



规格承认书

Approval Sheet

客户名称 微星

(Customer Name)

产品名称 BT&WIFI antenna

(Specification)

客户料号 _____

(Customer P/N)

产品料号 _____

(O/I)

送样日期 2024-01-15

(Date)

频段	WIFI		
版本	A		
射频	陈彦博	确认	
结构	杨学忠		
客户确认			
日期			

Null

1.Project picture

2.test fixture

3.building-out circuit

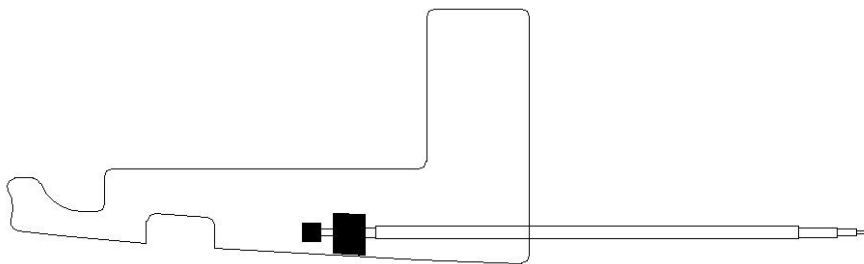
4. Test electrical performance

4.1 Test method specification standard

4.2 Parametric picture

5.structural drawings

1. Project picture (for reference only)

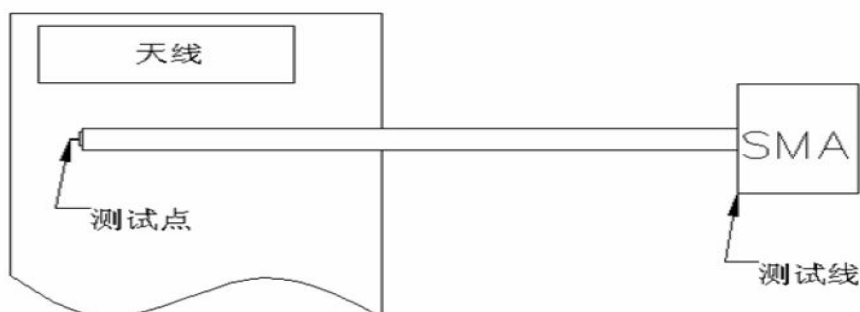


WiFi antenna

2. Passive testing

Objective: To test the passive parameters of antenna as accurately as possible.

Method: This fixture is a 50 ohm coaxial cable, one end of which is connected to the test point at the back end of the matching circuit of the mobile phone motherboard (the front section of the RF test hole), and the other section is connected to the SMA connector. The details are as follows:

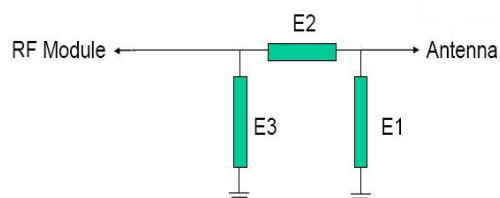


The following table is a test of the performance of the S7-WIFI production antenna:

S7-WIFI antenna				
	frequency(MHz)	VSWR	frequency (MHz)	VSWR
frequency	transmitting terminal		receiving end	
2.4G WIFI	2400-2550	≤3.0	2400-2550	≤3.0

3.building-out circuit

Antenna (match unchanged)



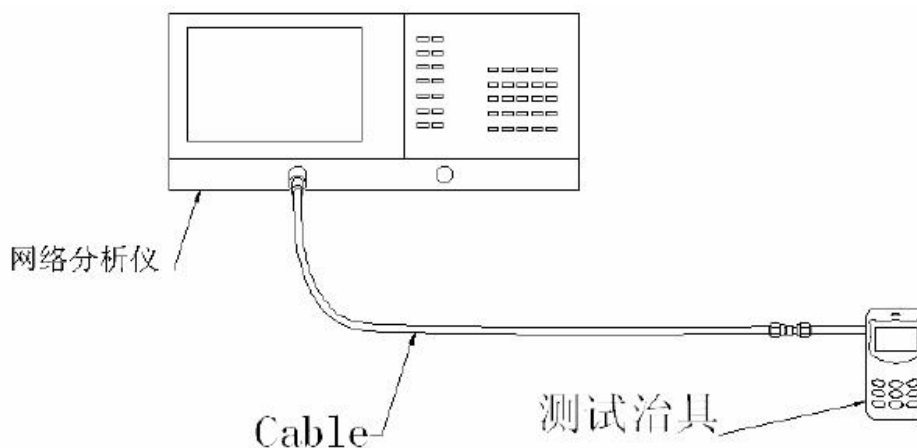
Element	Matched value
E1(0402)	
E2(0402)	0 Ohm
E3(0402)	

