


**SPECIFICATIONS**

Current Rating: 1.0 Amps  
 Withstanding Voltage: AC 500V  
 Insulation Resistance: 1000MΩ Min  
 Contact Resistance: 20mΩ Max  
 Operation Temperature: -40° to +105°  
 Insulator Material: Polyester (UL94V-0)  
 Contact Material: Phosphor bronze  
 Standard: PA6T  
 Contact Plating: Gold Flash  
 Max. Processing Temp: 240° C for 30-60seconds  
 (260° C for 5seconds)

**RECOMMEND P.C.B LAYOUT**

PCB TOLERANCE: ±0.05 (TOP VIEW)

 **深圳市韩下电子有限公司**

UNLESS OTHERWISE SPECIFIED TOLERANCE		DRAWN NAME		HX PM1.27-1x3P ZC	
X	: ±0.30	X°	: ±5°	SIZE	A4
X.X	: ±0.25	X.X°	: ±1°	REV	A
X.XX	: ±0.20	X.XX°	: ±0.5°	CHECKED:	张伟
DRAW:	黄彬	2022/06/06	PROJECT	罗小春	2022/06/06
SCALE			N:1	UNIT	mm
PRODUCT NO.			PROJECT		
PAGE			1/1		
APPROVED:			2022/06/06		

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	—	—	11	12.70	13.97	21	25.40	26.67	31	38.10	39.37
2	1.27	2.54	12	13.97	15.24	22	26.67	27.94	32	39.37	40.64
3	2.54	3.81	13	15.24	16.51	23	27.94	29.21	33	40.64	41.91
4	3.81	5.08	14	16.51	17.78	24	29.21	30.48	34	41.91	43.18
5	5.08	6.35	15	17.78	19.05	25	30.48	31.75	35	43.18	44.45
6	6.35	7.62	16	19.05	20.32	26	31.75	33.02	36	44.45	45.72
7	7.62	8.89	17	20.32	21.59	27	33.02	34.29	37	45.72	46.99
8	8.89	10.16	18	21.59	22.86	28	34.29	35.56	38	46.99	48.26
9	10.16	11.43	19	22.86	24.13	29	35.56	36.83	39	48.26	49.53
10	11.43	12.70	20	24.13	25.40	30	36.83	38.10	40	49.53	50.80
11	12.70	13.97	21	25.40	26.67	31	38.10	39.37	41	50.80	52.07
12	13.97	15.24	22	26.67	27.94	32	39.37	40.64	42	52.07	53.34
13	15.24	16.51	23	27.94	29.21	33	40.64	41.91	43	53.34	54.61
14	16.51	17.78	24	29.21	30.48	34	41.91	43.18	44	54.61	55.88
15	17.78	19.05	25	30.48	31.75	35	43.18	44.45	45	55.88	57.15
16	19.05	20.32	26	31.75	33.02	36	44.45	45.72	46	57.15	58.42
17	20.32	21.59	27	33.02	34.29	37	45.72	46.99	47	58.42	59.69
18	21.59	22.86	28	34.29	35.56	38	46.99	48.26	48	59.69	60.96
19	22.86	24.13	29	35.56	36.83	39	48.26	49.53	49	60.96	62.23
20	24.13	25.40	30	36.83	38.10	40	49.53	50.80	50	62.23	63.50



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:

排母

\_\_\_\_\_

规格型号 Part No:

HX PM1.27-1x3P ZC

\_\_\_\_\_

#### 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#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 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 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	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	$\geq 1000 M\Omega$
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	$\geq 10N$ per pin
6.2	Female contact Retention force 端子固定力	$\geq 10N$ 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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