

司南微电子（深圳）有限公司

SINAWELL Electronics(Shenzhen) Co., Ltd.

Customer Name	翼客智能
Product Name	FT61
Customer Item Number	
Project name	FT61
Product brand	SN
Product model	

Appendix	☒ cover	☒ buleprint	☐ FAI report	☐ CPK report告
	☒ Reliability Test Report	☐ 3D model	☒ RoHS	☐ UN38.3

Supplier	Make	Audit	Approval
Signature	Chen de	Li xiao long	Zhang ping

Customer	Make	Audit	Approval
Signature			

Admit condition	☐ admit	☐ Denial of recognition
	☐ Conditional recognition	Conditions to be satisfied:
	☐ Provisional recognition	limit__PCS

Supplier Information:	
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Rev: B

The Main Antenna Sample Confirmation

Customer	翼客智能		
Project Name	FT61		Date2024-08-20
Project NO.	SN1257-BT	Notes	LDS
Frequency Range	BT		
Designed By	RF Engineer	Structural Engineer	
Checked By	Engineering Manager		
Client' s Approval			

Designer: SINAWELL Electronics(Shenzhen) Co., Ltd.

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1. Specification description

This specification describes the status of the FT61 LDS antenna with a frequency band of 2400MHz-2500MHz.

2. Antenna appearance



3. Electrical performance

3.1. Antenna band

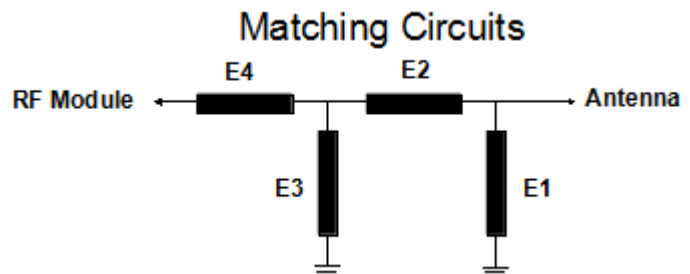
	BT
Transmitting band(MHz)	2400MHz-2500MHz

3.2. Matching Circuit

After the test point is at the antenna connector (RF test port), see the figure below.

