
SHENZHEN DIBITONG TELECOMMUNICATION TECHNOLOGY CO.,LTD.

WIFI/BT antenna
Product design and manufacturing specifications

◆ Customer:

◆ Project: D101

◆ Name: WIFI/BT Antenna

◆ Antenna materials: FPC+Cable

◆ Antenna Type: Integral Antenna

◆ Part no: N03.10.03.080

◆ Designer:

◆ Check:

◆ Approved:

Rm505, 8th building, Yungu 2nd period, pingshan No.1 Road, Xili Town, Nanshan District, ShenZhen , China

Te l: 86-755-83763273/13927478525

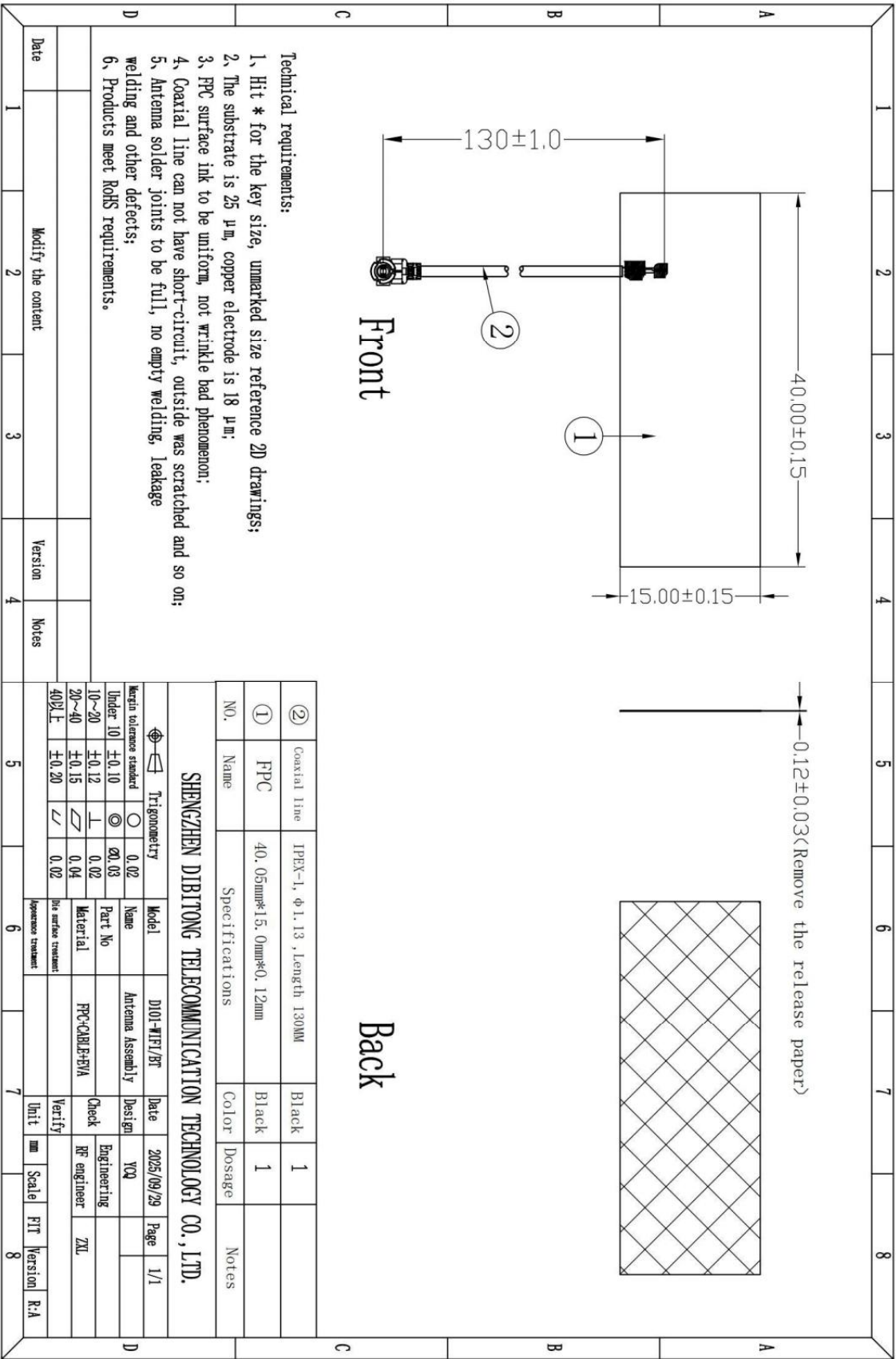
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Emai l: dbt1668@163.com

