

Dongguan Chuangxin Microelectronics
Technology Co., LTD

acknowledgement

Customer Name: Card energy Electronics

Product name: 2.4G onboard antenna

Customer Part number: ANC C50

Chuangxin micromaterial number: KN-ANC C50-V3.0

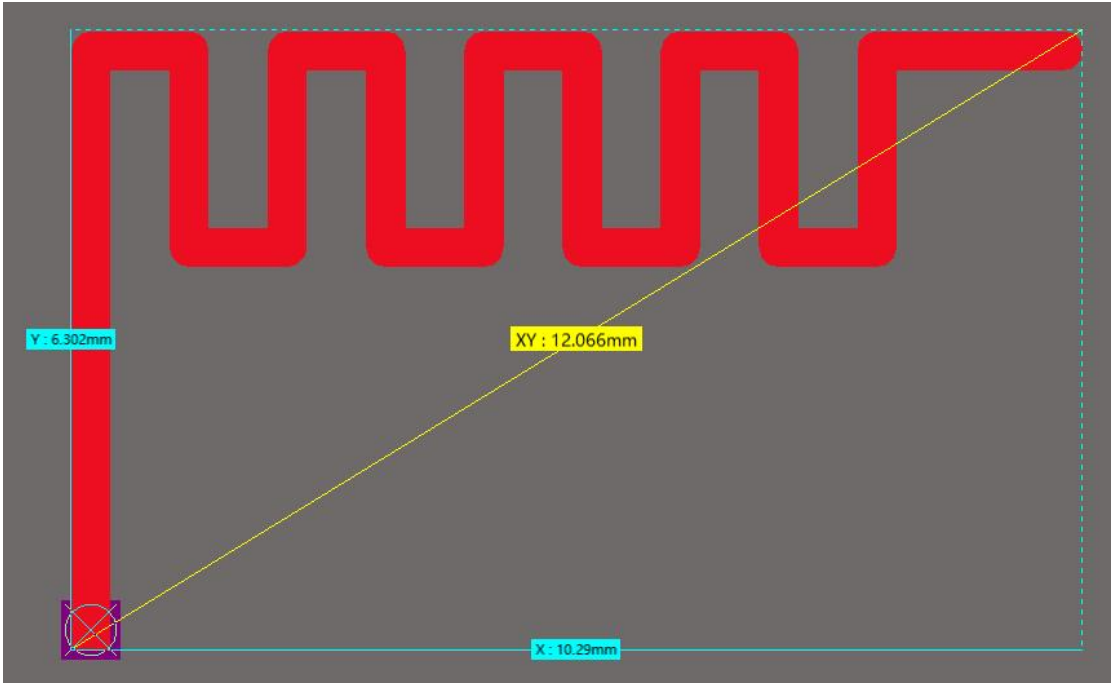
	supplier	client
manufacture:	Zhang Hongda	
examine:	Peng Junfa	
date:	2023/11/15	

1.Specification sheet

Product main technical parameters

Frequency range (Mhz)	2400–2500
Characteristic impedance (Ω)	50
gain (dBi)	2.84
Output voltage standing wave ratio	≤2.0
Polarization mode	Linear polarization

