



深圳市迪比通通讯设备有限公司

SHENZHEN 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: 沃莱科技
- ◆ 项目名称/Project: F12603LBF
- ◆ 物料名称/Name: WiFi_ANT
- ◆ 天线材质/Antenna materials: PCB+Cable

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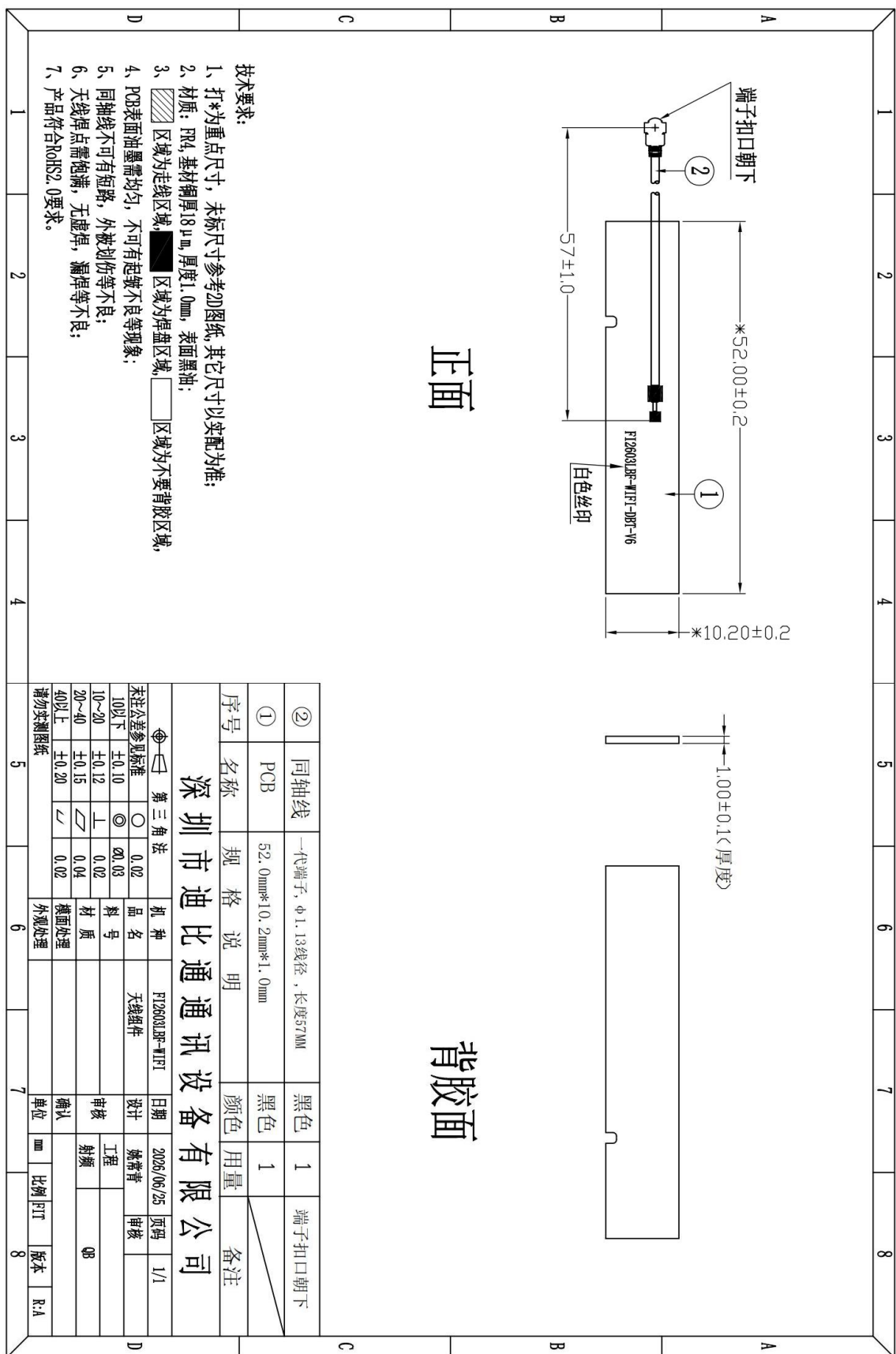
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1. 天线 2D 图/Antenna 2D diagram

