

Product Specification [产品规格书]:	Document No	PS-HRS-9025-01
Subject [主题]:	Date Issued	2013/01/10
2.50mm Pitch HRS-9025 Series Connector Specification	Date Revised	2020/01/04
	Version	B

This specification is referred to the 2.50mm series board in connector

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【1.适用范围 Scope】

此种规格包括 2.50mm Pitch HRS-9025 Series 连接器规格说明.

This Specification Covers the 2.50mm Pitch HRS-9025 Series 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
端子/Terminal	HRS-9025TV-PSN HRS-9025TR-PSN	NONE
胶壳/Housing	HRS-9025HV-XX-N0 HRS-9025HR-XX-N0	NONE

【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
端子/Terminal	磷铜/Phosphor Bronze	Tin Plated: Over 100 μ " .Nickel: Over 50 μ " .
胶壳/Housing	PA66	UL 94V-0

(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 $^{\circ}$ C ~+105 $^{\circ}$ C	
适用线径 Applicable wire insulation O.D	AWG#22~24 (0.35~0.22mm ²)	Insulation O.D. 1.60mm(Max.)

【 *升温时含端子.Including terminal temperature rise. 】

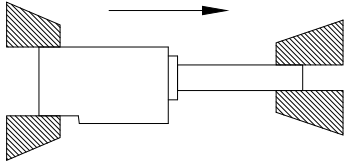
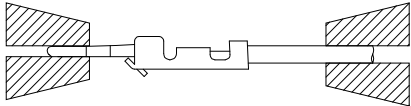
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【5.性能 PERFORMANCE】
5-1. 电气的性能 Electrical Performance.

项 目 【Item】	条 件 【Test Condition】	规 格 【Requirement】
5-1-1 绝缘阻抗 Insulation Resistance	公母配合,在相邻端子之间,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)	1000 Megohms 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,使用 800V 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)	不出现中断等情况 No Breakdown and Flashover
5-1-3 铆线后端子接触 阻抗 Contact resistance on crimped portion	铆线后之端子,开放电压 20mV 以下,电流 10mA 检测连接器. Crimp the applicable wire on to the terminal measure by dry circuit 20mV MAX, 10mA.	10 milliohms Max.

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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	端子保持力 Terminal/ Housing Retention Force	<p>以每分 50±3mm 的速率,将端子从 Housing 内轴向拔出 的力量.</p> <p>Apply axial pull out force at the speed rate of 50±3mm/minute on the terminal assembled in the housing.</p> 	9.8N {1.0kgf} Min.			
5-2-2	端子插入力 Terminal Insertion Force	<p>铆线后之端子插入 Housing 所需最大力量.</p> <p>Insert the crimped terminal into the housing.</p>	9.8N {1.0kgf} Max.			
5-2-3	端子压着强度 Crimped contact	<p>固定铆线后的端子, 使电线与端子分离时所需的最小力 量.</p> <p>Fix the crimped terminal, apply axial pull out force on the wire. (Do not crimp insulation part).</p> 	AWG 线号 (平方毫米)	#22 (0.35 mm ²)	#24 (0.22mm ²)	#26 (0.13 mm ²)
		Spec. kgf Min.	5.0	3.0	2.0	Note> As for unspecified wire sizes in this specification define values with clients

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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	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.
5-3-2	振动测试 Vibration test	振幅: 1.5mm P-P 时间: 20~200~20 Hz in 3minute 持续时间: 每轴向 3 小时 加速度: 44m/S ² 开放电压: 20mV 以下 开放电流: 10mA 以下 Amplitude: 1.5mm P-P Sweep time: 20~200~20 Hz in 3 minute Duration: 3 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.
			电压降落 Voltage Drop	20mV/A Max
5-3-3	冲击测试 Shock test	在 X.Y.Z 上 6 个方向上,以 981m/s ² (100G 的力量)冲击下各 3 回. 作用时间: 6ms 981m/s ² {100G}, 3 strokes in each X.Y.Z. axes. Operation time:6ms (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.
5-3-4	耐寒性 Cold Resistance	-40±5°C,96 hours. (Based upon EIA-364-105)	外观 Appearance	无异状 No Damage
5-3-5	耐热性 Heat Resistance	105±2°C,96 hours. (Based upon MIL-STD-202 Method 108A Cond.A)	外观 Appearance	无异状 No Damage
5-3-6	耐湿性 Humidity	温度: 40±2°C 湿度: 90~95%(RH) 持续时间: 96 hours	外观 Appearance	无异状 No Damage

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		Temperature: 40±2°C Relative Humidity: 90~95% Duration: 96 hours (Based upon EIA-364-31A/MIL-STD-202 Method 103B Cond.B)	耐电压 Dielectric Strength 绝缘阻抗 Insulation Resistance	Must meet 5-1-2 500 Megohms Min.
5-3-7	盐水喷雾 Salt Spray	在温度 35±2°C, 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°C. (Based upon EIA-364-26B/MIL-STD-202 Method 101D Cond.B).	外观 Appearance	无异状 No Damage
5-3-8	焊锡附着性 Solder-ability	焊接时间: 3~5 秒. 焊接温度: 245±5°C. Soldering Time: 3~5second. Solder Temperature: 245±5°C. (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.

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6.测试顺序 QUALIFICATION TEST SEQUENCE

Item 项目	DESCRIPTION 叙述	SEQUENCE 顺序											METHOD 方法
		A	B	C	D	E	F	G	H	I	J	K	
1	Examination of product 外观检验	1, 3	1, 4	1	1	1	1, 7	1, 7	1, 7	1, 3	1, 3	1, 3	
2	Insulation resistance 绝缘阻抗						2, 5	2, 5	2, 5				5-1-1
3	Dielectric withstanding Voltage 耐电压						3, 6	3, 6	3, 6				5-1-2
4	铆线后端子接触阻抗 Contact resistance on crimped portion										2		5-1-3
5	端子保持力 Terminal/Housing Retention Force			2									5-2-1
6	端子插入力 Terminal Insertion Force				2								5-2-2
7	端子压着强度 (Crimped contact)					2							5-2-3
8	TEMPERATURE RISING 温升测试	2											5-3-1
9	Vibration 振动测试		2										5-3-2
10	冲击测试 Shock test		3										5-3-3
11	耐热性 Heat Resistance						4						5-3-4
12	耐寒性 Cold Resistance							4					5-3-5
13	耐湿性测试 Humidity								4				5-3-6
14	Salt spray 盐水喷雾									2			5-3-7
15	Solderability 沾锡性											2	5-3-8