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Product Specification [产品规格书]:	Document No	PS-4601-02
Subject [主题]:	Date Issued	2019/06/09
2.00mm Pitch 4601 Series Connector Specification	Date Revised	2018/05/26
	Version	AO

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

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【1.适用范围 Scope】

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

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

【2.规格与料号 Spec and Part number】

规格内容 Specification	产品料号 Production No.
排母/Female Header	4601FVS-XXXX-XXXXX
排针/ Pin header	4601WVS-XXXX-XXXXX

【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
排母	Insulation	PA6T or LCP	UL 94V-0
Female Header	PIN	磷铜/Phosphor Bronze 黄铜/Brass	Gold-Flash、15u"Au、30 u"Au 50u"Ni Min
排针	Base	PA6T or LCP	UL 94V-0
Pin Header	PIN	黄铜/Brass	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		
额定电流 Rated Current (Max.)	2A	[AC/DC]	
使用温度范围 Ambient temperature Range	nge -25℃~+85℃		

【*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: 30 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 250V的直流电,检测连接器. Mate connectors, apply 250V 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分锺,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

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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 以每分锺 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: 3.92N{0.4kgf} Max Single Contact Withdrawal Force: 0.19N{0.02kgf} Kgf Min
5.2-2	Pin 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.	1.0Kgf Min
5-2-3	端子 保持力 Contact Retention Force	以每分 25.4±3mm 的速率,将端子从胶壳 内轴向拔出的力量. Apply axial push force at the speed rate of 25.4±3mm/minute.	1.96N {0.2kgf} min.

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

	项 目 【Item】	条件 【Test Condition】	规 【Require	格 ement】
5-3-1	重复插拔 Repeated Insertion/ Withdrawal	以每分锺不超过 10 次的速率,将公母插拔 30 次. When mated up to 30 cycles repeatedly by the rate of 10 cycles per minute.	接触阻抗 Contact Resistance	30 milliohms Max.
5-3-2	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 termperature rise. (EIA364-70,Method 1)	温升测试 Temperature rise	30°⊖ Max.

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	项 目 【Item】	条件 【Test Condition】	规 【Requir	格 ement】
		振幅: 1.5mm P-P	-	
		时间: 10~55~10 HZ in 1 minute 持续时间: 每轴向 2 小时	外观 Appearance	无异状 No Damage
5-3-3	耐振动性 Vibration Vibration Vibration Amplitude: 1.5mm P-P Sweep time: 10~55~10 HZ in 1 minute Duration: 2 hours in each X.Y.Z axials.		接触阻抗 Contact Resistance	30 milliohms Max.
		(Based upon EIA-364-28B/MIL-STD-202 Method 213B Cond.A)	瞬断 Discontinuity	1 micro- second Max.
			外观	无异状
		在 X.Y.Z 上 6 个方向上,以 490m/s ² (50g 的	Appearance	No Damage
5-3-4	耐冲击性 Shock	力量)冲击下各3回.490m/s ² {50G},3 strokes in each X.Y.Z. axes.	接触阻抗 Contact Resistance	30 milliohms Max.
		(Based upon EIA-364-27B/MIL-STD-202		1 micro-
		Method 213B Cond.A)	Discontinuity	second Max.
			外观	无异状
	耐热性	85±2℃,96 hours.	Appearance	No Damage
5-3-5	Heat Resistance	(Based upon MIL-STD-202 Method 108A Cond.A)	接触阻抗 Contact Resistance	30 milliohms Max.
			外观	无异状
5.2.6	耐寒性	-25±5°C,96 hours.	Appearance	No Damage
5-3-6	Cold Resistance	(Based upon EIA-364-105)	接触阻抗 Contact Resistance	30 milliohms Max.
		温度 : 40±2℃	外观 Appearance	无异状 No Damage
		湿度: 90~95%(RH) 持续时间: 96 hours	接触阻抗 Contact Resistance	30 milliohms Max.
5-3-7	耐湿性 Humidity	Temperature: 40±2℃	耐电压 Dielectric	Must meet 5-1-3
		Relative Humidity: 90~95% Duration: 96 hours (Based upon EIA-364-31A/MIL-STD-202 Method 103B Cond.B)	Strength 绝缘阻抗 Insulation Resistance	500 Megohms Min.