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1. Antenna 2D diagram

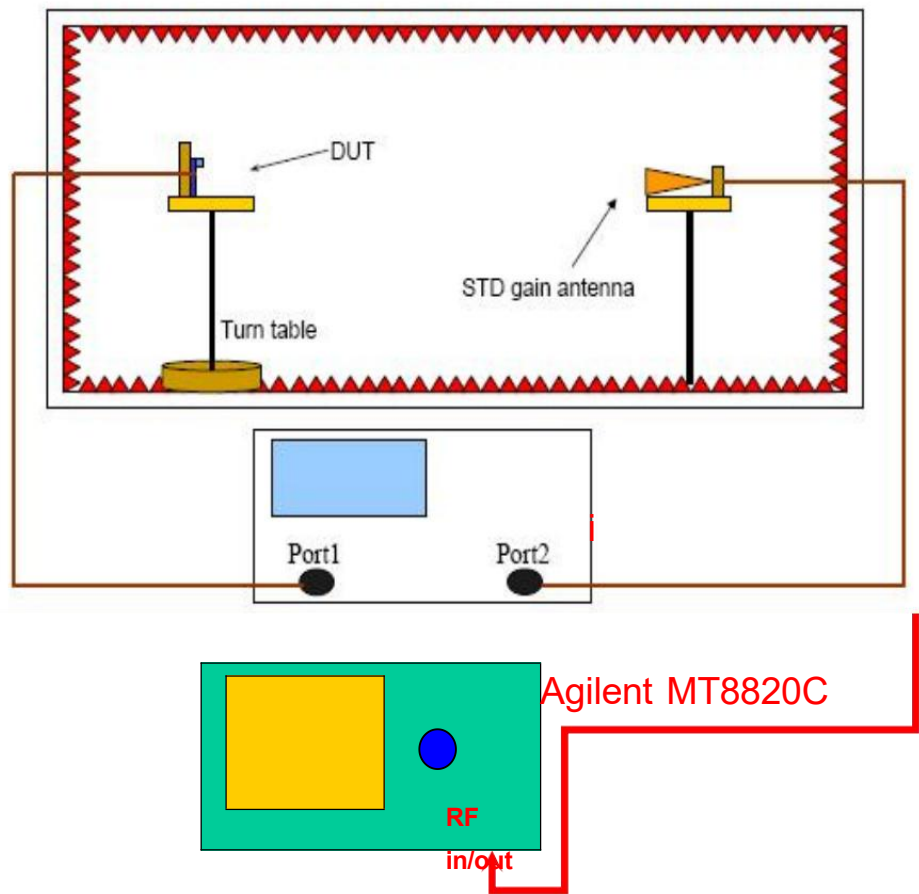


2. Technical target

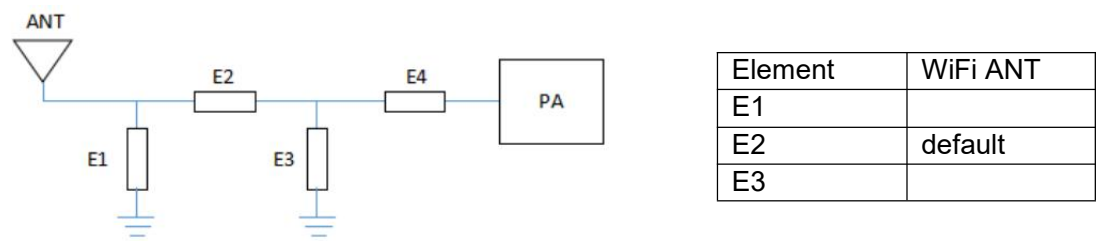
A. Electrical Parameter	
Frequency Range	2400~2500 MHz
VSWR	2400~2500 MHz: ≤ 2.0
Gain (Max)	2400~2500 MHz: 1.82 dBi
Average radiation efficiency	2400~2500 MHz : 46.2%
Input Impedance	50 ohm
B. Material	
FPC+Cable	
C. Environmental Science	
Working Temperature	- 30°C ~ + 85 °C
Storage temperature	- 30°C ~ + 85 °C

