

# SPECIFICATION FOR APPROVAL

CUST OMER: Shenzhen Ai-Thinker Technology Co., LtdCUS PART NO: TB-05PART NAME: 2.4G AntennaEdition: 1.0

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## Directory

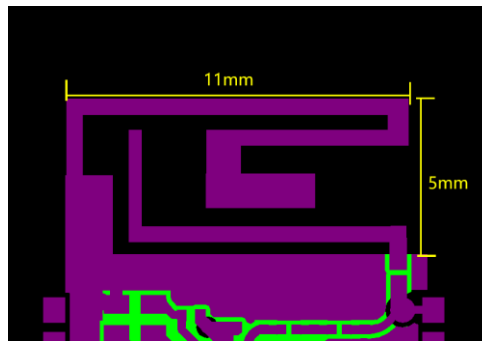
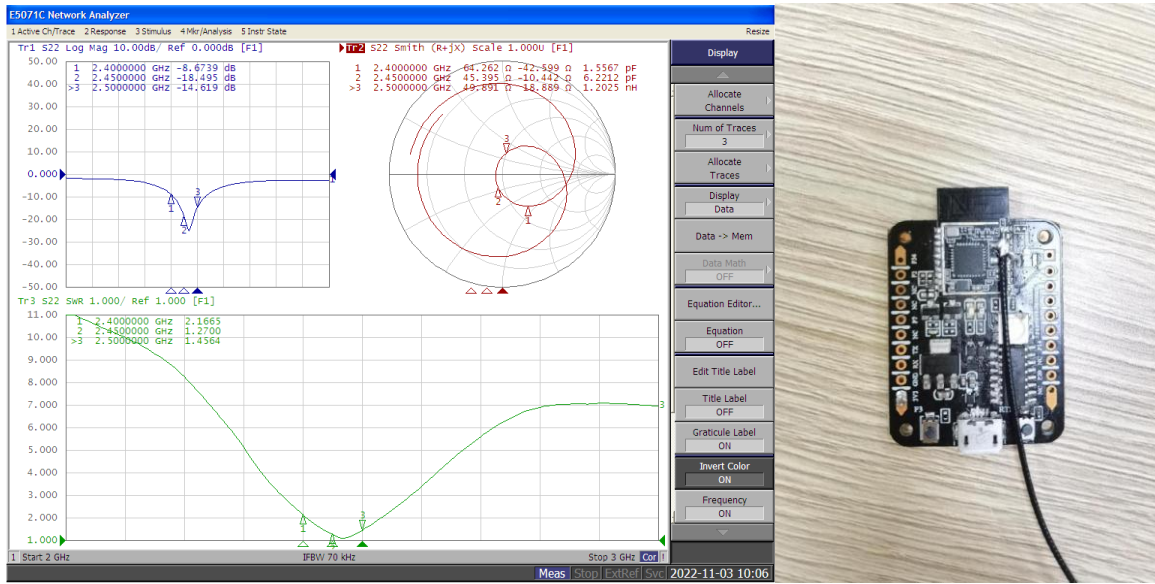
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# Product specification

## 1、Performance parameter

Name	<u>2.4G Antenna</u>
Model Type	PCB Print Antenna
ELECTRICAL SPECTFICATIONS	
Frenquency Range	2400-2500MHz
Band Width	100MHz
Impedance	50Ω
VSWR	< 2.2
Max Gain	1.64dBi
Polarization	Vertical/Horizontal
Radiation	Omnidirectional
Power	50 W
MECHANICAL SPECTFICATIONS	
Connector	Welding type
Working Temperature	-40℃ - + 85℃
Limit Temperature	-40℃ - + 125℃

## 2、VSWR



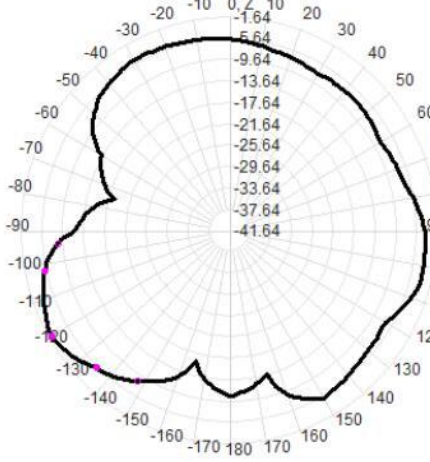
## 3、Passive test data:

