



使用温度范围 (Ambient temperature Range): $-25^{\circ}\sim+85^{\circ}$   
 适用线规 (Applicable Wires):AWG 22#~18#  
 适用基板厚度 (Applicable PCboard thickness):1.6mm  
 额定电压 (Voltage rating):250V AC,DC  
 额定电流 (Current rating):7A  
 接触电阻 (Contact Resistance) $\leq 0.015\Omega$   
 绝缘电阻 (Insulation Resistance) $\geq 1000M\Omega$   
 耐压 (Withstand Voltange):1500VAC/min

材料 (Material)  
 1.基座: PA66 94V-2  
 2.插针: 黄铜

孔位	A-mm	B-mm
3.96-2A	7.92	3.96
3.96-3A	11.88	7.92
3.96-4A	15.84	11.88
3.96-5A	19.80	15.84
3.96-6A	23.76	19.80
3.96-7A	27.72	23.76
3.96-8A	31.68	27.72
3.96-9A	35.64	31.68
3.96-10A	39.6	35.64
3.96-11A	43.56	39.6
3.96-12A	47.52	43.56
3.96-13A	51.48	47.52
3.96-14A	55.44	51.48
3.96-15A	59.40	55.44
3.96-16A	63.36	59.40

2	Wafer 针	Brass Tin 黄铜镀锡	N
1	Housing 基座	PA66 94V-(2)	1
序号	图号	名称	材料
			数量

DRAW : 李春风		TITLE: 针座	
DESIGN:		SERIES:	1501 SERIES
CHECK:	钟国华	P/N:	
APPROVED	罗孝金	REV.	1.00
CUSTOMER DRAWING		SCALE	N/A
DRAW NAME:		SH-CH3.96-4A	
DRAW NO.		UNIT:	
SHEET:		1/1	

GENERAL TOLERANCES		
DIM	TOL	DEG
X.	X.	$\pm 0.0P$
X.X	$\pm 0.05$	$\pm 0.0P$
X.XX	$\pm 0.05$	$\pm 0.0P$
X.XXX	$\pm 0.05$	$\pm 0.0P$

深圳市首韩科技有限公司

M	L	K	J	H	G	F	E	D	C	B	A			
15	14	13	12	11	10	9	8	7	6	5	4	3	2	1



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承 认 书  
SPECIFICATION FOR APPROVAL

产品编码

Material code:

11515

产品名称 Project:

针座

规格型号 Part No:

SH-CH3.96-4A

贵公司承认印 Approval signatures

料号/Part No.	签章/Signatures

日期 Date:

拟制/Drawn	李春风	
审核/Check	钟华华	
批准/Approved	罗孝金	



## 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#18~#22

适用线规: AWG#18~#22

### 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	Expiain 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 黄铜 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 黄铜 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 黄铜 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	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	$\leq 15\text{m}\Omega$
5.4	Insulation Resistance 绝缘电阻	$\geq 1000\text{M}\Omega$
5.5	Dielectric Strength 耐压	$\geq 1500\text{V AC/minute}$

### 6、Mechanical Performance:

机械性能

NO. 序号	Ltem 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	Ltem 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: $220 \pm 5^\circ\text{C}$ 温度: $220 \pm 5^\circ\text{C}$  Area of Soldering: $\geq 95\%$ 焊锡面积: $\geq 95\%$



7.2	Resistance to soldering Heat 耐焊接热	Time: $5 \pm 1S$ 时间: $5 \pm 1S$  Temperature: $220 \pm 5^{\circ}C$ 温度: $220 \pm 5^{\circ}C$  Appearance: NO Damage 外观: 无损坏
7.3	Heat test 耐热性	Time: 96h 时间: 96 小时  Temperature: $+85 \pm 3^{\circ}C$ 温度: $+85 \pm 3^{\circ}C$  Appearance: NO Damage 外观: 无损坏  Contact resistance: $\leq 20 m\Omega$ 接触电阻: $\leq 20 m\Omega$
7.4	Cold test 耐冷性	Time: 48h 时间: 48 小时  Temperature: $-25 \pm 3^{\circ}C$ 温度: $-25 \pm 3^{\circ}C$  Appearance: NO Damage 外观: 无损坏  Contact resistance: $\leq 20 m\Omega$ 接触电阻: $\leq 20 m\Omega$
7.5	Temperature Cycling 温度循环	Low temperature: $-25 \pm 3^{\circ}C$ 低温: $-25 \pm 3^{\circ}C$  High temperature: $85 \pm 3^{\circ}C$ 高温: $85 \pm 3^{\circ}C$  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, 进行测试  Appearance: NO Damage 外观: 无损坏  Contact resistance: $\leq 20 m\Omega$ 接触电阻: $\leq 20 m\Omega$



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