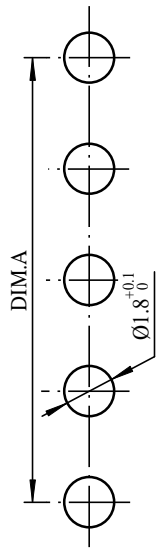
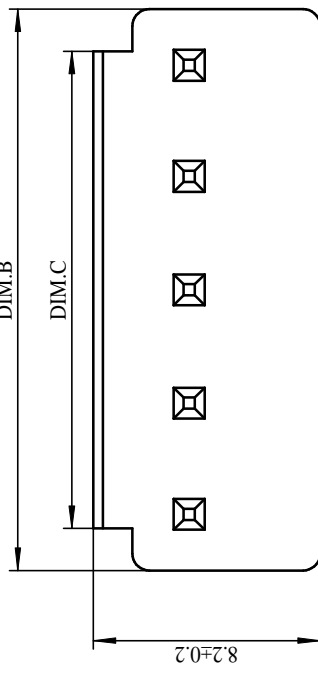
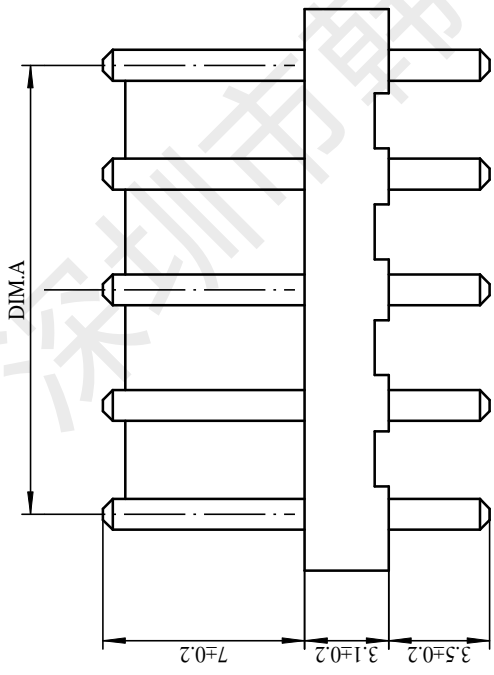
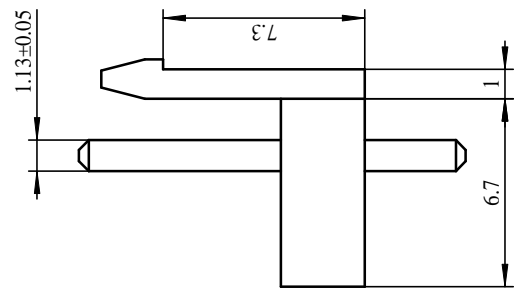


REV.	EC#	DESCRIPTION	DATE	DRAWN	CHECK	APPROVED
1.00		初版发行	2018-05-28			

9P	31.68	35.64	32.72
8P	27.72	31.68	28.76
7P	23.76	27.72	24.8
6P	19.8	23.76	20.84
5P	15.84	19.8	16.88
4P	11.88	15.84	12.92
3P	7.92	11.88	8.96
2P	3.96	7.92	5
NUMBER OF PINS		DIM.A	DIM.B
		DIM.A	DIM.C



PCB LAYOUT

适应基板厚度: 1.2mm~1.6mm  
 温度范围: -25℃~85℃  
 额定电压: 250V AC/DC  
 额定电流: 7A  
 接触电阻: <math>\le 0.01\Omega</math>  
 绝缘电阻: >1000M $\Omega$   
 耐压: 1500V AC/minute

技术要求:

- 1) 材质:见附表;
- 2) 电镀:见附表;
- 3) 塑件表面平整、无毛刺、无气泡、烧焦、变形、浇口无拉伤、多料或缺料等不良现象;
- 4) 端子表面无氧化、电镀不良等现象。

2	PIN	n PCS	材质:黄铜,电镀:光亮锡60u"MIN
1	Housing	1 PCS	材质:PA66 (UL94V-0)颜色:本色
NO.	NAME	Q'TY	DESCRIPTION
DRAW :		黄彬	TITLE:
DESIGN :		2018-05-28	HX VH3.96-4P ZZ
CHECK :		张伟	SERIES: 1501 SERIES
APPROVED :		罗小春	P/N:
CUSTOMER DRAWING		REV. 1.00	SCALE N/A
DRAW NAME:		2002F-3.96VHA07	
DRAW NO.		UNIT: mm	
SHEET:		1/1	

深圳市韩下电子有限公司



GENERAL TOLERANCES		
DIM	TOL	DIM DEG
X	X"	+30°
X.X	-0.05	X.X"
X.XX	-0.025	X.XX"
X.XXX	-0.015	X.XXX"



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 VH3.96-4P ZZ

#### 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#18~#26

适用线规：AWG#18~#26

### 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 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	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 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

N0. 序号	Ltem 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	7A AC DC
5.3	Contact Resistance 接触电阻	$\leq 0.01 \Omega$
5.4	Insulation Resistance 绝缘电阻	$\geq 1000 M\Omega$
5.5	Dielectric Strength 耐压	$\geq 1500V$ 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	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℃ 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