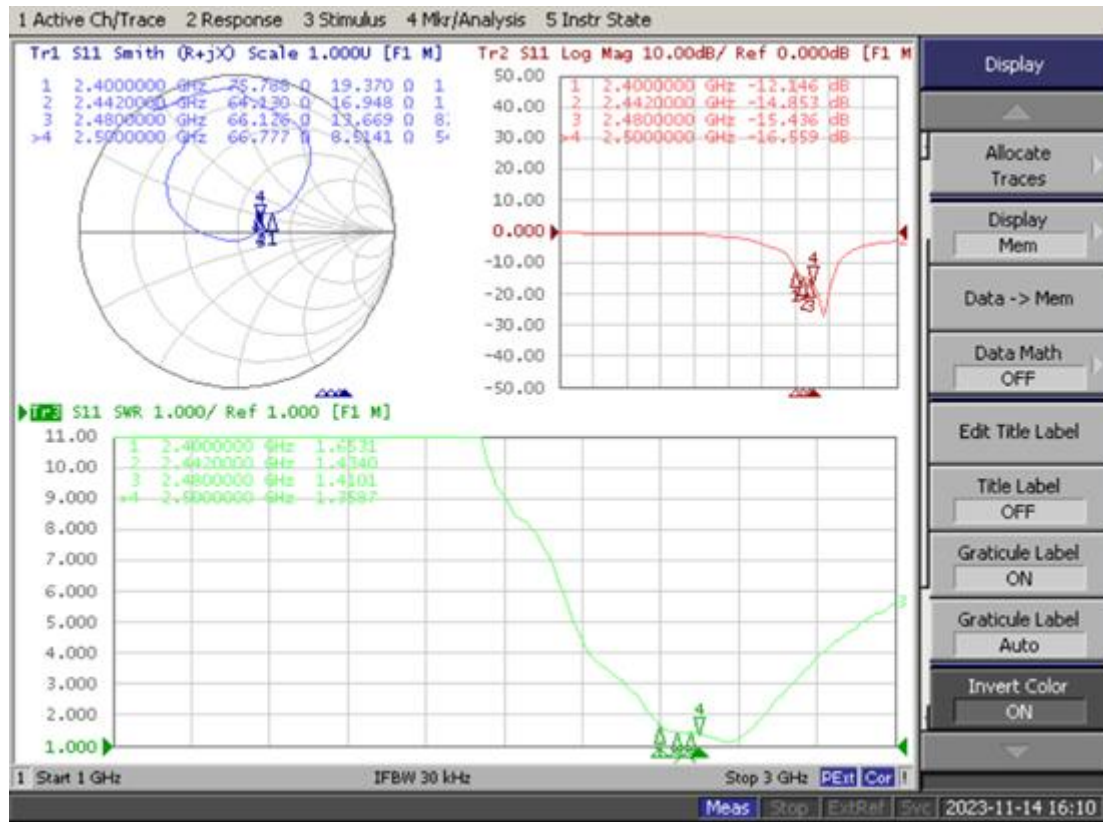
2.Dimension drawing



dimension: 6.3mm*10.29

3.Test report (Prototype test report only)

3.1: Network analyzer test report



3.2: Darkroom 2D, 3D machine data

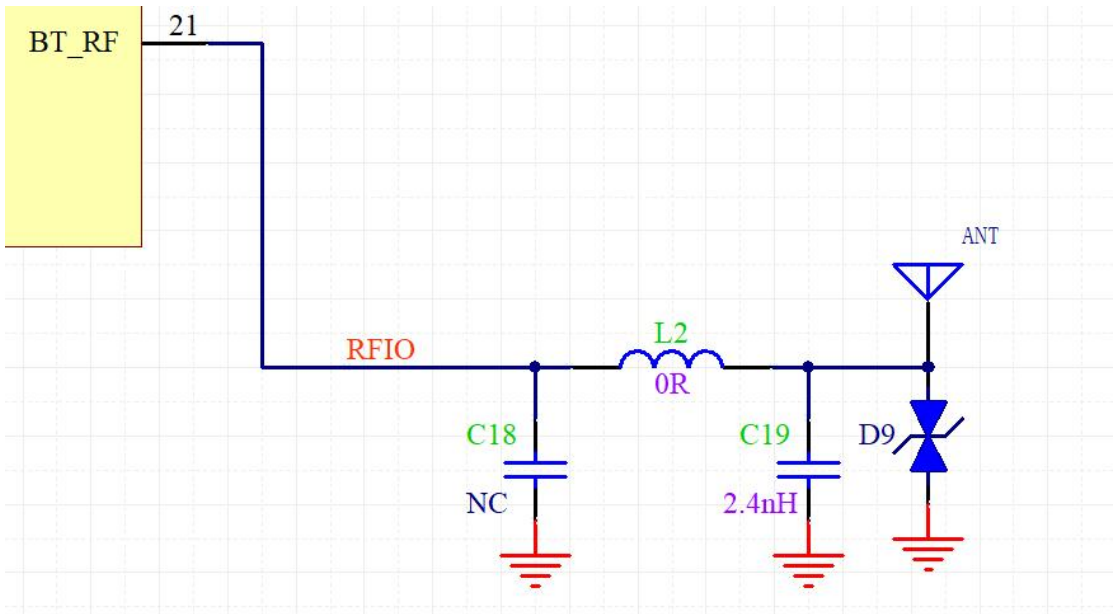
3.2.1Efficiency and gain

Frequency (MHz)	2400	2450	2500
Avg. Gain (dBi)	2.84	2.08	1.67
Efficiency (%)	47.54	48	48.34

