

Dongguan Chuangxin Microelectronics
Technology Co., LTD

acknowledgement

Customer Name: Yongle Times

Product name: 2.4G onboard antenna

Customer Part Number: A06

Core micromaterial number: YL-A047-Hybrid-JL-V1.2

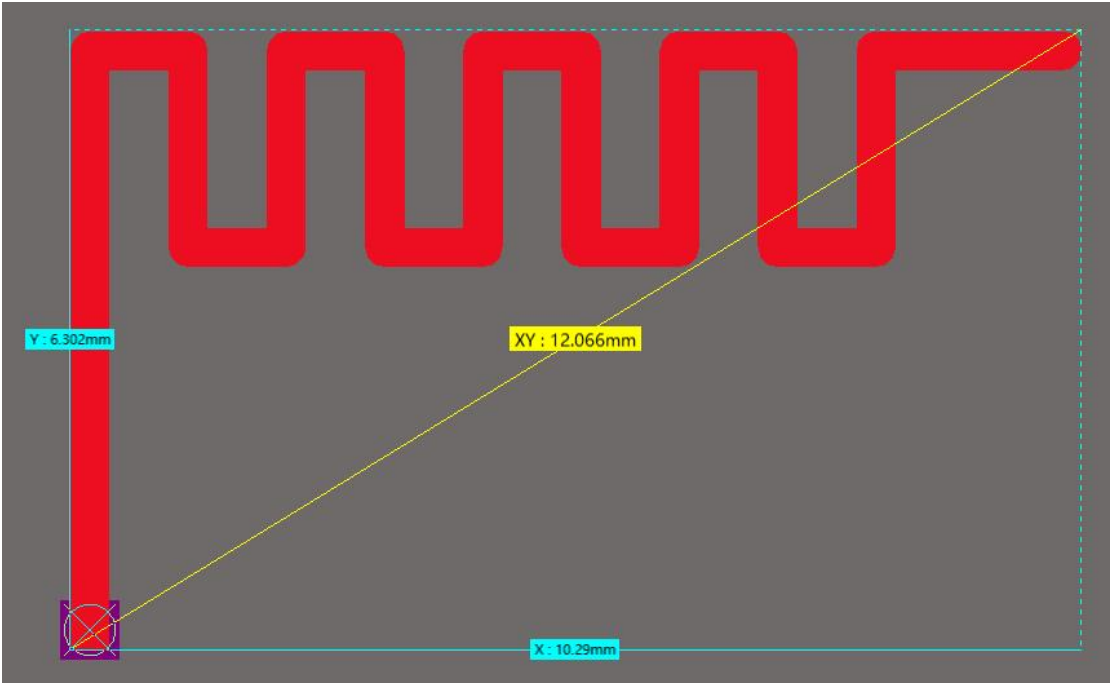
	supplier	client
make:	Zhang hongda	
check:	Peng junfa	
Date:	2024/1/3	

1. Specification sheet

Product main technical parameters

Frequency range (Mhz)	2400–2500
Characteristic impedance (Ω)	50
gain (dBi)	0.54
Output voltage standing wave ratio	≤2.6
Polarization mode	Linear polarization