Frequency (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Gain (dBi)	0.11	0.19	0.53	0.66	0.90	1.31	1.52	1.60	1.64	1.51	1.28
Efficiency (%)	27.64	28.55	31.13	32.06	33.47	36.26	36.85	37.13	36.93	36.74	35.69

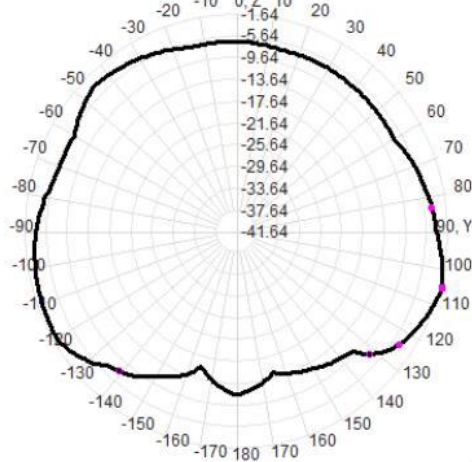
#### 4、Radiation pattern

2400MHz

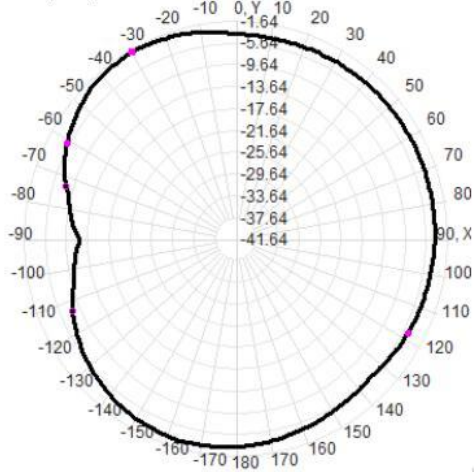
2400.0MHz Total(E1-XZ), Max=-2.24dBi



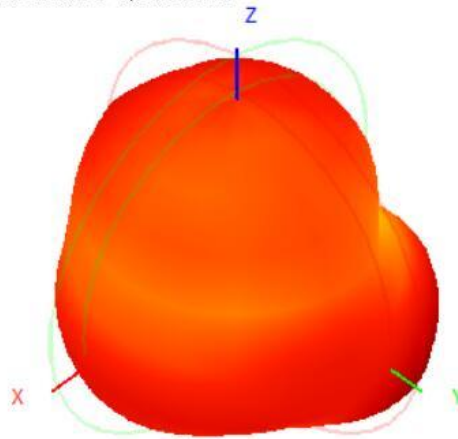
2400.0MHz Total(E2-YZ), Max=-1.64dBi



Total(H-XY), Max=-2.08dBi, CirD=10.07

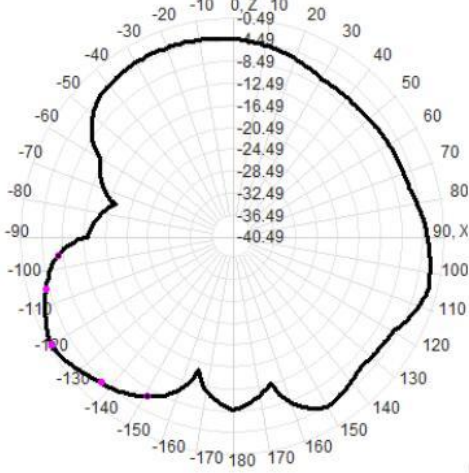


2400.0MHz H+V, Eff. 27.6%

