

Product Specification [产品规格书]:	ISSUED BY:	Engineering Dept
Subject [主题]:	Date Issued	2019/04/09
5.70mm Pitch5700 Series Connector Specification	Date Revised	

This specification is referred to the 5.70mm series wire to board connector

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【1.适用范围 Scope】

此种规格包括 5.70mm Pitch 5700 Series 连接器规格说明.

This Specification Covers the 5.70mm Pitch 5700 Series Connector Specification.

【2.规格与料号 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	5700T-HXXX	NONE
胶壳/Housing	5700HM-2*XX-XXXX	NONE
针座/Wafer	5700WV-2*XXXX-XXXX 5700WR-2*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		High conductivity copper	Tin Plated: Over $100\mu''$.Nickel: Over $20\mu''$. Au Plated: $15\mu''$.Nickel: Over $20\mu''$
胶壳/Housing		PA66	UL 94V-2/UL94V-0
左 Dit ///Jafor	Base	LCP	UL94V-0
针座 /Wafe r	PIN	High conductivity copper	Over Tin 100µ″ 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.)	600V	[AC/DC]	
额定电流 Rated Current (Max.)	10A	[AC/DC]	
使用温度范围 Ambient temperature Range	ange -25℃~+85℃		
适用线径 Applicable wire insulation O.D	AWG 12#~18# Insulation O.D.4.0mm(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: 2 milliohms Max. After Test: 10 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2200V的交流电1分锺,检测连接器. Mate connectors, apply 2200V 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 条 件 规 格					
	[Item]	Test Condition	(Requirement)		
5-2-1	插拔力	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.	A WAY CIT		
	Insertion & Retention Force	PULL	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.	29.4N {3.0kgf} 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 内轴向推出的力量. Apply axial push force at the speed rate of 25.4±3mm/minute.	9.8N {1.0kgf} min.		



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	项 目	条件		规	格	
[Item]		[Test Condition]		Requir	ement	:]
		固定铆线后的端子,使电线与端子分离时所	AWG#	#12	#14	#16
E 2 E	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.	31.8	22.7	13.6
S-2-5 (Crimpe	(Crimped connections)	Contact, Wire		Note> As for unspecified wire sizes in this specification define values with clients		
5-2-6	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	68	BN {7.0	kgf} mi	n.
		Force: F				

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

	项 目 【 Item】	条 件 【Test Condition】	规 格 【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	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℃ 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	20 milliohms Max.
		(Based upon EIA-364-28B/MIL-STD-202 Method 213B Cond.A)	瞬断 Discontinuity	1 micro- second Max.

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	项 目 【Item】	条 件 【Test Condition】	规 【Requir	格 ement】
			かり、対応	无异状
		在 X.Y.Z 上 6 个方向上,以 490m/s ² (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.
			外观	无异状
	71.45 bi	85±2°C,96 hours.	Appearance	No Damage
5-3-5 耐热性 Heat Resistance	(Paged upon MIL CTD 202 Method 100A	接触阻抗 Contact Resistance	20 milliohms Max.	
			外观	无异状
	社宝州	35 L 59C 06 hours	Appearance	No Damage
5-3-6 耐寒性 Cold Resistance		-25±5°C,96 hours. (Based upon EIA-364-105)	接触阻抗 Contact Resistance	20 milliohms Max.
		温度: 40±2°C 湿度: 90~95%(RH) 持续时间: 96 hours 耐湿性 Temperature: 40±2°C Humidity 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
5-3-7			接触阻抗 Contact Resistance	20 milliohms Max.
	Humidity		耐电压 Dielectric Strength	Must meet 5-1-3
			绝缘阻抗 Insulation Resistance	500 Megohms Min.
		从-55℃持续30分锺升至+85℃持续30分 温度变化 锺,循环5次.	外观 Appearance	无异状 No Damage
5-3-8		5 cycles of: a) -55°C 30 minutes. b) +85°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 24±1 小时. 24±1 hours exposure to a salt spray from	外观 Appearance	无异状 No Damage



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	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	20 milliohms Max.



东莞市思量连接器有限公司 Dong guan ADZL Connectors Co.,ltd

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	700 Series Connector Specification	Date Revised	

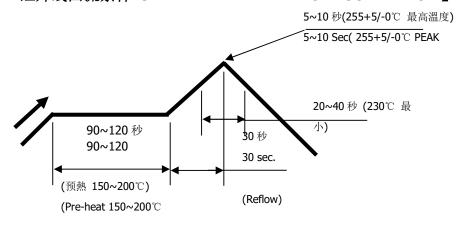
项 目 【Item】		77		规 格 【Requirement】	
5-3-10	焊锡附着性 Solder- ability	焊接时间: 3±0.5 秒. 焊接温度: 245±5°C. Soldering Time: 3±0.5second. Solder Temperature: 245±5°C. (Based upon EIA-364-52)	Solder Wetting	浸渍面积需 95%以上 95% of immersed area must show no voids, pin holes.	
5-3-11	焊锡耐热性 Solder- Resistance	焊接时间: 3~5 秒. 焊接温度: 255+5/-5°C. Soldering time:3~5 sec solder. Temperature:255+5/-5°C. (Based upon EIA-364-56A)	外观 Appearance	无异状 No Damage	

【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(最大值) 30 th Withdrawal (kgf Max.)	PIN 数 No. of CKT	初次插入力(最大值) First Insertion (kgf Max.)	30 次拔出力(最大值) 30 th Withdrawal (kgf Max.)
2*01	1.4	1.4	2*04	5.6	5.6
2*02	2.8	2.8	2*05	7.0	7.0
2*03	4.2	4.2	2*06	8.4	8.4

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

【7. 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.

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