



| Contacts Per. ROW |          |
|-------------------|----------|
| 2x3=6P            | 2x14=28P |
| 2x4=8P            | 2x15=30P |
| 2x5=10P           | 2x17=34P |
| 2x6=12P           | 2x18=36P |
| 2x7=14P           | 2x20=40P |
| 2x8=16P           | 2x22=44P |
| 2x9=18P           | 2x25=50P |
| 2x10=20P          | 2x30=60P |
| 2x12=24P          | 2x32=64P |
| 2x13=26P          |          |

### SPECIFICATIONS

Current Rating: 3 Amps  
 Insulation Resistance: 1000MΩ Min  
 Contact Resistance: 20mΩ Max  
 Withstanding Voltage: AC 1000V  
 Operation Temperature: -40° to +105°  
 Contact Material: Brass  
 Insulator Material: Polyester (UL 94V-0)  
 Standard: PA6T  
 Max. Processing Temp: 240° C for 30-60 seconds  
 (260° C for 10 seconds)



# 深圳市韩下电子有限公司

UNLESS OTHERWISE SPECIFIED TOLERANCE  
 X : ±0.30 X° : ±5°  
 X.X : ±0.25 X.X° : ±1°  
 X.XX : ±0.20 X.XX° : ±0.5°

DRAWN NAME: HX NJ2.54-2 x 7P TP-CE  
 SCALE: N:1  
 PRODUCT NO.:  
 PROJECT NO.:  
 UNIT: mm  
 PROJECT:

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

| CHECKED: | APPROVED: | DATE:      |
|----------|-----------|------------|
| 黄彬       | 张伟        | 2024/04/07 |

| PAGE    | 1/1 |
|---------|-----|
| PROJECT | 罗小春 |

| DATE: | 2024/04/07 |
|-------|------------|
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| DATE: | 2024/04/07 |



深圳市韩下电子有限公司

Shenzhen Hanxia Electronic Co., Ltd  
Tel: 0755-33819206 Fax: 0755-27597491

## 承 认 书

### SPECIFICATION FOR APPROVAL

客 户 Customer:

\_\_\_\_\_

产品名称 Project:

牛角

\_\_\_\_\_

规格型号 Part No:

HX NJ2.54-2×7P TP-CE

\_\_\_\_\_

#### 贵公司承认印 Approval signatures

| 料 号/Part No. | 签 章/Signatures |
|--------------|----------------|
|              |                |

日期 Date:

|             |     |  |
|-------------|-----|--|
| 拟制/Drawn    | 黄彬  |  |
| 审核/Check    | 张伟  |  |
| 批准/Approved | 罗小春 |  |

## 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:-40℃~+105℃

环境温度：-40℃~+105℃

### 2.2 Applicable Wire Sizes:AWG#22~#28

适用线规： AWG#22~#28

### 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 (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>Compliant |
| 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>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

| 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    | $\leq 0.02 \Omega$      |
| 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 | $\geq 10N$ per pin  |
| 6.2       | Female contact Retention force<br>端子固定力  | $\geq 10N$ per pin  |
| 6.3       | Plug-in force<br>插入力                     | $\leq 3N$ per pin   |
| 6.4       | Plug-out force<br>拔出力                    | $\geq 0.5N$ 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: $2.5 \pm 0.5S$<br>时间: $2.5 \pm 0.5S$<br><br>Temperature: $260 \pm 5^\circ C$<br>温度: $260 \pm 5^\circ C$<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 ± 1S<br>时间: 5 ± 1S<br><br>Temperature: 260 ± 5°C<br>温度: 260 ± 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 ± 3°C<br>温度: +85 ± 3°C<br><br>Appearance: NO Damage<br>外观: 无损坏<br><br>Contact resistance: ≤ 20 mΩ<br>接触电阻: ≤ 20 mΩ  |
| 7.4 | Cold test<br>耐冷性                     | Time: 48h<br>时间: 48 小时<br><br>Temperature: -25 ± 3°C<br>温度: -25 ± 3°C<br><br>Appearance: NO Damage<br>外观: 无损坏<br><br>Contact resistance: ≤ 20 mΩ<br>接触电阻: ≤ 20 mΩ  |
| 7.5 | Temperature Cycling<br>温度循环          | Low temperature: -25 ± 3°C<br>低温: -25 ± 3°C<br><br>High temperature: 85 ± 3°C<br>高温: 85 ± 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, 在进行测试<br><br>Appearance: NO Damage<br>外观: 无损坏<br><br>Contact resistance: ≤ 20 mΩ<br>接触电阻: ≤ 20 mΩ |

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

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