4. Test

4.1 Test method specification standard

VSWR The test devices are successively connected as: E5071 Bnetwork analyzer→50 ohm coaxialCable→120mmLong copper pipe→test fixture。

Test fixture processing: From the antenna 50 ohm test point on the PCB of the mobile phone with a hard cable to lead out the SMA-J connector, connected with the copper tube with a choke, and then connected to other devices in turn。



Test diagram

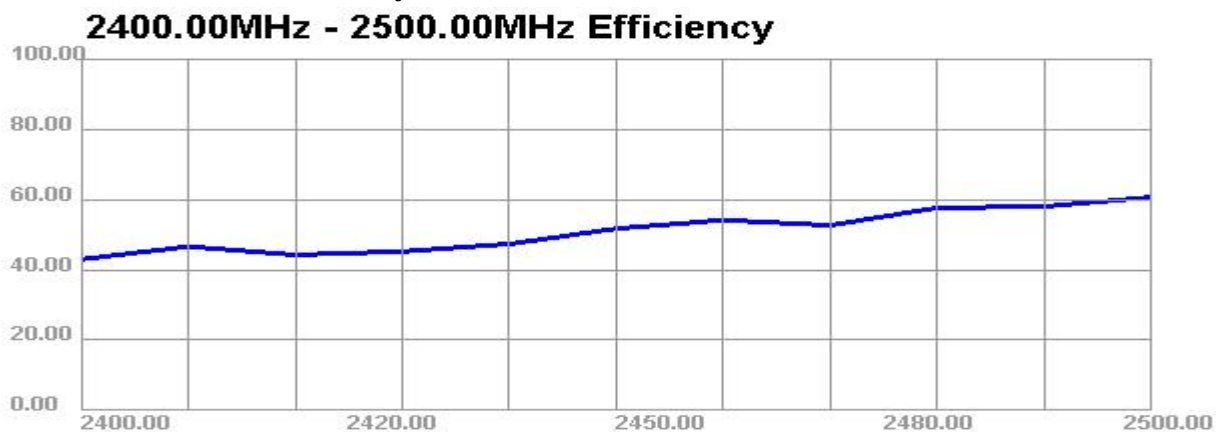
Passive standing wave pattern



2.4 Efficiency/gain

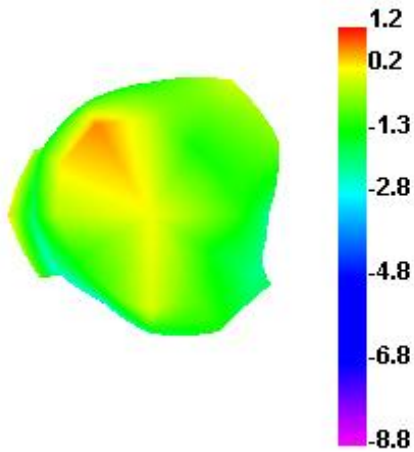
2.4G-WiFi		
Freq	Effi	Gain
(MHz)	(%)	(DBi)
2400	20.03	0.21
2420	22.26	0.31
2460	22.81	0.36
2480	24.38	0.42
2500	25.14	0.5

2.4 antenna effeciency:

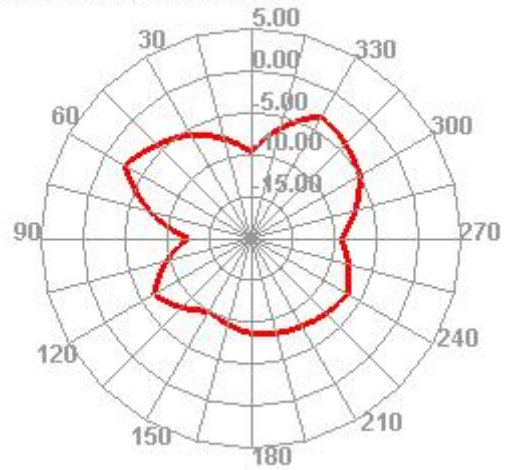


2.4 antenna pattern:

