

Product Specification [产品规格书]:		ISSUED BY: Engineering Dept		
Subject [主题]:		Date Issued	2014/01/10	
-	es Connector Specification	Date Revised	2014/02/08	

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 9827 Series 连接器规格说明.

This Specification Covers the 1.25mm Pitch 9827 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	9827T-PXX	NONE
胶壳/Housing	9827H-XX-N0HF	NONE
针座/Wafer	9827WRS-XX-XXXX	NONE

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

25時級与农區及注 Disposal of Material and Sarrace 2				
规格内容		材 质	表面处理	
Specific	ation	Materials	Disposal of Surface	
ى 出了/Tori	minal	珠年/Phosphor Propzo	Nickel: Over 30µ″ Min.	
端子/Ter	IIIIIIai	磷铜/Phosphor Bronze	Gold Flash or 1μ″ or 3μ″	
胶壳/Housing		PA66	UL 94V-0	
	Base	High Temperature Plastic	UL 94V-0	
针座/Wafer	PIN	磷铜/Phosphor Bronze	Gold Plated Over 30µ″ Nickel	
	Solder tab	磷铜/Phosphor Bronze	Gold 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.)	125V	[AC/DC]	
额定电流 Rated Current (Max.)	额定电流 Rated Current (Max.) 1A		
使用温度范围 Ambient temperature Range	-40°C~+85°C		
适用线径 Applicable wire insulation O.D	AWG 28#~32# Insulation O.D. 0.90mm(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]	Test Condition	[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)	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250V的交流电1分锺,检测连接器. Mate connectors, apply 250V 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	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】	【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.	4.90N {0.5kgf} 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.	4.9N {0.5kgf} 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 内轴向拨出的力量. Apply axial push force at the speed rate of 25.4±3mm/minute.	1.96N {0.20kgf} min.		



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	项 目	条件	规		格	
	【Item】	【Test Condition】	【Requ	ireme	ent]	
		固定铆线后的端子, 使电线与端子分离时所	AWG#	#28	#30	#32
5-2-5	端子压看强度 Tensile strength	需的最小力量. Fix the crimped terminal, apply axial pull out force on the wire. (Do not crimp insulation part).	Spec.kgf. Min.	1.0	0.5	0.3
	(Crimped connections)	Pull/25mm/min	Note> As for sizes in this define valu	s spec	ificati	ion

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

项 目				
[Item]		【Test Condition】	[Requirement]	
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	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	40 milliohms Max.
			瞬断 Discontinuity	1 micro- second Max.
	耐冲击性 Shock	在 X.Y.Z 上 6 个方向上,以 490m/s ² (50g 的	外观 Appearance	无异状 No Damage
5-3-4		力量)冲击下各 3 回.490m/s ² {50G}, 3 strokes in each X.Y.Z. axes.	接触阻抗 Contact Resistance	40 milliohms Max.
		(Based upon EIA-364-27B/MIL-STD-202 Method 213B Cond.A)	瞬断 Discontinuity	1 micro- second Max.



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	耐热性 Heat Resistance	85±2°C,96 hours.	外观 Appearance	无异状 No Damage
5-3-5		(Based upon MIL-STD-202 Method 108A)	接触阻抗 Contact Resistance	40 milliohms Max.
	耐寒性 Cold Resistance	-25±5°C,96 hours. (Based upon EIA-364-105)	外观 Appearance	无异状 No Damage
5-3-6			接触阻抗 Contact Resistance	40 milliohms Max.
5-3-7	耐湿性 Humidity	温度: 40±2°C 湿度: 90~95%(RH) 持续时间: 96 hours Temperature: 40±2°C 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	40 milliohms Max.
			耐电压 Dielectric Strength	Must meet 5-1-3
			绝缘阻抗 Insulation Resistance	100 Megohms Min.
5-3-8	温度变化 Temperature Cycling	从-55°C持续 30 分锺升至+85°C持续 30 分锺,循环 5 次. 5 cycles of: a) -55°C 30 minutes. b) +85°C 30 minutes. (Based upon EIA-364-32B)	外观 Appearance	无异状 No Damage
			接触阻抗 Contact Resistance	40 milliohms Max.
5-3-9	盐水喷雾 Salt Spray		外观 Appearance	无异状 No Damage
			接触阻抗 Contact Resistance	40 milliohms Max.
5-3-10	焊锡附着性 Solder- ability	焊接时间: 3±0.5 秒. 焊接温度: 245±5℃.		浸渍面积需 95%以上 95% of
		Soldering Time: 3±0.5second. Solder Temperature: 245±5°C.	must show	immersed area must show no voids, pin
		(Based upon EIA-364-52)		holes.



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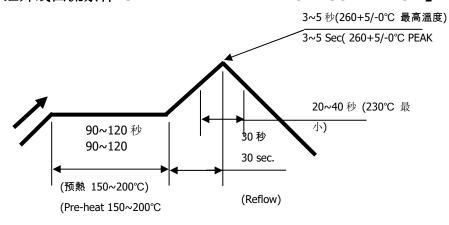
项 目		条 件	规	格
【Item】		【Test Condition】	【Require	ement】
5-3-11	焊锡耐热性	焊接时间: 3~5 秒. 焊接温度: 260+5/-0°C. Soldering time:3~5 sec solder. Temperature:260+5/-0°C. (Based upon EIA-364-56A)	外观 Appearance	无异状 No Damage

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

PIN 数 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	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.)
2	0.45	0.05	10	2.20	0.20
3	0.65	0.06	11	2.40	0.22
4	0.90	0.08	12	2.65	0.24
5	1.10	0.10	13	2.85	0.26
6	1.30	0.12	14	3.10	0.28
7	1.55	0.14	15	3.30	0.30
8	1.75	0.16	20	4.40	0.40
9	2.00	0.18	30	6.60	0.60

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

【7. SMT 红外线回流条件 SMT INFRARED 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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