

文件名称 System Name:	产品品名 Description:	文件:	编号 Docu	ment N	lo.:
Book at an arithmetical		PS-0093			
Product specification	0.8Pitch 0.6H FTB CONNECTOR	Page	1 OF 9	Rev.	Α

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**** Revised history *****

ECN NO.	Revised Page	Remark
	Initial Release	
	ECN NO.	



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1. 概述 Scope:

1.1 说明 Content

此份产品规格书是针对由昆山嘉华电子有限公司设计和制造的 0.8Pitch 0.6H FTB CONNECTOR 产品所定义的产品性能和测试方法。

This product specification defines the product performance and the test methods to ensure the performance of the **0.8Pitch 0.6H FTB CONNECTOR**, which is designed and manufactured by Kunshan Jiahua Electronics Co., Ltd.

1.2 限制 Qualification

所有的测试和检验必须依照本文件中所要求的规格、方法进行。一旦产品的重要制程发生 变更,必须立即进行品质验证和测试。

Tests and inspection shall be performed in accordance with the requirements, tests and methods contained herein. A re-qualification test shall be conducted immediately following all major process changes.

2. 参考文件 Referenced Documents:

EIA-364

MIL-STD-202F

MIL-P-81728A

MIL-T-10727B

JIS C 0040

JIS C 0041

若某些项目被发现本规格书中的内容与以上参考文件要求不一致时,一律依本规格书中的内容为测试依据。

In case of any contradiction between this document and referenced documents, this document will take precedence.

保管单位:产品工程 保存期限:该产品停产后1日历年 文件编号:QP-07-04/09A



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3. 规格要求 Requirements:

3.1 应用条件 Application Condition:

3.1.1 额定电流: 4.0Amps per Power contact,1.0Amp per Signal contact CURRENT RATING: 4.0Amps per Power contact,1.0Amp per Signal contact

3.1.2 额定电压: 30 Volt DC/AC.

VOLTAGE RATING: 30 Volt DC/AC

3.1.3 使用环境 Operating Environment:

温度: -25°C to +85°C。

Temperature:-25°C to +85°C.

3.1.4 储存环境 Storage Environment:

温度: -40°C to +85°C,相对湿度:15%~70%或更低,此条件下功能不可失效。

Temperature:-40°C to +85°C, Relative Humidity: 15%~70% or Less, Without loss of function.

3.2 绿色环保要求 Health, Safety and Environment

此产品中所有涉及环保有关的有害物质管控标准请参考嘉华系统文件:JH-GP-213

Hazardous substances (Environment related to be controlled substances) contained in this product should comply with the regulations specified by FAF's **JH-GP-213**.

3.3 测试说明 Test Description

此产品性能须满足本文件第 4 节中的各项规格要求。除非有特别申明,所有的测试和量测必须在以下条件中进行:

The product is designed to meet the requirements specified in section 3.4. Unless otherwise specified, all tests and measurements are to be performed under the following conditions:

温度 Temperature: 5 ℃to 35℃

相对湿度 Relative Humidity: 45% to 85%

大气压 Atmospheric Pressure: 86kPa~106kPa.

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4.测试规范和方法 Test Requirements and Methods

项目 Items	规格要求 Requirements	测试方法 Test Methods
4.1 产品外观和尺寸检查	所有零件必须组装完好,不能出现毛边,变 形,刮伤,以及任何外观破坏等异常;	依照相应的文件和规格书进行外观,功能, 及尺寸的检验量测.
Appearance	All components shall be properly assembled and free of burrs, warps, scratches, broken chips, and other abnormalities	Visual, functional, and dimensional inspection complies with applicable specification and document.
4.2 电气 性能 Electric	al Performance :	
4.2.1 接触阻抗 Low level contact resistance	试验后接触阻抗: 40m Ω Max(Power	测量接触阻抗,测试电流小于 10mA Measure contact resistance of product and test card PCB with less than current of 10 mA (exception for the conductor resistance)
4.2.2 绝缘阻抗 Insulation resistance	初始绝缘阻抗: 1000 MΩ Min 试验后绝缘阻抗: 1000 MΩ Min Initial:1000 MΩ Min After test:1000 MΩ Min	测试电压: 直流 200V,测试时间: 2分钟,测试相邻两端子之间的绝缘阻抗 Give DC 200V Voltage for 2 minutes and then measure insulation resistance of contact and contact
4.2.3 耐电压 Dielectric withstanding voltage	产品既无电火花也无气体产生 漏电流最大 2mA After the test, Neither creeping discharge nor flashover shall occur. Leakage current 2 mA Max	两相邻端子之间加载交流 500V 电压 1 分钟;温度冲击和恒温恒湿后为交流 300V Give AC 500 V in near contact and insulator for 1 minute After tests:300V AC(Thermal shock& Humidity)
4.2.4 温度上升 Temperature rise	额定电流状态下,使用热电偶方式测量,只串联电源 Pin The power source terminal shall be connected in a direct series.The temperature rise shall be measured by thermocouple when the temperature of terminal reaches to rated current with resistive load.	温度上升 30K Max. Temperature rise:30K Max.

