



深圳市迪比通通讯设备有限公司

SHENGZHEN DIBITONG TELECOMMUNICATION TECHNOLOGY CO.,LTD.

移动通信终端天线

Mobile communication terminal antenna

产品设计与制造规格书

Product design and manufacturing specifications

◆ 客户名称/ Customer: Foscam

◆ 项目名称/Project: C2MV6

◆ 物料名称/Name: 2.4G-5.8GWIFI/BT FPC antenna

FPC ■

同轴线 ■

◆ 物料编号/Part no: 303305000104

◆ 设计/Designer:

◆ 审核/Check:

◆ 客户确认签章/Approved:

地址/Add: Room 505, Building 8, Yungu Phase II, Pingshan 1st Road, Xili Town, Nanshan District, Shenzhen

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Catalogue:

1. Antenna finished product drawing

2. Technical indicators

3. S11 Return loss/standing wave ratio

4. Dynamic test data-the antenna is placed in the machine

5. Antenna matching diagram

6. Physical drawing of antenna assembly

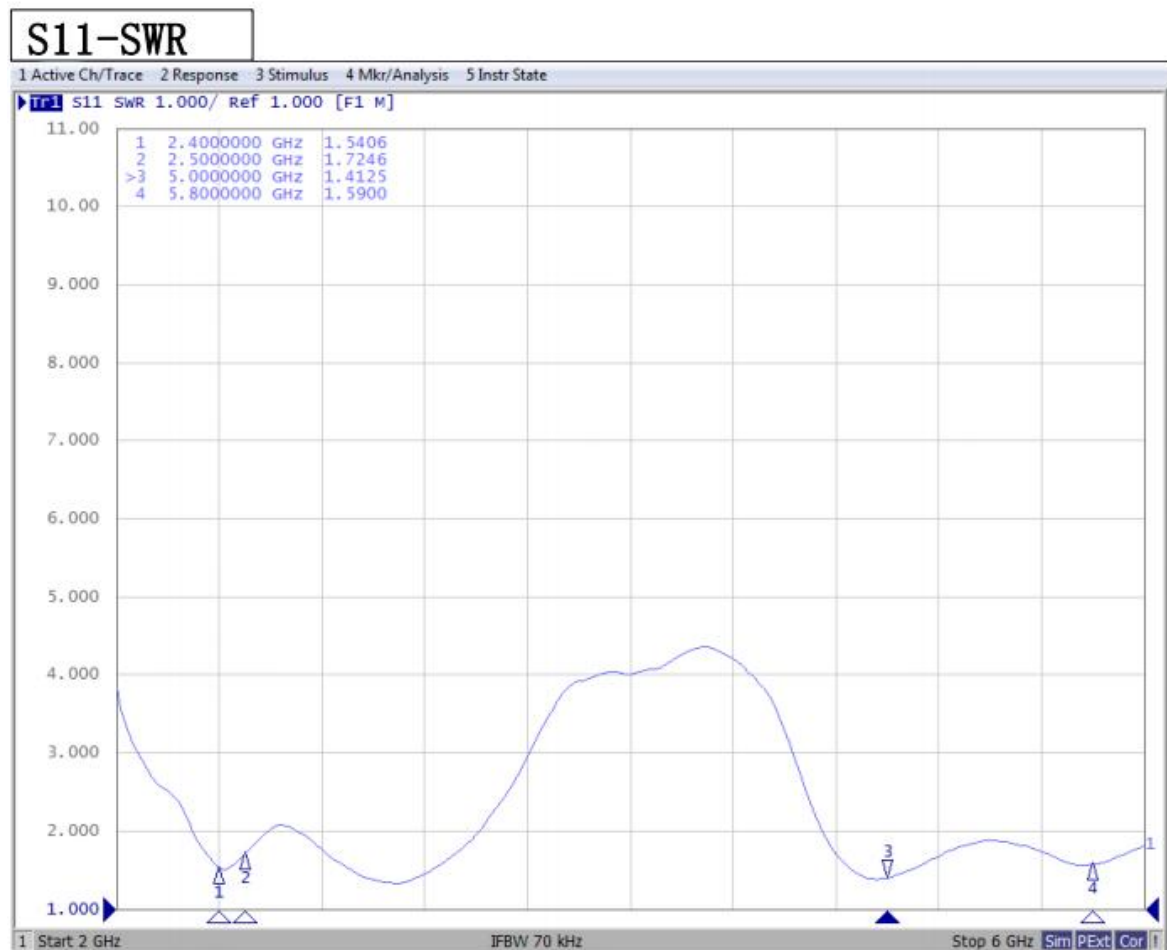
7. Actual test data of antenna

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序号		名称		规格说明		颜色		用量		备注	
②		VLF1同轴线		一代端子、Φ1.13MM 总长66MM		黑色		1		端子扣口朝侧下	
①		FPC		49.92mm±13.71mm±0.27mm		黑色		1			
第三角法											
注法公称		规格标准		机种		品名		C20M6		日期	
10以下		±0.10		◎		Q1.03		FPC1同轴线		设计	
10~20		±0.12		上		Q.02				审核	
20~40		±0.15		▽		Q.04				材料	
40以上		±0.20		∟		Q.02				表面处理	
附加说明										外观处理	
5						6				7	
								■		比例 F/T	
										版本	
										T:3	
										8	

