

## 1 适用范围 Scope:

此作业规范适用于: 0.5 PITCH FPC CONN. ZIF R/A SMT H=2.0 掀盖式

This product specifications is applied for: 0.5 PITCH FPC CONN. ZIF R/A SMT H=2.0  $\,$ 

与 FPC/FFC 连接方式 Connected to the FPC/FFC : ZIF;

FPC/FFC 适合厚度 FPC/FFC is suitable for thickness : 0.30±0.03mm

2 关联规格 Related specifications:

EIA-364:电子连接器及接插件测试程序 Electronic connectors and connector test procedure

UL STD-94:关于塑材设备零配件及器材阻燃性测试规范 On the plastic material and equipment spare parts and equipment flame retardancy test specification.

3 构造 尺寸 材料 Configurations dimensions and materials :

#### 参见结构图 Reference the drawing。

序号 No.	部 位 Position	原材料供应商 material suppliers	材料名/Type名 Materials	防火等级 FLAME CLASS	UL 编号 FILE NO.
1	主体 (HOUSING)	宝理 POLYPLASTICS CO., LTD	LCP Liquid crystal polymer	V-0	E106764
2	推杆 (ACTUATOR)	可乐丽 KURARAY CO., LTD	PA9T Polyamide 9T	V-0	E90350

#### 4标准状态 Rating

4.1 额定电压 Rating voltage: AC/DC 50V

4.2 额定电流 Rating current:0.5A

4.3 温湿度范围 Temperature and humidity range

- 4.3.1 使用温度范围 operation temperature: -40℃<sup>~</sup>+105℃;
- 4.3.2 储存温度范围 storage temperature: -40℃<sup>~</sup>+105℃;
- 4.3.3 开封使用温度范围 Kaifeng temperature range: +5℃~+35℃;
  - 开封使用湿度 Kaifeng Humidity 60%RH MAX.;

4.3.4 保存湿度范围: 相对湿度 45~80%RH; Keep humidity range:Relative humidity45~80%RH;

#### 5 性能 Performance

5.1 构造 Struction

序号 NO.	项目Item	测试方法 Test conditions	规格要求 Specifications
1	外观 Appearance	目视 Visual	无损坏No physical damage

### 5.2 电气性能 Electrical performances

序号 NO.	项目Item	测试方法 Test conditions	规格要求 Specifications
1	接触阻抗 Contact Resistance		30mΩ 最大 30mΩ Max.
2	绝缘阻抗 Insulation Resistance	相邻端子间 DC 500V,1分钟。 It shall be measured by 500V DC Voltage while it applied to between next terminals.	500 MΩ最小 500MΩ Min.
3	耐压测试 Dielectric withstanding voltage	相邻端子间 AC 500V,感应电流 2mA,1 分钟。 AC 500V shall be applied for one minute to between next terminals	无击穿,无短路。 No Breakdown.
4	温度上升 temperature rise	端子在额定电压、电流下工作时测量端子上升的温度。 When operating at rated voltage, current, temperature rise measuring terminals.	30℃ 最大 30℃ Max.

This product does not contain banned substances from the environment using SS-00259 and RoHS

Product specification		Part name	0.5 PITCH FPC CONN. ZIF R/A SMT H=2.0		SMT H=2.0
Amphenol Aorora Technology (Huizhou) Co.,Ltd		Part number	F300-1B7H1-110** F300-1B7H1-110**-E100 F305-1*7H1-110**-E*00 F301-1B7H1-110**-E*00		1/7
Document number IS.EQC.083	Date: 2018/12/28	REV: E	Make: May	Check: Rain	Approve: Hongkui.Liu