1. BT antenna matching.

Element	Value
E1(0402)	NC
E2(0402)	0 Ω
E3(0402)	NC
E4(0402)	0 Ω



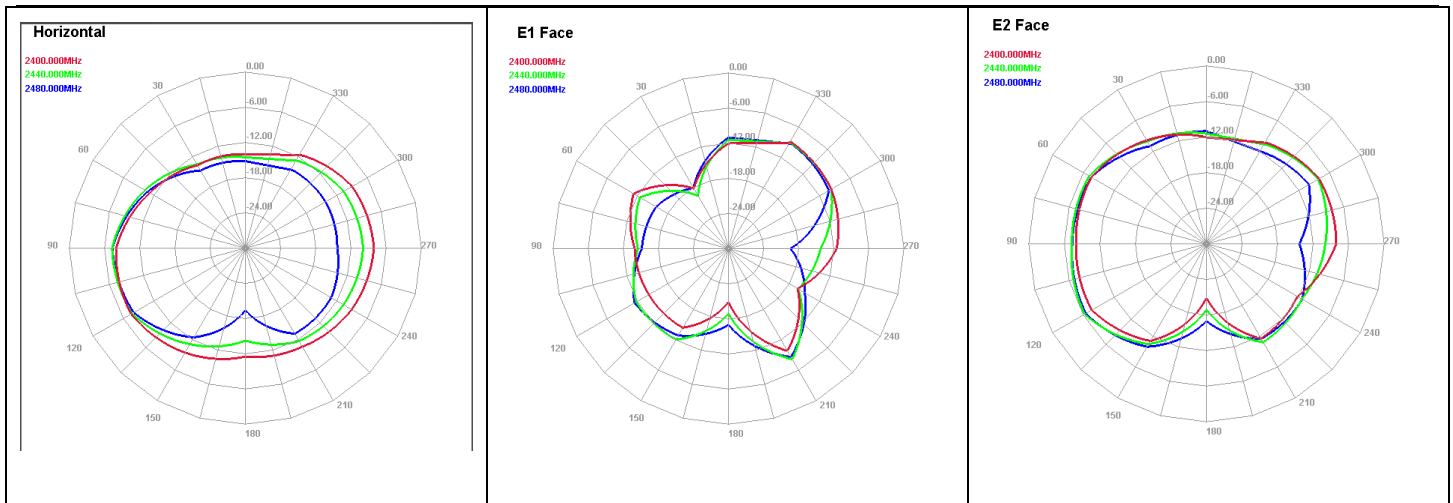
3.3. Return Loss

BT VSWR+ Return

	Resonant Point Range(MHz)	Frequency point(MHz)/Maximum Echo Loss(dB)		
	2400-2500		2400	2500
		VSWR	1.29	1.92
		Return loss	-18	-10

3.4. Antenna Gain

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2300	11.97	-9.22	-6.06
2310	11.42	-9.42	-6.18
2320	11.97	-9.22	-6.02
2330	12.68	-8.97	-5.7
2340	13.15	-8.81	-5.51
2350	14.29	-8.45	-4.3
2360	13.96	-8.55	-5.26
2370	11.98	-9.21	-5.73
2380	11.98	-9.21	-5.6
2390	11.74	-9.3	-5.66
2400	9.32	-10.3	-6.71
2410	10.61	-9.74	-6.08
2420	10.46	-9.81	-6.18
2430	10.48	-9.8	-6.08
2440	9.71	-10.13	-6.25
2450	9.06	-10.43	-6.32
2460	8.35	-10.78	-6.64
2470	8.43	-10.74	-6.38
2480	8.34	-10.79	-5.98
2490	8.75	-10.58	-5.82
2500	8.67	-10.62	-6.17



4. Appearance structure

4.1. Antenna Material

5. Notes

(Electrical Performance Test Report)

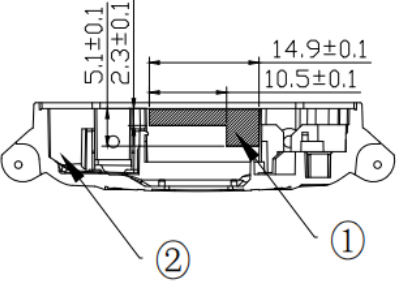
In the electrical performance test report, the 3D darkroom data for manufacturers are provided.

The following table format

Appendix 1: (Mechanical drawing)

Appendix II (Performance report)

FPC Mechanical drawing(Annex I)

1	2	3	4	5	6	7	8																												
							第三人称 <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>0~10</td> <td>±0.05</td> <td>○</td> <td>0.02</td> </tr> <tr> <td>10~18</td> <td>±0.10</td> <td>◎</td> <td>0.03</td> </tr> <tr> <td>18~30</td> <td>±0.12</td> <td>⊥</td> <td>0.02</td> </tr> <tr> <td>30~40</td> <td>±0.15</td> <td>∠</td> <td>0.04</td> </tr> <tr> <td>40~</td> <td>±0.20</td> <td>角度</td> <td>±0.5°</td> </tr> </table>	0~10	±0.05	○	0.02	10~18	±0.10	◎	0.03	18~30	±0.12	⊥	0.02	30~40	±0.15	∠	0.04	40~	±0.20	角度	±0.5°								
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D	注： 1. “*”为重点尺寸； 2. 未标注尺寸请依图纸； 3. 符合ROHS2.0、REACH、无卤素等环保要求。 4. 本图档为内部受控文件，未经我司允许严禁以任何形式进行传播。 <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>2</td> <td>天线支架</td> <td></td> <td>橙色</td> <td>客供</td> </tr> <tr> <td>1</td> <td>BT天线</td> <td>LDS</td> <td>本色</td> <td></td> </tr> <tr> <td>No.</td> <td>零件名称</td> <td>材 质</td> <td>颜 色</td> <td>备 注</td> </tr> </table>						2	天线支架		橙色	客供	1	BT天线	LDS	本色		No.	零件名称	材 质	颜 色	备 注	D													
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A	New drawing						A																												
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Focus on size

NO	尺寸(mm)	公差(mm)	备注
1	14.9	±0.1	
2	10.5	±0.1	
3	5.1	±0.1	
4	2.3	±0.1	
5			
6			