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Product Specification [产品规格书]:	Document No	PS-2011-01
Subject [主题]:	Date Issued	2019/06/09
2.00mm Pitch 2011 Series Connector Specification	Date Revised	2018/05/26
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This specification is referred to the 2.00mm series wire to board connector

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【1.适用范围 Scope】

此种规格包括 2.00mm Pitch 2011 Series 连接器规格说明.

This Specification Covers the 2.00mm Pitch 2011 Series Connector Specification.

【2.规格与料号 Spec and Part number】

规格内容	产品料号	产品图示
Specification	Production No.	Picture of Product
端子/Terminal	2011TX-PSN-AX	2-2- 2-1
胶壳/Housing	2011H-XXA-N0	min house
针座/Wafer	2011WV-XXA-XXXX 2011WR-XXA-XXXX	A A A A A A A A A A A A A A A A A A A

【3.材质与表面处理 Disposal of Material and surface】

•	5.构成与农园是是 Disposal of Placerial and Sarrace 1								
规格内容			材 质	表面处理					
Specification			Materials	Disposal of Surface					
	端子/Terr	minal	磷铜/Phosphor Bronze	1. Tin Plated: Over 70μ " .Nickel: Over 30μ " . 2. Gold Flash or $1u$ " . Nickel: Over 30μ " .					
	胶壳/Housing		PA66	UL 94V-0					
	针座/Wafer	Base	PA66	UL 94V-0					
	*I PE/ Walei	PIN	黄铜/Brass	Over Tin 70µ" Plated ; Over 30µ" Nickel					

(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.)	页定电流 Rated Current (Max.) 3A				
使用温度范围 Ambient temperature Range	-25°C ~+85°C				
适用线径 Applicable wire insulation O.D	22~28 AWG Insulation O.D. 1.45mm(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	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: 30 milliohms Max. After Test: 40 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)	1000 Megonms 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 1000V 的交流电 1 分锺,检测连接器. Mate connectors, apply 1000V 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
5-1-4	阻抗 Contact resistance on	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 条件 規格					
	[Item]	Test Condition	[Requirement]			
5-2-1	插拔力 Insertion & Retention Force	以每分锺 25.4±3mm 的速率插入和拔出. Insert and withdraw Connectors at the speed rate of 25.4±3mm/minute.	参照第 6 项 Refer to paragraph 6			
5-2-2	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.	14.7N {1.5kgf} Min.			
5-2-3	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.			
5-2-4	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. PUSH	9.8N {1.0kgf} min.			

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	项 目	条 件		规		格		
【Item】 【Test Condition】					quire	emen	t]	
		固定铆线后的端子,使电线与端子分离时所需的	AWG#	#22	#24	#26	#28	#30
	端子压着强度 Tensile strength	最小力量.	Spec.					
		Fix the crimped terminal, apply axial pull out	kgf.	5.0	3.0	2.0	1.0	0.5
F 2 F		force on the wire. (Do not crimp insulation part).	Min.					
5-2-5	(Crimped connections)		Note:	n this	spec	•	ion de	

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

	项 目	条 件	规	格
	【Item】	[Test Condition]	【Require	ement]
5-3-1	重复插拔 Repeated Insertion/ Withdrawal	以每分锺不超过 10 次的速率,将公母插拔 50 次. When mated up to 50 cycles repeatedly by the rate of 10 cycles per minute.	接触阻抗 Contact Resistance	40 milliohms Max.
5-3-2	温升测试 Temperature Rise	温升测试: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 termperature rise. (EIA364-70,Method 1)	温升测试 Temperature rise	30℃ Max.
	耐振动性 Vibration	振幅: 1.5mm P-P 时间: 10~55~10 HZ in 1 minute	外观 Appearance	无异状 No Damage
5-3-3			接触阻抗 Contact Resistance	40 milliohms Max.
			19年15月	1 micro- second Max.
			外观	无异状
		在 X.Y.Z 上 6 个方向上,以 490m/s²(50g 的力量)	Appearance	No Damage
5-3-4	耐冲击性 Shock	接触阻抗 Contact Resistance	40 milliohms Max.	
		Method 213B Cond.A)	瞬断 Discontinuity	1 micro- second Max.

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项 目 【Item】		条 件 【Test Condition】	规 【Require	规 格 【Requirement】	
	71 th 1d	85±2℃,96 hours.	外观 Appearance	无异状 No Damage	
5-3-5	耐热性 Heat Resistance	(Based upon MIL-STD-202 Method 108A Cond.A)	接触阻抗 Contact Resistance	40 milliohms Max.	
5-3-6	耐寒性	-25±5°C,96 hours.	外观 Appearance 接触阻抗	无异状 No Damage 40 milliohms	
	Cold Resistance	(Based upon EIA-364-105)	Contact Resistance	Max.	
		温度: 40±2℃	外观 Appearance	无异状 No Damage	
	耐湿性	湿度: 90~95%(RH) 持续时间: 96 hours Temperature: 40±2℃	接触阻抗 Contact Resistance	40 milliohms Max.	
5-3-7	Humidity	Relative Humidity: 90~95% Duration: 96 hours	耐电压 Dielectric Strength	Must meet 5-1-3	
		(Based upon EIA-364-31A/MIL-STD-202 Method 103B Cond.B)	绝缘阻抗 Insulation Resistance	500 Megohms Min.	
		从-25℃持续 30 分锺升至+85℃持续 30 分锺,循	外观 Appearance	无异状 No Damage	
5-3-8	温度变化 Temperature Cycling	环 5 次. 5 cycles of: a) -25℃ 30 minutes. b) +85℃ 30 minutes. (Based upon EIA-364-32B)	接触阻抗 Contact Resistance	40 milliohms Max.	
		在温度 35±2℃,盐水浓度 5±1%下,盐水喷雾	外观 Appearance	无异状 No Damage	
5-3-9	盐水喷雾 Salt Spray	24±1 小时. 24±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).	接触阻抗	40 milliohms Max.	

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项 目 【Item】		条 件 【Test Condition】	规 格 【Requirement】	
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: 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

【6.综合插入力及拔出力 INSERTION/WITHDRAWAL FORCE】 < Connector mating force>

PIN 数	初次插入力(最大值)	30 次拔出力(最小值)	PIN 数	初次插入力(最大值)	30 次拔出力(最小值)
No. of CKT	First Insertion (kgf Max.)	30 th Withdrawal (kgf Min.)	No. of CKT	First Insertion (kgf Max.)	30 th Withdrawal (kgf Min.)
Single	1.00	0.10	09	5.0	1.4
02	1.5	0.3	10	6.0	1.4
03	3.0	0.6	11	6.0	1.4
04	3.0	0.6	12	6.0	1.6
05	4.0	1.0	13	7.0	1.8
06	4.0	1.0	14	8.0	2.0
07	5.0	1.2	15	10.0	2.2
08	5.0	1.2	16	10.0	2.5

注: 以上插拔次数为 30 次 Note: Insertion and Withdrawal for 30Cycles

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