



Product Specification [产品规格书]:	Document No	PS-4601-03
Subject [主题]: 2.00mm Pitch 4601 Pin Header Series Connector Specification	Date Issued	2019/06/09
	Date Revised	2018/05/26
	Version	A0

This specification is referred to the 2.00mm series PIN Hearer Connector

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**【1.适用范围 Scope】**

此种规格包括 2.00mm Pitch 4601 Series 排针连接器规格说明.

This Specification Covers the 2.00mm Pitch 4601 Series pin Header Connector Specification.

**【2.规格与料号 Spec and Part number】**

规格内容 Specification	产品料号 Production No.
排针/ Pin header	4601WV-2*XX-6TXXX-XX
排母/ Female header	4601FV-2*XX-6TXXX-XX

**【3.材质与表面处理 Disposal of Material and surface】**

规格内容 Specification	材质 Materials	表面处理 Disposal of Surface
Header	Base	High Temperature Plastic
	PIN	黄铜/Brass 磷铜/Phosphor Bronze
		UL 94V-0 Gold-Flash、15u"Au、30 u"Au 50u"Ni Min

(上述参数请以工程图为准/ Please Refer to the Project drawing for the above Specification)

**【4. 额定等级 Ratings and applicable wires】**

项目【Item】	规格【Standard】	
额定电压 Rated Voltage (Max.)	250V	[AC/DC]
额定电流 Rated Current (Max.)	2A Max	
使用温度范围 Ambient temperature Range	-40°C ~ +105°C	

【 \*升温时含端子.Including terminal temperature rise. 】



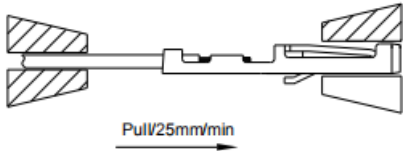
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**【5.性能 PERFORMANCE】**

**5-1. 电气的性能 Electrical Performance.**

项目 【Item】	条件 【Test Condition】	规格 【Requirement】
5-1-1 接触阻抗 Contact Resistance	公母配合,开放电压 20mV 以下,电流 10mA 检测连接器 A~B 区. Mate connectors, measure by dry circuit, 20mV MAX, 10mA. (Based upon EIA-364-06A).	Initial: 20 milliohms Max. After Test: 20 milliohms Max.
5-1-2 绝缘阻抗 Insulation Resistance	公母配合,在相邻端子,端子与地片之间,使用 500V 的直流电,检测连接器. Mate connectors, apply 500V DC between adjacent terminal or ground. (Based upon EIA-364-21B / MIL-STD-202 Method 302 Cond.B)	1000 Megohms Min.
5-1-3 耐电压 Dielectric Strength	公母配合,在相邻端子,端子与地片之间,使用 1000V 的交流电 1 分钟,检测连接器. Mate connectors, apply 1000V AC for 1 minute between adjacent terminal or ground. (Based upon EIA-364-20A / MIL-STD-202 Method 301)	不出现中断等情况 No Breakdown and Flashover

**5-2. 机械的性能 Mechanical Performance.**

项目 【Item】	条件 【Test Condition】	规格 【Requirement】
5.2-1 插拔力 Insertion & Retention Force	将 0.5MM Square PIN 以每分钟 25.4±3mm 的速率插入和拔出. Insert a 0.5MM Square PIN and withdraw Connectors at the speed rate of 25.4±3mm/minute. 	Single Contact Insertion Force: 2N{0.2kgf} Max Single Contact Withdrawal Force: 0.19N{0.02kgf} Kgf Min



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项目 【Item】	条件 【Test Condition】	规格 【Requirement】
5.2-2 Pin header 针保持力 Pin Retention Force	以每分 25.4±3mm 的速率,将 PIN 针从 Wafer 内轴向拔出的力量. Apply axial push force at the speed rate of 25.4±3mm/minute.	0.5Kgf Min
5.2-3 Female Header TER 针保持力 TER Retention Force	以每分 25.4±3mm 的速率,将端子针从 Wafer 内轴向拔出的力量. Apply axial push force at the speed rate of 25.4±3mm/minute.	0.5Kgf Min

### 5-3. 环境性能及其它 Environmental Performance and Others.

项目 【Item】	条件 【Test Condition】	规格 【Requirement】	
5-3-1 温升测试 Temperature Rise	温升测试: 公母连接器配合后, 加载额定电流直到温度上升到稳定状态, 然后再测量温升 (EIA364-70, Method 1) Mating connectors shall be energized at rating current until thermal stability is achieved, and then measured the temperature rise. (EIA364-70, Method 1)	温升测试 Temperature rise	30°C Max.
5-3-2 耐热性 Heat Resistance	105±2°C, 96 hours. (Based upon MIL-STD-202 Method 108A Cond.A)	外观 Appearance	无异状 No Damage
		接触阻抗 Contact Resistance	20 milliohms Max.
5-3-3 耐寒性 Cold Resistance	-40±5°C, 96 hours. (Based upon EIA-364-105)	外观 Appearance	无异状 No Damage
		接触阻抗 Contact Resistance	20 milliohms Max.
5-3-4 耐湿性 Humidity	温度: 40±2°C 湿度: 90~95%(RH) 持续时间: 96 hours Temperature: 40±2°C Relative Humidity: 90~95% Duration: 96 hours (Based upon EIA-364-31A/MIL-STD-202 Method 103B Cond.B)	外观 Appearance	无异状 No Damage
		接触阻抗 Contact Resistance	20 milliohms Max.
		耐电压 Dielectric Strength	Must meet 5-1-3
		绝缘阻抗 Insulation Resistance	1000 Megohms Min.



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项目 【Item】		条件 【Test Condition】	规格 【Requirement】	
5-3-5	温度变化 Temperature Cycling	从-40℃持续 30 分钟升至+105℃持续 30 分钟,循环 5 次. 5 cycles of: a) -40℃ 30 minutes. b) +105℃ 30 minutes. (Based upon EIA-364-32B)	外观 Appearance	无异状 No Damage
			接触阻抗 Contact Resistance	20 milliohms Max.
5-3-6	盐水喷雾 Salt Spray	在温度 35±2℃,盐水浓度 5±1%下,盐水喷雾 48±1 小时. 48±1 hours exposure to a salt spray from the 5±1% solution at 35±2℃. (Based upon EIA-364-26B/MIL-STD-202 Method 101D Cond.B).	外观 Appearance	无异状 No Damage
			接触阻抗 Contact Resistance	20 milliohms Max.
5-3-7	焊锡附着性 Solder- ability	焊接时间: 3~5 秒. 焊接温度: 245±5℃. Soldering Time: 3~5second. Solder Temperature: 245±5℃. (Based upon EIA-364-52)	Solder Wetting	浸渍面积需 95% 以上 95% of immersed area must show no voids, pin holes.
5-3-8	焊锡耐热性 Solder- Resistance	焊接时间: 3~5 秒. 焊接温度: 255+0/-5℃. Soldering time:3~5 sec solder. Temperature:255+0/-5℃. (Based upon EIA-364-56A)	外观 Appearance	无异状 No Damage