

Product Specification [产品规格书]:	Document No:	PS-HRS-9020-01
Subject [主题]:	Date Issued	2013/01/10
2.00mm Pitch HRS-9020 Series Connector Specification	Date Revised	2021/03/12
	Version	B

This specification is referred to the 2.00mm series board in connector

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【1.适用范围 Scope】

此种规格包括 2.00mm Pitch HRS-9020 Series 连接器规格说明。

This Specification Covers the 2.00mm Pitch HRS-9020 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-9020TV-PSN-X HRS-9020TR-PSN-X	NONE
胶壳/Housing	HRS-9020HV-XX-N0 HRS-9020HR-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 100μ" .Nickel: Over 50μ" .
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.)	2A		
使用温度范围 Ambient temperature Range	-40℃~+125℃		
适用线径 Applicable wire insulation O.D	HRS-9020TV-PSN	AWG#24~26 (0.22~0.13mm ²)	Insulation O.D. 1.30mm(Max.)
	HRS-9020TV-PSN-H	AWG#22~24 (0.35~0.22mm ²)	Insulation O.D. 1.40mm(Max.)

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

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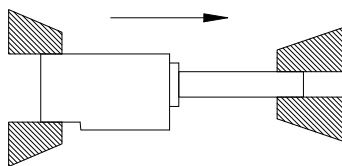
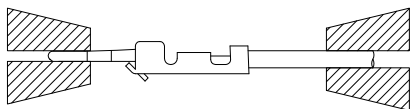
【5.性能 PERFORMANCE】

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,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)	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	以每分 25.4±3mm 的速率,将端子从 Housing 内轴向拔出的力量. Apply axial pull out force at the speed rate of 25.4±3mm/minute on the terminal assembled in the housing.	9.8N {1.0kgf} Min.			
						
5-2-2	端子插入力 Terminal Insertion Force	铆线后之端子插入 Housing 所需最大力量. Insert the crimped terminal into the housing.	9.8N {1.0kgf} Max.			
5-2-3	端子压着强度 Tensile strength (Crimped connections)	固定铆线后的端子, 使电线与端子分离时 所需的最小力量.	AWG#	FLY (0.35 mm ²)	FLY (0.22 mm ²)	FLY (0.13m m ²)
		Spec. kgf Min.		50N (75N) ^{a)}	50N	14.7N
			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	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
5-3-2	耐寒性 Cold Resistance	-40±5℃,96 hours. (Based upon EIA-364-105)	外观 Appearance	无异状 No Damage
5-3-3	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
5-3-4	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.

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