

SPECIFICATION



ShenZhen TianDa Communication Co,LTD

C6S Base Station Antenna2

Product Specification

Customer	Zhi Ling	Frequency band	2400-2500MHz
Project name	C6S Base Station	Edition	A
Item number	ZL-C6-S1-WI-A	Colour	Green
R Fdesign	Wangxinchuang	Structural design	Hesenlin
Date	2022.06.10		

Customer confirmation:

Whether the assembly meets your requirements: ☐OK ☐NG

ShenZhen TianDa Communication CO., LTD.

5E Building L, NO 26 Alley 2 Baicai Science Park, Liuxian Road,71 District,Baoan District,Shenzhen

TEL: 0755-22194566

FAX: 0755-22194566

ShenZhen TianDa Communication CO., LTD.

5E Building L, NO 26 Alley 2 Baicai Science Park, Liuxian Road,71 District,Baoan District,Shenzhen

TEL: 0755-22194566

FAX: 0755-22194566

Catalog

一、WIFI antenna.....	3
1、Specifications.....	3
1.1、Electrical specifications.....	3
1.1.1、Electrical performance index.....	3
1.1.2、Matching circuit diagram.....	3
1.2、Testing.....	4
1.2.1、Passive test data.....	4
1.2.1.1、Standing wave pattern of antenna	4
1.2.1.2、Antenna gain efficiency.....	4
1.2.1.3、Antenna pattern.....	5
二、Structural specifications.....	5
2.1、Antenna composition.....	5
2.2、Drawings.....	6

一、WIFI Antenna

1、Specifications

The specification mainly provides the test status of electrical and structural performance parameters of WIFI antenna2 in C6S Base Station project 。 The picture below shows the WIFI antenna2 designed by Tianda.

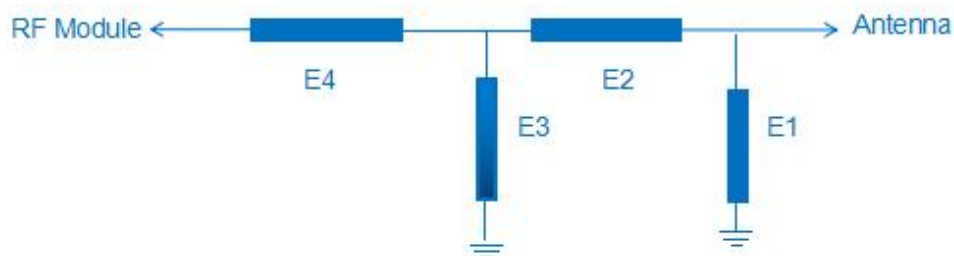
1.1、Electrical specifications

1.1.1、Electrical performance index

The operating frequency band of the antenna 2400MHz—2500MHz, The following is the electrical performance index of the antenna designed and produced by Tianda.

WIFI		
频段 Frequency	频率 (MHz)	VSWR
2.4G	2400~2500	≤ 2.0

1.1.2、Matching circuit diagram



The matching circuit of antenna2 is a series 0 ohm resistor.

1.2、Testing

1.2.1、Passive test

1.2.1.1、VSWR

Antenna2



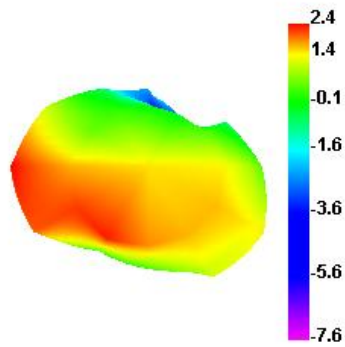
1.2.1.2、Antenna Gain and Efficiency

Antenna2

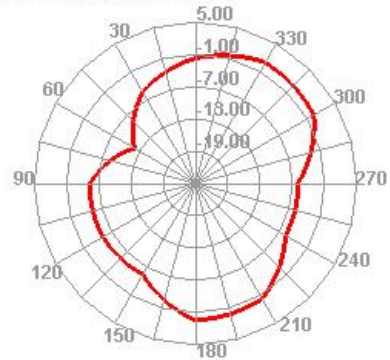
Passive Test For 2.4g									
Freq (MHz)	Effi (%)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	AttH (dB)	AttV (dB)
2400	62.78	2.41	0.26	41.438	21.345	2.41	-14.12	43	43
2410	63.99	2.6	0.45	41.666	22.327	2.6	-15.04	43.06	43.09
2420	66.13	2.62	0.47	42.152	23.979	2.62	-16.73	43.19	43.25
2430	65.74	2.74	0.59	41.025	24.711	2.74	-18.63	43.18	43.2
2440	68.03	2.73	0.58	42.375	25.658	2.73	-20.93	43.26	43.26
2450	65.89	2.51	0.36	41.057	24.836	2.51	-22.28	43.34	43.32
2460	65.27	3.07	0.92	41.117	24.148	3.07	-22.08	43.06	43.12
2470	62.5	3.04	0.89	39.59	22.907	3.04	-21.67	43.03	43.1
2480	63.9	3.19	1.04	40.593	23.306	3.19	-21.15	43.28	43.33
2490	68.59	3.1	0.95	43.781	24.813	3.1	-19.8	43.34	43.38
2500	70.77	3.34	1.19	45.395	25.373	3.34	-18.24	43.41	43.47

