

Product Specification 【产品规格书】	Document No.	PS-HRS-6005-01
Product Name 【产品名称】： 6.00mm Pin Header Connectors	Date Issued	2022/02/28
	Date Revised	/
	Version	A3

This specification is only referred to the
HRS-6005 series connector

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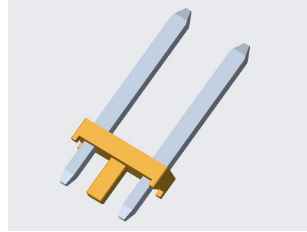
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【1.适用范围 Scope】

此规格包括 6.00mm Pitch HRS-6005 Series 连接器规格说明.

This Specification includes the 6.00mm Pitch HRS-6005 Series Connector Specification.

【2.产品型号描述 Product Description】

产品名称 Part Name	产品料号 Part No.	产品图示 Picture
针座/Wafer	HRS-6005WV-02P-9TSW1BB-01	

【3.材质与表面处理 Material and surface treatment】

规格内容 Specification		材 质 Materials	颜色/表面处理 Color/Surface treatment
针座 /Wafer	端子 /Terminal	黄铜/Brass	Under plated: Ni (50"Min)overall; Top plating: Sn(100u"Min)overall;
	胶壳/Housing	PA9T UL94V-0	黑色 Black

(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 Specification	
额定电压 Rated Voltage	125V	[AC/DC]
额定电流 Rated Current	2A	
使用温度范围 Ambient Temperature Range	-40℃~+105℃	

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【5.性能 Performance】

5-1. 电气性能 Electrical Performance.

测试内容 Item		测试方法 Test Condition	判定要求 Requirement
5-1-1	接触阻抗 Contact Resistance	公母配合,开放电压 50mV 以下,电流 100mA 检测连接器 A~B 区. Mate connectors, measure by dry circuit, 50mV MAX, 100mA. (Based upon EIA-364-23).	1. Initial value :10 mΩ max. 2. Final value :20 mΩ max
5-1-2	绝缘阻抗 Insulation Resistance	公母配合,在相邻端子之间,使用 125V 的直流电,检测连接器. Mate connectors, apply 125V DC between adjacent terminal or ground. (Based upon EIA-364-21).	100 Megohm Min.
5-1-3	耐电压 Dielectric Strength	公母配合,在相邻端子之间,施加 500V 的有效值电压.检测连接器 Mate connectors, 500V RMS voltage is applied between adjacent terminals. Detection connector (Based upon EIA-364-20).	没有击穿或出现电火花 No Breakdown and Flashover

5-2. 机械的性能 Mechanical Performance.

测试内容 Item		测试方法 Test Condition	判定要求 Requirement
5-2-1	Pin 针保持力 Pin Retention Force	以每分 50±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 50±3mm/minute. (Based upon EIA-364-29).	0.70kgf Min

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5-3. 环境性能及特殊要求 Environmental Performance and Special Requirments.

测试内容 Item		测试方法 Test Condition	判定要求 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.(Based upon EIA-364-09).	接触阻抗 Contact Resistance	20 milliohms Max.
			外观 Appearance	无异状 No Damage
			耐电压 Dielectric Strength	满足 5-1-2 Must meet 5-1-2
5-3-2	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
			瞬断 Discontinuity	1 micro-second Max.
			接触阻抗 Contact Resistance	20 milliohms Max.
5-3-3	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
			瞬断 Discontinuity	1 micro-second Max.
			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.

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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	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.
5-3-8	焊锡性 Solder- Resistance	焊接时间: 3~5 秒. 焊接温度: 245±5℃. Soldering time: 3~5sec solder. Temperature: 245±5℃.	浸锡 Solder Wetting	浸渍面积需 95%以上 95% of immersed area must show no voids, pin holes.
5-3-9	焊锡耐热性 Resistance to Soldering Heat	焊接时间: 5~10 秒. 焊接温度: 255+5/-5℃. Soldering time:5~10 sec solder. Temperature:255+5/-5℃. (Based upon EIA-364-56D)	外观 Appearance	无异状 No Damage
			接触阻抗 Contact Resistance	20milliohms Max.
			绝缘阻抗 Insulation Resistance	100 MΩ Min