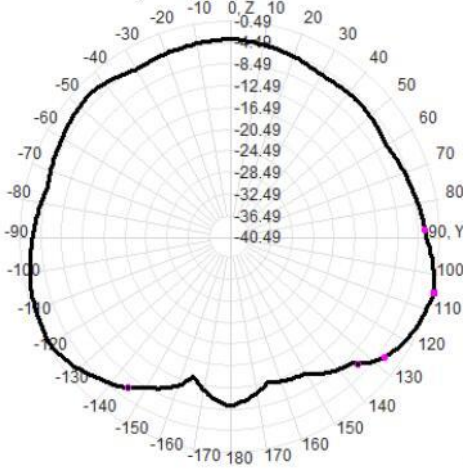


2450MHz

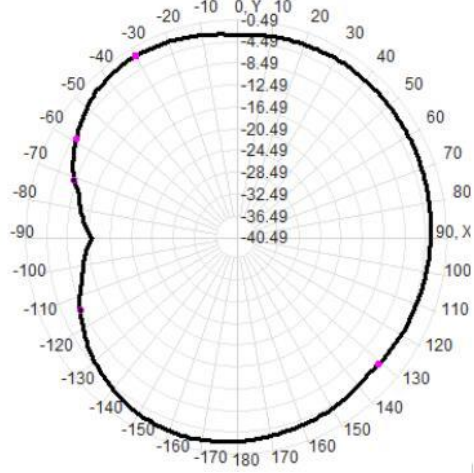
2450.0MHz Total(E1-XZ), Max=-1.01dBi



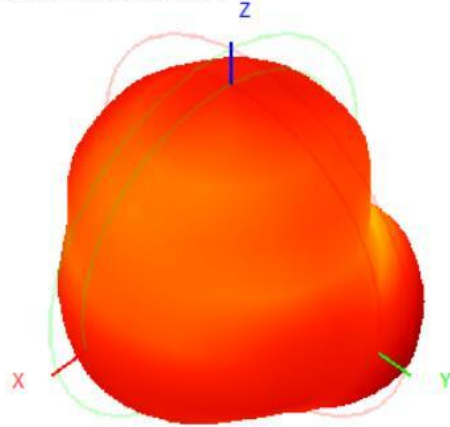
2450.0MHz Total(E2-YZ), Max=-0.49dBi



Total(H-XY), Max=-1.99dBi, CirD=11.15

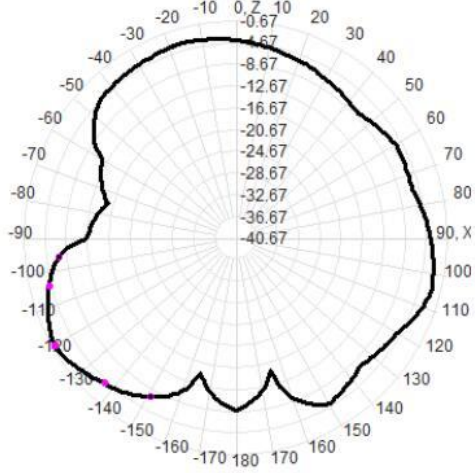


2450.0MHz H+V, Eff. 36.3%

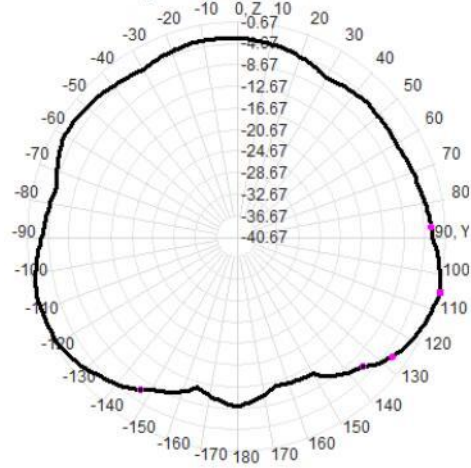


2500MHz

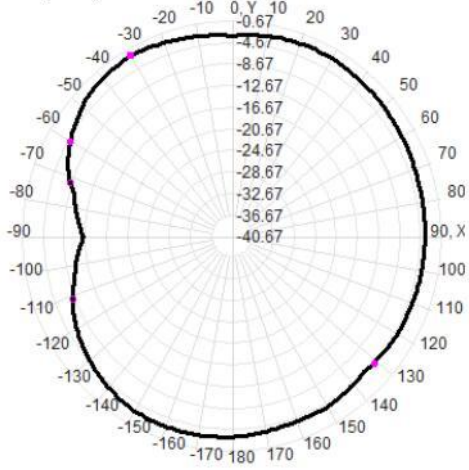
2500.0MHz Total(E1-XZ), Max= -1.20dBi



2500.0MHz Total(E2-YZ), Max= -0.67dBi



Total(H-XY), Max= -1.98dBi, CirD=10.52



2500.0MHz H+V, Eff. 35.7%

