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Product Specification [产品规格书]:	Document No	PS-2008-03
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This specification is referred to the 2.00mm series wire to board connector

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Address: 72 Hengzeng Road, Zengtian Village, Chang' an Town, Dongguan cigy, Guangdong Province

E-Tel: 0769-81769816 传真: 0769-87089563 E-mail: gya1688@gdgya.com QQ: 316563782 诚信通: gya旗舰店 网站: www.gdgya.com

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【1.适用范围 Scope】

此种规格包括 2.00mm Pitch 2008 Series 连接器规格说明.

This Specification Covers the 2.00mm Pitch 2008 Series Connector Specification.

【2.規格与科号 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	2008T-PSN1	
响 7 / Terminal	2008TH-PSN1	The same of the sa
胶壳/Housing	2008H-XX-PT	
	2008WVS-XX-9TSWR	Section 1
针座/Wafer	2008WRS-XX-9TSWR	10000000
FI EE/ Walei	2008WVS-1xXX-9TNB05XRXXXQ	الملطولون.
	2008WRS-1xXX-9TNB05RRXXXQ	

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

規格內容		材 质	表面处理
Specific	ation	Materials	Disposal of Surface
端子/Terminal		磷铜(C5191)/Phosphor Bronze	Nickel Plated: 50u" Min Bright Tin Plated: 100u" Min
胶壳/Housing		PBT	UL 94V-0
	Base	PA9T	UL 94V-0
针座/Wafer	PIN	黄铜(C2680)/Brass	Nickel Plated: 50u" Min Matte Tin Plated: 100u" Min
	Solder tab	黄铜(C2680)/Brass	Nickel Plated: 50u" Min Matte Tin Plated: 100u" Min

(上述参数请以工程图为准/Please Refer to the Project drawing for the above Specification)

【4. 柳定等級 Ratings and applicable wires】

	项 目【Item】	规 格【Standard】			
4-1.	额定电压 Rated Voltage (Max.)	125V		TA C/D CI	
4-2.	额定电流 Rated Current (Max.)	3A			[AC/DC]
4-3.	使用温度范围 Ambient temperature Range	-40°C ~+105°C			
4-4.	适用线位 Applicable wire insulation	2008T-PSN1 (普通脚)	AWG#24~26 ((0.22~0.13mm²)	绝缘 Ø O.D:1.40mm(Max.)
	AWG(mm²)	2008TH-PSN1 (高脚)	AWG#20~22 (0	0.50~0.35mm²)	绝缘Ø O.D: 1.50mm(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: 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 500V 的交流电 1 分锺,检测连接器。 Mate connectors, apply 500V AC for 1 minute between adjacent terminal or ground. (Based upon EIA-364-20A / MIL-STD-202 Method 301)	外观无损伤,无打火花 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.

	項目	条件	規 格
	[Item]	【Test Condition】	[Requirement]
5-2-1	插拔力 Insertion & Withdraw Force	以每分锺 50±3mm 的速率插入和拔出. Insert and withdraw Connectors at the speed rate of 50±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 50±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 50±3mm/minute on the terminal assembled in the housing. Housing Wire Force: F	9.8N {1.0kgf} 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.	9.8N {1.0kgf} Max.
5-2-4	Pin 针保持力 Pin Retention Force	以每分 100mm 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 100mm/minute. PUSH	9.8N {1.0kgf} min.
5-2-5	Lock 保持力 Lock Retention Force	将 Housing 与 Wafer 匹配后,将 Housing 从 Wafer 内轴向拔出的力量,看其卡扣的承受力量A housing and a header shall be mated, Pulling load shall be applied them, the load to make them come off each other shall be measured Header Housing Force: F	29.4N {3.0kgf} min.

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Address: 72 Hengzeng Road,Zengtian Village,Chang'an Town,Dongguan cigy,Guangdong Province E-Tel: 0769-81769816 传真: 0769-87089563 E-mail: gya1688@gdgya.com QQ: 316563782 诚信通: gya 旗舰店 网站: www.gdgya.com

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	项 目 【Item】	条 件 【Test Condition】		規 【Requ	格 uirement】		
		固定铆线后的端子,使电线与端子分离时所需的最小力量。 Fix the crimped terminal, apply axial pull out	AWG 组号(mm²)		AWG# 22 (0.35mm ²)		AWG# 26 (0.13mm²)
5-2-6	利力及有28/文	force on the wire. (Do not crimp insulation part).	Spec.kgf. Min.	6.0	4.0	3.0	2.0
contact		Note> As for unspe		sizes in this	s specification	on define	

