

1. 极数 poles: 2 to 20P

2. 额定电流 Current rating: 2.0A AC, DC

3. 额定电压 Voltage rating: 250V AC, DC

4. 温度范围 Temperature range: -25. C to +85. C

5. 接触电阻 Contact resistance:  $\leq 20m\Omega$

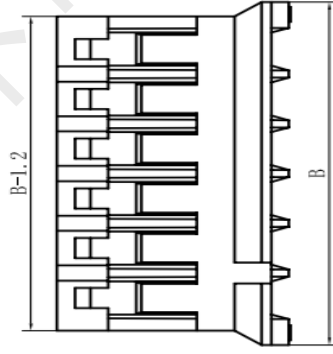
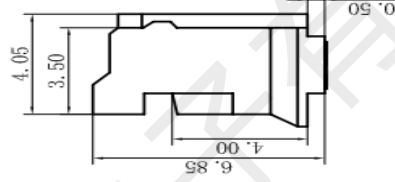
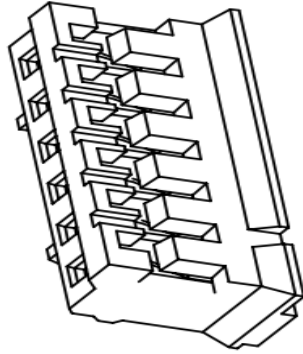
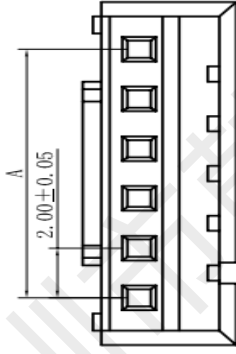
6. 绝缘电阻 Insulation resistance:  $\geq 1000m\Omega$

7. 耐电压 Withstand voltage: 800V AC/minute

8. 适用线规 Applicable Wire: AWG #32 to #24

9. 适用基板厚度 Applicable PC board thickness: 1.6mm

● 材料 Material: Nylon66 UL 94V-0



Poles	Part No	Dimensions mm	
		A	B
2	PH-2Y	2.00	5.80
3	PH-3Y	4.00	7.80
4	PH-4Y	6.00	9.80
5	PH-5Y	8.00	11.80
6	PH-6Y	10.00	13.80
7	PH-7Y	12.00	15.80
8	PH-8Y	14.00	17.80
9	PH-9Y	16.00	19.80
10	PH-10Y	18.00	21.80
11	PH-11Y	20.00	23.80
12	PH-12Y	22.00	25.80
13	PH-13Y	24.00	27.80
14	PH-14Y	26.00	29.80
15	PH-15Y	28.00	31.80
16	PH-16Y	30.00	33.80
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GENERAL TOLERANCE		制图 DRAWING	黄彬	料号 PART NO.	HX PH2.0-4Y	版本 REV.	A
X.±0.25	X.±2°	审核 CHECK	张伟	加名 TITLE	压线端子胶壳	页次 SHEET	1/1
.X±0.20	.X'±1°	核准 APPROVAL	罗小春	客户料号 CUTM. NO.			
.XX±0.15	.XX'±0.5°	单位 UNITS	MM	比例 SCALE	1:1		
.XXX±0.10	.XXX'±0.5°						





深圳市韩下电子有限公司

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## 承 认 书

### SPECIFICATION FOR APPROVAL

客 户 Customer:

\_\_\_\_\_

产品名称 Project:

压线端子胶壳

规格型号 Part No:

HX PH2.0-4Y

#### 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℃~+85℃

环境温度：-25℃~+85℃

### 2.2 Applicable Wire Sizes:AWG#32-#24

适用线规：AWG#32-#24

### 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 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 μ m 镀锡: 3~4 μ m	RoHS Compliant
Housing 孔座	Plastic 塑壳	PBT 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 μ m 镀锡: 3~4 μ 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 μ " m 镀金: 3~4 μ " 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 μ m 镀锡: 3~4 μ m	
	Solder tabs 焊护耳	Phosphor bronze 锡青磷铜 厚 0.25mm	Tin Plating:3~4 μ m 镀锡: 3~4 μ m	
	Plastic 塑壳	Nylon46 UL94V-0	Color: Beige 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 额定电压	250V AC DC
5.2	Current Rated 额定电流	2A AC DC
5.3	Contact Resistance 接触电阻	$\leq 20 \text{ m}\Omega$
5.4	Insulation Resistance 绝缘电阻	$\geq 100 \text{ M}\Omega$
5.5	Dielectric Strength 耐压	$\geq 800 \text{ V AC/minute}$

## 6、Mechanical Performance:

机械性能

NO. 序号	Item 项目	Requirement 技术要求
6.1	Male contact Retention force PIN 针固定力	$\geq 10 \text{ N}$ per pin
6.2	Female contact Retention force 端子固定力	$\geq 10 \text{ N}$ per pin
6.3	Plug-in force 插入力	$\leq 3 \text{ N}$ per pin
6.4	Plug-out force 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 rest 可焊性	Time: $2.5 \pm 0.5 \text{ S}$ 时间: $2.5 \pm 0.5 \text{ S}$  Temperature: $260 \pm 5^\circ \text{C}$ 温度: $260 \pm 5^\circ \text{C}$  Area of Soldering: $\geq 95\%$ 焊锡面积: $\geq 95\%$

7.2	Resistance to soldering Heat 耐焊接热	Time: 5 ± 1S 时间: 5 ± 1S  Temperature: 260 ± 5°C 温度: 260 ± 5°C  Appearance: NO Damage 外观: 无损坏
7.3	Heat test 耐热性	Time: 96h 时间: 96 小时  Temperature: +85 ± 3°C 温度: +85 ± 3°C  Appearance: NO Damage 外观: 无损坏  Contact resistance: ≤ 20 mΩ 接触电阻: ≤ 20 mΩ
7.4	Cold test 耐冷性	Time: 48h 时间: 48 小时  Temperature: -25 ± 3°C 温度: -25 ± 3°C  Appearance: NO Damage 外观: 无损坏  Contact resistance: ≤ 20 mΩ 接触电阻: ≤ 20 mΩ
7.5	Temperature Cycling 温度循环	Low temperature: -25 ± 3°C 低温: -25 ± 3°C  High temperature: 85 ± 3°C 高温: 85 ± 3°C  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  Appearance: NO Damage 外观: 无损坏  Contact resistance: ≤ 20 mΩ 接触电阻: ≤ 20 mΩ

<p>7.6</p>	<p>Invariab lenes humidity 恒定湿热</p>	<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</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> <p>Insulation Resistance: <math>\geq 100 \text{ M}\Omega</math> 绝缘电阻: <math>\geq 100 \text{ M}\Omega</math></p>
<p>7.7</p>	<p>Salt Spray 盐雾试验</p>	<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, 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

### 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°C to+40°C, 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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