



Product Specification [产品规格书]:	Document No	PS-2545-01
Subject [主题]: 2.54mm Pitch 2545 Series Connector Specification	Date Issued	2018/03/08
	Date Revised	2020/07/23
	Version	A0

This specification is referred to the 2.54mm series wire to board connector

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【1.适用范围 Scope】

此种规格包括 2.54mm Pitch 2545 Series 连接器规格说明.

This Specification Covers the 2.54mm Pitch 2545 Series Connector Specification.

【2.规格与料号 Spec and Part number】

规格内容 Specification	产品料号 Production No.
端子/Terminal	2545T-PXX
胶壳/Housing	2545H-XX-XXXX
针座/Wafer	2545WVS-XX-XXXXX

【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	Phosphor Bronze	1.Tin Plated: Over 100μ" .Nickel: Over 50μ" . 2. Gold Flash . Nickel: Over 50u"
胶壳/Housing	PA66	UL 94V-0
针座/Wafer	Base	PA4T
	PIN	黄铜/Brass
	Harpoon	磷铜/Phosphor Bronze
		Over Tin 100μ" Plated ; Over 50μ" Nickel Gold Plated . Nickel: Over 50u"
		Over Tin 100μ" Plated ; Over 50μ" 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.)	3A	
使用温度范围 Ambient temperature Range	-25℃~+85℃	
适用线径 Applicable wire insulation O.D	AWG 22#~30# Insulation O.D. 1.30mm(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: 30 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 分钟,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	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 插拔力 Insertion & Retention Force	以每分钟 25.4±3mm 的速率插入和拔出. Insert and withdraw Connectors at the speed rate of 25.4±3mm/minute.	3.92N(0.40kgf) Max. Insertion force Per Pin 0.19N((0.02kgf) Min Withdrawal force Per Pin
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 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.	9.8N {1.0kgf} min.

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 重复插拔 Repeated Insertion/ Withdrawal	以每分钟不超过 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 30 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℃ 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 30 milliohms Max.
		瞬断 Discontinuity 1 micro- second Max.



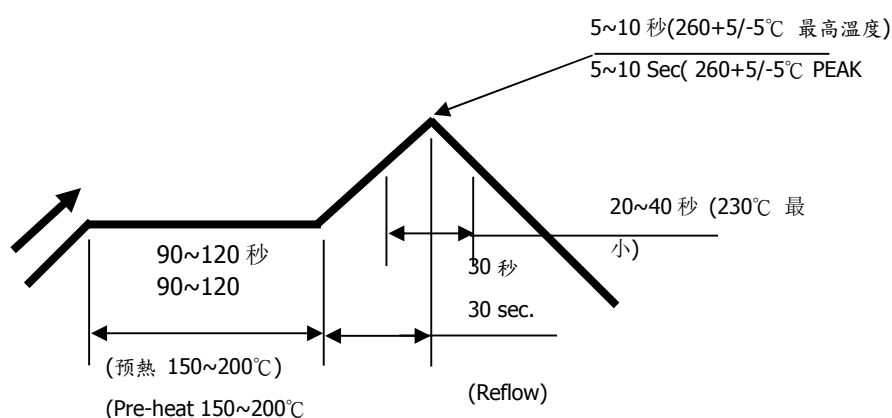
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项 目 【Item】		条 件 【Test Condition】	规 格 【Requirement】	
5-3-4	耐冲击性 Shock	在 X.Y.Z 上 6 个方向上,以 490m/s ² (50g 的力量)冲击下各 3 回.490m/s ² {50G}, 3 strokes in each X.Y.Z. axes. (Based upon EIA-364-27B/MIL-STD-202 Method 213B Cond.A)	外观 Appearance	无异状 No Damage
			接触阻抗 Contact Resistance	30 milliohms Max.
			瞬断 Discontinuity	1 micro-second Max.
5-3-5	耐热性 Heat Resistance	85±2℃,96 hours. (Based upon MIL-STD-202 Method 108A Cond.A)	外观 Appearance	无异状 No Damage
			接触阻抗 Contact Resistance	30 milliohms Max.
5-3-6	耐寒性 Cold Resistance	-25±5℃,96 hours. (Based upon EIA-364-105)	外观 Appearance	无异状 No Damage
			接触阻抗 Contact Resistance	30 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	无异状 No Damage
			接触阻抗 Contact Resistance	30 milliohms Max.
			耐电压 Dielectric Strength	Must meet 5-1-3
			绝缘阻抗 Insulation Resistance	500 Megohms Min.
5-3-8	温度变化 Temperature Cycling	从-25℃持续 30 分锺升至+85℃持续 30 分锺,循环 5 次. 5 cycles of: a) -25℃ 30 minutes. b) +85℃ 30 minutes. (Based upon EIA-364-32B)	外观 Appearance	无异状 No Damage
			接触阻抗 Contact Resistance	30 milliohms Max.

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项 目 【Item】	条 件 【Test Condition】	规 格 【Requirement】
5-3-9 盐水喷雾 Salt Spray	在温度 $35\pm 2^{\circ}\text{C}$, 盐水浓度 $5\pm 1\%$ 下, 盐水喷雾 48 ± 1 小时. 48 ± 1 hours exposure to a salt spray from the $5\pm 1\%$ solution at $35\pm 2^{\circ}\text{C}$. (Based upon EIA-364-26B/MIL-STD-202 Method 101D Cond.B).	外观 Appearance 无异状 No Damage
		接触阻抗 Contact Resistance 30 milliohms Max.
5-3-10 焊锡附着性 Solder-ability	焊接时间: 3~5 秒. 焊接温度: $245\pm 5^{\circ}\text{C}$. Soldering Time: 3~5second. Solder Temperature: $245\pm 5^{\circ}\text{C}$. (Based upon EIA-364-52)	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: $260+5/-5^{\circ}\text{C}$. Soldering time: 5~10 sec solder. Temperature: $260+5/-5^{\circ}\text{C}$. (Based upon EIA-364-56A)	外观 Appearance 无异状 No Damage

【6. 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.