

# Dongguan ChuangXinWei Technology Co., LTD

Customer name: YL  
Product name: 2.4G Onboard antenna  
No: A06  
Chungxinwei No: YL-A06-Hybrid-JL-V1.1

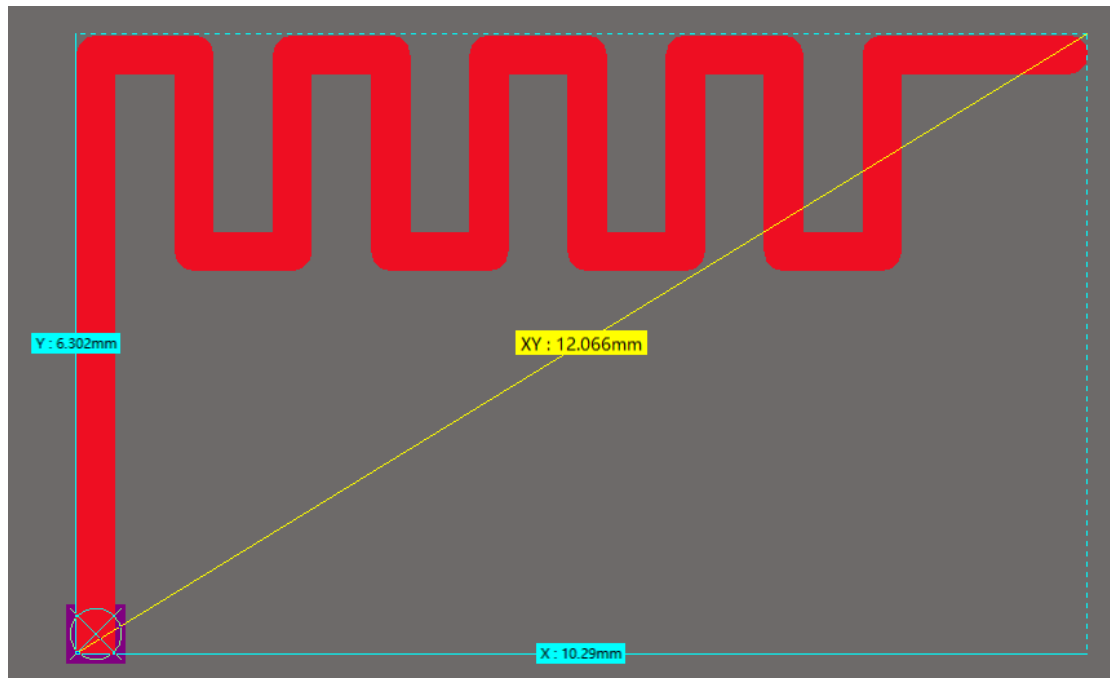
	supplier	client
Made:	Zhang hongda	
examine:	Pengjunfa	
Date:	2023/9/20	

## 1. Specification sheet

Product main technical parameters

Frequency range (Mhz)	2400-2500
Characteristic impedance ( $\Omega$ )	50
Antenna gain (dBi)	0.54
Output voltage standing wave ratio	$\leq 2.6$
Polarization mode	Linear polarization