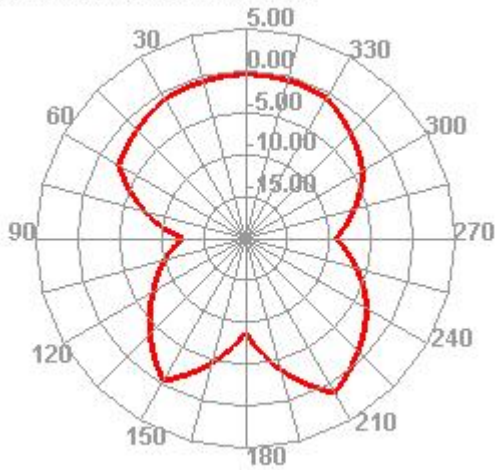
2400.000MHz



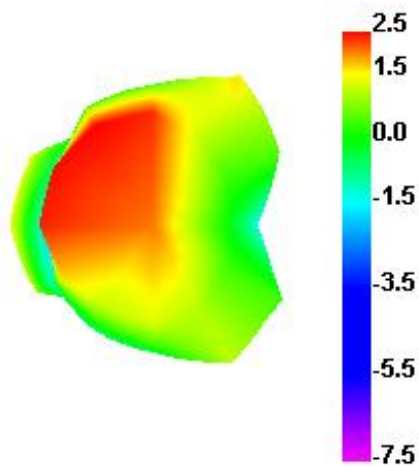
2400.000MHz H



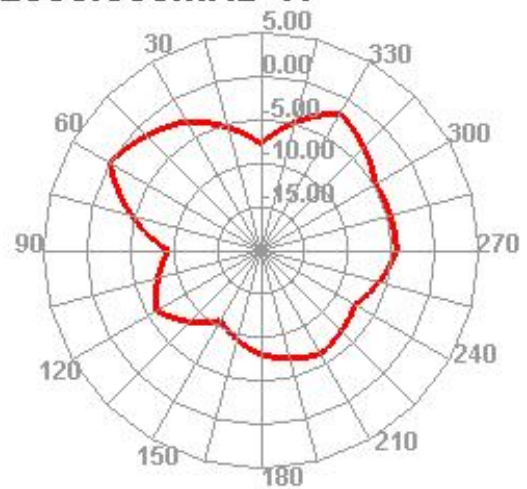
2400.000MHz E2



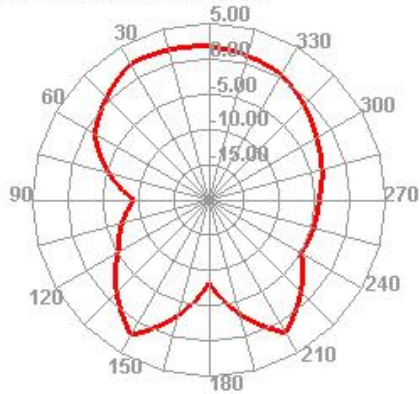
2500.000MHz



2500.000MHz H



2500.000MHz E2



The above tests meet the design requirements and the data is superior.

5: structural drawings



深圳市德仕勤科技有限公司

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Dosking MicroElectronics Co.,Ltd 德仕勤科技有限公司 - 承认书

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由 Autodesk 教育版产品制作									标记			签名			修改内容			日期																																																				
字符图例丝印颜色要求: 丝印白色字符																																																																						
定位孔打穿 铜箔区域 表面镀金 手撕位 产品外形 灌胶区不用背胶																																																																						
技术要求 1. 材质FPC(单面板, 黑色, 电解铜 半对半), T<0.125mm; 反面背胶类型: 3M-9471 (粘性需过热冲击试验); 2. 标“*”号为重点管控尺寸, 未注公差按图框中自由公差管控; 未注尺寸以菲林片检验为准(电性能需测试OK); 3. 镀金厚度为1μm, 不可有镀金后易断裂及脱落; 导电不良, 电路部分断裂等不良; 4. FPC表面油墨需均匀, 不可有污染物, 擦伤, 黑点, 超敏, 镀金不良等现象; 5. 产品符合ROHS标准									深圳市信必诺通讯科技有限公司 <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>第三视角</td> <td>项目名称</td> <td>I3</td> <td>日期</td> <td colspan="2">2025-12-11</td> </tr> <tr> <td>0~3 ±0.05</td> <td>设计</td> <td></td> <td colspan="3">Wang</td> </tr> <tr> <td>3~30 ±0.05</td> <td rowspan="2">产品名称</td> <td>FPC天线</td> <td rowspan="2">审核</td> <td>MD</td> <td>Wang</td> </tr> <tr> <td>30~50 ±0.10</td> <td>RP</td> <td>Long</td> </tr> <tr> <td>50~90 ±0.12</td> <td rowspan="2">产品料号</td> <td></td> <td rowspan="2">批准</td> <td colspan="2"></td> </tr> <tr> <td>角度 ±1°</td> <td>材料</td> <td>PT(聚酰亚胺)一对半</td> <td colspan="2"></td> </tr> <tr> <td colspan="3">第 1 页, 共 1 页</td> <td>单位</td> <td>mm</td> <td>比例</td> </tr> <tr> <td colspan="3"></td> <td>FTI</td> <td>版本</td> <td>TA</td> </tr> </table>									第三视角	项目名称	I3	日期	2025-12-11		0~3 ±0.05	设计		Wang			3~30 ±0.05	产品名称	FPC天线	审核	MD	Wang	30~50 ±0.10	RP	Long	50~90 ±0.12	产品料号		批准			角度 ±1°	材料	PT(聚酰亚胺)一对半			第 1 页, 共 1 页			单位	mm	比例				FTI	版本	TA									
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