

SPECIFICATION FOR APPROVAL

CUST OMER: Shenzhen Ai-Thinker Technology Co., LtdCUS PART NO: Ai-WB3-12FPART NAME: 2.4G AntennaEdition: 1.0

Editor	Xiao Jingran	2023/5/10
Verifier	Guan Ning	2023/5/10
Approver	Xu Fuqiang	2023/5/10

**SHENZHEN B&T TECHNOLOGY Co., Ltd****ZHONGSHAN B&T TECHNOLOGY Co., Ltd**

Address: 3-4/F, Building A, Dongfang Industrial Park, Nanlang Town,
Zhongshan City, Guangdong Province, China

Directory

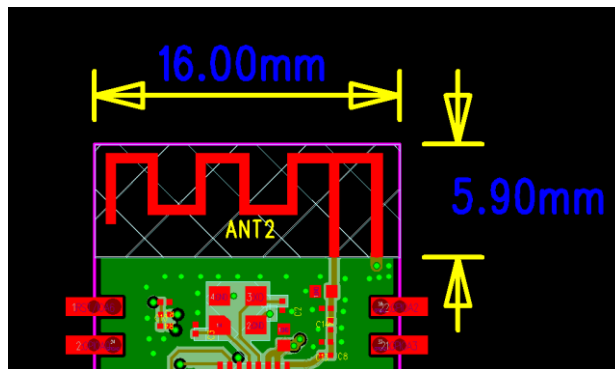
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Product specification

1、Performance parameter

Name	<u>2.4G Antenna</u>
Model Type	PCB Print Antenna
ELECTRICAL SPECTFICATIONS	
Frenquency Range	2400-2500MHz
Band Width	100MHz
Impedance	50 Ω
VSWR	< 2.2
Max Gain	1.42dBi
Polarization	Vertical/Horizontal
Radiation	Omnidirectional
Power	50 W
MECHANICAL SPECTFICATIONS	
Connector	Welding type
Working Temperature	-40°C - + 85°C
Limit Temperature	-40°C - + 125°C

2、VSWR



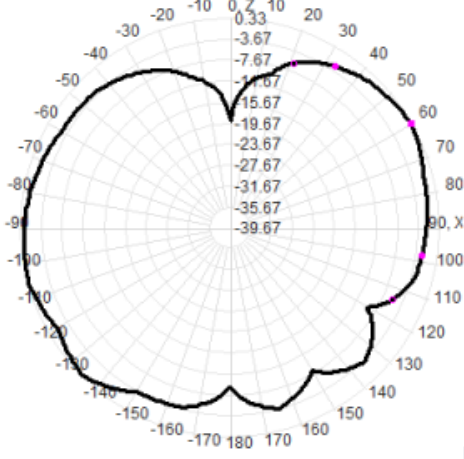
3、Passive test data:

Frequency (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Gain (dBi)	1.31	1.29	1.16	1.06	1.09	1.17	1.26	1.42	1.33	1.22	1.18
Efficiency (%)	59.97	60.62	60.12	59.80	60.84	60.87	61.89	62.37	60.28	58.83	59.71