1.2.1.3、Antenna pattern

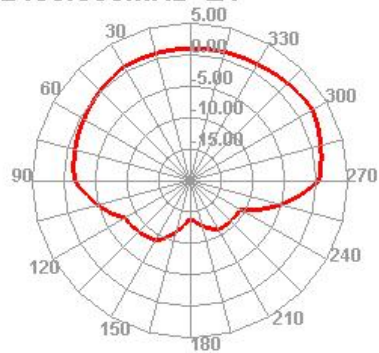
2400.000MHz



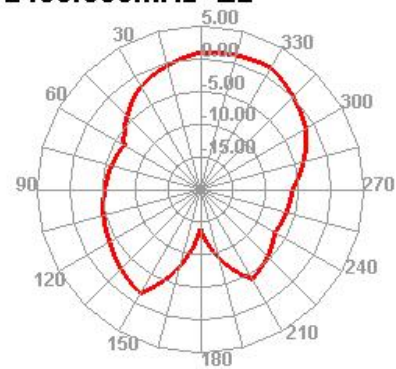
2400.000MHz H



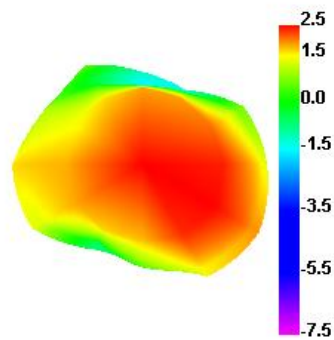
2400.000MHz E1



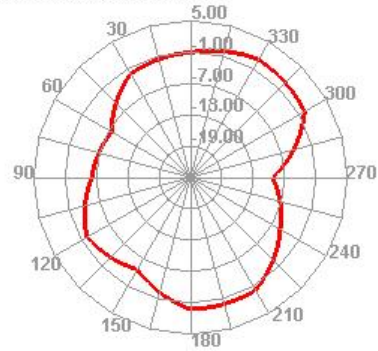
2400.000MHz E2



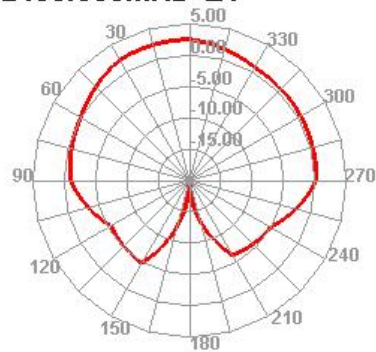
2450.000MHz



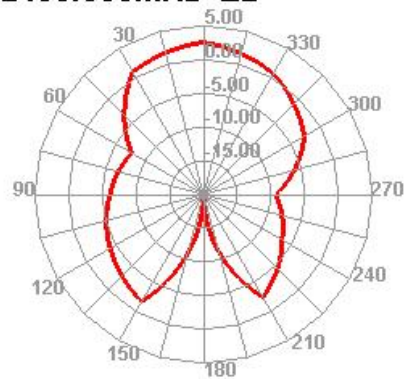
2450.000MHz H



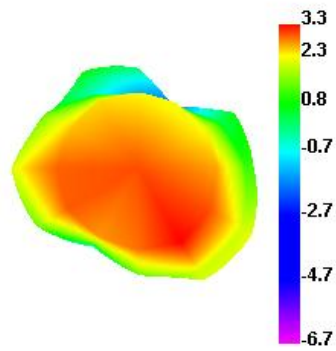
2450.000MHz E1



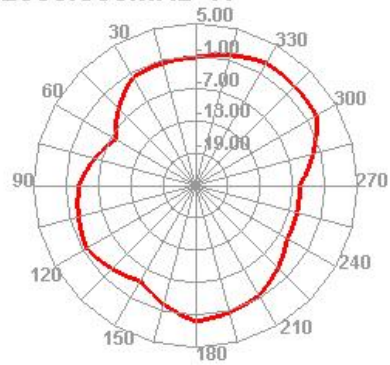
2450.000MHz E2



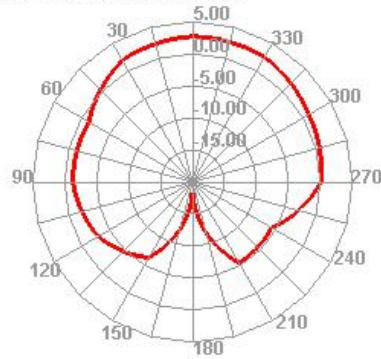
2500.000MHz



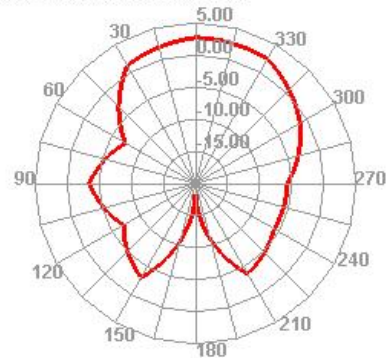
2500.000MHz H



2500.000MHz E1



2500.000MHz E2



二、 Structural specifications

2.1、 Antenna composition

WIFI Antenna2 is mainly composed of PCB+Cable line.

2.2、Drawings