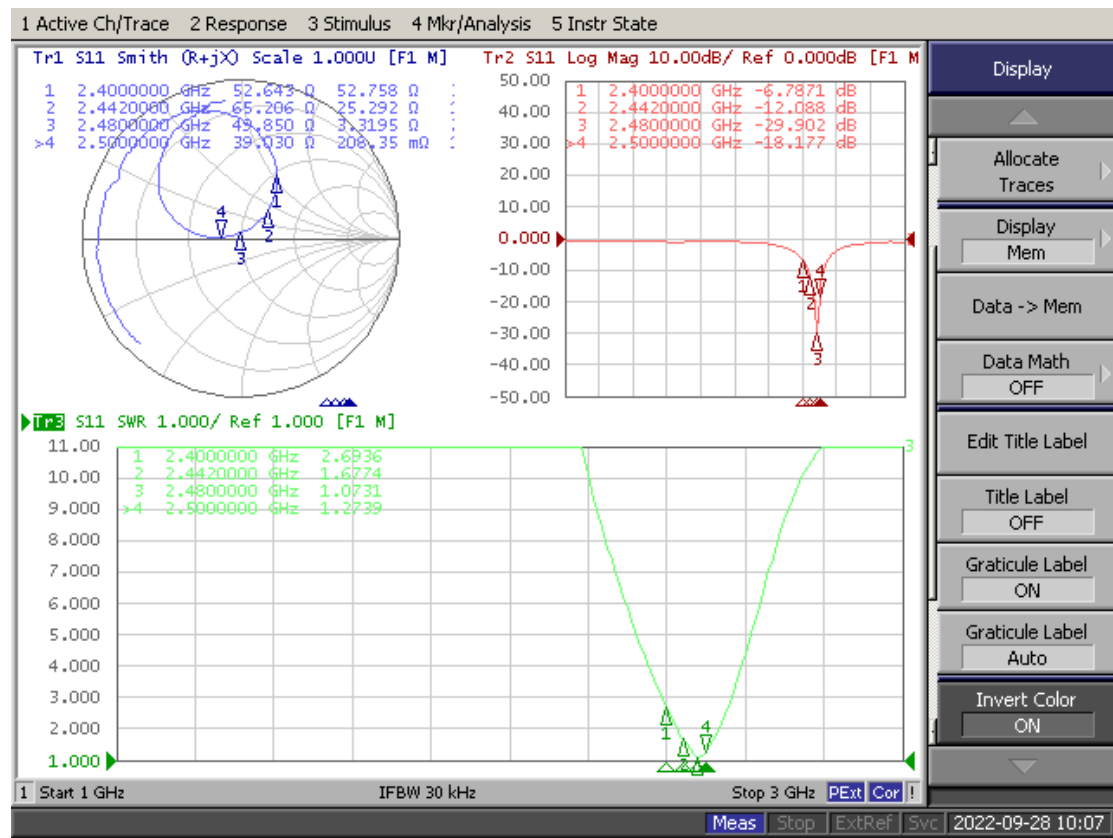
## 2. Dimension drawing



Size: 6.3mm\*10.29

### 3. Test report

#### 3.1: Network analyzer test report



#### 3.2: Darkroom 2D, 3D machine data

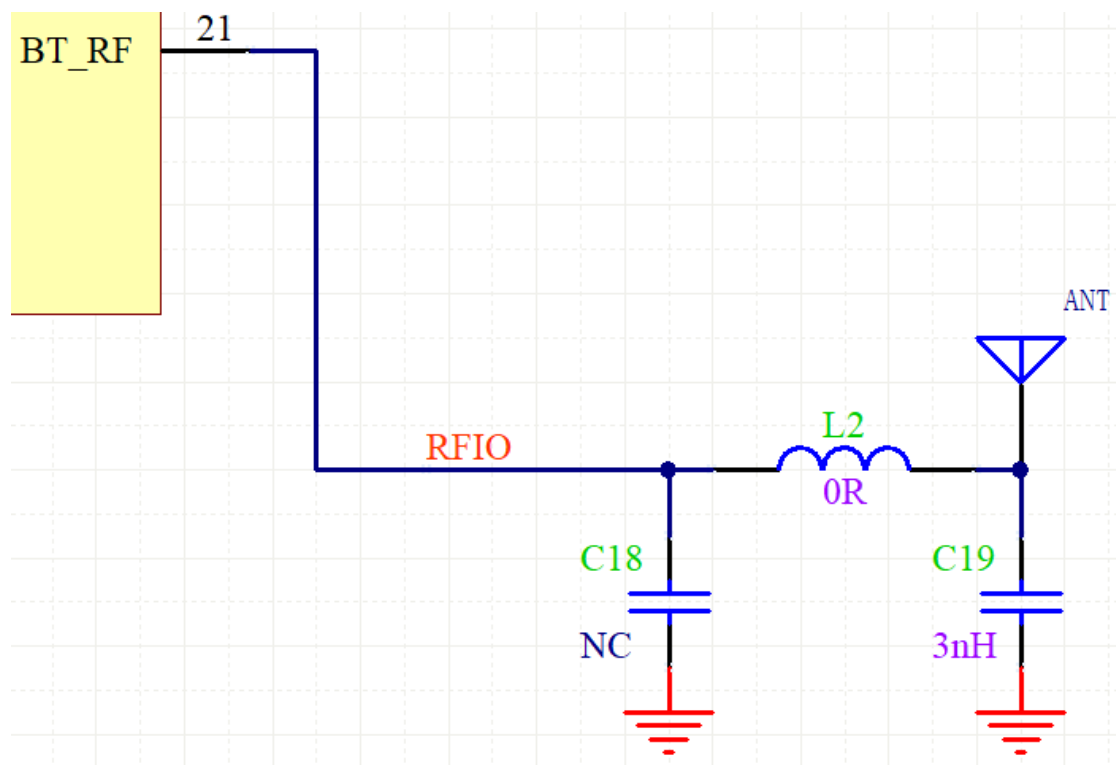
