



深圳市首韩科技有限公司

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承 认 书

SPECIFICATION FOR APPROVAL

产 品 编 码

Material code:

产品名称 Project:

针座

规格型号 Part No:

2.0-3P WT

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	张栋	
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 PC board thickness:0.6~1.2mm

适用 PC 板厚度：0.6~1.2 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	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 Comp liant
Housing 孔 座	Plastic 塑 壳	Nylon66 UL94V-0	Color:White 颜色：白色	
OpeningWafer 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	$\leq 10\text{ m}\Omega$
5.4	Insulation Resistance 绝缘电阻	$\geq 1000\text{ M}\Omega$
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	$\geq 15\text{ N}$ per pin
6.2	Female contact Retention force 端子固定力	$\geq 15\text{ N}$ 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

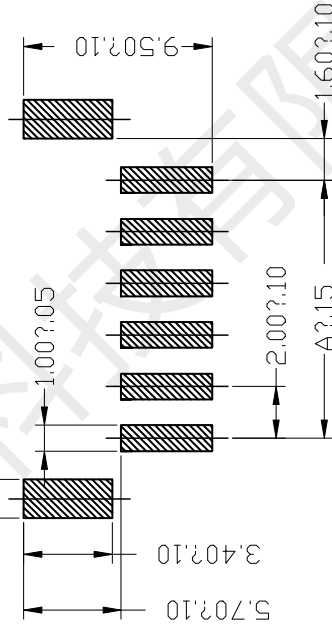
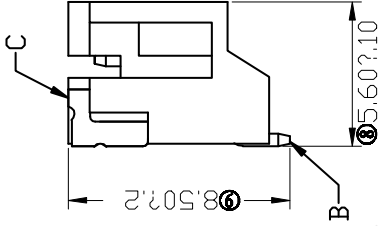
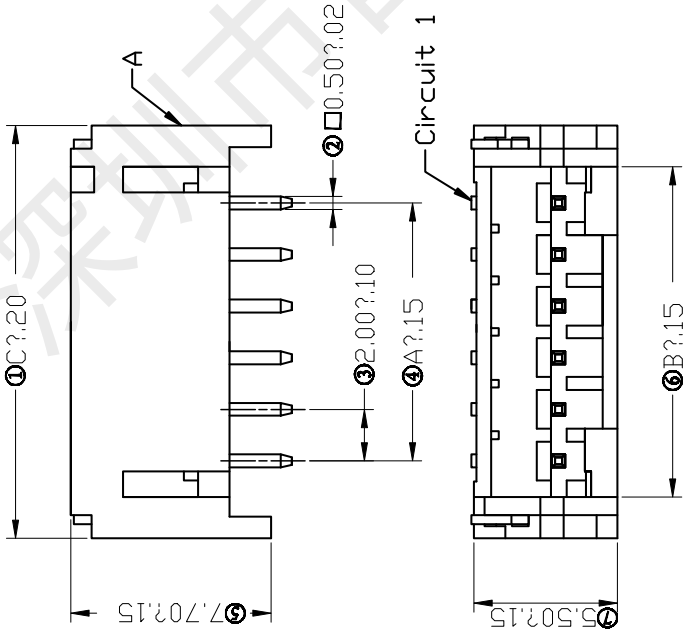
7、Endurance Characteristics:

