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Product Specification [产品规格书]:		ISSUED BY: Engineering Dept	
Subject [主题]:		Date Issued	2012/09/08
2 3.35 2 2 2 2 2 2 2 2	5.08mm Pitch A5082 Series Connector Specification	Date Revised	2013/07/28

This specification is referred to the 5.08mm series wire to board connector

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### 【1.适用范围 Scope】

此种规格包括 5.08mm Pitch A5082 Series 连接器规格说明.

This Specification Covers the 5.08mm Pitch A5082 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	A5082TF-XSNX	NONE
胶壳/Housing	A5082HM-XX-XX	NONE
针座/Wafer	A5082WV-XXXX-XXXX A5082WR-XXXX-XXXX	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 $40\mu''$ .Nickel: Over $15\mu''$ . Tin Plated: Over $70\mu''$ .Nickel: Over $30\mu''$ .
胶壳/Housing		PA66	UL 94V-2/UL94V-0
た iji /Mafar	Base	PA66/High Temp Plastic	UL 94V-2/UL94V-0
针座/Wafer	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】

3 11	_	
项 目【Item】	规 格【\$	Standard ]
额定电压 Rated Voltage (Max.)	250V	
额定电流 Rated Current (Max.)	10A	[AC/DC]
使用温度范围 Ambient temperature Range	<b>-25</b> ℃	~+85℃
适用线径 Applicable wire insulation O.D AWG 16#~22# Insulation O.D.		ation O.D. 2.50mm(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: 25 milliohms Max. After Test: 25 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250V的直流电,检测连接器. Mate connectors, apply 250V 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】	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.	44.1N {4.5kgf} 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.	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 内轴向拔出的力量. Apply axial push force at the speed rate of 25.4±3mm/minute.  PUSH	14.7N {1.5kgf} min.

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	项 目	条件		规		格	
	【Item】	【Test Condition】	ľ	Requ	irem	ent ]	
		固定铆线后的端子,使电线与端子分离时所	AWG#	#16	#18	#20	#22
5-2-5	端子压着强度	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.	10.0	9.0	6.0	4.0
		Contact Wire Pulling load	Note> A sizes defin	in thi	s spec	cificat	ion

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

项 目 条 件 规 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30 次. When mated up to 30 cycles repeatedly by the rate of 10 cycles per minute.	接触阻抗 Contact Resistance	25 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 30 ° Ma rise	
	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
5-3-3			接触阻抗 Contact Resistance	25 milliohms Max.
			瞬断 Discontinuity	1 micro- second Max.
		在 X.Y.Z 上 6 个方向上,以 490m/s <sup>2</sup> (50g 的	外观 Appearance	无异状 No Damage
5-3-4	耐冲击性 Shock	力量)冲击下各 3 回.490m/s <sup>2</sup> {50G}, 3	接触阻抗 Contact	25 milliohms Max.
	211221	strokes in each X.Y.Z. axes.	Resistance	1 1 2 1 1 1
		(Based upon EIA-364-27B/MIL-STD-20		1 micro-
		Method 213B Cond.A)	Discontinuity	second Max.

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项 目			条 件	规	格
		Item ]	【Test Condition】	【Require	
		耐热性	85±2℃,96 hours.	外观 Appearance	无异状 No Damage
5-3-5		Heat Resistance	(Based upon MIL-STD-202 Method 108A Cond.A)	接触阻抗 Contact Resistance	25 milliohms Max.
				外观	无异状
		<del>_</del> 1 <del> </del>	25.15% 0C have	Appearance	No Damage
5-3	3-6		-25±5 ℃ ,96 hours. ( Based upon EIA-364-105)	接触阻抗 Contact Resistance	25 milliohms Max.
			温度: 40±2℃	外观 Appearance	无异状 No Damage
F .	. 7	耐湿性	湿度: 90~95%(RH) 持续时间: 96 hours Temperature: 40±2℃	接触阻抗 Contact Resistance	25 milliohms Max.
5-3-7	3-/	Humidity	Relative Humidity: 90~95% Duration: 96 hours	耐电压 Dielectric Strength	Must meet 5-1-3
			(Based upon EIA-364-31A/MIL-STD-202 Method 103B Cond.B)	绝缘阻抗 Insulation Resistance	500 Megohms Min.
		温度变化	从-55℃持续 30 分锺升至+85℃持续 30 分锺, 循环 5 次.	外观 Appearance	无异状 No Damage
5-3	3-8	Temperature Cycling	5 cycles of: a) -55 ℃ 30 minutes. b) +85 ℃ 30 minutes. (Based upon EIA-364-32B)	接触阻抗 Contact Resistance	25 milliohms Max.
			在温度 35±2℃,盐水浓度 5±1%下,盐水喷雾	外观	无异状
		盐水喷雾	24±1 小时. 24±1 hours exposure to a salt spray from	Appearance	No Damage
5-3	3-9	Salt Spray	the 5±1% solution at 35±2℃. (Based upon EIA-364-26A/MIL-STD-202 Method 101D Cond.B). 注:此项测试只针对先冲后镀端子	接触阻抗 Contact Resistance	25 milliohms Max.
	10	焊锡附着性	焊接时间: 3±0.5 秒. 焊接温度: 245±5℃.	6.11. w	浸渍面积需 95%以上 95% of
5-3	-10	Solder- ability	Soldering Time: 3±0.5second. Solder Temperature: 245±5 °C. (Based upon EIA-364-52)	Solder Wetting	immersed area must show no voids, pin holes.

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项 目 【Item】		条 件 【Test Condition】	规 【Require	格 ement】
		焊接时间: 3~5 秒.		
	焊锡耐热性 Solder- Resistance	焊接温度: 250+5/-5℃.	外观 Appearance	无异状 No Damage
5-3-11		3		
		Temperature:250+5/-5 $^{\circ}$ .		110 Damage
		(Based upon EIA-364-56A)		

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

PIN 数	初次插入力(最大值)	30 次拔出力(最小值)	PIN 数	初次插入力(最大值)	30 次拔出力(最小值)
No. of	First Insertion	30 <sup>th</sup> Withdrawal	No. of	First Insertion	30 <sup>th</sup> Withdrawal
CKT	(kgf Max.)	(kgf Min.)	CKT	(kgf Max.)	(kgf Min.)
Single	2.00	0.50	04	12.00	2.50

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