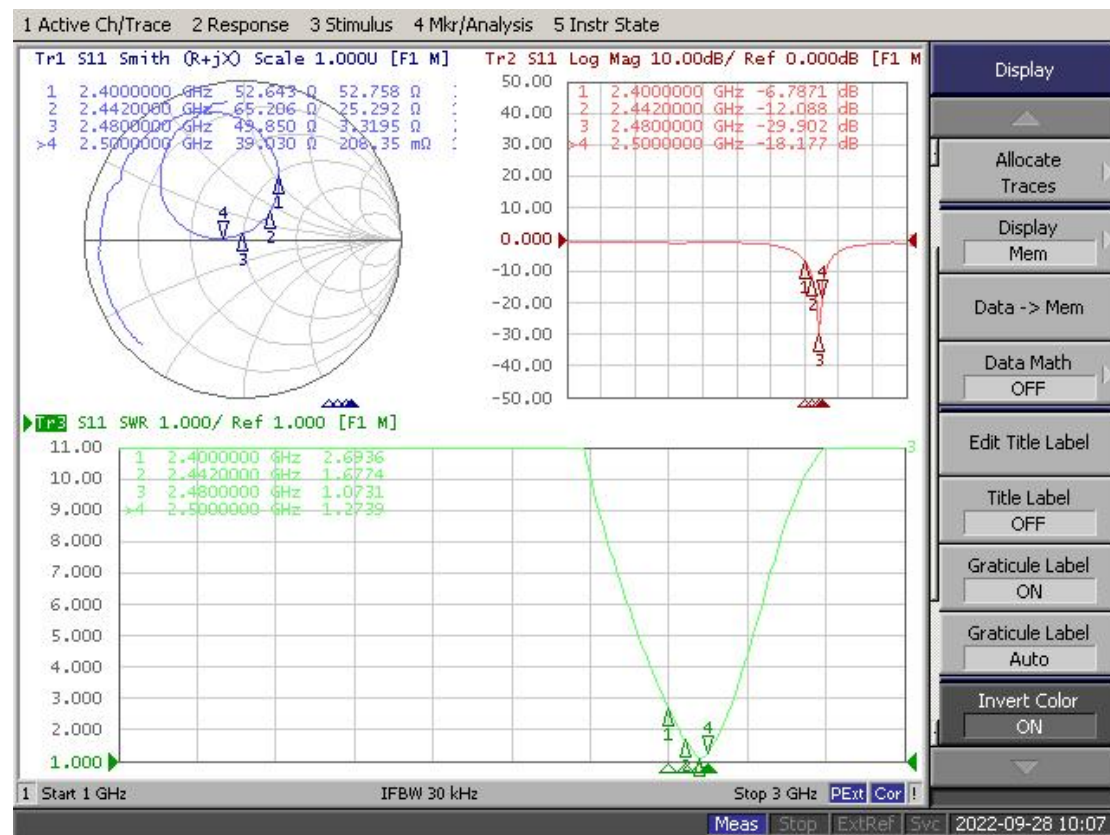
2. Dimension drawing



Dimension: 6.3mm*10.29

3. Test report

3.1: Network analyzer test report



3.2: Darkroom 2D, 3D machine data

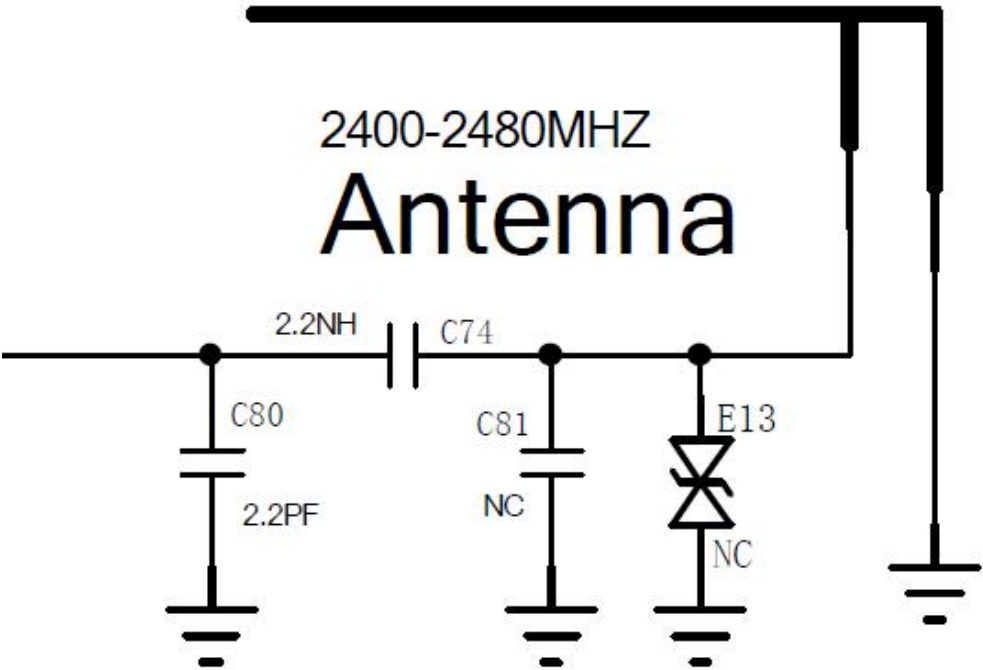
3.2.1 Efficiency and gain

