

Product Specification [产品规格书]:	Document No	PS-2624-01
Subject [主题]: 4.20 Pin Header Connectors	Date Issued	2025/7/16
	Date Revised	/
	Version	A0

This specification is referred to the 4.20mm series Header Connector

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【1.适用范围 Scope】

此种规格包括 4.20mm Pitch Series 排针连接器规格说明.

This specification includes a 4.20mm Pitch 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.	产品图示 Picture of Product
排针/pin header	2624W-C0202-02H00	

【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 Connector	Base	PA9T	UL 94V-0
	PIN	C5191	Underplate:Ni 70~120u"(1.75~3um) overall Top Plating:Sn 100~200u"(2.5~5um) 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 【Standard】	
额定电压 Rated Voltage (Max.)	250V	[AC/DC]
额定电流 Rated Current (Max.)	3A	
使用温度范围 Ambient temperature Range	-40℃~+125℃	

【 *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	绝缘电阻 insulation resistance	参照 SAE USCAR-2 Rev8-2022 5.5.1 将试验样品的所有接端交错连接成两组, 再施加 500 VAC 电压 测量绝缘电阻。 Refer to SAE USCAR-2 Rev8-2022 5.5.1 Apply 500 VAC voltage (desiccation bound) between all contacts connected together and a metal foil surrounding the housing. In addition, apply the voltage a different test sample to every two adjacent contacts.	1000 Megohms Min.
5-1-2	耐电压 Dielectric Strength	在相邻端子之间,施加 1000V 的有效值电压.检测连接器 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.

项 目 【Item】		条 件 【Test Condition】	规 格 【Requirement】
5-2-1	板端 Pin 针保持力 Header Pin Retention	以每分 50±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 50± 3mm/minute. (Based upon EIA-364-29)	50N Min/Pin

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

测试项目 【Item】		测试条件 【Test Condition】	判定要求 【Requirement】	
5-3-1	热冲击 Thermal Shock	参照 SAE USCAR-2 Rev8-2022 5.6.1 低温-40℃, 高温+125℃, 低温保持 30 分钟, 高温保持 30 分钟, 高低温转换小于 30 秒, 100 次循环。 Refer to SAE USCAR-2 Rev8-2022 5.6.1 Min.temperature:-40℃,Max.temperature:+125℃ Cold soak for 30 min,Heat soak for 30 min,Transfer time<30s, Cycles 100 times.	外观 Appearance	无异状 No Damage
5-3-2	高温暴露 High Temperature Exposure	参照 SAE USCAR-2 Rev8-2022 5.6.3 时间: 1008H, 温度: 125℃ Refer to SAE USCAR-2 Rev8-2022 5.6.3 Time: 1008H, Temperature :125℃	外观 Appearance	无异状 No Damage
5-3-4	温度/湿度循环 Temperature/Humidity Cycling	参照 SAE USCAR-2 Rev8-2022 5.6.2 按照图中所示的蓝色阴影循环计划对样品进行 40 次测试。延长过渡时间只要保持在温度下的停留时间, 就可以使用。循环从 -40 °C 的样品开始, 然后不受控制的相对湿度。 Refer to SAE USCAR-2 Rev8-2022 5.6.2 Samples were tested 40 times according to the blue shaded cycle schedule shown in the figure. Extended transition times can be used as long as the residence time at temperature is maintained. Cycles start with samples at -40 °C, followed by uncontrolled relative humidity.	外观 Appearance	无异状 No Damage
			耐电压 Dielectric Strength	Must meet 5-1-2
			绝缘电阻 insulation resistance	1000 Megohms Min.
5-3-5	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-364-26A/MIL-STD-202 Method 101D Cond.B).	外观 Appearance	无异状 No Damage
			耐电压 Dielectric Strength	Must meet 5-1-2
			绝缘电阻 insulation resistance	1000 Megohms Min.
5-3-6	焊锡耐热性 Solder- Resistance	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-364-56A)	外观 Appearance	无异状 No Damage