



# 深圳市迪比通通讯设备有限公司

SHENGZHEN DIBITONG TELECOMMUNICATION TECHNOLOGY CO.,LTD.

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## 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: G2MV6

◆ 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**

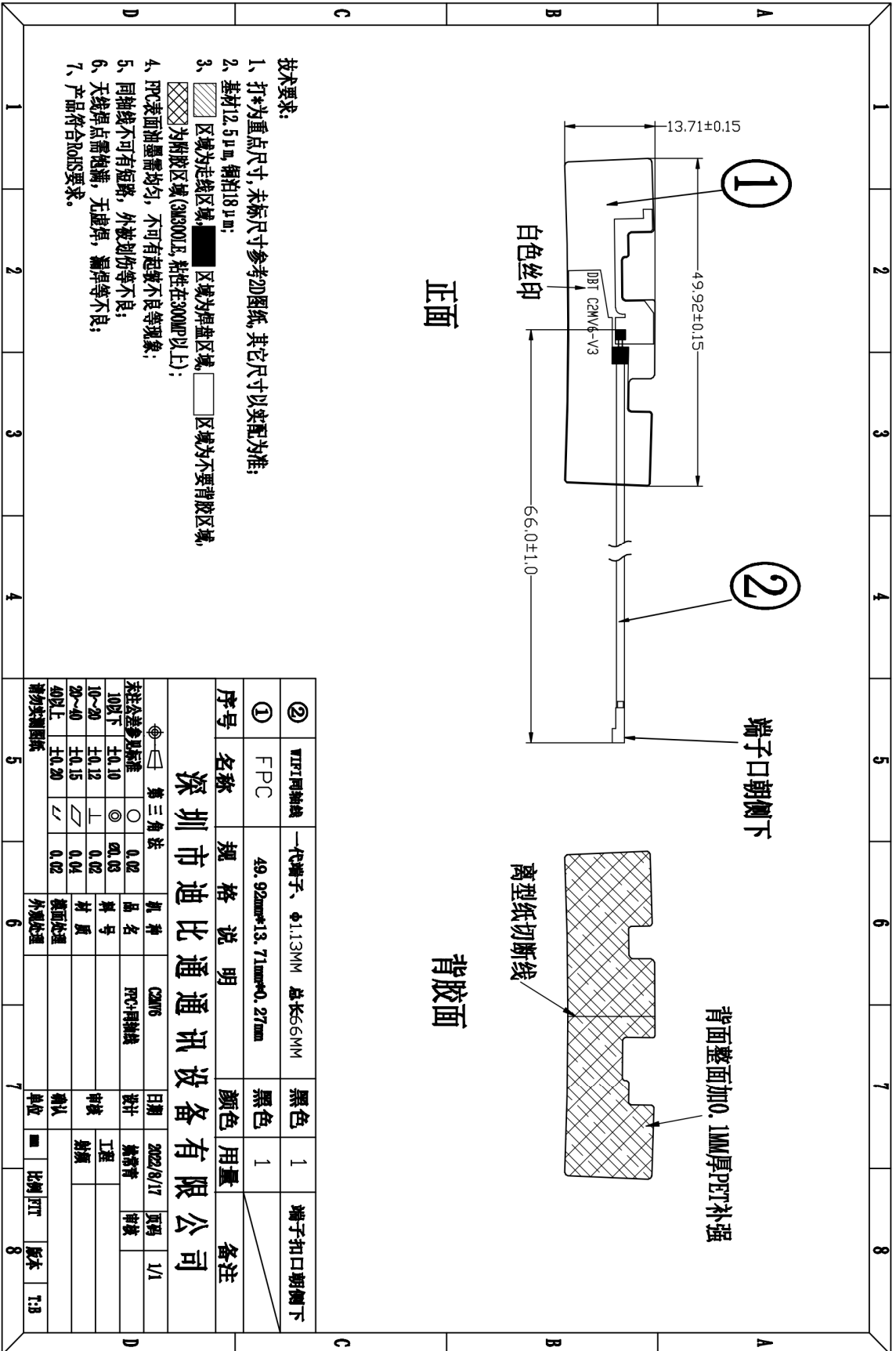
**4. Dynamic test data-the antenna is placed in the machine**