序号 NO.	项 目 Item	测试方法 Test o	conditions		规格要求 Spec	ifications
1	FFC/FPC 保持力 FFC/FPC retention	FFC/FPC(标配厚度 0.30mm) 插入 FPC 连接产品后,压合掀盖,打开 掀盖,此动作重复三次; 第四次合盖后以 25~100mm/分均速水平 拔出,此次作为测量资料的记录.(无耳扣 FFC/FPC 测试) FFC/FPC(T=0.30MM) insert FPC connector products, after pressing lift cover, opens the cover, repeat this three times this action; Fourth or cover with 25 to 100 mm/points after average vertical pull out, as the measurement data record.			30gf/pin Min.	
2		将端子 25 <sup>~</sup> 100mm/分匀速垂直从胶石 Are 25 to 100 mm/min uniform ve core slot		m rubber	100gf/terminal	Min.
3	固定片保持力 Fixed retention	将固定片 25~100mm/分匀速垂直从展 Will be fixed at a constant spee uproot from rubber core slot	交芯槽内拔出 d 25 to 100 mm/min	vertical	100gf/terminal	Min.
	(Don t put leather line after high temperature)	皮线) cover兰体内不插入FFC(反线), 测孤盖压下力, 孤盖拉起力, 此动作重 复三次后, 第四次才作测量数据的记录.within the body is not inserted into the FFC (skin), lift the lid pressure dint, lift the lid pull force, the action after repeated three times, for the fourth time to make record of measurement data.线) er将 FFC 线插入主体, 掀盖压下力, 掀盖拉起力, 此动作重复三次 后, 第四次才作测量数据的记录.水 lift the lid pull force and the main body, lift cover pressure dint, lift the lid pull force and the action after repeated three times, for the fourth time to make record of measurement			掀盖压下力:500g Lift the cover 500gf Max. 掀盖拔出力:40gf Lift the cover 40gf Min.	pressure din Min.
4	掀盖动作力 (高温后装皮线) Lift the cover action force After high temperature leather line				掀盖压下力 Li pressure dint:1 掀盖拔出力 Li pressure dint:	500g/f Max. ft the cove
5	耐久插拔性 durability	以下动作进行 30 次巡回: FPC 插入、SLIDER 插入、SLIDER 拔 Thirty times tour the followin FPC insert, insert the SLIDER p FPC Pull out	g actions:	SLIDER.	接触阻抗 Contact 50mΩ Max . 端子无变形,无裂 No abnormal app	痕
	This product does	s not contain banned substances	from the environ	ment usin	g SS-00259 and	RoHS
	Product s	pecification	Part Name	).5 PITCH	FPC CONN. ZIF	R/A SMT H=2.
Amp	henol Aorora Tech	nology (Huizhou) Co.,Ltd	Part Number	F305-1*71	H1-110** H1-110**-E100 H1-110**-E*00 H1-110**-E*00	2/7
		Date: 2018/12/28		Make:	Check:	Approve:



	性能 Environmental pe	rformance			1		
序 N		测试方法:	Cest conditions	5	规格要求 Speci	fications	
	耐振性 U Vibration	端子以电流 0.1A D.C H 10-55-10Hz,X,Y,Z方向各 2 the entire frequency rang to 10Hz shall be travers This motion shall be app mutually perpendicular d Amplitude: 1.50mm Max.	2.小时,共6小时 ge, from 10 to 5 ed in approxim lied for 2 hou	∱。 55 Hz and return ately 1 minute. rs in each of 3	1. 接触阻抗 Conta Resistance : 50 2. 不连续导通 1 μ 观无异常。	mΩ Max. s以内;外	
2	2 耐冲击性 Impact resistance	端子以电流 0.1A D.C 串联 向各 11ms, 各 3 回,共 18 Terminal to 0 1mA DC curr	回。 rent series pas rions for three	s, acceleration	Discontinuous conductior within 1μ No abnormal appearance		
č	3 耐寒性 Cold resistance	温度-40±3℃中放置时间 9 Placed in a temperature time 96H.	6Н.	°C environment			
4	耐热性 Heat resistance	温度 105±2℃中放置时间 9 Placed in a temperature time 96H.	of 105 ℃ ± 2				
Ę	5 耐湿性 Humidity	温度 40±3℃; 湿度 90 <sup>~</sup> 95% The specimens shall be pla to a relative humidity of of 40±3℃ for 96 hours	aced in a chambe f 90% to 95% an	er and subjected			
6	5 盐雾试验 Salt spray test	温度 35±2℃; 盐水比重 55 A: 镀金 48h B: 镀锡 24h 0 The specimens shall be s water spray (concentration 35±2℃ for 48 hours	接触阻抗 Contact				
7	7 7 Thermal Shock	-55±3℃; 85±2℃的温度 <sup></sup> 环。 It shall be subjected to condition 1: -55℃ 30 分钟 2: +85℃ 30 分钟			绝缘阻抗 Insulation Resistance:500 MO M		
5	耐湿性 (温湿度循环) Humidity	依照下面曲线完成 5 次循环 According to the followin test.	g curve to comp:	lete five cycles			
	This product does n	ot contain banned substa	nces from the d	environment usi	ng SS-00259 and	RoHS	
	Product speci		Part name		CONN. ZIF R/A S		
			Part number	F300-1B7H1-1 F300-1B7H1-1	10**-E100	3/7	
mphe	enol Aorora Technolo		Tart Humber	F305-1*7H1-11 F301-1B7H1-11		5/1	