##### 3.2.1 Efficiency and antenna gain

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

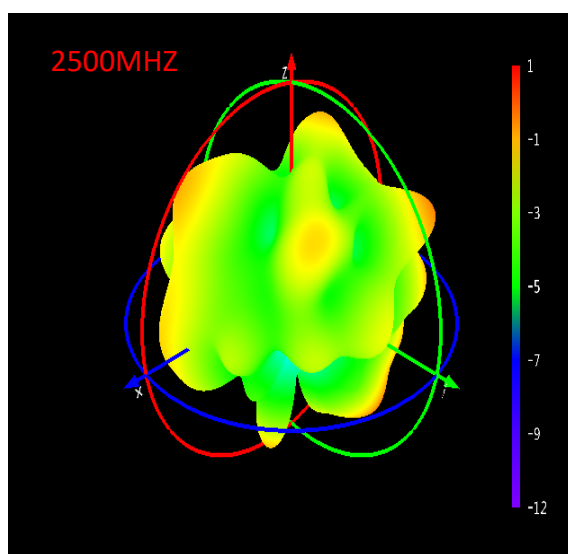
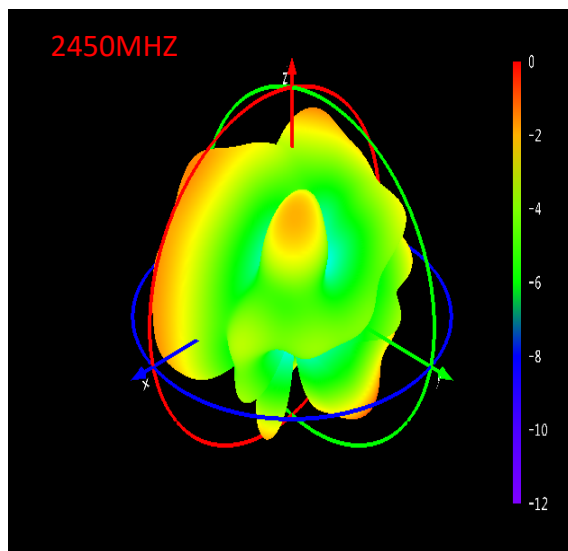
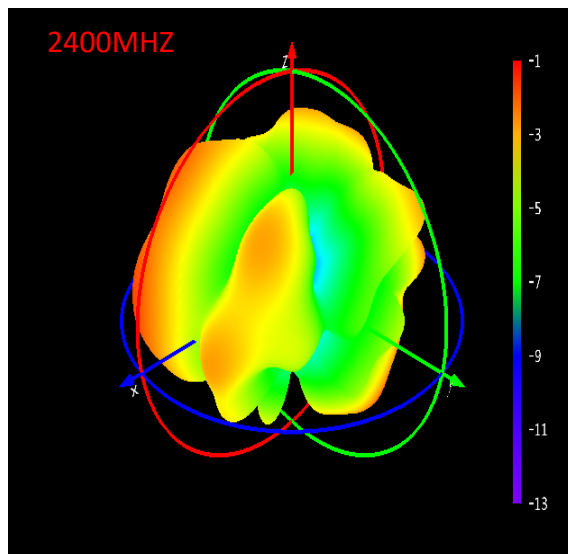
### 3.2.2 Active test report

