



深圳市实佳电子有限公司

SHENZHEN SUNSHINE GOOD ELECTRONICS CO., LTD.

SAMPLE SPECIFICATION FOR APPROVEL

客户名称 (Customer Name) : Sichuan Xiangcheng Intelligent Technology Co. , Ltd.

产品型号 (Product Model Number) : P1292_NFC天线/K53700000107LA1

产品编码 (Manufactory P/N) : P192FQ6851C1

项目产品类型 (Product Type) : NFC天线

报告日期 (Report Date) : 2024/6/21

Three Report Type: (Standard Report、Optional Report、Custom Report)	
Standard Report:	Inspection Report、 Dimension measurement Report
	CAM Drawing、 Reliability Test Report
Special Report:	Nothing
Optional Report:	Reference Optional Report List
Custom Report:	Customer Provide Format Of Report, SG Additional Output

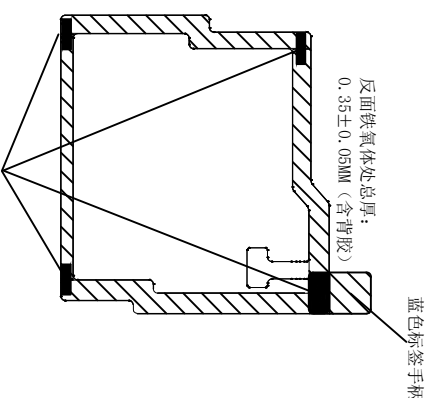
实佳确认 Sunshine Good Approval	
检 查 CHECKED	批 准 APPROVALED
Zong Mei Zhou	He Yan Le

客户承认 Customer Approval	
☐ 接收 ACC	☐ 拒收 REJ
☐ 特采 UAI	
客户签名 Customer Signature	确认日期 Confirm Date

Add: Room 202, 2/F, Tower A, Jin Yuan business building, Xixiang Street, Baoan, Shenzhen

TEL: 0755-27946651

FAX: 0755-27946066



- NOTES:
1. 外形公差: $\pm 0.1\text{mm}$
 2. 蚀刻线路公差: $\pm 0.03\text{MM}$
 3. 字符公差: $\pm 0.3\text{mm}$
 4. 覆盖膜对位公差: $\pm 0.2\text{mm}$
 5. 补强对位公差: $\pm 0.3\text{mm}$
 6. 钢片补强板对位公差: $\pm 0.2\text{mm}$

UNSPECIFIED TOL'S ARE									
Over		To		Fine		Medium		Coarse	
0		6		0.07		0.1		0.2	
6		30		0.1		0.2		0.5	
30		120		0.15		0.3		0.8	
120				0.3		0.5		1.2	
ANGLE		0.5°		1°		2°			
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DRAWN: 汪洋 2024.07.22									
CHECKED:									
DWG. NO.: 1P64635D1									
UNITS SCALE SHEET REV.									
mm 1:1 1/1									



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SHENZHEN SUNSHINE GOOD ELECTRONICS CO., LTD.