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

	項 目	条 件				
	[Item]	Test Condition	【Requ	rement]		
5-3-1	重复插拔 Repeated Insertion/ Withdrawal	以每分锤不超过 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	20 milliohms Max.		
5-3-2	温升测试 Temperature Rise	公母连接器配合后,加载额定电流直到温度上升到稳定 状态,然后再测量温升(ELA364-70,Method 1) Mating connectors shall be energized at rating current until thermal stability is achieved, and then measured the termperature rise. (ELA364-70,Method 1)	温升测试 Temperature rise	30°C Max.		
		振幅: 1.5mm P-P	外观 Appearance	无异状 No Damage		
5-3-3	振动测试	时间: 20~200~20 H _z in 3minute 持续时间: 每轴向 3 小时 加速度: 44m/S ² 振动测试 开放电压: 20mV 以下	接触阻抗 Contact Resistance	20 milliohms Max.		
	Vibration test	开放电流: 10mA 以下 Amplitude: 1.5mm P-P Sweep time: 20~200~20 H _z in 3 minute Duration: 3 hours in each X.Y.Z axials. (Based upon	瞬断 Discontinuity	1 micro- second Max.		
		EIA-364-28B/MIL-STD-202 Method 213B Cond.A)	电压降落 Voltage Drop	20mV/A Max		
		在 X.Y.Z 上 6 个方向上,以 981m/s ² (100G 的力量)冲击下		无异状 No Damage		
5-3-4	Shock test Ope (Ba:	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	接触阻抗 Contact Resistance	20 milliohms Max.		
			瞬断 Discontinuity	1 micro- second Max.		

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项 目 【Item】		条 件 【Test Condition】	規 【Requ	规 格 【Requirement】	
5-3-5	耐热性 Heat Resistance	105±2°C,96 hours. (Based upon MIL-STD-202 Method 108A Cond.A)	外观 Appearance 接触阻抗 Contact Resistance	无异状 No Damage 20 milliohms Max.	
5-3-6	耐寒性 Cold Resistance	-40±3℃,96 hours. (Based upon EIA-364-105)	外观 Appearance 接触阻抗 Contact Resistance	无异状 No Damage 20 milliohms Max.	
5-3-7	耐湿性 Humidity	温度: 60±2℃ 湿度: 90~95%(RH) 持续时间: 96 hours Temperature: 60±2℃ Relative Humidity: 90~95% Duration: 96 hours	外观 Appearance 接触阻抗 Contact Resistance 耐电压 Dielectric Strength	无异状 No Damage 20 milliohms Max. Must meet 5-1-3	
	Cond.B) 从-40℃持续 30 分锤升至+105℃持续	(Based upon EIA-364-31A/MIL-STD-202 Method 103B Cond.B) 从-40℃持续 30 分锤升至+105℃持续 30 分锤,循环 5 次.	绝缘阻抗 Insulation Resistance 外观 Appearance	100 Megohms Min. 无异状 No Damage	
5-3-8	温度变化 Temperature Cycling	5 cycles of: a) -40 °C 30 minutes. b) +105 °C 30 minutes. (Based upon EIA-364-32B)	接触阻抗 Contact Resistance	20 milliohms Max.	
5-3-9	盐水喷雾 Salt Spray	在温度 35±2℃,盐水浓度 5±1%下,盐水喷雾 48±4 小时. 48±4 hours exposure to a salt spray from the 5±1% solution at 35±2℃. (Based upon EIA-364-26A/MIL-STD-202 Method 101D Cond.B).	接触阻抗	无异状 No Damage 20 milliohms Max.	
5-3-10	焊锡附着性 Solder- ability	焊接时间: 3~5 秒. 焊接温度: 245±5℃. Soldering time: 3~5sec solder. Temperature: 245±5℃.	Solder Wetting	浸渍面积需 95% 以上 95% of immersed area must show no voids, pin holes.	

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		5-3-1	焊锡耐热性 1 Resistance to Soldering Heat	焊接时间: 5~10 秒. 焊接温度: 255+5/-5℃. Soldering time:5~10 sec solder. Temperature:255+5/-5℃. (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 次拔出力(最小值) 30 th Withdrawal (kgf Min.)
Single	/	/	09	9.2	0.55
02	3.6	0.10	10	10.0	0.60
03	4.4	0.20	11	10.8	0.65
04	5.2	0.30	12	11.6	0.70
05	6.0	0.35	13	12.4	0.75
06	6.8	0.40	14	13.2	0.80
07	7.6	0.45	15	14.0	0.85
08	8.4	0.50			

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

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