Headphones				
	wear		Free	
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

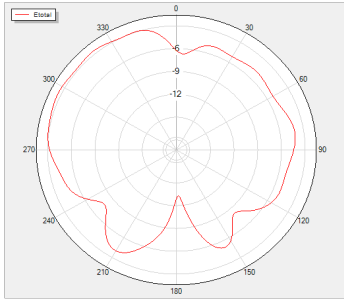
### 3.2.3 Matching circuit



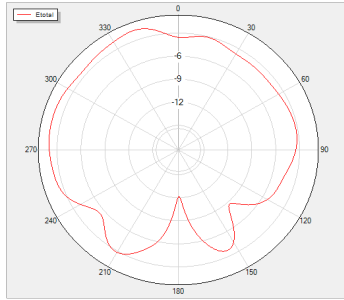
### 3.2.4 2D/3D Antenna field pattern diagram



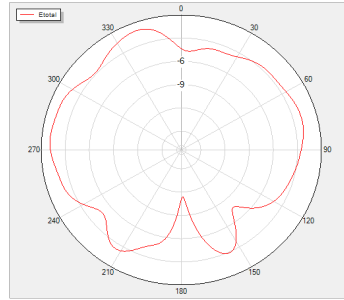
**Phi=0 Freq=2400MHz**



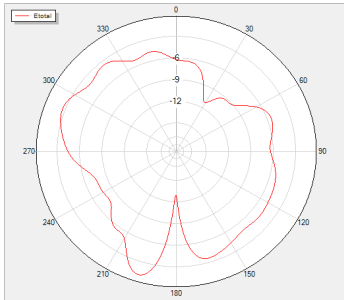
**Phi=0 Freq=2450MHz**



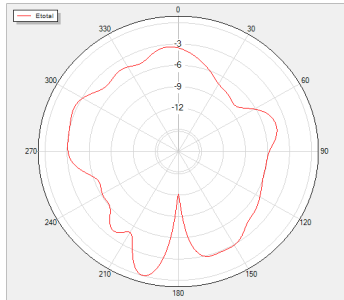
**Phi=0 Freq=2500MHz**



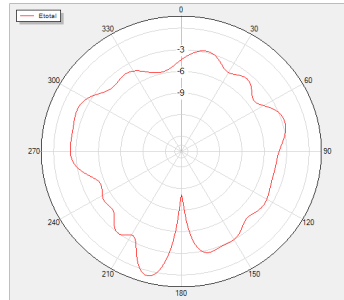
**Phi=90 Freq=2400MHz**



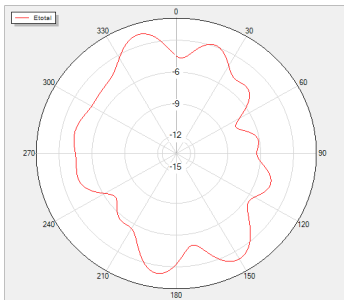
**Phi=90 Freq=2450MHz**



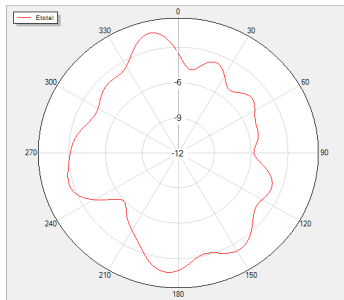
**Phi=90 Freq=2500MHz**



**Theta=90 Freq=2400MHz**



**Theta=90 Freq=2450MHz**



**Theta=90 Freq=2500MHz**