Frequency (MHz)	2400	2450	2500
Avg. Gain (dBi)	-1.29	-0.01	0.54
Efficiency (%)	39.72	46.4	53.26

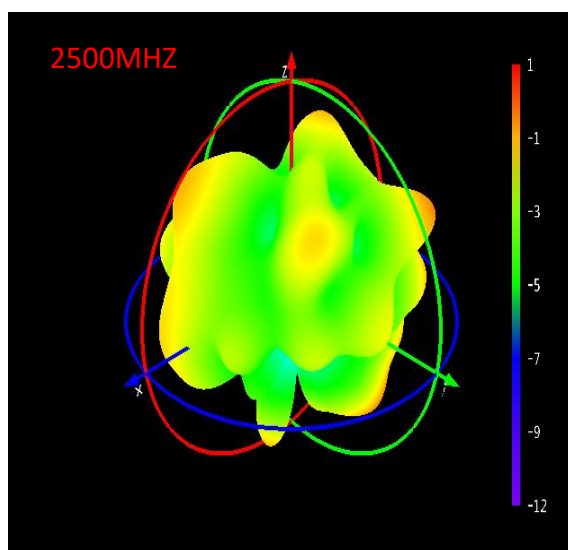
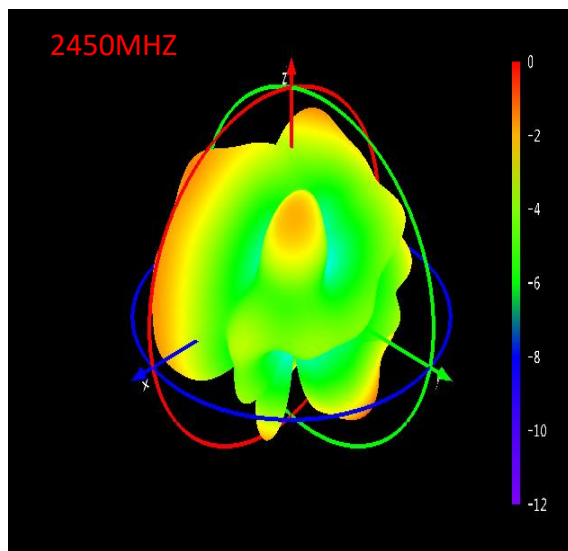
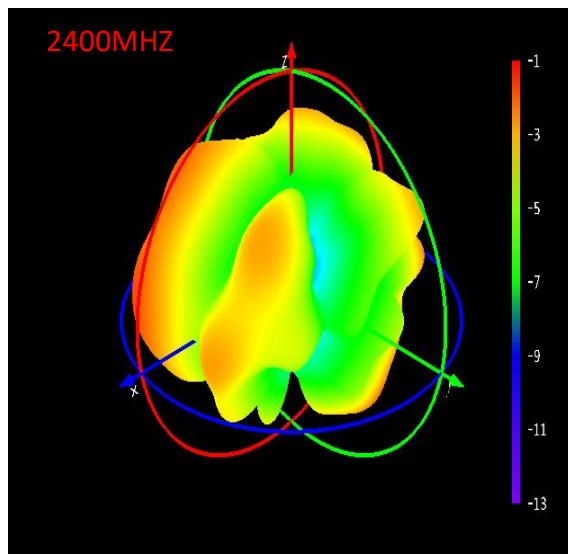
3.2.2 Active test report