**5. Antenna matching diagram**

**6. Physical drawing of antenna assembly**

**7. Actual test data of antenna**

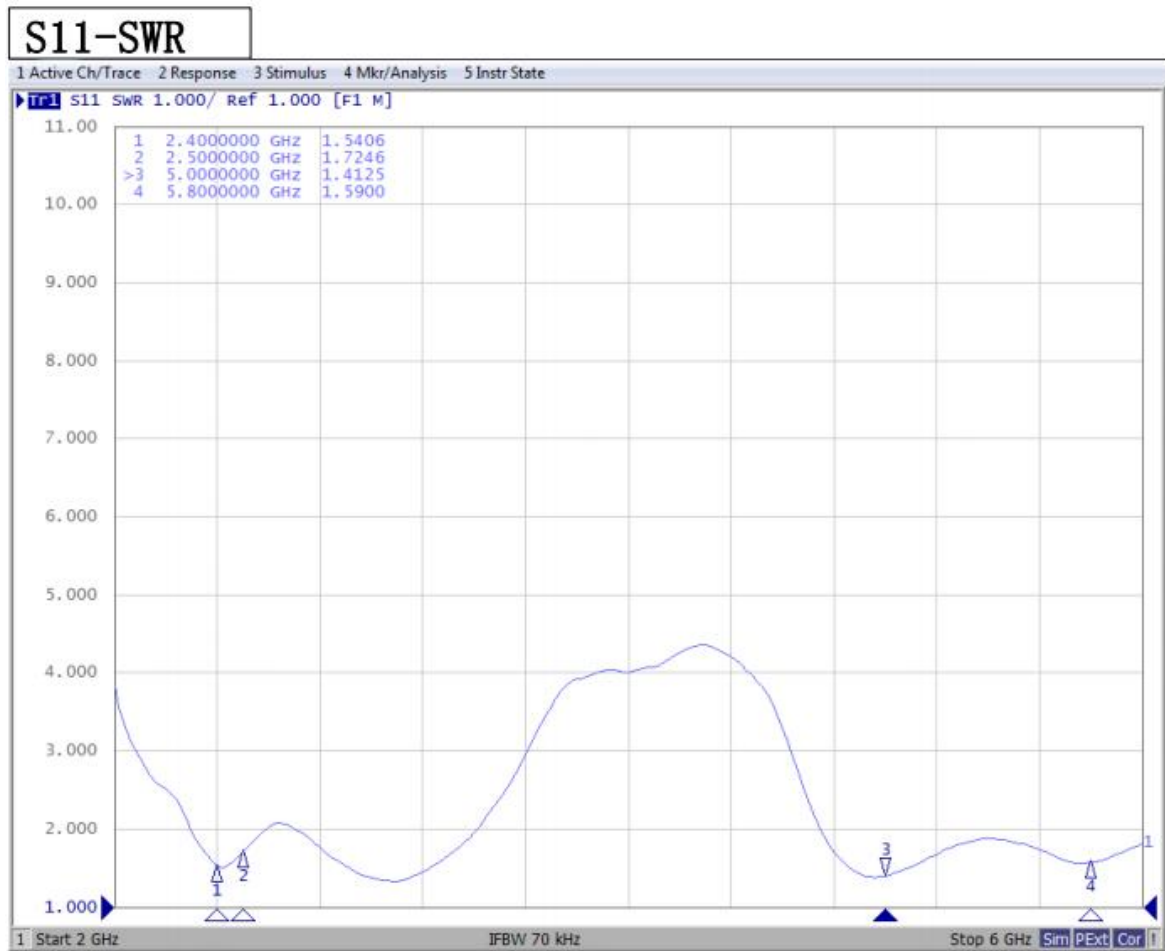
# 1. Antenna finished product drawing



## 2. Technical indicators

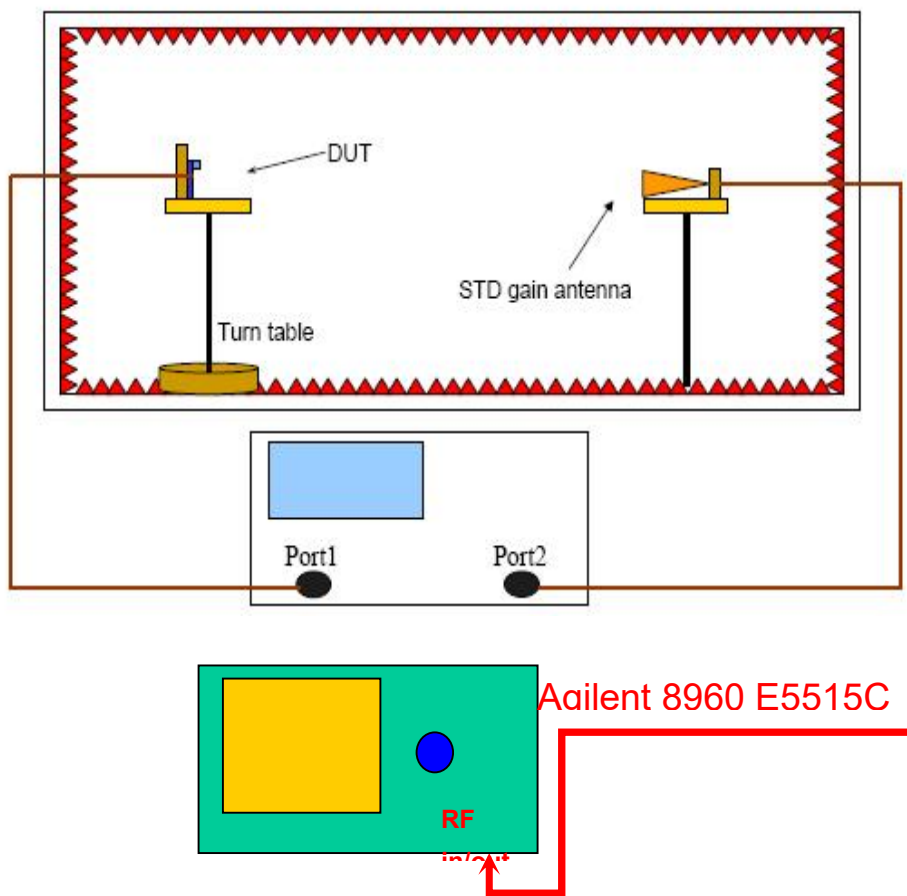
<b>A. behaviour of electricity</b>	
Operating frequency range	2400~ 2500 MHz 5000 ~ 5800 MHz BT
standing-wave ratio	2400~ 2500 MHz: 1.7 5000 ~ 5800 MHz: 1.6 BT :1.7
