TEL:0769-82001899 FAX:0769-87929170

产品规格书 PRODUCT SPECIFICATION

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

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Product Speci	fication [产品规格书]:	ISSUED BY:	Engineering Dept
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	2.54mm Pitch 2553 Series Connector Specification	Date Revised	2014/03/08

【1.适用范围 Scope】

此种规格包括 2.54mm Pitch 2553 Series 连接器规格说明.

This Specification Covers the 2.54mm Pitch 2553 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	T2553PS-2	NONE
胶壳/Housing	P2553-XX-XXX	NONE
针座/Wafer	M2553V-XX-XXX M2553R-XX-XXX	NONE

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

规格内容		材 质	表面处理
Specific	ation	Materials	Disposal of Surface
端子/Terminal		磷铜/Phosphor Bronze	 1.Tin Plated: Over 70μ" .Nickel: Over 30μ" . 2. Gold Flash . Nickel: Over 30u"
胶壳/Housing		PA66	UL 94V-0
针 in ////ofor	Base	High Temperature Plastic	UL 94V-0
针座/Wafer	PIN	黄铜/Brass	 Over Tin 70μ" Plated ; Over 30μ" Nickel Gold Flash . Nickel: Over 30u"

(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	
额定电流 Rated Current (Max.)	3A	[AC/DC]
使用温度范围 Ambient temperature Range	-25 ℃ ~+85 ℃	
适用线径 Applicable wire insulation O.D	AWG 22#~30# Insula	ation O.D. 1.90mm(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 条 件 规 格					
[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: 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	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.	17.79N {1.8kgf} 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.	14.7N {1.5kgf} 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.	14.7N {1.5kgf} min.

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		项 目 【Item】	条 件 【Test Condition】	ľ	规 Reguir	格 ement]
ľ					#22	#24	#26
5-2-5	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.	5.0	3.0	2.0	
		(Crimped connections)	Contact Wire Pulling load		in this	nspecific specifica s with cl	ation

<u>5-3. 环境性能及其它 Environmental Performance and Others.</u>

项 目			格	
【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	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.
	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	耐振动性 Vibration	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.	接触阻抗 Contact Resistance	30 milliohms Max.
(Ba		(Based upon EIA-364-28B/MIL-STD-202 Method 213B Cond.A)	瞬断 Discontinuity	1 micro- second Max.
		- VV7 6 A > + 11 400 4 2450 44	外观	无异状
	在 X.Y.Z 上 6 个方向上,以 490m/s ² (50g		Appearance	No Damage
5-3-4	耐冲击性 Shock	力量)冲击下各 3 回.490m/s ² {50G}, 3	接触阻抗 Contact	30 milliohms Max.
		strokes in each X.Y.Z. axes.	Resistance	
		(Based upon EIA-364-27B/MIL-STD-202	瞬断	1 micro-
		Method 213B Cond.A)	Discontinuity	second Max.

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	项目	条件	规	格
【Item】		【Test Condition】	【Requirement】	
			外观	无异状
5 2 5	耐热性	85±2℃,96 hours.	Appearance	No Damage
5-3-5	Heat Resistance	(Based upon MIL-STD-202 Method 108A) Cond.A)	接触阻抗 Contact	30 milliohms
			Resistance	Max.
			外观	无异状
	 耐寒性	-25±5℃,96 hours.	Appearance	No Damage
5-3-6		(Based upon EIA-364-105)	接触阻抗	30 milliohms
		,	Contact	Max.
			Resistance 外观	T D 1 h
		温度: 40±2℃	ንኮኦሢ Appearance	大异状 No Damage
		湿度: 90~95%(RH)		No Damage
		持续时间: 96 hours	Contact	30 milliohms
F 2 7	耐湿性	Temperature: 40±2℃	Resistance	Max.
5-3-7	Humidity	Relative Humidity: 90~95%	耐电压	Must meet
	,	Duration: 96 hours	Dielectric Strength	5-1-3
		(Based upon EIA-364-31A/MIL-STD-202	绝缘阻抗	500 Megohms
		Method 103B Cond.B)	Insulation	Min.
		-	Resistance	141111.
		从-55℃持续 30 分锺升至+85℃持续 30 分锺,	外观	无异状
	温度变化	循环 5 次.	Appearance	No Damage
5-3-8	Temperature	5 cycles of: a) -55 ℃ 30 minutes.	接触阻抗	30 milliohms
	Cycling	b) +85 ℃ 30 minutes.	Contact	Max.
		(Based upon EIA-364-32B)	Resistance	Max.
		在温度 35±2℃,盐水浓度 5±1%下,盐水喷雾	外观	无异状
		24±1 小时.	Appearance	No Damage
5-3-9	aq 盐水喷雾	24±1 hours exposure to a salt spray from		
555	Salt Spray	the $5\pm1\%$ solution at 35 ± 2 °C .	接触阻抗	30 milliohms
		(Based upon EIA-364-26A/MIL-STD-202	Contact	Max.
		Method 101D Cond.B).	Resistance	i idx.
				浸渍面积需
		焊接时间: 3±0.5 秒.		95%以上
5-3-10	0 Solder-	焊接温度: 245±5℃.		95% of
		Soldering Time: 3±0.5second.	Solder Wetting	immersed area
		Solder Temperature: 245±5 ℃.		must show no
		(Based upon EIA-364-52)		voids, pin
				holes.

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项 目 【Item】		条 件 【Test Condition】	规 【Require	格 ement】
5-3-11 Solder		焊接时间: 3~5 秒. 焊接温度: 255+5/-5℃.		
	焊钖则热性 Solder-	序接遍度、233+3/-3 と、 Soldering time:3~5 sec solder.	外观 Appearance	无异状 No Damage
	Resistance	Temperature:255+5/-5 $^{\circ}$.		
		(Based upon EIA-364-56A)		

【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 次拨出力(最小值) 30 th Withdrawal (kgf Min.)
Single	1.30	0.05	09	7.70	0.85
02	2.10	0.15	10	8.50	0.95
03	2.90	0.25	11	9.30	1.05
04	3.70	0.35	12	10.10	1.15
05	4.50	0.45	13	10.90	1.25
06	5.30	0.55	14	11.70	1.35
07	6.10	0.65	15	12.50	1.45
08	6.90	0.75			

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

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