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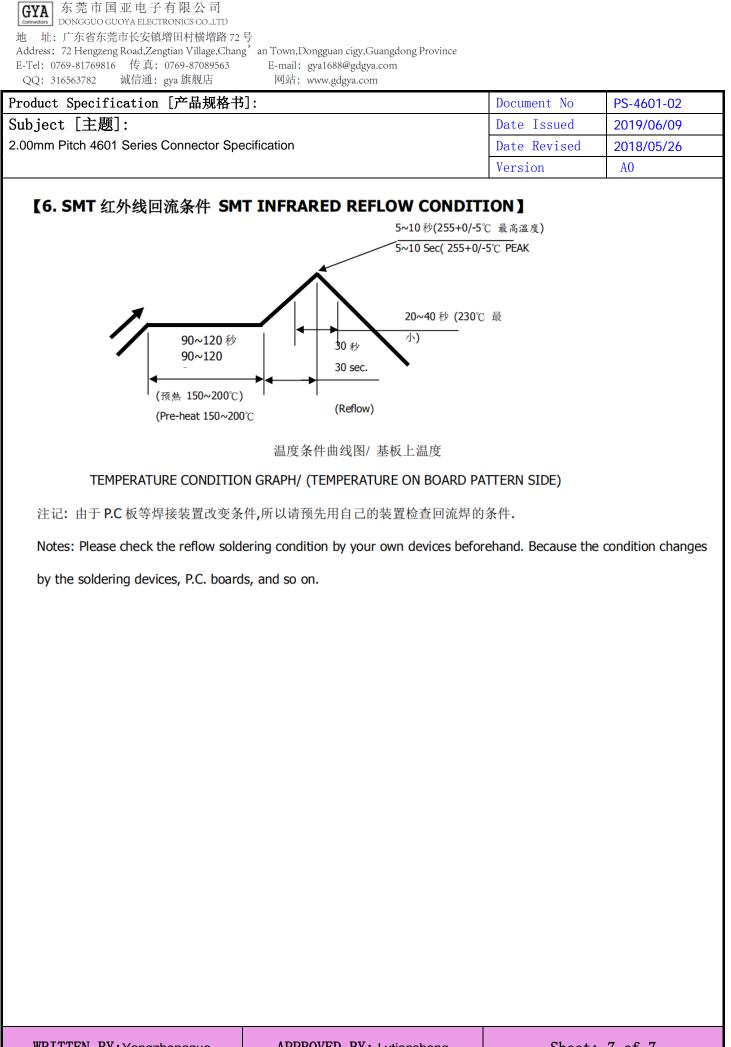
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2.00mm Pitch

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项 目 【Item】		条件 【Test Condition】	规格 【Requirement】	
5-3-8	温度变化 Temperature Cycling	从-25℃持续30分锺升至+85℃持续30分 锺,循环5次.	外观 Appearance	无异状 No Damage
		5 cycles of: a) -25℃ 30 minutes. b) +85℃ 30 minutes. (Based upon EIA-364-32B)	接触阻抗 Contact Resistance	30 milliohms Max.
5-3-9	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.	外观 Appearance	无异状 No Damage
		48±1 hours exposure to a salt spray from the 5±1% solution at 35±2°C. (Based upon EIA-364-26B/MIL-STD-202 Method 101D Cond.B).	接触阻抗 Contact Resistance	30 milliohms Max.
5-3-10	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.
5-3-11	焊锡耐热性 Solder- Resistance	焊接时间: 5~10 秒. 焊接温度: 255+0/-5℃. Soldering time:5~10 sec solder. Temperature:255+0/-5℃. (Based upon EIA-364-56A)	外观 Appearance	无异状 No Damage



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