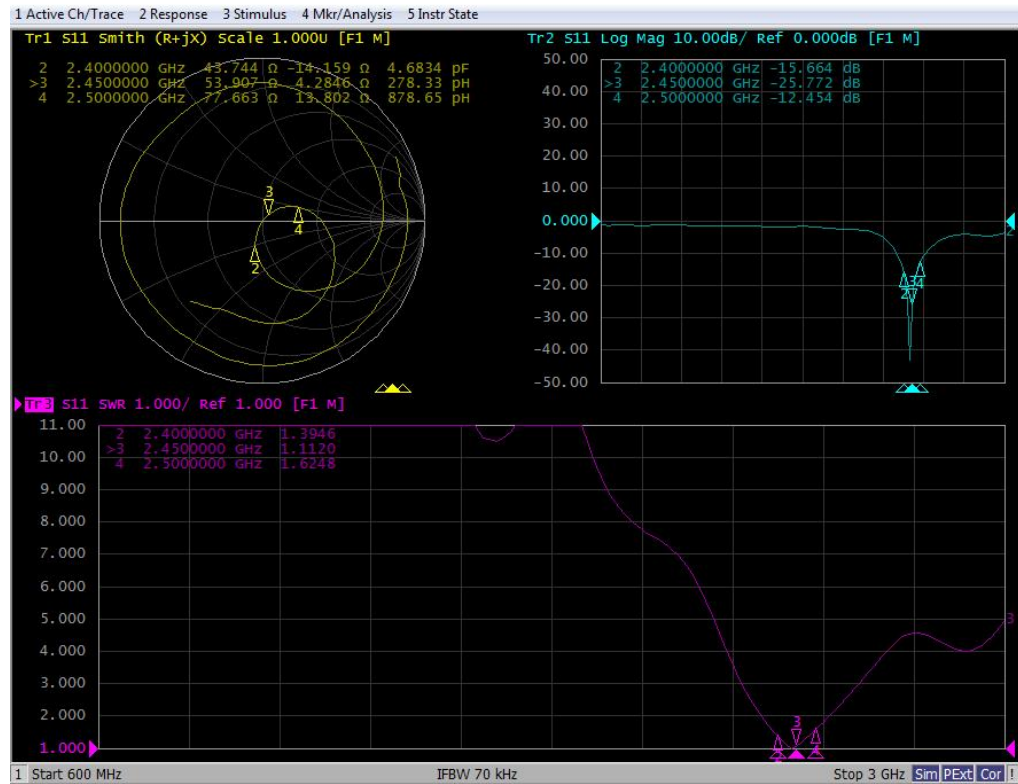


2.技术指标/ Technical target

A. 电气性能/Electrical Parameter	
工作频率范围/Frequency Range	2400~2500 MHz
驻波比/VSWR	2400~2500 MHz: ≤ 2.0
天线增益/Gain (Max)	2400~2500 MHz: 0.06 dBi
平均辐射效率/ Average radiation efficiency	2400~2500 MHz : 19.6%
阻抗/Input Impedance	50 ohm
B. 材料/ Material	
PCB+Cable	
C. 环境/Environmental Science	
工作温度/Working Temperature	- 30°C ~ + 85 °C
储藏温度/Storage temperature	- 30°C ~ + 85 °C