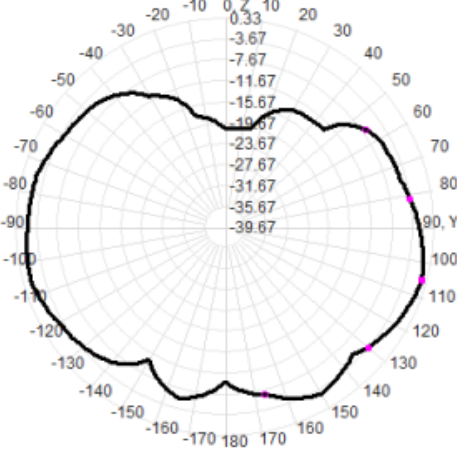
4、Radiation pattern

2400MHz

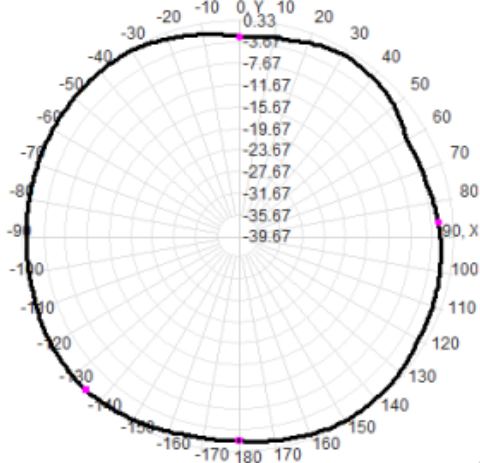
2400.0MHz Total(E1-XZ), Max= 0.11dBi



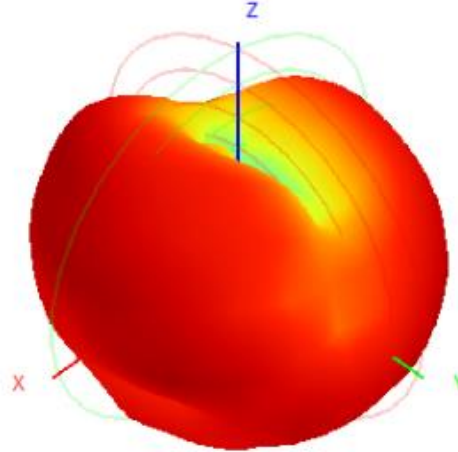
2400.0MHz Total(E2-YZ), Max= -0.90dBi



Total(H-XY), Max= 0.33dBi, CirD=4.22

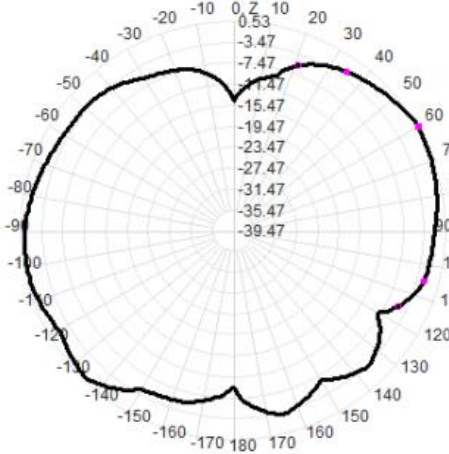


2400.0MHz H+V, Eff: 60.0%

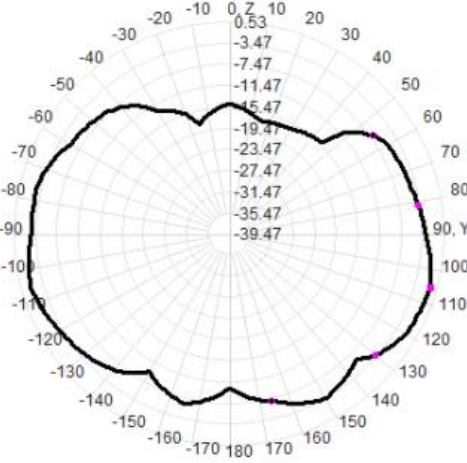


2450MHz

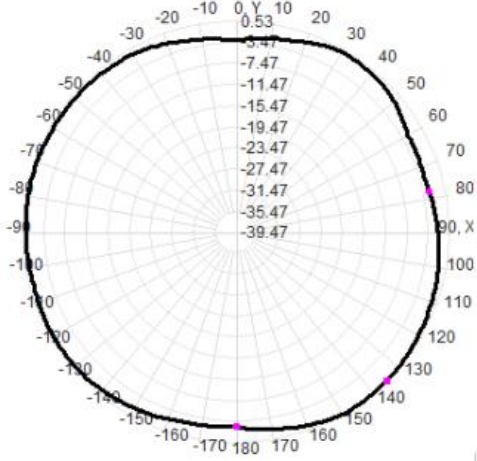
2450.0MHz Total(E1-XZ), Max= 0.53dBi



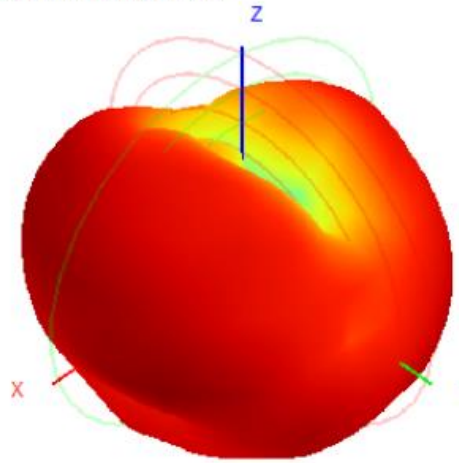
2450.0MHz Total(E2-YZ), Max= -1.08dBi



Total(H-XY), Max= 0.32dBi, CirD=3.51

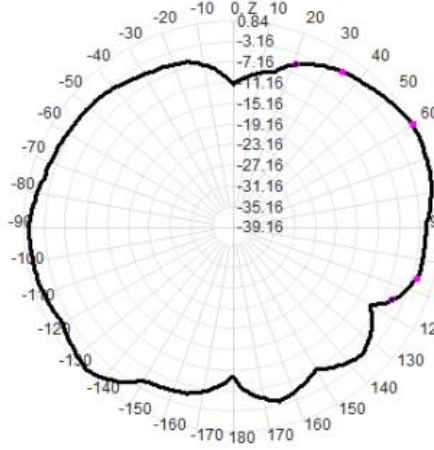


2450.0MHz H+V, Eff. 60.9%

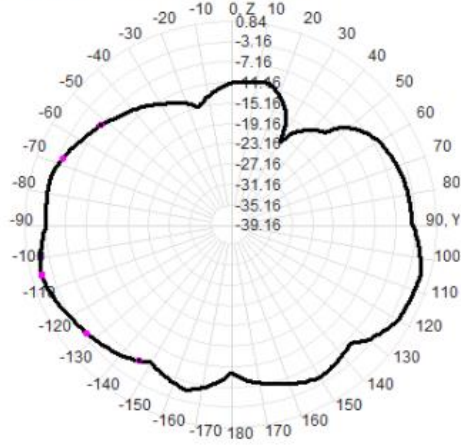


2500MHz

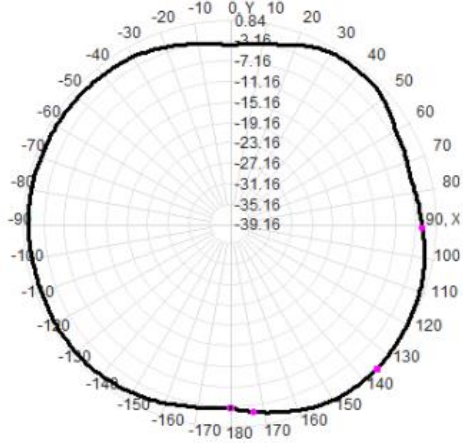
2500.0MHz Total(E1-XZ), Max= 0.55dBi



2500.0MHz Total(E2-YZ), Max= -1.09dBi



Total(H-XY), Max= 0.84dBi, CirD=4.97



2500.0MHz H+V, Eff. 59.7%