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4.3.1		产品焊板后,测量 Plug 端的插拔力,测证
插拔力	1.Plug 端插入力: 40N Max.	速度: 1~5mm/sec
Insertion force&	2. Plug 端拔出力: 3NMin .	测试时 plug 端须以插入轴向上下插拔
Withdrawal force	Z. Flug Analy III / J. Statemin.	
TTRIBICATION OF	1. Plug Mating force: 40N Max	After Soldering of testing product at PCB Measure insertion and withdrawal force
	2. Plug withdrawal force : 3N Min	of Plug at 1~5mm/sec to mating axis
	2. Plug withdrawar lorce : 3N Mill	of Flug at 1~5mm/sec to mating axis
4.3.2	1. 试验后接触阻抗: 40mΩMax;	产品焊板后,重复插拔 Plug 端,耐久 10
耐久	2.产品无断裂、无破损;	次;
	3. 拔出力: 3N Min;	
Durability	3.1火田/J: 5N WIII,	After Soldering of testing product at PCE
,	1.Aftertesting,contact resistance :	Repeat insert/ withdrawal of plug as
	20mΩMax;	10 cycle;
	2.No have fracture, crack, terminal	
	contact point deflection and shake of	
	product	
	3.Withdrawal force:3N Min;	
4.3.3	1. 试验后接触阻抗: 20mΩMax;	产品焊板后测试,
振动	2.没有物理损坏,端子无变形	测试频率: 10-55-10HZ,
***	3. 不产生超过 1 微秒的瞬断	振幅: 1.52mm,X,Y,Z 三个方向每个方向
Vibration	1.After testing, contact resistance :	振动两个小时,(sweep time:30s)
	$20 \text{m}\Omega$ Max;	After attach at vibration plate and
	2.No have fracture, crack, terminal	Soldering at test PCB, it test follow
	contact point shake of product	conditions :
	3. No electrical discontinuity longer than	
	1 u sec.	10HZ,amplitude1.52mm,it test for two
	1 4 500.	hours about each of X,Y,Z, axis(sweep
		time:30s)
4.3.4	不产生超过 0.1 微秒的瞬断, 产品没有物	参考测试标准: EIA-364-27.
物理冲击	理破坏以及零件脱落,端子接触阻抗满足	波形:半正弦波; 加速度: 50G,
初生打山	规格要求.	沿 X,Y,X 三个方向进行, 每个方向完成正反
Physical shock		各 3 次冲击(总计 18 次冲击)
Tryologi orlook		
		Comply with method EIA-364-27B,
	No electrical discontinuity longer than	Shock Waveform: Half sine-wave,
	0.1 microsecond. No mechanical	Acceleration: 50G, Total impacts delivered
	damage or looseness.Contact	3. each along X. Y. and Z axes.(Total:18
	resistance specifications remain	impacts)
	satisfied.	
	1	

