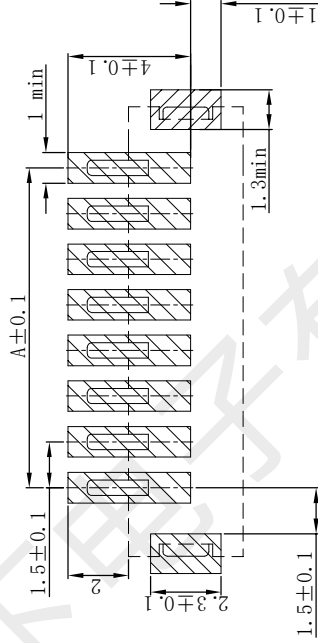
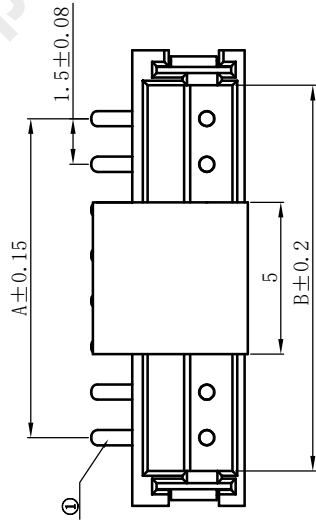
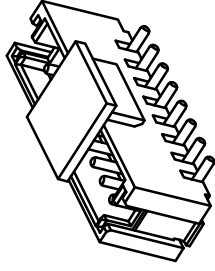
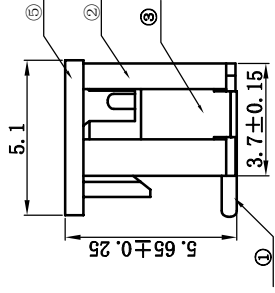
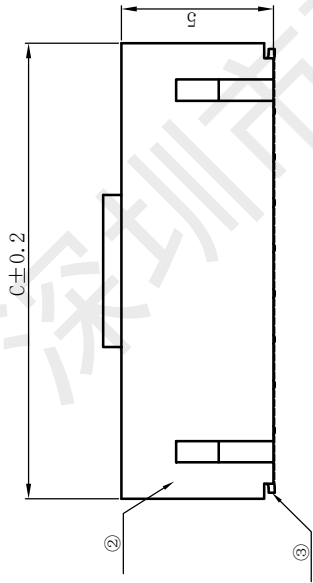


1 2 3 4 5 6



### 技术要求

#### 1: 外观要求

- 1-1. 插针表面光洁、无损伤、锈蚀等缺陷。
- 1-2. 基座表面无脏污、飞边、排气不良等缺陷。

#### 2: 电气性能:

- 2-1. 额定电流: 1.0A
- 2-2. 额定电压: 50V
- 2-3. 耐压: 500V
- 2-4. 接触电阻:  $\leq 20m\Omega$
- 2-5. 绝缘电阻:  $\geq 500m\Omega$
- 3: 工作温度:  $-25^{\circ}C \sim +85^{\circ}C$

P.C.B LAYOUT

ZH1.5mm插片	A-(mm)	B-(mm)	C-(mm)
ZH1.5mm-2P-LT	1.50	3.60	6.00
ZH1.5mm-3P-LT	3.00	5.10	7.50
ZH1.5mm-4P-LT	4.50	6.60	9.00
ZH1.5mm-5P-LT	6.00	8.10	10.50
ZH1.5mm-6P-LT	7.50	9.60	12.00
ZH1.5mm-7P-LT	9.00	11.10	13.50
ZH1.5mm-8P-LT	10.50	12.60	15.00
ZH1.5mm-9P-LT	12.00	14.10	16.50
ZH1.5mm-10P-LT	13.50	15.60	18.00
ZH1.5mm-11P-LT	15.00	17.10	19.50
ZH1.5mm-12P-LT	16.50	18.60	21.00
ZH1.5mm-13P-LT	18.00	20.10	22.50
ZH1.5mm-14P-LT	19.50	21.60	24.00
ZH1.5mm-15P-LT	21.00	23.10	25.50
ZH1.5mm-16P-LT	22.50	24.60	27.00

序号	材料名称	数量	材质	镀涂	REMARK
①	圆针	n	黄铜	高温亮锡	GP PASS
②	塑件	1	LCP	/	GP PASS
③	焊片	2	黄铜	高温亮锡	GP PASS
④	吸附盖	1	/	/	GP PASS

尺寸范围	公差	设计	黄彬	产品名称 HX ZH1.5-3PLT
审核	张伟	批准	罗小春	
单位: mm				



1 2 3 4 5 6



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:

针座

规格型号 Part No:

