

符合性声明
Certificate of Compliance

客户名称 Customer Name	广东大普通信技术有限公司	景旺料号 Kinwong P/N	P3684NLI02122950A
客户料号 Customer P/N	PYO2522018	周期 Date Code	1940
订单号P/O	M12 201909051	出货数量 Quantity(PCS)	7188
产品描述 Part description	PYO2522018	板材类型 Laminate Type	FR-4 SY S1000-2M TG>=170°C
客户产品编码 Customer PartNumber			

谨以此证明书作为保证,此批产品之制造过程均合乎客户所有规格要求,包括以下项目。

This certificate is to serve as proof that all requirements of customer's specification are maintained in fabrication of this lot including the followings:

对于非RoHS产品,须满足项目一,对于RoHS产品,须同时满足项目一及项目二,对于无卤产品,须同时满足项目一及项目三。
For Non-RoHS products, only need to meet item 1; for RoHS products, should meet item 1 and item 2; for halogen-free products, should meet item 1 and item 3.

■ 一、符合贵司零件规格要求 Accord with the SPEC of the component

1、所有交货板必须与采购标准和图纸一致。

All PCBs shipped comply with purchasing specifications and/or drawings.

2、所有产品满足最新版本的 IPC2 级标准,除非图纸或资料有特殊说明。

Unless otherwise specified in the fabrication drawings and/or materials supplied, the minimum acceptability requirements for the manufacturing of PCB are the latest version of IPC standard Class 2

3、所有成品板100%电测试合格。

All finished boards have been 100% electrically tested and passed.

■ 二、符合RoHS要求 Accord with the requirement of the RoHS

所有交货板符合法规欧盟2015/863/EU号指令《关于在电子电气设备中限制使用某些有害物质指令》及后续修正的要求。

All PCB we shipped are comply with the requests of Directive 2015/863/EU of the European Parliament and of the Council on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment RoHS directive.

□ 三、符合无卤要求 Accord with the requirement of the halogen free.

批准 Approved By: 杨雄

(Quality Manager)

日期 Date: 2019-10-04



Steven Yang



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出货检验报告
Final Inspection Report

客户名称Customer Name		广东大普通信技术有限公司	景旺料号Kinwong P/N	P3684NLI02122950A	
客户料号Customer P/N		PYO2522018	周期Data Code	1940	
出货数量Shipping Qty.		7188PCS	抽检数量Sampling Qty.	86PCS	
检验项目Item		检验方法Inspection Method	规格Specification	实际Actual	判断Judgement
1	外观检验Appearance Inspection	Cust. Spec.& IPC-A-600 latest version	No Visual defects	No Visual defects	ACC
2	板材类型Laminate Type	Visual	FR-4 SY S1000-2M TG>=170℃	FR-4 SY S1000-2M TG>=170℃	ACC
3	成品板厚Finished Board Thickness(mm)	Micrometer	0.650+0.100/-0.100	0.620-0.650	ACC
4	翘曲度Bow & Twist(%)	IPC-TM-650 section 2.4.22	≤0.75	Max.0.20	ACC
5	最小线宽Min. Line Width(mm)	100X Magnifier	0.305+0.061/-0.061	0.276	ACC
	最小环宽Min. Annular Ring(mm)	100X Magnifier	≥0.05mm	Min.0.1mm	ACC
6	UL标记UL Mark	Visual	 CP 5 94V-0	 CP 5 94V-0	ACC
7	防焊类型Solder Mask Type	Visual	SR-500 EK23	SR-500 EK23	ACC
	防焊颜色Solder Mask Color	Visual	black	black	ACC
8	字符颜色Legend Color	Visual	white	white	/
9	表面处理方式Surface Treatment	Visual	ENIG	ENIG	ACC
	金厚Au Thickness (um)	X-Ray Fluorescent Machine	0.050 < R < 0.150	0.062	ACC
	镍厚Ni Thickness (um)	X-Ray Fluorescent Machine	3.000 < R < 8.000	5.021	ACC
10	防焊硬度测试S/M Abrasion Hardness	IPC-TM-650 section 2.4.27.2	≥6H	≥6H	ACC
11	附着力测试Adhesion Test	IPC-TM-650 section 2.4.28	No Peeling Off by 3M 600#	No Peeling Off by 3M 600#	ACC
12	可焊性测试Solder-ability Test	J - STD-003C-WAM1 4.2.1& IPC-TM-650 2.4.12 255+/-5℃ 3-5seconds once	Preferred Wetting	Preferred Wetting	ACC
13	热应力测试Thermal Stress Test	IPC-TM-650 2.6.8 , 288+/-5℃ 10-11seconds thrice	No Bubbles,Delamination	No Bubbles,Delamination	ACC
14	离子污染测试Ionic Contamination Test(ug /cm ² NaCl)	IPC-TM-650 2.3.25C	Max.1.56	Max.0.069	ACC
15	开短路测试Open/Short Test	E-Tester,Test Voltage 250V, Conductive Resistance 50Ω, Insulation Resistance 20MΩ	100% Pass	100% Pass	ACC
	开短路测试标记Open/Short Test Marking	Visual	Drawing Line	Drawing Line	ACC

判断Judgement :

◆ ACC

◇ REJ

◇ UAI

检验Checked By :

钱君艳,

批准Approved By :

杨雄

日期Date:

2019-10-04

日期Date:

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孔径&尺寸测量报告
Hole Diameter & Outline Dimension Measurement Record

客户名称 Customer Name	广东大普通信技术有限公司	景旺料号 Kinwong P/N	P3684NLI02122950A
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孔径及SLOT槽尺寸Hole Diameter and Slot Diameter (unit: mm)
检验方法 Inspection Method: Pin Gauge or Micro-section(for hole plugged)