环境	不境性能 Environmental performance							
9	沾锡性 Solderability	沾锡温度 245±5℃ (Sn: Lead Free); 时间 3±0.5s Subject connector lead to solder at 245°C ± 5°C for 3 ± 0.5 seconds	吃锡饱满, 在 95%以上。 More than 95% of the solderable area shall be covered with solder.					
10	焊锡耐热性 Resistance to Soldering heat	烙铁温度 350±10℃ (Sn: Lead Free); 时间 10+1/-0s Iron temperature350±10℃ (Sn: Lead Free), time: 10+1/-0s	锡脚与固定片平 整度 0.10mm Max. 外观无异常,					
11	耐热性 Reflow Resistance to Soldering heat	预备加热时间 Pre-heating time: 170℃~190℃ 60~180s。 焊锡温度时间 Soldering Temperature Time: 260℃ 10sMAX。	Product-feet and the ground sheet flatness 0.10mm Max. No evidence of defect o surface.					
	耐硫化性 (镀金品) Sulfidation resistance	依照技术标准 SS-00126-12 三种混合 GAS 腐蚀试验。 In accordance with the technical standards SS-00126-12 DPT GAS corrosion test.	接触阻抗 Contact Resistance:50mΩ Max. 触点附近无明显腐蚀。 Nearby contact no significant corrosion					
13	耐溶剂 Solvent	将产品放入异丙基酒精容器中 90 秒后取出 。 Product into the isopropyl alcohol container removed after 90 seconds.	满足电气性能 Satisfy electrical performance, 外观无异常。 No evidence of defect o surface.					

6. 包装 Package

参见捆包图 See the drawing



This product does not contain banned substances from the environment using SS-00259 and RoHS					
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Amphenol Aorora Technology	Part number	F300-1B7H1-1 F300-1B7H1-1 F305-1*7H1-1 F301-1B7H1-1	10**-E100 10**-E*00	4/7	
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# 7 修改内容 Modifications

版本 Rev.	改正日期 Modify date	改正内容 Modifications	Make	Check
A	2015/11/12	NEW	yebing	Han Qi
В	2016/10/17	修正接触电阻参数,焊锡温度条件。 Modify contact resistance parameters, Soldering temperature condition	May	Han qi
С	2017/01/04	增加贴麦拉规格 Increase the specifications	May	Han qi
D	2017/07/05	新增"L"型固定片规格 Increase L-type fixer specifications	May	Han qi
E	2018/12/28	新增F301规格 Increase F301 specifications	May	Han qi

#### Reflow Condition:

Profile Feature	lead-free Eutectic Assembly
温度上升 Ramp up Rate(TSmax to Tp)	:1~4°C/S
. Pre-heat	
Ts MIN.	:170°C MIN
Ts MAX.	:190°C MAX
Time(Ts MIN. TO Ts MAX.)	:60~180S
T 1	
温度 (temperature)	:225°C MIN
时间 (time)	:60~150S
T p(Peak)	
温度 (temperature)	:260°C MAX(255°C MIN.)
时间 (time)	:10S MAX



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