Antenna gain (peak)	2400~ 2500 MHz: 2.93 dBi 5000 ~ 5800 MHz: 2.96 dBi BT :2.93 dBi
Radiation efficiency (average)	2400~ 2500 MHz : 52 %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

### 3.S11 Return loss/standing wave ratio

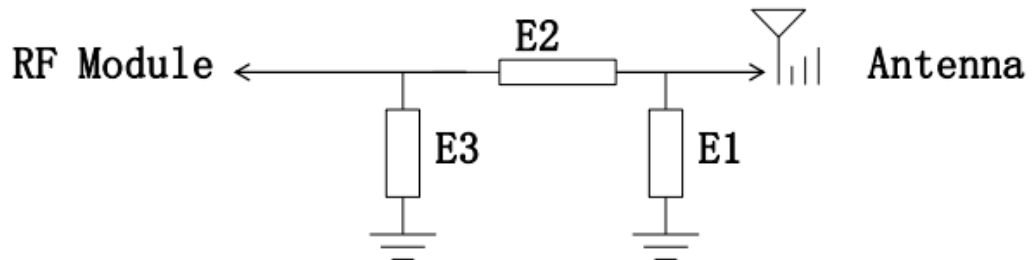


#### 4. Dynamic test data-the antenna is placed in the machine

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	

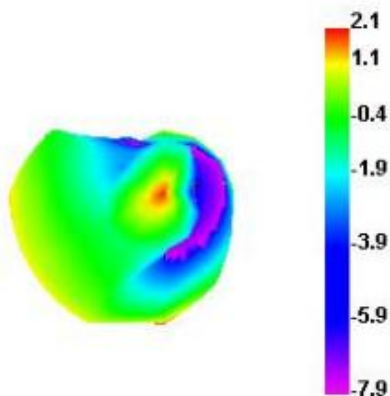
## 6. Physical drawing of antenna assembly