序号 No.	PTH or NPTH	孔径规格 Hole Spec	孔径公差 "+"Tol	孔径公差 "-Tol	实际值1 Actual1	实际值2 Actual2	实际值3 Actual3	实际值4 Actual4	实际值5 Actual5	结果 Result
1	PTH	0.254	0.075	0.075	0.250	0.260	0.230	0.260	0.260	ACC
2	PTH	1.000	0.075	0.075	1.000	1.000	1.010	0.970	0.980	ACC
3	NPTH	2.500	0.050	0.050	2.475	2.490	2.480	2.460	2.490	ACC
4	PTH	0.800	0.076	0.076	0.825	0.840	0.810	0.830	0.800	ACC

外形尺寸 (单位: mm) Outline Dimension (unit: mm)
检验方法 Inspection Method: Digital Callipers or 3-D Measurement

序号 NO.	项目 Item	外形规格 Spec.	外形公差 "+"Tol	外形公差 "-Tol	实际值1 Actual1	实际值2 Actual2	实际值3 ActualL3	实际值4 Actual4	实际值5 Actual5	结果 Result
1	3-D	94.8	0.100	0.100	94.750	94.738	94.752	94.757	94.763	ACC
2	3-D	97	0.100	0.100	96.940	96.942	96.958	96.963	96.923	ACC
3	3-D	22	0.100	0.100	21.960	21.941	21.978	21.964	21.983	ACC
4	3-D	25.1	0.100	0.100	25.040	25.029	25.033	25.062	25.019	ACC

斜边及V-CUT尺寸 (单位: mm) Bevel & V-cut Dimension (unit: mm angle:°) :

序号 NO.	项目 Item	项目规格 Item Spec.	项目公差 "+"Tol	项目公差 "-Tol	实际值1 Actual1	实际值2 Actual2	实际值3 Actual3	实际值4 Actual4	实际值5 Actual5	结果 Result
1	V-cut Remain Thk	0.300	0.100	0.100	0.32	0.29	0.28	0.30	0.31	ACC
2	V-cut Angle(°)	30.000	5.000	5.000	30.00	30.00	30.00	30.00	30.00	ACC

检验Checked By : 钱君艳,
日期Date: 2019-10-04

批准Approved By : 杨雄
日期Date: 2019-10-04

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孔铜&防焊Hole Wall Copper & Solder Mask(um)

通孔Through Hole			盲孔Blind Hole		埋孔Buried Hole		位置图示 Position Figure
位置 Position	规格 Specification	结果 Result	规格 Specification	结果 Result	规格 Specification	结果 Result	
A	≥20.00	24.4	/	/	/	/	
B	≥20.00	24.6	/	/	/	/	
C	≥20.00	24.7	/	/	/	/	
D	≥20.00	24	/	/	/	/	
E	≥20.00	24.6	/	/	/	/	
F	≥20.00	25	/	/	/	/	

孔粗 Hole Wall Roughness		灯芯效应 Wicking		防焊油墨厚度 Solder Mask Thickness		A	T	L	
规格 Specification	≤30.00	规格 Specification	/	规格 Specification	≥6.00	≥10.00	≥10.00		
结果Result	6.00	结果Result	/	结果Result	23.70	24.40	34.80		

各层完成铜厚&介质层厚度Finished Layer Copper & Dielectric Thickness

内外层完成铜厚 Finished Inner&Outer Layer Copper Thickness(um)			介质层厚度Dielectric Thickness(um)		
序号NO.	规格Specification	结果Result	序号NO.	规格Specification	结果Result
L1	R≥30.9	42.90	L1-L2	530+50/-50	526.00
L2	R≥30.9	37.40	/	/	/

内在缺陷检查Defects Inspection		结果Result
1.钻污Smear.	2.镀层分离Plating separation.	Not found
3.镀层空洞Plating Void.	4.镀层裂缝Plating Crack.	
5.披锋和结瘤Burr and Nodules.	6.露玻纤布Exposed Glass Fiber.	
7.分层Delamination.		

判断Judgement :	◆ ACC	◇ REJ	◇ UAI
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检验Checked By : 钱君艳,
日期Date: 2019-10-04

批准Approved By : 杨雄
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客户料号 Customer P/N	PYO2522018	周期 Date Code	1940
表面处理方式 Surface treatment	ENIG		
测试方法 Test Method	IPC-TM-650 Method 2.6.8		
温度Temperature	288±5°C	时间Time	10~11秒, 3次 10~11 Seconds, Thrice
检查内容Content		结果Result	
1. 层压空洞 Laminata void	<input type="radio"/> 发现 Found	<input checked="" type="radio"/> 未发现 Not Found	
2. 孔铜剥离 Hole Copper Peeled Off	<input type="radio"/> 发现 Found	<input checked="" type="radio"/> 未发现 Not Found	
3. 铜皮起泡 Copper-Foil Blister	<input type="radio"/> 发现 Found	<input checked="" type="radio"/> 未发现 Not Found	
4. 防焊起泡 Solder Mask Blister	<input type="radio"/> 发现 Found	<input checked="" type="radio"/> 未发现 Not Found	
5. 镀层裂缝 Pating crack	<input type="radio"/> 发现 Found	<input checked="" type="radio"/> 未发现 Not Found	
6. 其它 Others	<input type="radio"/> 发现 Found	<input checked="" type="radio"/> 未发现 Not Found	
备注Note			
判断Judgement :			
	◆ ACC	◇ REJ	◇ UAI

检验Checked By : 钱君艳,

批准Approved By : 杨雄

日期Date: 2019-10-04

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