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项目 Items	规格要求 Requirements	测试方法 Test Methods
4.4 环境 性能 Environn	nental Performance :	
4.4.1 耐高温 High temperature	1 产品无损坏,端子无变形 2.试验后接触阻抗: 40mΩMax;	配合后的产品在以下条件下测试: 温度: 85±2°C 时间: 96h
	1.No have fracture crack ,terminal contact point deflection and shake of product 2.After testing contact resistance: 20mΩMax;	Mated connectors shall be subjected to the following condition: temperature: 85±2°C Duration: 96h
4.4.2 耐低温 Low temperature	1 产品无损坏,端子无变形 2.试验后接触阻抗: 40mΩMax;	配合后的产品在以下条件下测试: 温度: -40±3°C 时间: 96h
	1.No have fracture crack ,terminal contact point deflection and shake of product 2.After testing contact resistance: 40mΩMax;	Mated connectors shall be subjected to the following condition: temperature: -40±3°C Duration: 96h
4.4.3 耐硫化性 Resistance to sulfuration	 试验后接触阻抗: 40mΩMax; 无外观异常 1.After testing contact resistance: 40mΩMax; 2.Without distinct damage i appearance 	配合后的产品在以下条件下测试: 浓度: 10±3ppm 温度: 40±2°C 相对湿度: 70±5% 时间: 96h Mated connectors shall be subjected to the following condition: Concentration: 10±3ppm Temperature: 40±2°C Relative humidity: 70±5% Period: 96 hours
4.4.4	1	参考测试标准: EIA-364-32;
热冲击 Thermal shock	测试后满足相应机械及电气规格; 测试后接触阻抗: 40mΩMax;	多考例以标准: EIA-304-32, -55℃和+85℃各 30 分钟,总计 25 个循环.
	After test: 40mΩMax;	Comply with method EIA-364-32. -55°C for 30 minutes and +85°C for 30 minutes for 25 cycles.

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4 4 5	1 产具无损坏 牌之无恋形	配合自的产具左凹下及供下测量。		
4.4.5 恒温恒湿 Humidity	 产品无损坏,端子无变形 试验后接触阻抗: 40mΩMax; 试验后绝缘阻抗: 1000MΩMin. 试验后耐电压: 无损坏 No have fracture crack, terminal contact point deflection and shake of product After testing contact resistance: 40mΩMax; After testing insulation resistance: more than 1000 MΩ After testing Dielectric withstanding voltage: Without damage 	配合后的产品在以下条件下测试: 温度: 60±3°C; 相对湿度: 90~95% 时间: 96 hours Mated connectors shall be subjected to the following condition: Temperature: 60±3°C Relative humidity: 90 to 95% Period: 96 hours		
4.4.6 盐雾测试 Salt Spray Test	1.产品无损坏,端子无变形 2. 试验后接触阻抗:40mΩMax; 1. No have fracture crack ,terminal contact point deflection and shake of product 2. After testing contact resistance: 40mΩMax;	盐水浓度: 5±1% 时间: 48小时 温度: 35±2°C Mated connector shall be subjected to the following condition Concentration: 5±1% Spray time: 48hours Temperature: 35±2°C		
4.4.7 耐 Reflow 高温 Resistance to Reflow Soldering Heat	1.无损坏,端子无变形; 2.产品结构无破坏; 1.No have fracture crack ,terminal contact point deflection and shake of product 2.No have break down outer feature/structure	根据下图温度条件测试产品的耐焊接热 The connector shall be tested resistance to soldering heat in the following conditions, The temperature shall be measured on the surface of PCB 260°C 4 1-3 150°C		
4.4.8 吃锡性测试 Solder ability	焊脚吃锡面积 95%以上	温度: 245℃±5℃ 粘锡时间: 3±0.5 秒		
	More than 95% of area dipped in molten solder should be coated by solder	Solder Temperature : $245 ^{\circ}\text{C} \pm 5 ^{\circ}\text{C}$ Immersion Duration : 3 ± 0.5 seconds		

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Test, Measurement or Examination	Α	В	С	D	Е	F	G	Н	ı	J	K
	Sample size	Sample size	Sample size	Sample size	Sample size	Sample size	Sample size	Sample size	Sample size	Sample size	Sampl
	5	5	5	5	5	5	5	5	5	5	5
1. Visual examination 产品外观	1 ,9	1,7	1 ,6	1,3	1,7	1,7	1,5	1,5	1,7	1,3	1,3
2. Low Level Contact Resistance 低功率接触阻抗	2,6	2,6	2,5		2,5	2,5	2,4	2,4	2,5		
3. Insulation Resistance 绝缘阻抗	3,7				3,6	3,6			3,6		
4. Dielectric Withstanding Voltage 耐电压	4,8										
5. Temperature rise 温度上升				2							
6. Mating and Unmating Force 插拔力		3,5									
7. Durability 耐久插拔		4									
8. Vibration 振动			3								
9. Mechanical Shock 机械冲击			4								
10. Cold Resistance 低温测试					4						
11. Temperature life 温度寿命						4					
12. Resistance to sulfuration 耐硫化性							3				
13. Thermal shock 温度冲击								3			
14. Humidity 耐湿性能	5										
15. Salt Spray 盐雾实验									4		
16.Resistance to Reflow Soldering Heat Reflow 耐高温										2	
17. Solder-ability 可焊性											2

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