Inspection Report

Customer name	Sichuan Xiangcheng Intelligent Technology Co., Ltd.	Product Model Number	P1292_NFC天线 /K5370000107LA1	Manufactory P/N	P192FQ6851C1
Shipments	30PCS	Spot Check Quantity	5PCS	Spot Check Date	6月21日
Spot Check Item	Spot Check Content				Spot Check Result
Spec	Board Thickness: <u>0.4±0.05</u> mm Measured Thickness: <u>0.42</u> mm、 <u>0.42</u> mm、 <u>0.43</u> mm				☒ Acc ☐ Rej
Base Material	Supplier: <u>Zhihe</u> Spec: <u>35/25UM</u> Copper Type: ☐ RA ☒ ED				☒ Acc ☐ Rej
Coverlay	Supplier: <u>Xingo</u> Spec: <u>25/25UM</u> Color: ☐ Yellow ☒ Black				☒ Acc ☐ Rej
Stiffener	Supplier: <u>Ying He</u> Spec: <u>0.20</u> mm Type: ☐ PI ☐ Steel sheet ☒ FR4				☒ Acc ☐ Rej
Adhesive	Supplier: <u>Rui MU Jin</u> Spec: <u>0.05MM</u> Type: ☐ 3M9019 ☒ 3M467 ☐ tesa8853 ☐ other_				☐ Acc ☐ Rej
soldermask	Supplier: <u>/</u> Color: ☐ Yellow ☐ Black ☐ White ☐ Blue ☐ Green				☐ Acc ☐ Rej
Trace Width/Space	Trace Width/Space Requirement: <u>0.55/0.35±0.03</u> mm Measured value: <u>0.523/0.374</u> mm、				☒ Acc ☐ Rej
Circuit Status	☒ No Open Circuit ☒ No Short Circuit ☒ No Extra Drill ☒ No Broken Drill ☒ No Incompetent Track ☒ No Alien Object ☐ Open Circuit ☐ Short Circuit ☐ Extra Drill ☐ Broken Drill ☐ Incompetent Track ☐ Alien Object				☒ Acc ☐ Rej
breakover Test	☐ Test Open/Short Circuit with Test Jig(for MP) ☒ Flying Probe Test ☐ Manual Test(For Samples) ☐ Visual Inspection				☒ Acc ☐ Rej
Surface Finish	☒ ENIG ☐ Electro-plated Gold ☐ OSP ☐ Electro-plated Tin ☐ Immersion Silver ☐ Other:				☒ Acc ☐ Rej
	Au/Ni Requ: <u>1-2/80-120u"</u> Measured value: <u>1.23/95.35u"</u> 、 <u>1.19/95.53u"</u> 、 <u>1.21/97.55u"</u>				☒ Acc ☐ Rej
Visual Look	☒ No Color Difference ☒ No Alien Object ☒ No Bubble ☒ No Wrinkle ☒ No Folding Line ☒ No Nasty ☒ No Exposed Copper ☐ Color Difference ☐ Alien Object ☐ Bubble ☐ Wrinkle ☐ Folding Line ☐ Nasty ☐ Exposed Copper				☒ Acc ☐ Rej
Pad	☒ No Deviation ☒ No Extra Pad ☒ No Pad Lacked ☒ No Miss ☒ No Overflowed Glue ☐ Deviation ☐ Extra Pad ☐ Pad Lacked ☐ Miss ☐ Overflowed Glue				☒ Acc ☐ Rej
Golden Fingers	☒ No Color Difference ☒ No Oxidation ☒ No Leaked Gold ☒ No Incomplete Fingers ☒ No Rough Surface ☒ No Extra Holes ☐ Color Difference ☐ Oxidation ☐ Leaked Gold ☐ Incomplete Fingers ☐ Rough Surfac ☐ Extra Holes				☒ Acc ☐ Rej
Silkscreen	☒ Clear Silkscreen ☒ No Silkscreen on PAD ☒ Integrated Silkscreen ☒ No Deviation ☒ No Repeat Silkscreen ☒ CAM-MI Compliant ☐ Blur Silkscreen ☐ Silkscreen on PAD ☐ Missed Silkscreen ☐ Deviation ☐ Repeat Silkscreen ☐ No CAM-MI Compliant				☒ Acc ☐ Rej
Vias/Positioning Holes	☒ No Bigger Hole ☒ No Smaller Hole ☒ No Deviated Hole ☒ No Extra Hole ☒ No Missed Hole ☒ No Broken Hole ☒ No Filled Hole ☐ Bigger Hole ☐ Smaller Hole ☐ Deviated Hole ☐ Extra Hole ☐ Missed Hole ☐ Broken Hole ☐ Filled Hole				☒ Acc ☐ Rej
Outline Die Cutting	☒ No Deviation ☒ No Edge Burr ☒ No Sharp Edge ☒ No Damage ☒ No Broken Edge ☒ Dimension in Accordance with MI Requirement ☐ Deviation ☐ Edge Burr ☐ Sharp Edge ☐ Damage ☐ Broken Edge ☐ Dimension not in Accordance with MI Requirement				☒ Acc ☐ Rej
Customer Approval					

Inspected by: Zong Mei Zhou

Auditted by: He Yan Le



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SHENZHEN SUNSHINE GOOD ELECTRONICS CO., LTD.

Dimension Measurement Report

Customer name	Sichuan Xiangcheng Intelligent Technology Co., Ltd.			Product Model Number	P1292_NFC天线 /K5370000107LA1			Manufacturer P/N	P192FQ6851C1	
Shipments	30PCS			Spot Check Quantity	5PCS			Spot Check Date	6月21日	
项目	内容 DESCR	规格	公差 TOLER	检查结果 INSPECTION RESULT					接受	拒收
ITEM	IPTION	SPEC	ANCE	N01	N02	N03	N04	N05	ACC	REJ
Outline	机械尺寸			机械尺寸（二次元量测） OUTLINE DIMENSION						
	尺寸测量	3.00	±0.3	3.11	3.15	3.21	3.14	3.16	ACC	
	Measurement	65.09	±0.3	65.15	65.22	65.15	65.21	65.25	ACC	
		5.00	±0.3	5.16	5.17	5.15	5.09	5.13	ACC	
		9.60	±0.1	9.71	9.74	9.69	9.72	9.72	ACC	
		5.00	±0.1	5.11	5.15	5.08	5.15	5.12	ACC	
		4.50	±0.3	4.76	4.56	4.65	4.53	4.70	ACC	
		72.36	±0.3	72.50	72.48	72.41	72.45	72.50	ACC	
	Customer Approval									

