

SPECIFICATION



ShenZhen TianDa Communication Co,LTD

C6S Base Station Antennal

Product Specification

Customer	Zhi Ling	Frequency band	2400-2500MHz
Project name	C6S Base Station	Edition	A
Item number	XM-BS-01-W2-A	Colour	Green
R Fdesign	Wangxinchuang	Structural design	Hesenlin
Date	2022.06.10		

Customer confirmation:

Whether the assembly meets your requirements: ☐OK ☐NG

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一、WIFI Antenna

1、Specifications

The specification mainly provides the test status of electrical and structural performance parameters of WIFI antenna1 in C6S Base Station project 。 The picture below shows the WIFI antenna1 designed by Tianda.

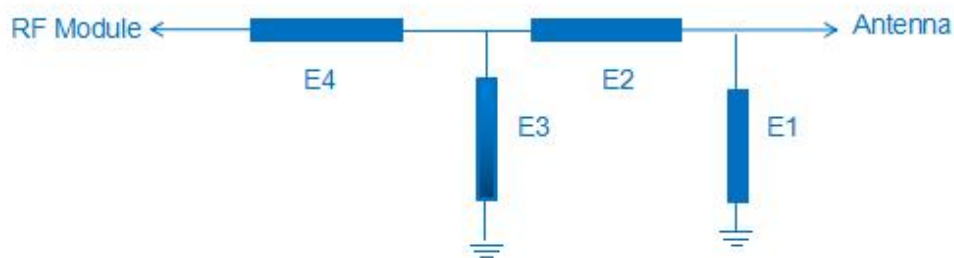
1.1、Electrical specifications

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 antenna1 is a series 0 ohm resistor.

1.2、Testing

1.2.1、Passive test

1.2.1.1、VSWR

Antenna1



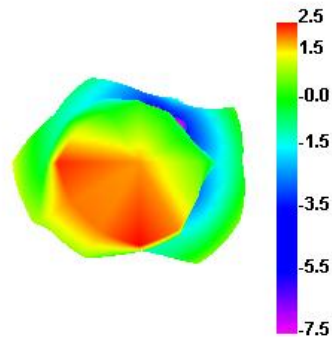
1.2.1.2、Antenna Gain and Efficiency

Antenna1

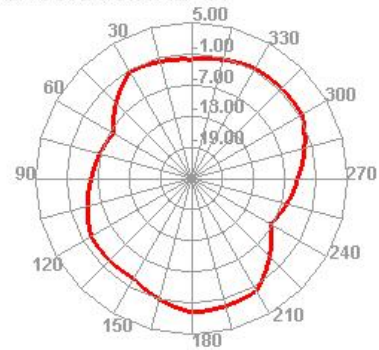
Passive Test For 2.4g									
Freq (MHz)	Effi (%)	Gain (dBi)	Gain (dBd)	UHS (%)	DHIS (%)	Max (dB)	Min (dB)	AttH (dB)	AttV (dB)
2400	64.28	2.47	0.32	34.205	30.078	2.47	-14.21	43	43
2410	64.98	2.67	0.52	33.289	31.688	2.67	-14.93	43.06	43.09
2420	65.45	2.67	0.52	33.251	32.202	2.67	-16.76	43.19	43.25
2430	67.11	3.24	1.09	34.843	32.262	3.24	-18.75	43.18	43.2
2440	70.64	3.53	1.38	37.993	32.652	3.53	-19.89	43.26	43.26
2450	68.29	3.48	1.33	37.628	30.662	3.48	-19.74	43.34	43.32
2460	65.98	3.2	1.05	36.636	30.339	3.2	-19.77	43.06	43.12
2470	67.95	3.54	1.39	38.077	29.873	3.54	-19.72	43.03	43.1
2480	72.27	4.07	1.92	41.587	30.68	4.07	-19.05	43.28	43.33
2490	70.91	4.1	1.95	41.327	29.588	4.1	-17.85	43.34	43.38
2500	65.6	3.78	1.63	38.472	27.13	3.78	-16.18	43.41	43.47