3.Dynamic test instructions - Antennas are placed in electronic scales

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



4. Matching Circuit



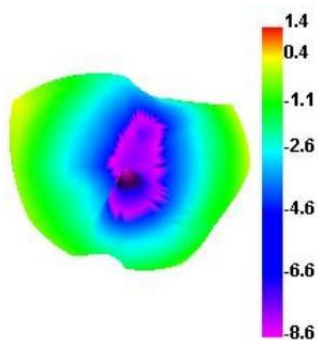
(The match has not changed)

5. Antenna test report

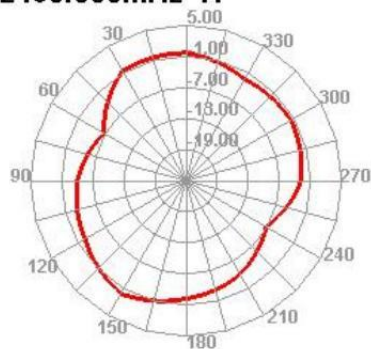
5. 1) Passive Efficiency/Gain/Pattern

Freq (MHz)	Effi (%)	Gain (dBi)
2400	39.51	-0.36
2410	40.25	-0.21
2420	44.68	0.51
2430	46.19	0.65
2440	48.86	0.9
2450	47.15	0.99
2460	48.41	1.37
2470	49.34	1.58
2480	50.82	1.82
2490	44.71	1.16
2500	48.75	1.57

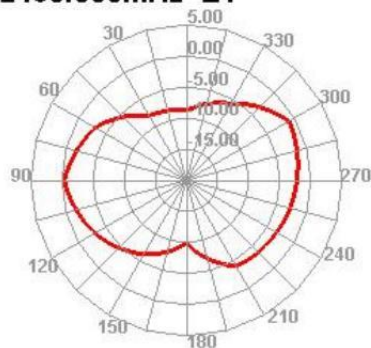
2460.000MHz



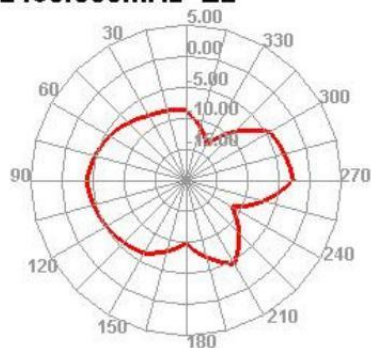
2460.000MHz H



2460.000MHz E1



2460.000MHz E2



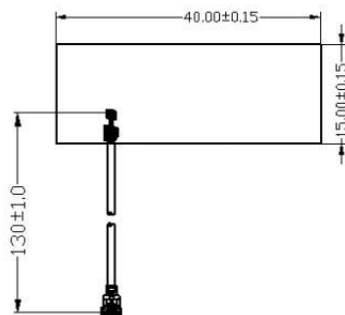
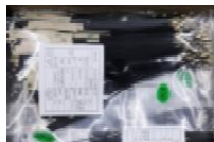
5.2)ant OTA test

802.11b : 11Mbps			
Test	Wifi 2G TRP		
Result	1	6	11
Frequency (MHz)	2412	2437	2462
Txp Ave(dBm)	14.41	13.54	12.82
Test	Wifi 2G TIS		
Result	1	6	11
Frequency (MHz)	2412	2437	2462
Sens Ave(dBm)	-85.56	-84.39	-85.24

802.11g : 54Mbps			
Test	Wifi 2G TRP		
Result	1	6	11
Frequency (MHz)	2412	2437	2462
Txp Ave(dBm)	14.17	13.72	12.96
Test	Wifi 2G TIS		
Result	1	6	11
Frequency (MHz)	2412	2437	2462
Sens Ave(dBm)	-72.03	-71.35	-71.16

802.11n : MCS7			
Test	Wifi 2G TRP		
Result	1	6	11
Frequency (MHz)	2412	2437	2462
Txp Ave(dBm)	13.99	13.37	13.79
Test	Wifi 2G TIS		
Result	1	6	11
Frequency (MHz)	2412	2437	2462
Sens Ave(dBm)	-68.51	-66.99	-68.11

6.Packing method

1.2D drawing of the product		The product material number	N03.10.03.080	
		Product name	D101-WIFI/BT	
		Product version	V1	
2.Photos of all stacked layers in the box	3. Photo of the whole case after sealing			
			Number of full pages 200PCS	
		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. A whole pack of photos	5.A photograph of the label on the surface of the entire case			
			Storage conditions:between-10 ° to 30 ° , humidity 70% Rh below the indoor.	
Note: the picture in the picture above is only used for packing standard demonstration, not for final data audit.				
Confirmer	Yang Xiaoping		Date	2025-9-29