3.2.2Active test report

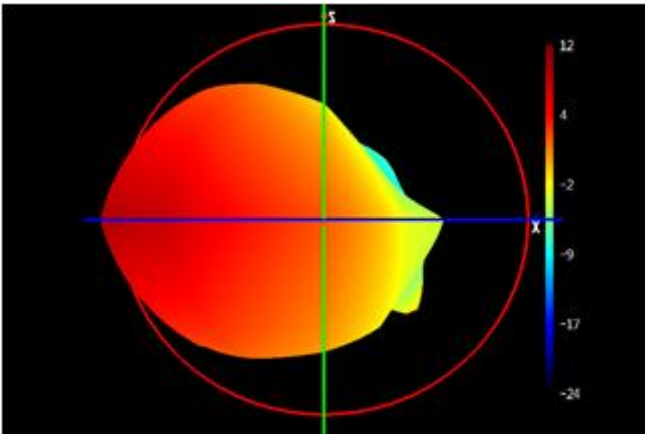
Headphones				
	Head mold		liberty	
channel	TRP	TIS	TRP	TIS
0	5.43	-91.19	6.12	-91.88
39	5.39	-92.39	6.17	-93.35
78	4.95	-91.89	6.06	-92.95

3.2.3Matching circuit

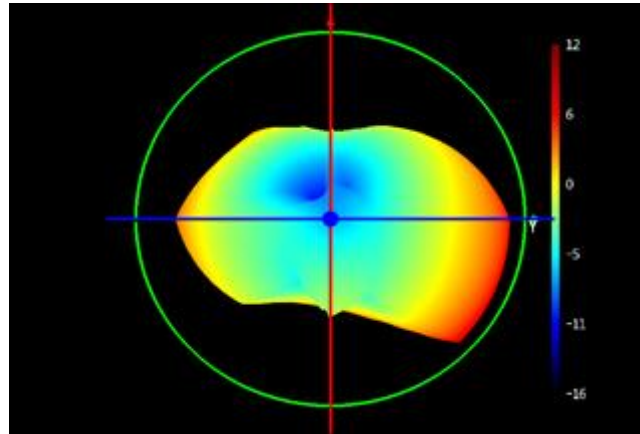


3.2.4 2D/3D Field pattern diagram

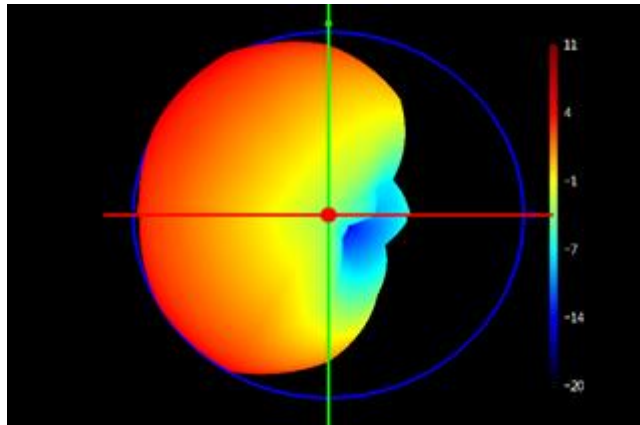
2400MHZ



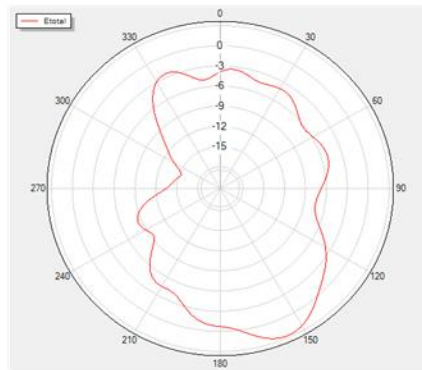
2450MHZ



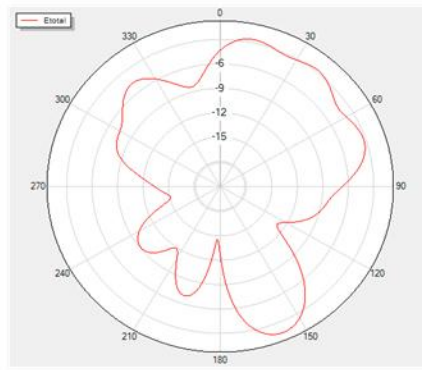
2500MHZ



Theta=90 Freq=2400MHz



Phi=90 Freq=2400MHz



Phi=0 Freq=2400MHz

