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Product Specification [产品规格书]:	Document No	PS-1257-01
Subject [主题]:	Date Issued	2019/06/09
1.25mm Pitch 1257 Series Connector Specification	Date Revised	2018/05/26
	Version	A0

This specification is referred to the 1.25mm series wire to board connector

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【1.适用范围 Scope】

此种规格包括 1.25mm Pitch 1257 Series 连接器规格说明.

This Specification Covers the 1.25mm Pitch 1257 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	1257T-PXX	
胶壳/Housing	1257H-XXHF-LP	
针座/Wafer	1257WRS-XXX-XXXX 1257WVS-XXX-XXXX	

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

5.构成与农园发生 Disposar of Material and Sarrace 1				
规格内容		材 质	表面处理	
Specification		Materials	Disposal of Surface	
端子/Terminal		磷铜/Phosphor Bronze	Nickel: Over 30µ" . Tin Plated	
胶壳/Housing		LCP	UL 94V-0	
Base		High Temperature Plastic	UL 94V-0	
针座/Wafer	PIN	磷铜/Phosphor Bronze	Over Tin 70µ " Plated Over 30µ " Nickel	
	Solder tab	磷铜/Phosphor Bronze	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.)	200V	[AC/DC]	
额定电流 Rated Current (Max.)	1.5A	[AC/DC]	
使用温度范围 Ambient temperature Range	-40°C ~+130°C		
适用线径 Applicable wire insulation O.D	AWG 26#~28#、 Insulation O.D. 1.00mm(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: 20 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 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 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	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.	5 milliohms Max.

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5-2. 机械的性能 Mechanical Performance.

	项 目	条 件_	规格
	【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.	9.80N {1.0kgf} 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 内轴向推出的力量. Apply axial push force at the speed rate of 25.4±3mm/minute.	0.5N {0.05kgf} Min.

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项 目 【Item】		条 件 【Test Condition】	规 【Req	格 uirement	:]
		固定铆线后的端子,使电线与端子分离时所需的最	AWG#	#26	#28
	端子压着强度	lon the wire. (Do not crimp insulation part).	Spec.kgf. Min.	1.5	1.0
5-2-5	Tensile strength (Crimped connections)	Contact Wire Pulling load	Note> As for sizes in this values	•	on define

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

	项目	条 件	规	格
	[Item]	[Test Condition]	[Require	
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 10 次. When mated up to 10 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°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	外观 Appearance 接触阻抗 Contact Resistance	无异状 No Damage 40 milliohms Max.
	Violation	Duration: 2 hours in each X.Y.Z axials. (Based upon EIA-364-28B/MIL-STD-202 Method 213B Cond.A)	RIPAT ECUI	1 micro- second Max.
			外观	无异状
		在 X.Y.Z 上 6 个方向上,以 490m/s ² (50g 的力量)	Appearance	No Damage
5-3-4	耐冲击性 Shock	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	Contact	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 格 【Requirement】	
5-3-5	耐热性 Heat Resistance	130±2°C,96 hours. (Based upon MIL-STD-202 Method 108A Cond.A)	外观 Appearance	无异状 No Damage 40 milliohms Max.
5-3-6	耐寒性 Cold Resistance	-40±5°C,96 hours. (Based upon EIA-364-105)	外观 Appearance 接触阻抗 Contact Resistance	无异状 No Damage 40 milliohms Max.
5-3-7	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 接触阻抗 Contact Resistance 耐电压 Dielectric Strength 绝缘阻抗 Insulation Resistance	无异状 No Damage 40 milliohms Max. Must meet 5-1-3 100 Megohms Min.
5-3-8	温度变化 Temperature Cycling	从-40℃持续 30 分锺升至+130℃持续 30 分锺, 循环 5 次. 5 cycles of: a) -40℃ 30 minutes. b) +130℃ 30 minutes. (Based upon EIA-364-32B)	外观 Appearance 接触阻抗 Contact Resistance	无异状 No Damage 40 milliohms Max.
5-3-9	盐水喷雾 Salt Spray	在温度 35 ± 2 °C, 盐水浓度 5 ± 1 %下, 盐水喷雾 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)	接触阻抗	无异状 No Damage 40 milliohms
5-3-10	焊锡附着性 Solder- ability	Method 101D Cond.B). 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)	Resistance Solder Wetting	Max. 浸渍面积需 95%以上 95% of immersed area must show no voids, pin holes.

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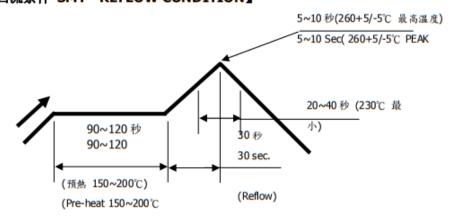
	项 目	条 件	规 格	
[Item]		Test Condition	[Requirement]	
5-3-11	1	焊接时间: 5~10 秒. 焊接温度: 255+5/-5℃. Soldering time:5~10 sec solder. Temperature:255+5/-5℃. (Based upon EIA-364-56A)	外观 无异状 Appearance No Damage	е

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

PIN 数 No. of CKT	初次插入力(最大值) First Insertion (kgf Max.)	30 次拔出力(最小值) 30 th Withdrawal (kgf Min.)	PIN 数 No. of CKT	, ,	30 次拔出力(最小值) 30 th Withdrawal (kgf Min.)
05	1.50	0.30	20	5.00	0.70
10	3.00	0.40	25	6.00	1.00
15	4.00	0.50			_

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

【7. SMT 回流条件 SMT REFLOW CONDITION】



温度条件曲线图/ 基板上温度

TEMPERATURE CONDITION GRAPH/ (TEMPERATURE ON BOARD PATTERN SIDE)

注记:由于 P.C 板等焊接装置改变条件,所以请预先用自己的装置检查回流焊的条件.

Notes: Please check the reflow soldering condition by your own devices beforehand. Because the condition changes by the soldering devices, P.C. boards, and so on.

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