

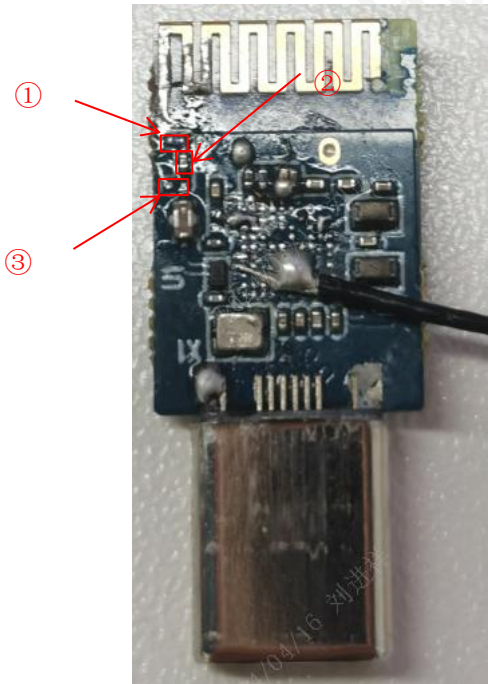
ANTENNA SPECIFICATION

product	BT501
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Summary

ITEM	SPEC.
Model Name	BT 2.4 GHz
MAX. GAIN	0.28dBi
Polarization	Horizontal
Impedance	50 Ω
Antenna Type	PCB Onboard antenna
Manufacturer	

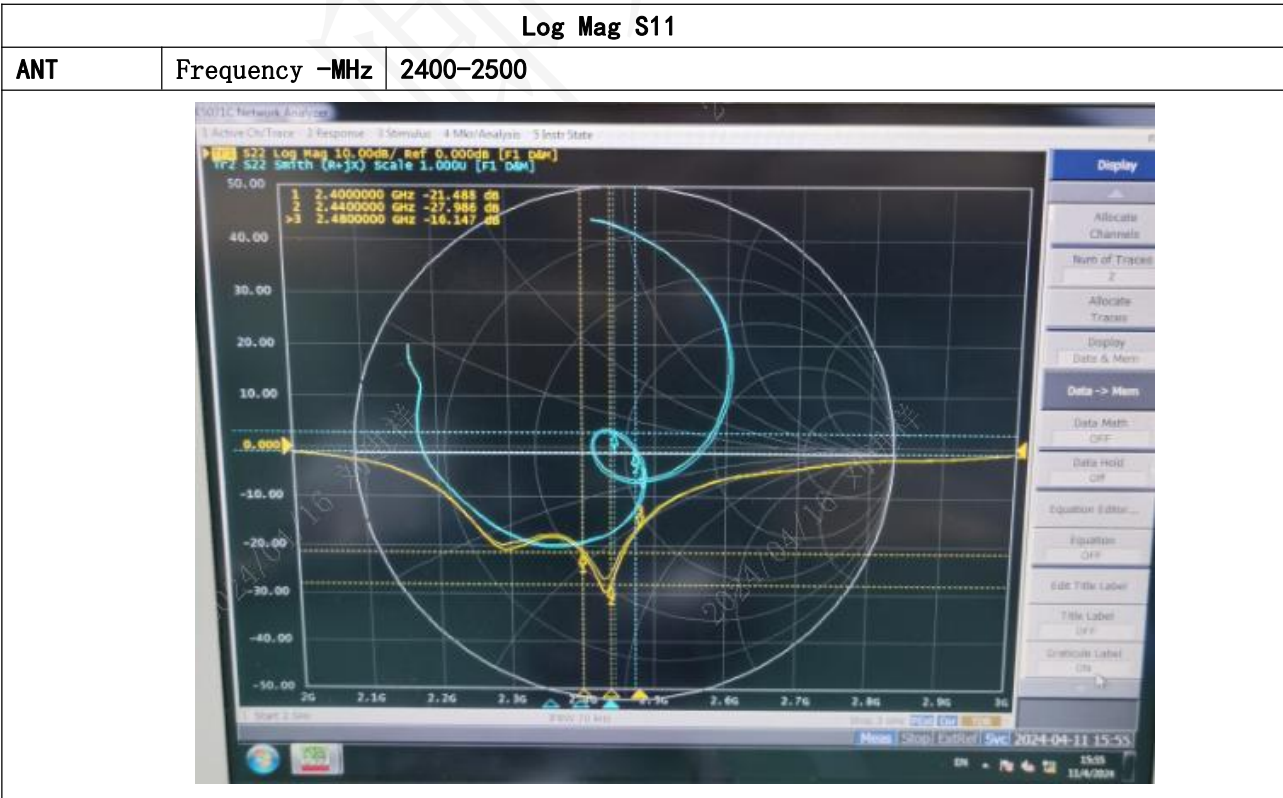
Antenna Photo & Length (mm)

