             | X.±0.25           | X.'±2'      |               | 2013、07、01 | 张名 |                | 品名<br>TITLE | TJC3立贴     |            |   |    |                |    |
|             |                     |             | .X±0.20           | .X'±1'      |               |            |    |                |             | 2013、07、03 |            |   | 张名 | WAFER SMT TYPE |    |
|             |                     |             | .XX±0.15          | .XX'±0.5'   |               |            |    |                |             |            |            |   |    | 2013、07、05     | 张名 |
| .XXX±0.10   | .XXX'±0.5'          | 单位<br>UNITS | MM                | 比例<br>SCALE | 1:1           |            |    | 深圳市华灿天禄电子有限公司  |             |            |            |   |    |                |    |

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