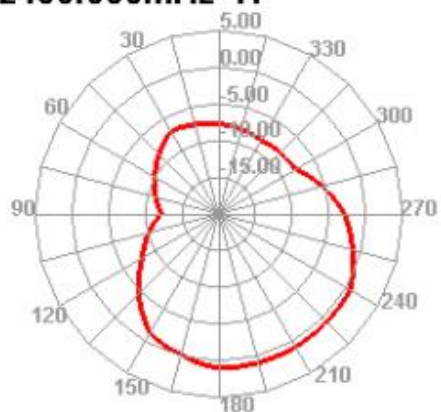
## 7. Actual test data of antenna

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

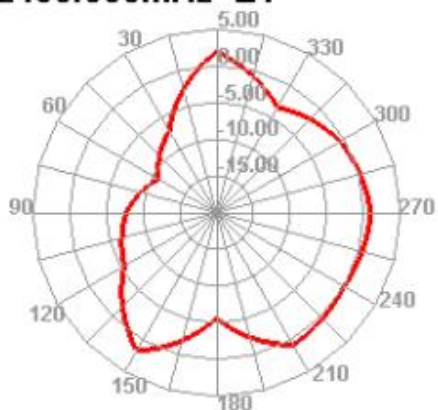
2450.000MHz



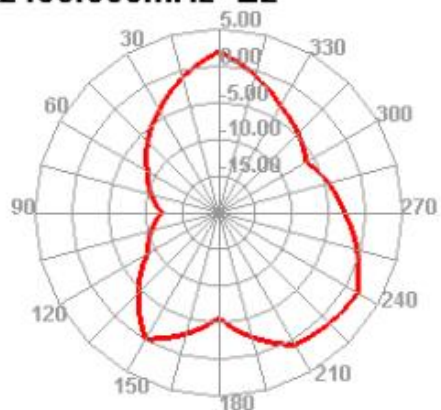
2450.000MHz H



2450.000MHz E1



2450.000MHz E2

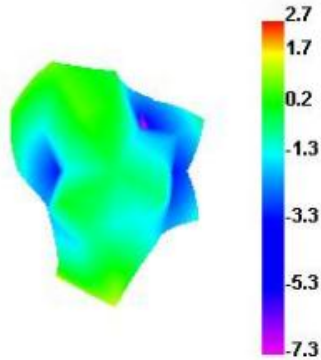




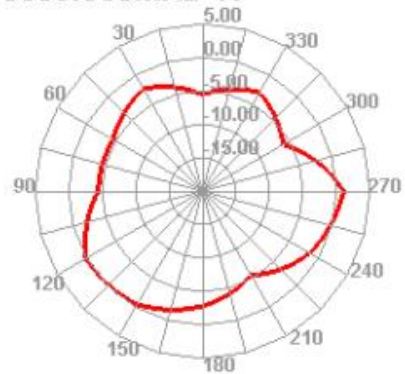
## 5.8G WIFI

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

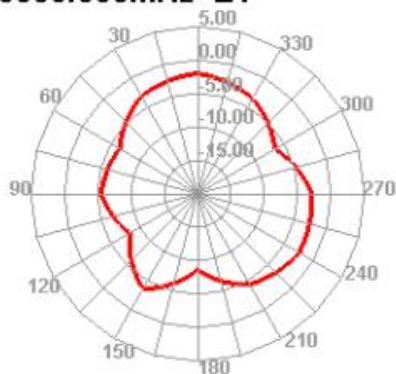
**5000.000MHz**



**5000.000MHz H**



**5000.000MHz E1**



**5000.000MHz E2**