1.2.1.3、Antenna pattern

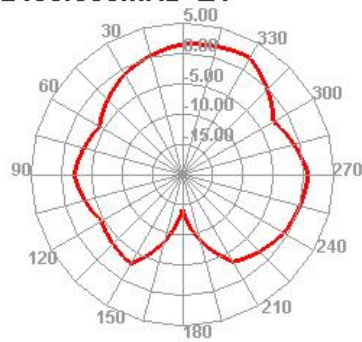
2400.000MHz



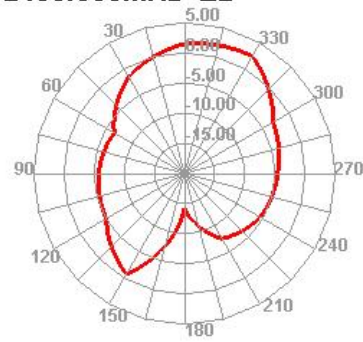
2400.000MHz H



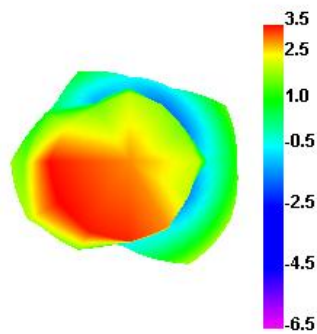
2400.000MHz E1



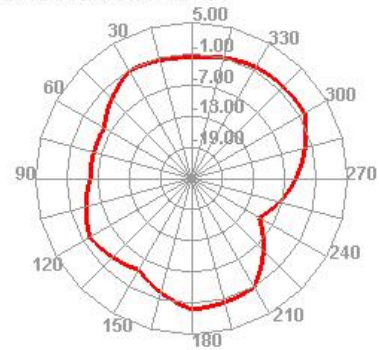
2400.000MHz E2



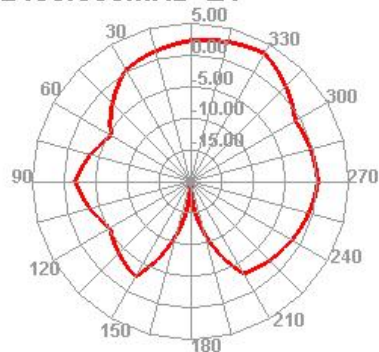
2450.000MHz



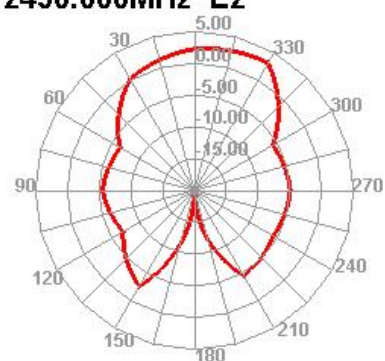
2450.000MHz H



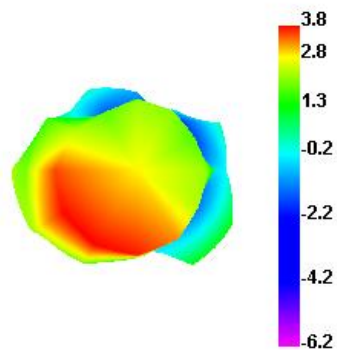
2450.000MHz E1



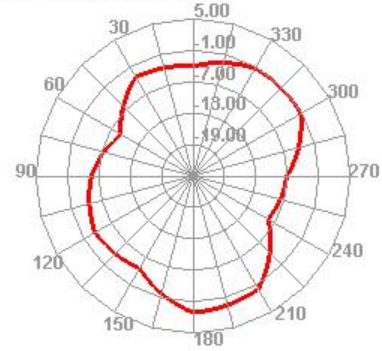
2450.000MHz E2



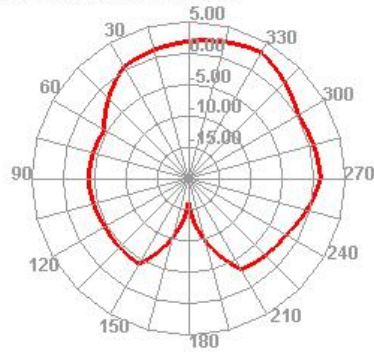
2500.000MHz



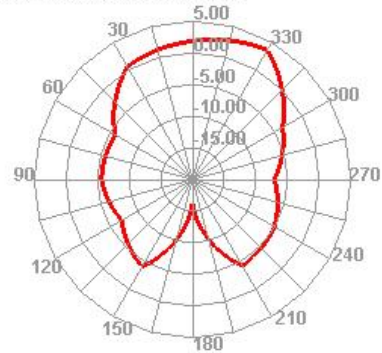
2500.000MHz H



2500.000MHz E1



2500.000MHz E2



二、 Structural specifications

2.1、 Antenna composition

WIFI Antenna1 is mainly composed of PCB+Cable line.

2.2、Drawings