2. Technical indicators

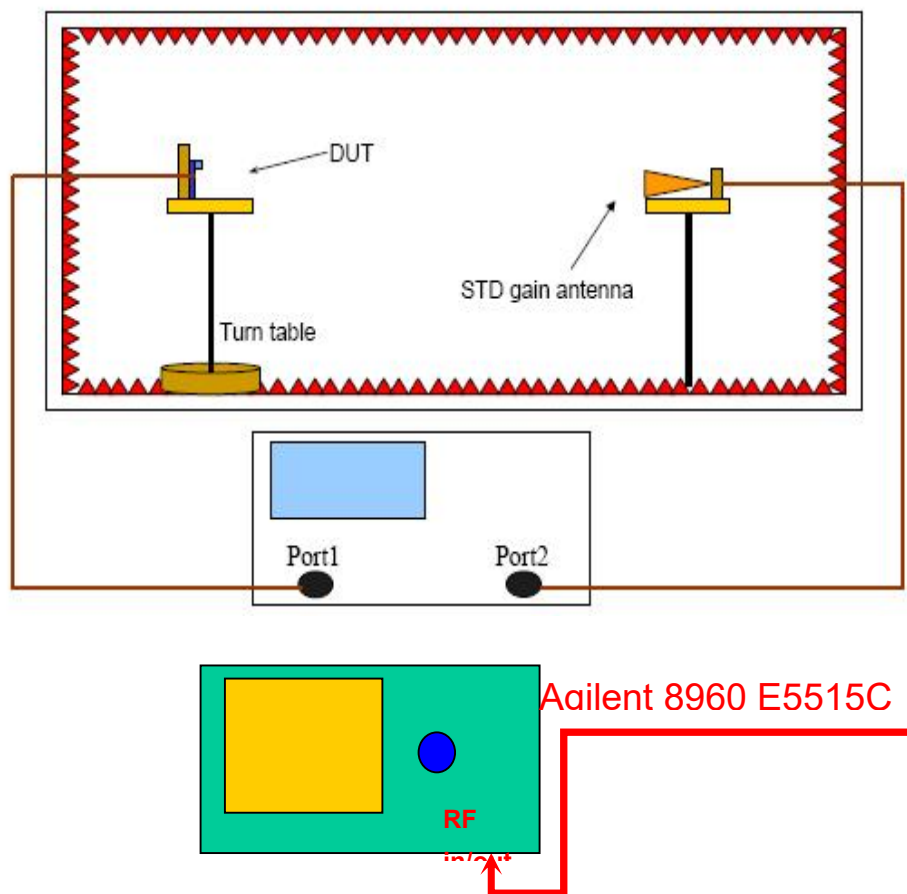
A. behaviour of electricity	
Operating frequency range	2400~ 2500 MHz 5000 ~ 5800 MHz BT
standing-wave ratio	2400~ 2500 MHz: 1.7 5000 ~ 5800 MHz: 1.6 BT :1.7
Antenna gain (peak)	2400~ 2500 MHz: 2.93 dBi 5000 ~ 5800 MHz: 2.96 dBi BT :2.93 dBi
Radiation efficiency (average)	2400~ 2500 MHz : 52 % 5000 ~ 5800 MHz: 53.6 % BT : 52 %
Impedance	50 ohm
B. material	
FPC+CABLE	
C. environment	
Working temperature	- 30°C ~ + 85 °C
Storage temperature	- 30°C ~ + 85 °C