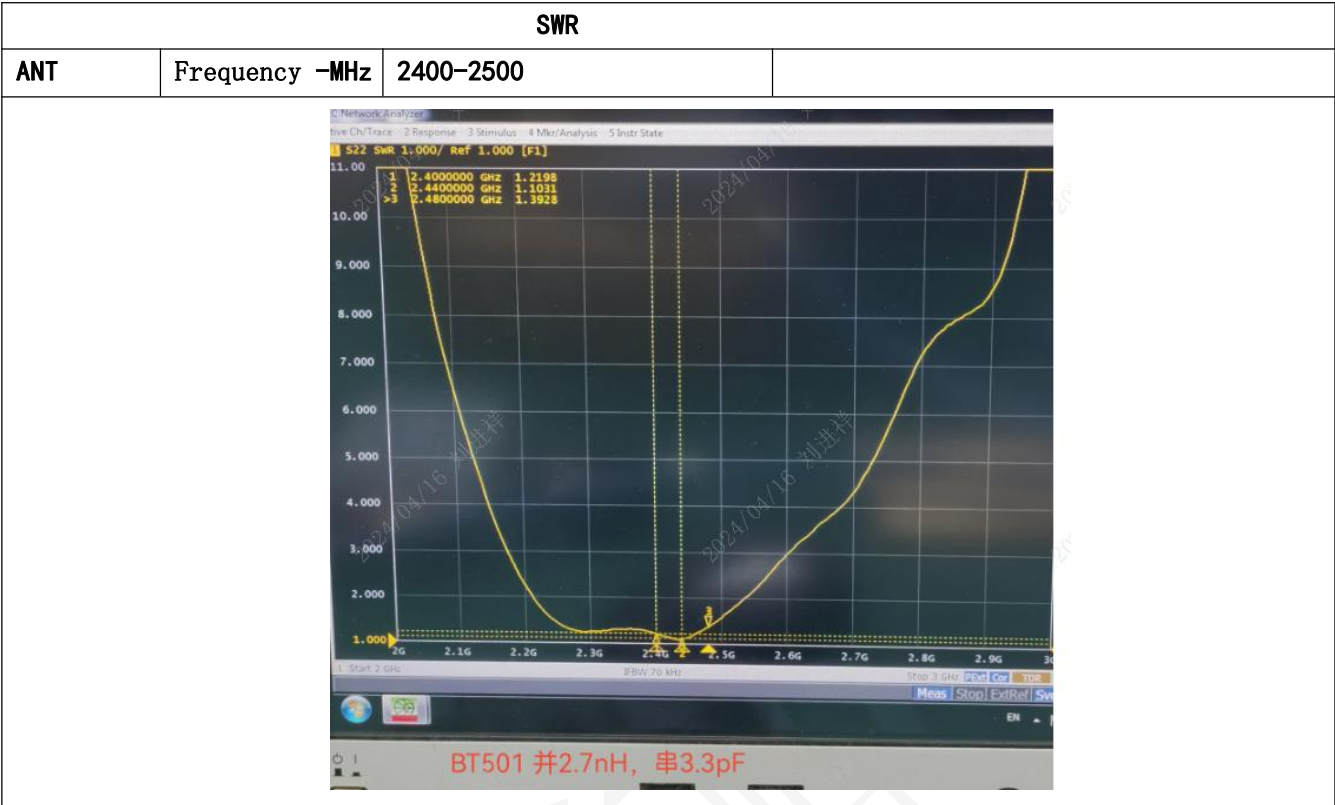


Tag number	①	②	③
numerical	2.7nH	3.3pF	NC

Electrical performance test results

Antenna indicators						
No.	Requirements for	Unit	Performance indicator requirements	Inspection results		Judgment
1	Frequency range	MHz	2412-2483	2400-2483		OK
2	Gain	dBi	/	2400	0.26	
				2440	0.28	
				2480	0.09	
4	Return loss	dB	≤ -10	2400	-21.48	
				2440	-27.98	
				2480	-16.14	
4	Standing wave ratio	dB	/	2400	1.21	
				2440	1.10	
				2480	1.39	



