

Product Specification 【产品规格书】	Document No.	PS-HRS-2552-1
Product Name 【产品名称】： 2.54mm Pitch HRS-2552 Series Connector	Date Issued	2021/2/26
	Date Revised	2021/4/19
	Version	B

This specification is only referred to the HRS-2552 series connector (wire to
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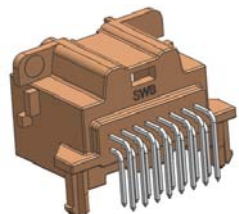
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【1.适用范围 Scope】

此规格包括 2.54mm Pitch HRS-2552 Series 连接器规格说明.

This Specification includes the 2.54mm Pitch HRS-2552 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/Header	HRS-2552WR-2*08-PASN3ZT	

【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 Header	Housing	PPA GF30 (UL 94V-0)	棕色 Brown
	PIN	黄铜/Brass	Underplated Ni (1~3um)Overall; Top plating: Sn (2~5um) overall

(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	18V	[AC/DC]
额定电流 Rated Current	5A@0.35mm ²	
使用温度范围 Ambient Temperature Range	-40℃~+125℃	

【5.性能 Performance】

Prepared By: Xiaohu jiang	Approved By: Jason Huang	Page: 2 of 5
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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	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. (USCAR-2 5.5.1)	100 Megohm Min.
5-1-2	耐电压 Dielectric Strength	公母配合,在相邻端子,端子与地片之间,施加1000V 60hz 的有效值电压. Apply an AC rms voltage of 1000V at 60 Hz across each adjacent cavity and between the terminals to ground	没有击穿或出现电火花 No Breakdown and Flashover
5-1-3	电压降 Voltage Drop	端子在 75±3 毫米的点上, 板端 PIN 插板的点上测量整个线路的电压降及总链接电阻。 The voltage drop and the total link resistance of the whole line are measured at the point of 75±3 mm at the terminal and the point of the PIN plug board at the board end.(USCAR-2 5.3.2)	电压降 50mV/A Max 总连接电阻 20 milliohms Max

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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	插拔力 Insertion & Retention Force	以每分钟 50mm/min 的速率插入和拔出. Insert and withdraw Connectors at the speed rate of 50mm/minute. (USCAR-2 5.4.2)	$\leq 75\text{N}$ {7.75kgf}
5-2-2	Pin 针保持力 Pin Retention Force	以 100mm/min 速度顶出 PIN 针 Eject the PIN needle at a speed of 100mm/min (VW80106)	30N {3.06kgf} MIN.
5-2-3	公母座带卡扣保持 力 Male/Female Housing Retention Force	以均匀不超过 50mm/min 的速度增加分离力, 直至连接器完全分离。 Increase the separation force at a uniform speed of not more than 50mm/min until the connector is completely separated. (USCAR-2 5.4.2)	110N(11.22kgf) MIN
5-2-4	PCB 板插入力 Force-to-Seat Header to PCB	将连接器插入 PCB 插入力(含定位柱) Inserting force to insert connector into PCB (including locating post)	40N(4.06kgf) MAX
5-2-5	PCB 板拆除力 Force-to-Remove Header from PCB	在没有焊料的情况下完全从 PCB 上拆下头的力 The force to completely remove the Header from the PCB without solder	10N {1.02kgf} 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	盐水喷雾 Salt Spray	在温度 $35\pm2^{\circ}\text{C}$, 盐水浓度 $5\pm1\%$ 下, 盐水喷雾 48 小时. 48hours exposure to a salt spray from the $5\pm1\%$ solution at $35\pm2^{\circ}\text{C}$. (IEC68-2-11).	外观 Appearance	无异状 No Damage
			接触阻抗 Contact Resistance	20 milliohms Max.
5-3-2	焊锡性 Solder-Resistance	焊接时间: 3 ± 0.5 秒. 焊接温度: $245\pm5^{\circ}\text{C}$. Soldering time: $3\pm0.5\text{sec}$ solder. Temperature: $245\pm5^{\circ}\text{C}$.	浸锡性 Solder Wetting	浸渍面积需 90% 以上 90% of immersed area must show no voids, pin holes.
5-3-3	焊锡耐热性 Resistance to Soldering Heat	将恒温铬铁温度调整至 $350\pm5^{\circ}\text{C}$, 将熔融状态的锡焊料按压在 PIN 脚 3 秒。 Press the solder trowel of $350\pm5^{\circ}\text{C}$ for 3sec	外观 Appearance	无异状 No Damage
			接触阻抗 Contact Resistance	20 milliohms Max.