Headphones				
	Head mold		freedom	
channel	TRP	TIS	TRP	TIS
0	4.24	-87.19	5.02	-87.94
39	6.32	-90.89	7.02	-92
78	6.88	-90.76	7.65	-91.45

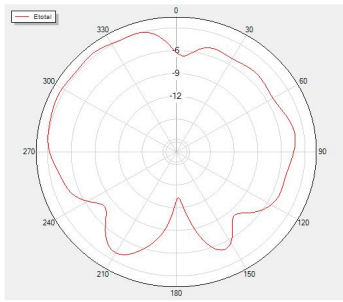
3.2.3 Matching circuit



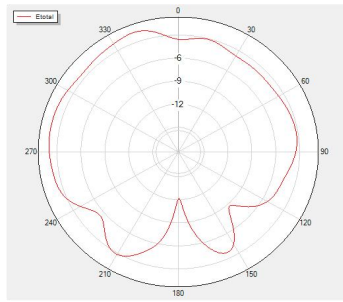
3.2.4 2D/3D Field pattern diagram



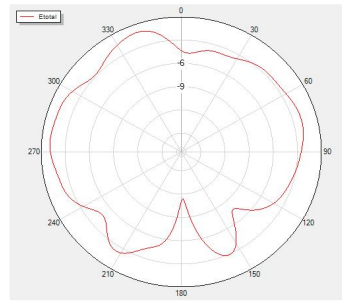
Phi=0 Freq=2400MHz



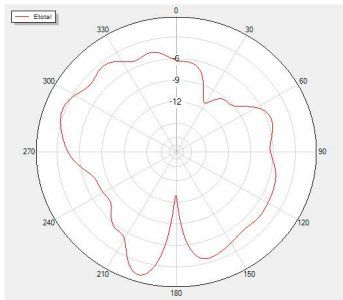
Phi=0 Freq=2450MHz



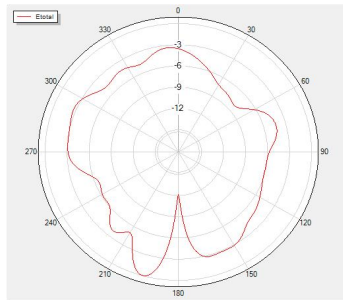
Phi=0 Freq=2500MHz



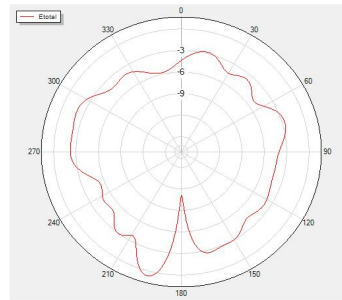
Phi=90 Freq=2400MHz



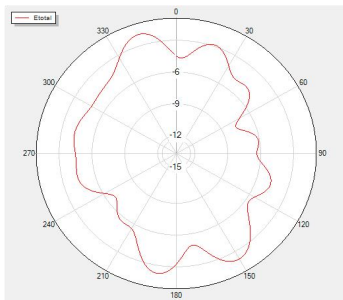
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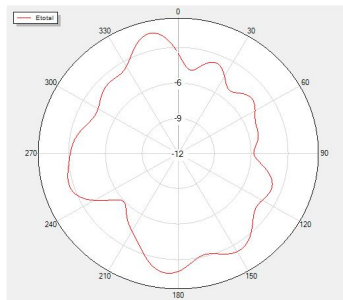
Phi=90 Freq=2500MHz



Theta=90 Freq=2400MHz



Theta=90 Freq=2450MHz



Theta=90 Freq=2500MHz

