



RECOMMEND P. C. B LAYOUT  
PCB TOLERANCE: ±0.05 (TOP VIEW)

### SPECIFICATIONS

- Current Rating: 3Amps
- Insulation Resistance: 1000MΩ Min
- Contact Resistance: 20mΩ Max
- Withstanding Voltage: AC 1000V
- Operation Temperature: -40° to +105°
- Contact Material: Brass
- Standard: PA6T
- Insulator Material: Polyester (UL 94V-0)
- Contact Plating: Gold Flash
- Max. Processing Temp: 240° C for 30-60 seconds  
(260° C for 5 seconds)

**首韩** 深圳市首韩科技有限公司

UNLESS OTHERWISE SPECIFIED TOLERANCE		DRAWN NAME: PZ2. 54-1x2PZZ-L11. 5				
X : ±0.30	X° : ±5°	SIZE	A4	SCALE	N:1	PROUCT NO.
X.X : ±0.25	X.X° : ±1°	REV	A	UNIT	mm	PROJECT
X.XX : ±0.20	X.XX° : ±0.5°	DRAWN		李春风	2022/04/24	CHECKED: 钟华华
		APPROVED:		罗孝金	2022/04/24	PAGE 1/1

No. of	DIM. A	DIM. B	No. of	DIM. A	DIM. B	No. of	DIM. A	DIM. B	No. of	DIM. A	DIM. B
1	0.00	2.54	11	25.40	27.94	21	50.80	53.34	31	76.20	78.74
2	2.54	5.08	12	27.94	30.48	22	53.34	55.88	32	78.74	81.28
3	5.08	7.62	13	30.48	33.02	23	55.88	58.42	33	81.28	83.82
4	7.62	10.16	14	33.02	35.56	24	58.42	60.96	34	83.82	86.36
5	10.16	12.70	15	35.56	38.10	25	60.96	63.50	35	86.36	88.90
6	12.70	15.24	16	38.10	40.64	26	63.50	66.04	36	88.90	91.44
7	15.24	17.78	17	40.64	43.18	27	66.04	68.58	37	91.44	93.98
8	17.78	20.32	18	43.18	45.72	28	68.58	71.12	38	93.98	96.52
9	20.32	22.86	19	45.72	48.26	29	71.12	73.66	39	96.52	99.06
10	22.86	25.40	20	48.26	50.80	30	73.66	76.20	40	99.06	101.60



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# 承 认 书

## SPECIFICATION FOR APPROVAL

产品编码

Material code: \_\_\_\_\_

产品名称 Project: \_\_\_\_\_

排针

规格型号 Part No: \_\_\_\_\_

PZ2.54-1x2PZZ-L11.5

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 Model PH Connector.  
本规范内容适用于本公司 PH 系列型条形连接器产品的生产与检验。

## 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:/**

适用线规: /

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

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 0.20mm	Tin Plating:2~3 μ m 镀锡: 2~3 μ m	RoHS Comp liant
Housing 孔 座	Plastic 塑 壳	Nylon66 UL94V-0	Color: White 颜色: 白色	
Wafer 直针座 弯针座	Plastic 塑 壳	Nylon66 UL94V-0	Color: White 颜色: 白色	
	Contact 插 针	Brass 黄铜 厚 0.50mm	Tin Plating:3~4 μ m 镀锡: 3~4 μ m	
Wafer 卧贴针座 立贴针座	Plastic 塑 壳	Nylon9T UL94V-0	Color: Beige 颜色: 米色	
	Contact 插 针	Brass 黄铜 厚 0.50mm	Tin Plating:3~4 μ m 镀锡: 3~4 μ m	
	Solder tabs 焊护耳	Phosphor bronze 锡青磷铜 厚 0.40mm	Tin Plating:3~4 μ m 镀锡: 3~4 μ m	



### 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	3A AC DC
5.3	Contact Resistance 接触电阻	$\leq 20$ m $\Omega$
5.4	Insulation Resistance 绝缘电阻	$\geq 1000$ M $\Omega$
5.5	Dielectric Strength 耐压	$\geq 1000$ V 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	/
6.2	Female contact Retention force 端子固定力	/
6.3	Plug-in force 插入力	$\leq 8$ N per pin
6.4	Plug-out force 拔出力	$\geq 1$ N 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: $2.5 \pm 0.5$ S 时间: $2.5 \pm 0.5$ S  Temperature: $260 \pm 5$ °C 温度: $260 \pm 5$ °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: ≤ 10 mΩ 接触电阻: ≤ 10 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: ≤ 10 mΩ 接触电阻: ≤ 10 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: ≤ 10 mΩ 接触电阻: ≤ 10 mΩ</p>

7.6	Invariab lenes 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</p> <p>Appearance: NO Damage 外观: 无损坏</p> <p>Contact resistance: <math>\leq 10 \text{ m}\Omega</math> 接触电阻: <math>\leq 10 \text{ m}\Omega</math></p> <p>Insulation Resistance: <math>\geq 1000 \text{ M}\Omega</math> 绝缘电阻: <math>\geq 1000 \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 10 \text{ m}\Omega</math> 接触电阻: <math>\leq 10 \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