



Product Specification [产品规格书]:	Document No	PS-2200-01
Subject [主题]: 2.20mm Pitch 2200 Series Connector Specification	Date Issued	2019/06/09
	Date Revised	2018/05/26
	Version	A0

This specification is referred to the 2.20mm series Female Header Connector

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【1.适用范围 Scope】

此种规格包括 2.20mm Pitch 2200 Series 排母连接器规格说明.

This Specification Covers the 2.20mm Pitch 2200 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	/
排针/ Pin header	2200WV-1x04-9TBB05RR001Q

【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 Female Header	Insulation	High Temperature Plastic	/
	PIN	磷铜/Phosphor Bronze 黄铜/Brass	/
排针 Pin Header	Base	High Temperature Plastic	UL 94V-0
	PIN	黄铜/Brass	Matte Tin 100u" Min. 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	
使用温度范围 Ambient temperature Range	-40℃~+105℃	

【 *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 800V 的直流电,检测连接器. Mate connectors, apply 800V 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 500V 的交流电 1 分钟,检测连接器. Mate connectors, apply 800V AC for 1 minute between adjacent terminal or ground. (Based upon EIA-364-20A / MIL-STD-202 Method 301)	外观无损伤, 无打火花 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 0.64MM Square PIN 以每分钟 25.4±3mm 的速率插入和拔出。 Insert a 0.64MM Square PIN and withdraw Connectors at the speed rate of 25.4±3mm/minute.	Single Contact Insertion Force: 4.9N{0.5kgf} Max Single Contact Withdrawal Force: 0.29N{0.03kgf} 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.	4.90N {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	重复插拔 Repeated Insertion/ Withdrawal	以每分钟不超过 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.



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5-3-2	温升测试 Temperature Rise	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.
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项目 【Item】		条件 【Test Condition】	规格 【Requirement】	
5-3-3	振动测试 Vibration test	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 Amplitude: 1.5mm P-P Sweep time: 10~55~10 HZ in 1 minute Duration: 2 hours in each X.Y.Z axials. (Based upon EIA-364-28B/MIL-STD-202 Method 213B Cond.A)	外观 Appearance	无异状 No Damage
			接触阻抗 Contact Resistance	30 milliohms Max.
			瞬断 Discontinuity	1 micro-second Max.
5-3-4	冲击测试 Shock test	在 X.Y.Z 上 6 个方向上,以 490m/s ² (50g 的力量)冲击下各 3 回.490m/s ² {50G}, 3 strokes in each X.Y.Z. axes. (Based upon EIA-364-27B/MIL-STD-202 Method 213B Cond.A)	外观 Appearance	无异状 No Damage
			接触阻抗 Contact Resistance	30 milliohms Max.
			瞬断 Discontinuity	1 micro-second Max.
5-3-5	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	30 milliohms Max.
5-3-6	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	30 milliohms Max.
5-3-7	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	30 milliohms Max.
			耐电压 Dielectric Strength	Must meet 5-1-3
			绝缘阻抗 Insulation Resistance	500 Megohms Min.