HX ZH1.5-3PLT

#### 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:  $-25^{\circ}\text{C} \sim 85^{\circ}\text{C}$

环境温度:  $-25^{\circ}\text{C} \sim +85^{\circ}\text{C}$

2.2 Applicable Wire Sizes: AWG#28~#32

适用线规: AWG#28~#32

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 damage, 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 零件名称	Type 类型	Material 材料	Finish 表面处理	Explain 说明
Terminal 端子	Contact 插簧	Phosphor bronze 锡青磷铜 厚 0.15mm	Tin Plating: 3~4 $\mu\text{m}$ 镀锡: 3~4 $\mu\text{m}$	RoHS Compliant
Housing 孔座	Plastic 塑壳	Nylon66 UL94V-0	Color: White 颜色: 白色	
Opening Wafer 开口针座	Contact 插针	Phosphor bronze 锡青磷铜 厚 0.30mm	Tin Plating: 3~4 $\mu\text{m}$ 镀锡: 3~4 $\mu\text{m}$	
	Plastic 塑壳	Nylon46 UL94V-0	Color: Beige 颜色: 米色	
Lips Wafer 闭口针座	Contact 插针	Phosphor bronze 锡青磷铜 厚 0.30mm	Gold Plating: 3~4 $\mu\text{m}$ 镀金: 3~4 $\mu\text{m}$	
	Plastic 塑壳	PBT UL94V-0	Color: White 颜色: 白色	
Tiepian Wafer 卧贴针座 立贴针座	Contact 插针	Phosphor bronze 锡青磷铜 厚 0.30mm	Tin Plating: 3~4 $\mu\text{m}$ 镀锡: 3~4 $\mu\text{m}$	
	Solder tabs 焊护耳	Phosphor bronze 锡青磷铜 厚 0.25mm	Tin Plating: 3~4 $\mu\text{m}$ 镀锡: 3~4 $\mu\text{m}$	
	Plastic 塑壳	Nylon46 UL94V-0	Color: Beige 颜色: 米色	

## 5、Electrical Performance:

电气性能

N0. 序号	Ltem 项目	Requirement 技术要求
5.1	Voltage Rated 额定电压	50V AC DC
5.2	Current Rated 额定电流	1A AC DC
5.3	Contact Resistance 接触电阻	$\leq 0.02 \Omega$
5.4	Insulation Resistance 绝缘电阻	$\geq 500 M\Omega$
5.5	Dielectric Strength 耐压	$\geq 500V$ AC/minute

## 6、Mechanical Performance:

机械性能

N0. 序号	Ltem 项目	Requirement 技术要求
6.1	Male contact Retention force PIN 针固定力	$\geq 15N$ per pin
6.2	Female contact Retention force 端子固定力	$\geq 15N$ per pin
6.3	Plug-in force 插入力	$\leq 3N$ per pin
6.4	Plug-out force 拔出力	$\geq 0.5N$ per pin

## 7、Endurance Characteristics:

环境性能

N0. 序号	Ltem 项目	Requirement 技术要求
7.1	Soldering rest 可焊性	Time: $2.5 \pm 0.5S$ 时间: $2.5 \pm 0.5S$  Temperature: $260 \pm 5^\circ C$ 温度: $260 \pm 5^\circ C$  Area of Soldering: $\geq 95\%$ 焊锡面积: $\geq 95\%$

7.2	Resistance to soldering Heat 耐焊接热	<p>Time: 5 ± 1S 时间: 5 ± 1S</p> <p>Temperature: 260 ± 5°C 温度: 260 ± 5°C</p> <p>Appearance: NO Damage 外观: 无损坏</p>
7.3	Heat test 耐热性	<p>Time: 96h 时间: 96 小时</p> <p>Temperature: +85 ± 3°C 温度: +85 ± 3°C</p> <p>Appearance: NO Damage 外观: 无损坏</p> <p>Contact resistance: ≤ 20 mΩ 接触电阻: ≤ 20 mΩ</p>
7.4	Cold test 耐冷性	<p>Time: 48h 时间: 48 小时</p> <p>Temperature: -25 ± 3°C 温度: -25 ± 3°C</p> <p>Appearance: NO Damage 外观: 无损坏</p> <p>Contact resistance: ≤ 20 mΩ 接触电阻: ≤ 20 mΩ</p>
7.5	Temperature Cycling 温度循环	<p>Low temperature: -25 ± 3°C 低温: -25 ± 3°C</p> <p>High temperature: 85 ± 3°C 高温: 85 ± 3°C</p> <p>For 5 cycles. test after keeping in Normal Condition for 30 min. 5 次循环后, 放置在正常环境中 30 分钟, 在进行测试</p> <p>Appearance: NO Damage 外观: 无损坏</p> <p>Contact resistance: ≤ 20 mΩ 接触电阻: ≤ 20 mΩ</p>

7.6	Invariablenes humidity 恒定湿热	<p>Temperature: <math>60 \pm 2^{\circ}\text{C}</math> 温度: <math>60 \pm 2^{\circ}\text{C}</math></p> <p>Relative humidity: 90%-96% RH 相对湿度: 90%-96% RH</p> <p>Tim: 96h 时间: 96 小时 Appearance: NO Damage 外观: 无损坏</p> <p>Contact resistance: <math>\leq 20 \text{ m}\Omega</math> 接触电阻: <math>\leq 20 \text{ m}\Omega</math></p> <p>Insulation Resistance: <math>\geq 100 \text{ M}\Omega</math> 绝缘电阻: <math>\geq 100 \text{ M}\Omega</math></p>
7.7	Salt Spray 盐雾试验	<p>Salt concentration: <math>5 \pm 1\%</math> 浓度: <math>5 \pm 1\%</math></p> <p>Temperature: <math>35 \pm 2^{\circ}\text{C}</math> 温度: <math>35 \pm 2^{\circ}\text{C}</math></p> <p>Tim: <math>16 \pm 2\text{h}</math> 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 外观: 无损坏</p> <p>Contact resistance: <math>\leq 20 \text{ m}\Omega</math> 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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