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产品规格书 PRODUCT SPECIFICATION

This specification is referred to the 2.50mm series wire to board connector

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Product Specification [产品规格书]: ISSUED BY: Engineering			Engineering Dept
Subject [主题]:		Date Issued 2012/09	
, , , , , , , , ,	2.50mm Pitch 2420 Series Connector Specification	Date Revised	2015/11/11

【1.适用范围 Scope】

此种规格包括 2.50mm Pitch 2420 Series 连接器规格说明.

This Specification Covers the 2.50mm Pitch 2420 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	T2420PS-2	NONE
胶壳/Housing	P2420-XX-XXX	NONE
针座/Wafer	M2420V-XX-XXX M2420R-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
Specification		Materials	Disposal of Surface
端子/Terminal		磷铜/Phosphor Bronze	
		黄铜/ Brass	Tin Plated: Over 40μ″.Nickel: Over 15μ″.
胶壳/Housing		PA66	UL 94V-0
针座/Wafer	Base	PA66	UL 94V-0
ti /空/ 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		
额定电流 Rated Current (Max.)	3A	[AC/DC]	
使用温度范围 Ambient temperature Range	-25°C~+85°C		
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. 】

WRITTEN BY: Jova Lau	APPROVED BY:Kim Huang	Sheet: 2 of 7
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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: 10 milliohms Max. After Test: 20 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. Header Housing Wire	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.	19.6N {2.0kgf} 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.	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.	19.6N {2.0kgf} min.

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		项目	条 件		规	•	格	. 1	
		【Item】	【Test Condition】			uire			
			固定铆线后的端子,使电线与端子分离时所	AWG#	#22	#24	#26	#28	#30
5-	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	1.0	0.5	
		(Crimped connections)		Note> A sizes defin	in th	nis sp	pecifi	catic	n

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

项 目 【Item】		项 目 条 件 【Item】 【Test Condition】		格 mant \
	item]	[rest 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	20 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.
	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	20 milliohms Max.
		(Based upon EIA-364-28B/MIL-STD-202 Method 213B Cond.A)	瞬断 Discontinuity	1 micro- second Max.
		2	外观	无异状
		在 X.Y.Z 上 6 个方向上,以 490m/s²(50g 的	Appearance	No Damage
5-3-4	耐冲击性 Shock	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	20 milliohms Max.
		(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 【!tama】	条 《Tast Condition》	规 【Damin	格
	(Item)	【Test Condition】	[Require	
			外观	无异状
F 2 F	耐热性	85±2°C,96 hours.	Appearance	No Damage
5-3-5	Heat Resistance	(Based upon MIL-STD-202 Method 108A	接触阻抗	20 milliohms
		Cond.A)	Contact	
		,	Resistance	Max.
			外观	无异状
	耐寒性	-25±5°C,96 hours.	Appearance	No Damage
5-3-6	Cold Resistance	·	接触阻抗	20 milliohms
	Cold Resistance	(Based upon EIA-364-105)	Contact	Max.
			Resistance	Max.
ı		温度: 40±2℃	外观	无异状
		/血/文·TU工Z U	Appearance	No Damage
		湿度: 90~95%(RH)	接触阻抗	20 milliohms
		持续时间: 96 hours	Contact Resistance	Max.
F 2 7	耐湿性	Town and turner 40 L 2°C	耐电压	Must meet
5-3-7	Humidity	Temperature: 40±2°C	Dielectric	5-1-3
		Relative Humidity: 90~95%	Strength	3-1-3
		Duration: 96 hours	绝缘阻抗	500 Megohms
		(Based upon EIA-364-31A/MIL-STD-202	Insulation	Min.
		Method 103B Cond.B)	Resistance	141111.
			外观	无异状
	温度变化	从-25℃持续 30 分锺升至+85℃持续 30 分锺, 循环 5 次.	Appearance	No Damage
5-3-8	Temperature	順かった。 5 cycles of: a) -25°C 30 minutes.		110 Damage
	Cycling	b) +85°C 30 minutes.	接触阻抗	20 milliohms
	Cycling	(Based upon EÍA-364-32B)	Contact	Max.
		大海库 251200 th 心神座 5140/ 〒 th 山東王	Resistance	구민ル
		在温度 35±2℃,盐水浓度 5±1%下,盐水喷雾 24±1 小时.	外观	│ 无异状
			Appearance	No Damage
5-3-9	盐水喷雾			
	Salt Spray	(Based upon EIA-364-26A/MIL-STD-202	接触阻抗	20 milliohms
		Method 101D Cond.B).	Contact	
		此项测试适用于 8821T-XSN 先冲后镀产品	Resistance	Max.
				浸渍面积需
	焊锡附看性	焊接时间: 3±0.5 秒.		95%以上
		焊接温度: 245±5℃.	Coldon Watting	95% of
5-3-10	Solder-	Soldering Time: 3±0.5second. Solder Temperature: 245±5°C.	Solder Wetting	immersed area must show no
	ability	(Based upon EIA-364-52)		voids, pin
		·		holes.

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	页 目 Item】	条 件 【Test Condition】	规 【Require	格 ement】
焊锡耐热性 5-3-11 Solder- Resistance		焊接时间: 3~5 秒.		
	焊接温度: 250+5/-5℃.	AL 70	T = 41	
	Soldering time:3~5 sec solder.	外观 Appearance	无异状 No Damage	
	Temperature:250+5/-5°C.			
		(Based upon EIA-364-56A)		

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

		Utili.Ngi	
Number of	Mating Force	Unmating Force	
Circuits	Initial(max.)	Initial (min.)	
2	3.5	0.4	
3	4.5	0.5	
4	5.5	0.6	
5	6.0	0.7	
6	6.5	0.8	
7	7.5	0.9	
8	7.5	1.0	
9	8.5	1.1	
10	8.5	1.2	
11	10.0	1.3	
12	10.5	1.4	
13	10.5	1.5	
14	11.0	1.6	
15	11.5	1.7	

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

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