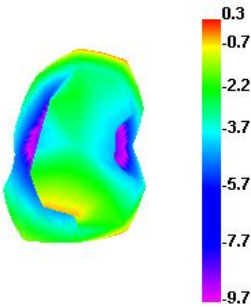


Radiation parameter testing

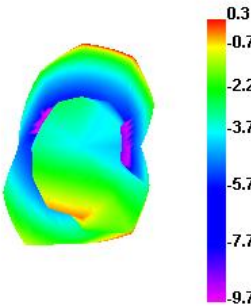
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Radiation pattern (2.4G)

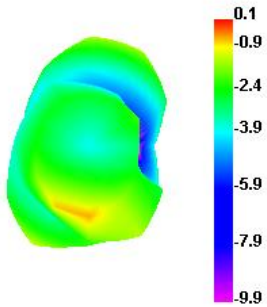
2400.000MHz



2440.000MHz

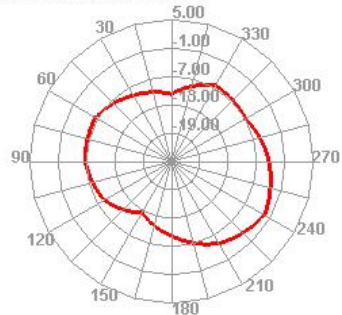


2480.000MHz

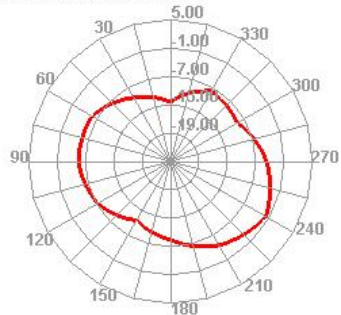


horizontal plane

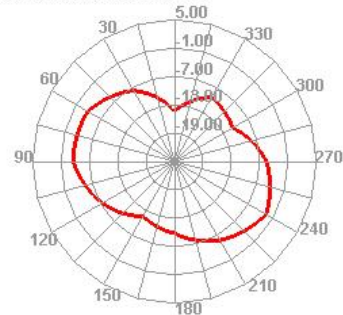
2400.000MHz H



2440.000MHz H

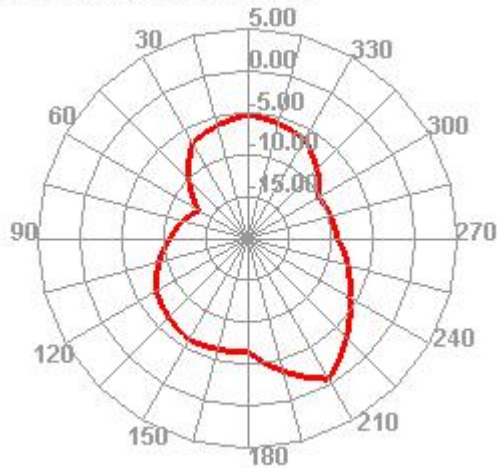


2480.000MHz H