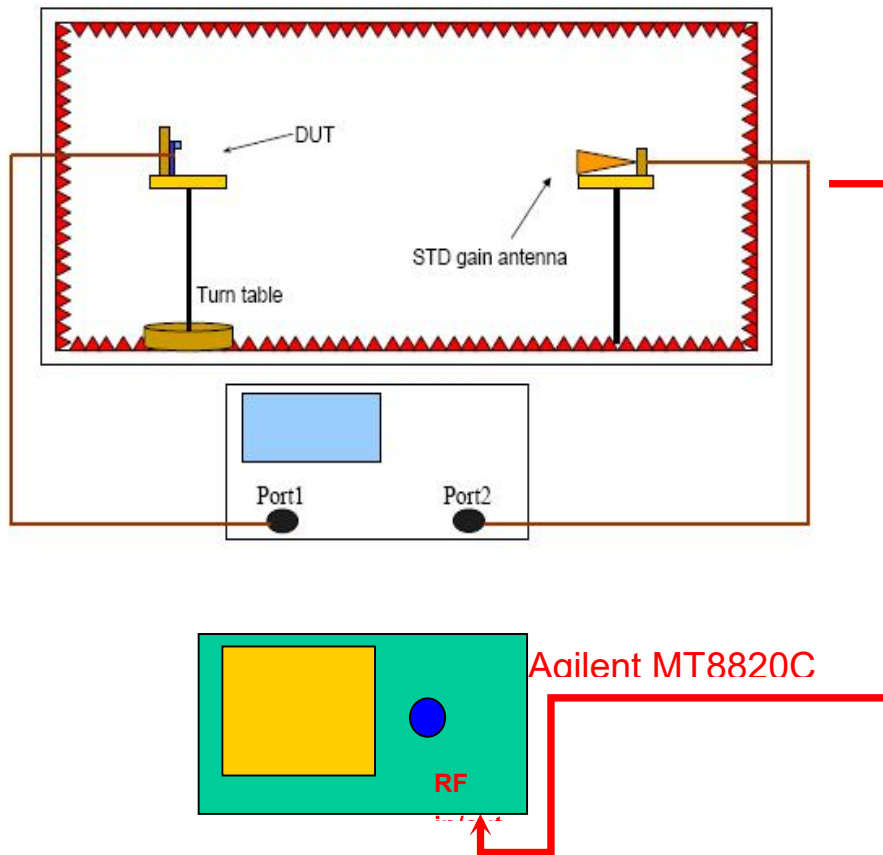
3.S11 驻波比 /回波损耗/阻抗测试结果

S11 SWR/Return loss/ Impedance test results



4.动态测试数据--- 天线安置在设备里/Dynamic test instructions - Antennas are placed in electronic scales

测试仪器/ Testing instrument : Anrits CMW500+ Anechoic Chamber 6X4X3m(3D-OTA)



5.匹配电路/Matching Circuit



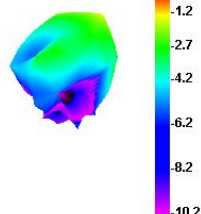
匹配未改动/The match has not changed

6.天线实际测试数据/Antenna test report

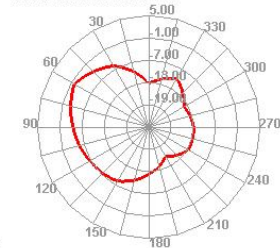
6.1)无源效率/增益/方向图/Passive Efficiency/Gain/Pattern

Freq (MHz)	Effi (%)	Gain (dBi)
2400	18.49	-0.15
2410	19.21	-0.1
2420	19.57	-0.17
2430	21.72	0.06
2440	21.38	-0.05
2450	21.03	-0.32
2460	19.53	-0.71
2470	18.74	-1
2480	19.56	-1.03
2490	17.68	-1.62
2500	18.69	-1.48