3.S11 Return loss/standing wave ratio

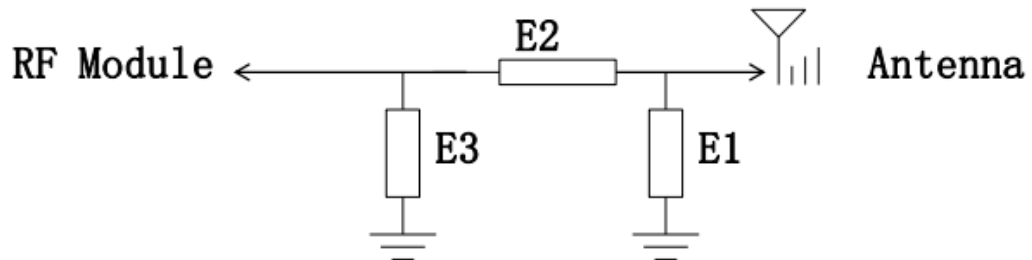


4. Dynamic test data-the antenna is placed in the machine

Testing instrument: Agilent 8960 E5515B+ Shield Box



5. Antenna matching diagram



Element	MAIN (主天线)	GPS/WIFI/BT (三合一天线)	DIV (分集天线)
E1		N/C	
E2		0R	
E3		N/C	

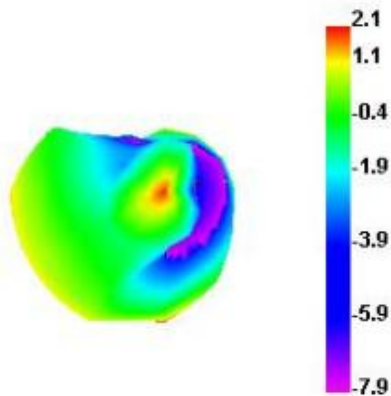
6. Physical drawing of antenna assembly



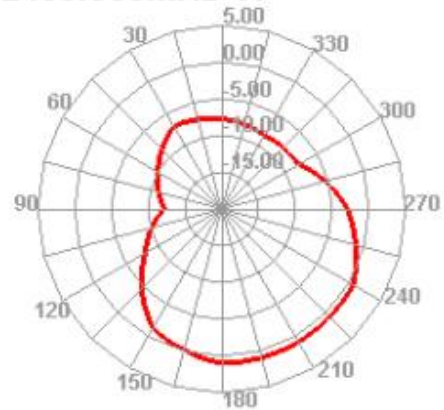
7.Actual test data of antenna

2. 4GWIFI/BT		
Freq (MHz)	Effi (%)	Gain (dBi)
2400	50.39	0.57
2410	51.08	0.97
2420	50.38	0.9
2430	53.49	1.56
2440	50.07	1.39
2450	56.68	2.09
2460	50.64	1.46
2470	52.86	2.17
2480	51.48	2.44
2490	55.92	2.93
2500	50.65	2.66

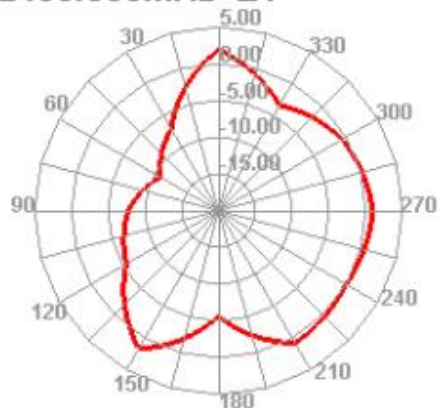
2450.000MHz



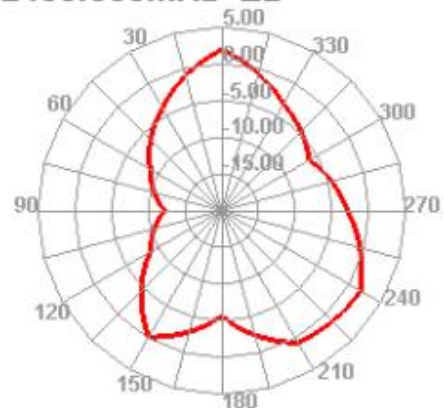
2450.000MHz H



2450.000MHz E1



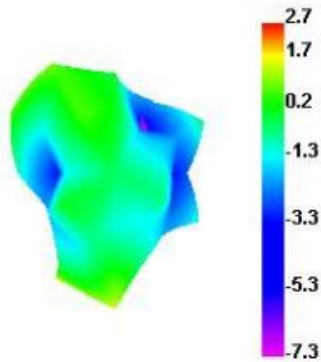
2450.000MHz E2



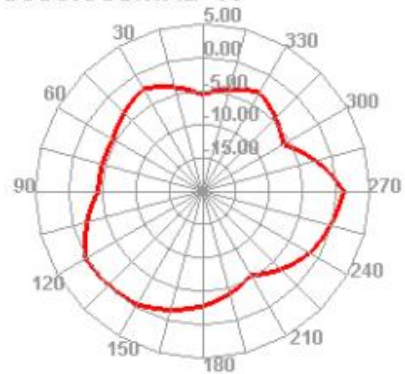
5.8G WIFI

Freq (MHz)	Effi (%)	Gain (dBi)
5000	53.19	2.7
5100	50.96	2.21
5200	54.63	2.63
5300	56.93	2.54
5400	55.8	2.96
5500	54.22	2.18
5600	51.41	2.58
5700	51.95	2.12
5800	52.61	2.28

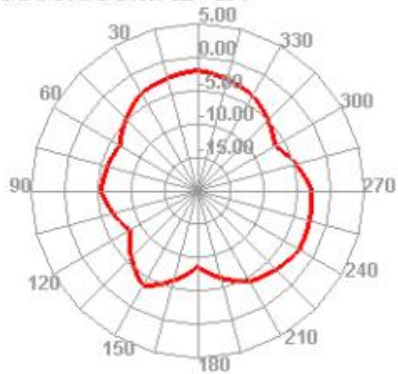
5000.000MHz



5000.000MHz H



5000.000MHz E1



5000.000MHz E2

