



Product Specification [产品规格书]:	Document No	PS-1271-01
Subject [主题]: 1.27mm Pitch 1271 Series Connector Specification	Date Issued	2019/06/09
	Date Revised	2018/05/26
	Version	A0
<p>This specification is referred to the 1.27mm series Hearer Connector</p> <p>索引【INDEX】</p> <p>1. 适用范围【Scope】</p> <p>2. 规格与料号【Spec and Part number】</p> <p>3. 材质与表面处理【Disposal of Material and surface】</p> <p>4. 额定等级【Ratings and applicable wires】</p> <p>5. 性能【Performance】</p> <p>5-1. 电气的性能【Electrical Performance.】</p> <p>5-2. 机械的性能【Mechanical Performance】</p> <p>5-3. 环境性能及其它【Environmental Performance and Others】</p>		
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【1.适用范围 Scope】

此种规格包括 1.27mm Pitch 1271 Series 排针排母连接器规格说明.

This Specification Covers the 1.27mm Pitch 1271 Series PIN Header & 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.
排针/ Pin header	1271WV-XXX-XXXXX 1271WV-2*XXX-XXXX
排母/Female Header	1271FV-XXX-XXXXX 1271FV-2*XX-XXXX

【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
Header	Base	High Temperature Plastic	UL 94V-0
	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	[AC/DC]
额定电流 Rated Current (Max.)	1A	
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 500V 的直流电,检测连接器. Mate connectors, apply 500V DC between adjacent terminal or ground. (Based upon EIA-364-21B / MIL-STD-202 Method 302 Cond.B)	100 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 500V 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	以每分钟 25.4±3mm 的速率插入和拔出。 Insert and withdraw Connectors at the speed rate of 25.4±3mm/minute.	Mating Force: 0.15kgf/ Max./Per Pin Unmating Force: 0.01 Kgf/ Min Per Pin
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.	0.5Kgf 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 Wafer 内轴向拔出的力量。 Apply axial push force at the speed rate of 25.4±3mm/minute.	0.3Kgf 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 50 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	公母对插后,在通过额定电流下,所测定的 温度。 Carrying rated current load. (UL 1977)	温升测试 Temperature rise 30°C Max.
5-3-3 耐振动性 Vibration	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.



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项 目 【Item】		条 件 【Test Condition】	规 格 【Requirement】	
5-3-4	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.
5-3-5	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.
5-3-6	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.
5-3-7	耐冲击性 Shock	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.

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项 目 【Item】		条 件 【Test Condition】	规 格 【Requirement】	
5-3-8	温度变化 Temperature Cycling	从-40℃持续 30 分钟升至+105℃持续 30 分钟,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	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. 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
			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: 3~5 秒. 焊接温度: 260+5/-5℃. Soldering time:3~5 sec solder. Temperature:260+5/-5℃. (Based upon EIA-364-56A)	外观 Appearance	无异状 No Damage