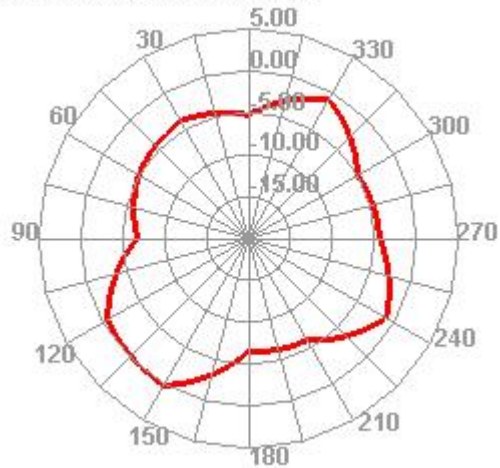


Vertical plane

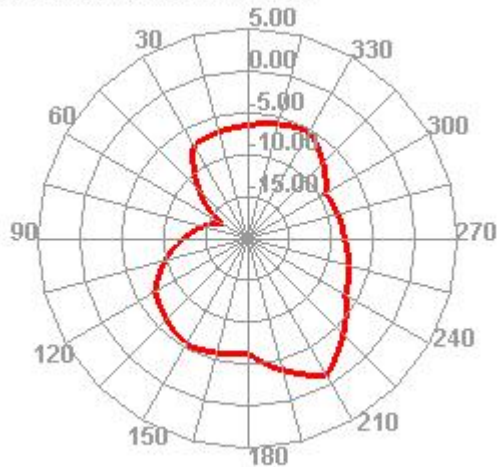
2400.000MHz E1



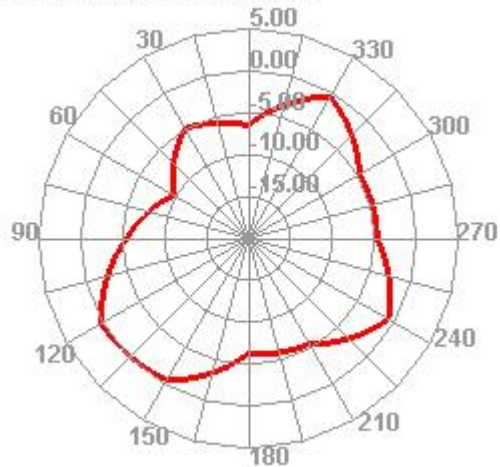
2400.000MHz E2

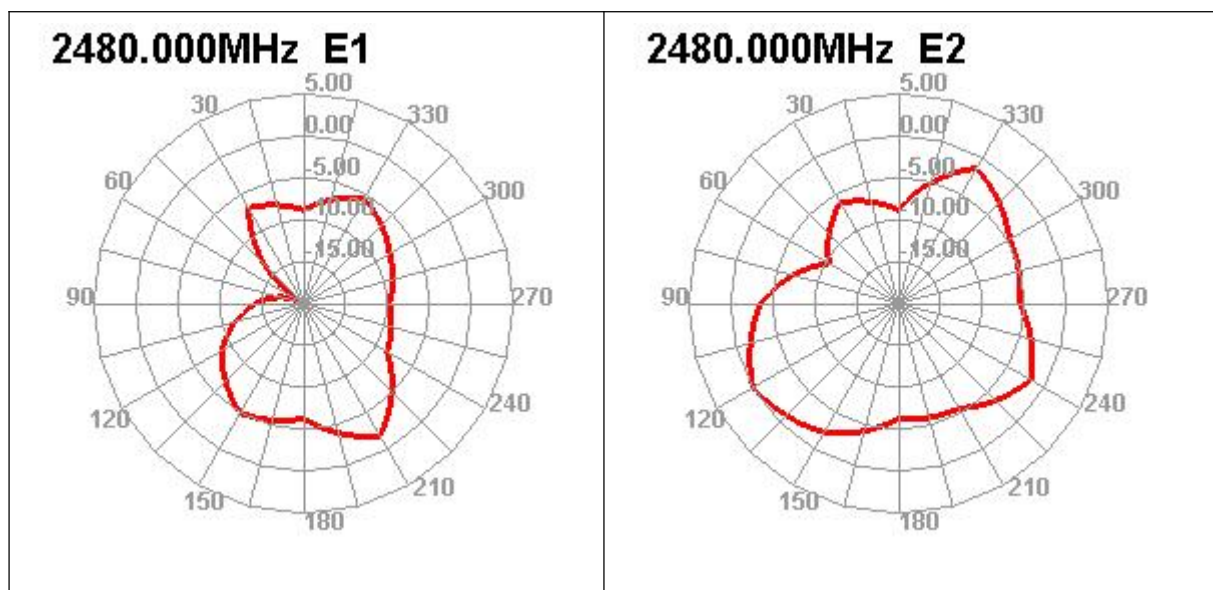


2440.000MHz E1



2440.000MHz E2





Passive efficiency of antenna		
Frequency	E Total. dB(dBi)	Efficiency(%)
2400MHz	0.26	35.27
2410MHz	-0.09	33.38
2420MHz	0	34.44
2430MHz	0.12	34.14
2440MHz	0.28	35.38
2450MHz	0.02	33.01
2460MHz	-0.15	31.38
2470MHz	-0.21	29.95
2480MHz	0.09	31.56
2490MHz	0.62	34.58
2500MHz	0.97	36.43