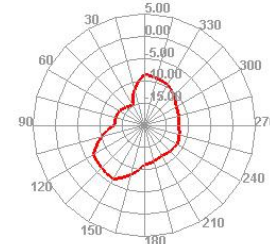
2400.000MHz



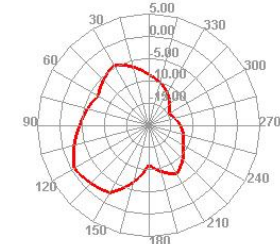
2400.000MHz H



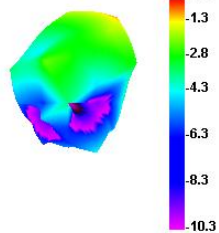
2400.000MHz E1



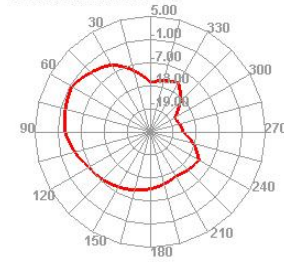
2400.000MHz E2



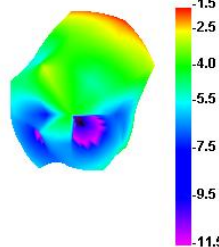
2450.000MHz



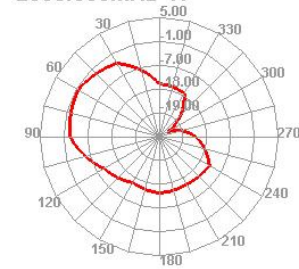
2450.000MHz H



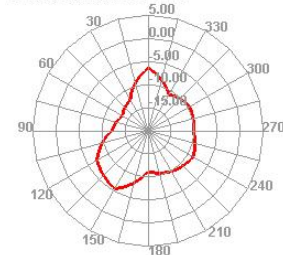
2500.000MHz



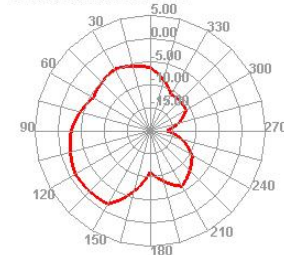
2500.000MHz H



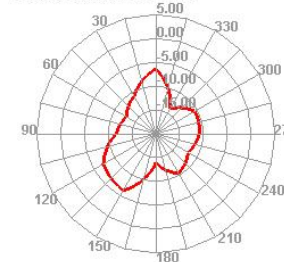
2450.000MHz E1



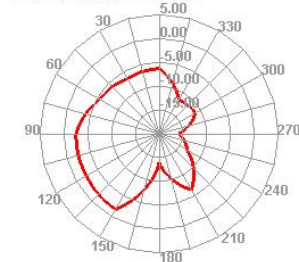
2450.000MHz E2



2500.000MHz E1



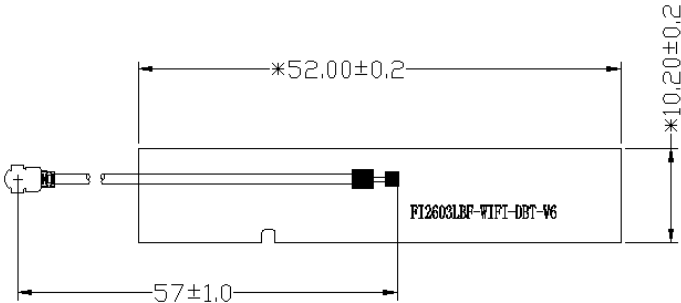
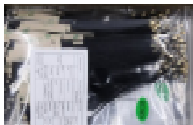
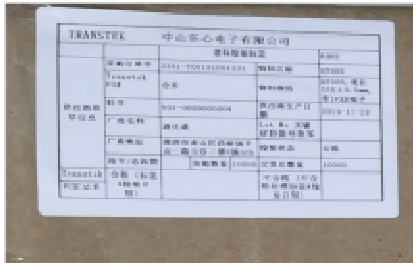
2500.000MHz E2



6.2)有源数据测试报告/Active data test report

		802.11b : 11Mbps		
Test Result	Wifi 2G TRP			
	1	6	11	
Frequency (MHz)	2412	2437	2462	
Txp Ave(dBm)	11.82	10.47	9.97	
Test Result	Wifi 2G TIS			
	1	6	11	
Frequency (MHz)	2412	2437	2462	
Sens Ave(dBm)	-84.91	-85.06	-85.21	
		802.11g : 54Mbps		
Test Result	Wifi 2G TRP			
	1	6	11	
Frequency (MHz)	2412	2437	2462	
Txp Ave(dBm)	11.45	12.96	10.02	
Test Result	Wifi 2G TIS			
	1	6	11	
Frequency (MHz)	2412	2437	2462	
Sens Ave(dBm)	-72.89	-72.22	-72.03	
		802.11n : MCS7		
Test Result	Wifi 2G TRP			
	1	6	11	
Frequency (MHz)	2412	2437	2462	
Txp Ave(dBm)	11.49	12.86	10.05	
Test Result	Wifi 2G TIS			
	1	6	11	
Frequency (MHz)	2412	2437	2462	
Sens Ave(dBm)	-70.21	-71.23	-70.31	

8.包装方式/Packing method

1. 单个产品 2D 图/2D drawing of the product		产品料号/ The product material number			
		产品名称 / Product name		FI2603LBF_ WIFI_ ANT	
		产品版本/ Product version		V6	
2. 箱内所有层堆放后的照片 /Photos of all stacked layers in the box		3. 整箱封箱后的照片/ Photo of the whole case after sealing			
				一包数量/ Number of full pages 200PCS	
		备注:每箱数量以实际为准, 左侧图片为参考, 按实物为准。 /Remarks: the quantity of each box shall be actual, the picture on the left side shall be for reference, and the actual goods shall be regarded as standard.			
4. 整包的图片/ A whole pack of photos		5. 整箱的箱表面贴的标签的照片/A photograph of the label on the surface of the entire case		储存条件:-10° 至 30° 之间, 湿度 70%RH 以下的室内。 /Storage conditions:between -10 ° to 30 ° , humidity 70% Rh below the indoor.	
					
注: 上图中的图片只用做包装标准示范, 不能用做最终资料审核。 /Note: the picture in the picture above is only used for packing standard demonstration, not for final data audit.					
确认者 /Confirmer	杨小平/ Yang Xiaoping		日期/Date	2026-6-26	