

SPECIFICATION FOR APPROVAL

CUST OMER: Shenzhen Ai-Thinker Technology Co., Ltd

CUS PART NO: ESP-12F

PART NAME: 2.4G WLAN Antenna

Edition: 1.0

Editor	Ju Xiang	2019/05/13
Verifier	Guan Ning	2019/05/13
Approver	Xu Fuqiang	2019/05/13



SHENZHEN B&T TECHNOLOGY Co., Ltd

ZHONGSHAN B&T TECHNOLOGY Co., Ltd

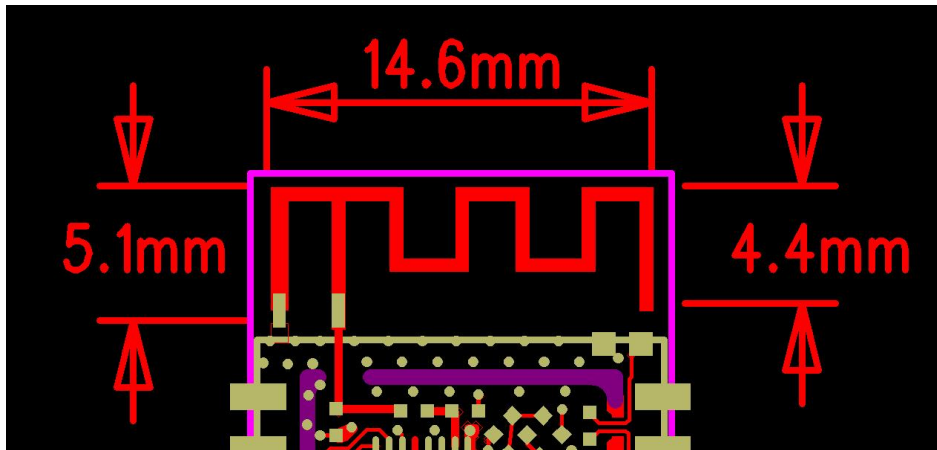
Address: 3-4/F, Building A, Dongfang Industrial Park, Nanlang Town,
Zhongshan City, Guangdong Province, China

Directory

1. Antenna Dimension	- 3 -
2. Performance parameter	- 3 -
3. VSWR	- 4 -
4. Passive test data:	- 4 -
5. Radiation pattern	- 5 -

Product specification

1. Antenna Dimension



2. Performance parameter

Name	2.4G WLAN Antenna
Model Type	PCB Print Antenna
ELECTRICAL SPECTFICATIONS	
Frenquency Range	2400-2500MHz
Band Width	100MHz
Impedance	50 Ω
VSWR	< 2.0
Max Gain	1.97dBi
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

3. VSWR

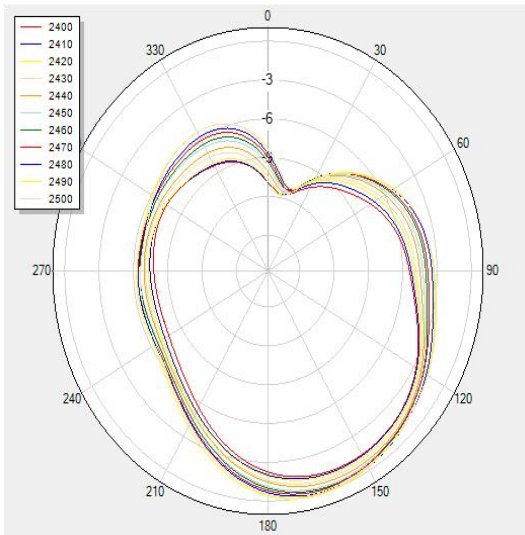


4. Passive test data:

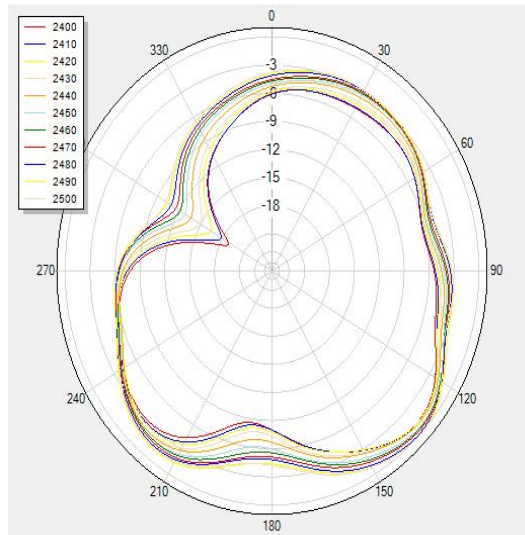
Frequency (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Gain (dBi)	1.27	1.26	1.62	1.35	1.39	1.64	1.89	1.97	1.96	1.84	1.71
Efficiency (%)	48.62	48.84	51.31	49.07	49.85	53.47	54.63	55.12	55.21	55.09	53.65

5. Radiation pattern

H Theta=90



V Phi=90



V Phi=0