Inspected by: Zong Mei Zhou

Auditted by: He Yan Le



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SHENZHEN SUNSHINE GOOD ELECTRONICS CO., LTD.

(Hardware electronic functional test report)

Customer name	Sichuan Xiangcheng Intelligent Technology Co. , Ltd.		Product Model Number	P1292_NFC天线 /K5370000107LA1		Manufactory P/N	P192FQ6851C1	
Shipments	30PCS		Spot Check Quant	5PCS		Spot Check Date	6月21日	
项目	测试项目	测试结果					接受	拒收
		RESULT						
ITEM	TESTITEM	N01	N02	N03	N04	N05	ACC	REJ
Test equipment		The Network analyzer, the LCR Bridge Analyzer						
Hardware electronic type		Non-inductive NFC antenna						
1.0 NFC bare antenna performance								
Test method: antenna paste shielding material test, including R value test in 1MHz environment, the other four in 13.56 mhz environment, resonant frequency plus 100PF capacitance test.								
1.1	Resonant frequency f (MHZ)	15.64	15.64	15.64	15.64	15.64	ACC	
1.2	DC resistance R (Ω)	0.37	0.37	0.36	0.36	0.37	ACC	
1.3	Capacitance C (PF)	-147.11	-147.18	-147.46	-147.5	-147.45	ACC	
1.4	Inductance LS:	937	936	938	934	935	ACC	
1.5	Quality Factor Q	74.57	73.05	76.5	74.72	73.25	ACC	
2.0 RF performance of an unconnected induction antenna placed in a terminal								
Place the terminal name:								
Reference standards								
2.1	Resonant frequency f (MHZ)							
2.2	Smith-impedance (Ω)							
2.3	Field strength (V)							
2.4	Sensing distance (MM)							
2.5	Carrier frequency (MHZ)							
Customer Approval								

Inspected by: Zong Mei Zhou

Auditted by: He Yan Le



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Reliability Test Report

Customer name	Sichuan Xiangcheng Intelligent Technology Co. , Ltd.	Product Model Number	P1292_NFC天线 /K5370000107LA1	Manufactory P/N	P192FQ6851C1
Shipments	30PCS	Spot Check Quantity	5PCS	Spot Check Date	6月21日
项目	测试项目及说明		要求	测试结果	结论
ITEM	TESTITEM		REQUIRE	RESULT	COMMENT
1. 可焊性 Solderability					
1.1	265±5℃/3-5S		De-wetting Holes ≤ 3%	100% wetting Holes	ACC
2. 热冲击 Thermal Shock					
2.1	288±5℃×10S×3times		No Delamination/No bubble	No Delamination、No Bubble	ACC
3. 剥离强度 Peel strength					
3.1	Minimum pulling force		≥0.7kgf/cm²	1.12kgf/cm²	ACC
4. 离子污染测试 Ionic Contamination Test					
4.1	NaCl		≤3ug/inch²	N/A	/
5. 耐药品性测试 Drug resistance test					
5.1	Soaking in Liquid with 5% NaOH for 10 Minutes under Indoor Temp		No Delamination/No bubble	No Delamination、No Bubble	ACC
6. 附着力测试 Adhesion test					
6.1	Press 3M600 adhesive Tightly to the gloden surface and then rip the adhesive in a fast speed to test the adhesion of the plating area		No Layering or Peeling of the Plating Area	No Layering or Peeling of the Plating Area	ACC
7. 盐水喷雾试验 Salt spray test					
7.1	1.Salty Liquid Density: 5±1%, PH: 6.5~7.2。 2.Sparying Quantity: 1~2ml/1hr/80cm²。 3.Temp of the Testing Device: 35±2 ℃。 4.Spraying for 48 hrs consecutively and then place the board in regular temp for 1 hour before inspection		No Color Changes or Oxidation of the Plating Area	N/A	/
Customer Approval					

Inspected by: Zong Mei Zhou

Auditted by: He Yan Le