环境性能

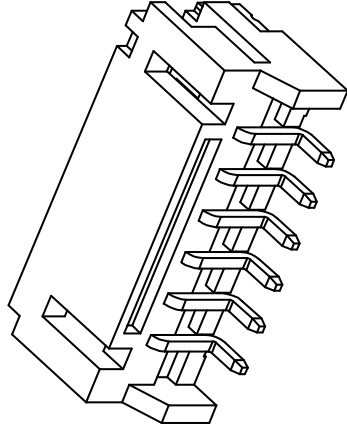
NO. 序号	Item 项目	Requirement 技术要求
7.1	Soldering test 可焊性	Time: $2.5 \pm 0.5\text{ S}$ 时间: $2.5 \pm 0.5\text{ S}$ Temperature: $260 \pm 5^\circ\text{C}$ 温度: $260 \pm 5^\circ\text{C}$ Area of Soldering: $\geq 95\%$ 焊锡面积: $\geq 95\%$
7.2	Resistance to soldering Heat 耐焊接热	Time: $5 \pm 1\text{ S}$ 时间: $5 \pm 1\text{ S}$ Temperature: $260 \pm 5^\circ\text{C}$ 温度: $260 \pm 5^\circ\text{C}$ 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℃ 温度: +85±3℃ 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℃ 温度: -25±3℃ 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℃ 低温: -25±3℃ High temperature:-85±3℃ 高温: -85±3℃ 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: ≤20mΩ
7.6	Invariab lenes humidity 恒定湿热	Temperature:60±2℃ 温度: 60±2℃ Relative humidity:90%-96% RH 相对湿度: 90%-96% RH Tim:96h 时间: 96 小时 Appearance:NO Damage 外观: 无损坏 Contact resistance: ≤20 mΩ 接触电阻: ≤20 mΩ Insulation Resistance: ≥100MΩ 绝缘电阻: ≥100 MΩ
7.7	Salt Spray 盐雾试验	Salt concentration: 5±1% 浓度: 5±1% Temperature:35±2℃ 温度: 35±2℃ Tim:16±2h 时间: 16±2 小时 After salt is removed by running wafer and A drop is removed ,it is measured. 把试验样品从试验箱顶悬挂下来, 采用浓度 (5±1) %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 Appearance:NO Damage 外观: 无损坏 Contact resistance: ≤20 mΩ 接触电阻: ≤20 mΩ

REV.	EON. NO.	DESCRIPTION	APPD.
	NEW RELEASE		



SUGGESTED PCB LAYOUT
(COMPONENT SIDE)



SPECIFICATION

- 1 Contact resistance: $\leq 10m\Omega$
- 2 Insulation resistance: $\geq 1000M\Omega$
- 3 Rated voltage: 250 V AC DC
- 4 Rated current: 2.0 A AC DC
- 5 Withstand Voltage: 800V AC/minute
- 6 Temperature Range: $-25^{\circ}C \sim +85^{\circ}C$

ORDER INFORMATION:

A2001AWR-**-F2MA-R	
PART No.	PACKAGING:
No. OF CIRCUITS:	E-TUBE
02~16	PLATING:
PLASTIC MATERIAL:	A-Sn
F2MA=LCP(BEIGE)	C-GOLD
	E-Sn+GOLD

Circuits	Dimensions (mm)		
	A	B	C
02	2.00	4.80	8.00
03	4.00	6.80	10.00
04	6.00	8.80	12.00
05	8.00	10.80	14.00
06	10.00	12.80	16.00
07	12.00	14.80	18.00
08	14.00	16.80	20.00
09	16.00	18.80	22.00
10	18.00	20.80	24.00
11	20.00	22.80	26.00
12	22.00	23.80	28.00
13	24.00	24.80	30.00
14	26.00	26.80	32.00
15	28.00	28.80	34.00
16	30.00	30.80	36.00

					Tolerance		Model Name: 2.0-3P WT		Drawn: 李春风	
					L X ±0.30		Model No: A2001AWR-**-F2MA-R			Checked: 张栋
					L XX ±0.20					
					L XXX ±0.10		REVISION: B/0			
					Angle ±3.0°				Approved: 罗孝金	
							SCALE: FULL			
							REVISION: B/0			
										
							UNIT: mm			

C	Solder Tab	2	Phosphor Bronze	Tin-plated	NO.	DESCRIPTION	QTY	MATERIAL	PLATING/COLOR
B	Contacts	2~16	Brass	Tin-plated					
A	Insulator	1	LCP (UL94V-0)	Beige					