



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 Header Connector

索引【INDEX】

1. 适用范围【Scope】
2. 规格与料号【Spec and Part number】
3. 材质与表面处理【Disposal of Material and surface】
4. 额定等级【Ratings and applicable wires】
5. 性能【Performance】
 - 5-1. 电气的性能【Electrical Performance.】
 - 5-2. 机械的性能【Mechanical Performance】
 - 5-3. 环境性能及其它【Environmental Performance and Others】



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

【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	UL 94V-0
	PIN	黄铜/Brass 磷铜/Phosphor Bronze	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℃~+105℃	

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



Product Specification [产品规格书]:

Document No

PS-4601-03

Subject [主题]:

Date Issued

2019/06/09

2.00mm Pitch 4601 Pin Header Series Connector Specification

Date Revised

2018/05/26

Version

A0

【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



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

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℃ Max.
5-3-2 耐热性 Heat Resistance	105±2℃,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℃,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℃ 湿度: 90~95%(RH) 持续时间: 96 hours Temperature: 40±2℃ 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.

WRITTEN BY: Yangzhengguo	APPROVED BY: Lvtiansheng	Sheet: 4 of 5
--------------------------	--------------------------	---------------



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																													
<table><tr><th colspan="2">项 目 【Item】</th><th>条 件 【Test Condition】</th><th colspan="2">规 格 【Requirement】</th></tr><tr><td rowspan="2">5-3-5</td><td rowspan="2">温度变化 Temperature Cycling</td><td rowspan="2">从-40℃持续 30 分锺升至+105℃持续 30 分锺,循环 5 次. 5 cycles of: a) -40℃ 30 minutes. b) +105℃ 30 minutes. (Based upon EIA-364-32B)</td><td>外观 Appearance</td><td>无异状 No Damage</td></tr><tr><td>接触阻抗 Contact Resistance</td><td>20 milliohms Max.</td></tr><tr><td rowspan="2">5-3-6</td><td rowspan="2">盐水喷雾 Salt Spray</td><td rowspan="2">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).</td><td>外观 Appearance</td><td>无异状 No Damage</td></tr><tr><td>接触阻抗 Contact Resistance</td><td>20 milliohms Max.</td></tr><tr><td>5-3-7</td><td>焊锡附着性 Solder- ability</td><td>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)</td><td>Solder Wetting</td><td>浸渍面积需 95% 以上 95% of immersed area must show no voids, pin holes.</td></tr><tr><td>5-3-8</td><td>焊锡耐热性 Solder- Resistance</td><td>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)</td><td>外观 Appearance</td><td>无异状 No Damage</td></tr></table>				项 目 【Item】		条 件 【Test Condition】	规 格 【Requirement】		5-3-5	温度变化 Temperature Cycling	从-40℃持续 30 分锺升至+105℃持续 30 分锺,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
项 目 【Item】		条 件 【Test Condition】	规 格 【Requirement】																													
5-3-5	温度变化 Temperature Cycling	从-40℃持续 30 分锺升至+105℃持续 30 分锺,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																												
WRITTEN BY:Yangzhengguo		APPROVED BY: Lvtiansheng	Sheet: 5 of 5																													