

SPECIFICATION



ShenZhen TianDa Communication Co,LTD

YU7 Antenna

Product Specification

Customer	Da Xiang	Frequency band	2400-2500MHz
Project name	YU7	Edition	A
Item number	DX-YU-70-WF-A	Colour	Black
R F design	Yu yafeng	Structural design	Zhou Luhong
Date	2025.06.23		

Customer confirmation:

Whether the assembly meets your requirements: ☐OK ☐NG

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WIFI Antenna

1、Specifications

The specification mainly provides the test status of electrical and structural performance parameters of WIFI antenna in YU7 project。 The picture below shows the antenna designed by Tianda.



WIFI

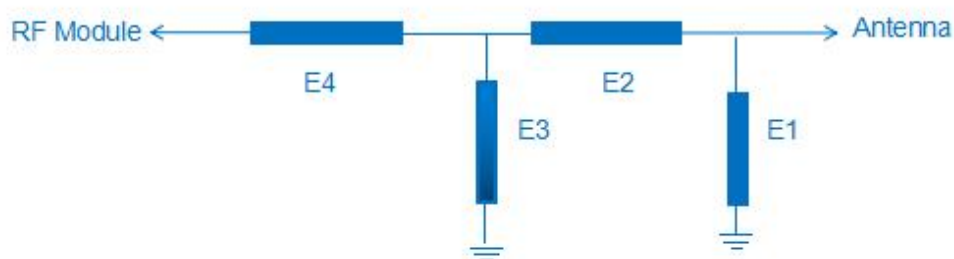
1.1、Electrical specifications

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		
Frequency band	Frequency (MHz)	VSWR
2.4G	2400~2500	≤ 2.0

1.1.2、Matching circuit diagram

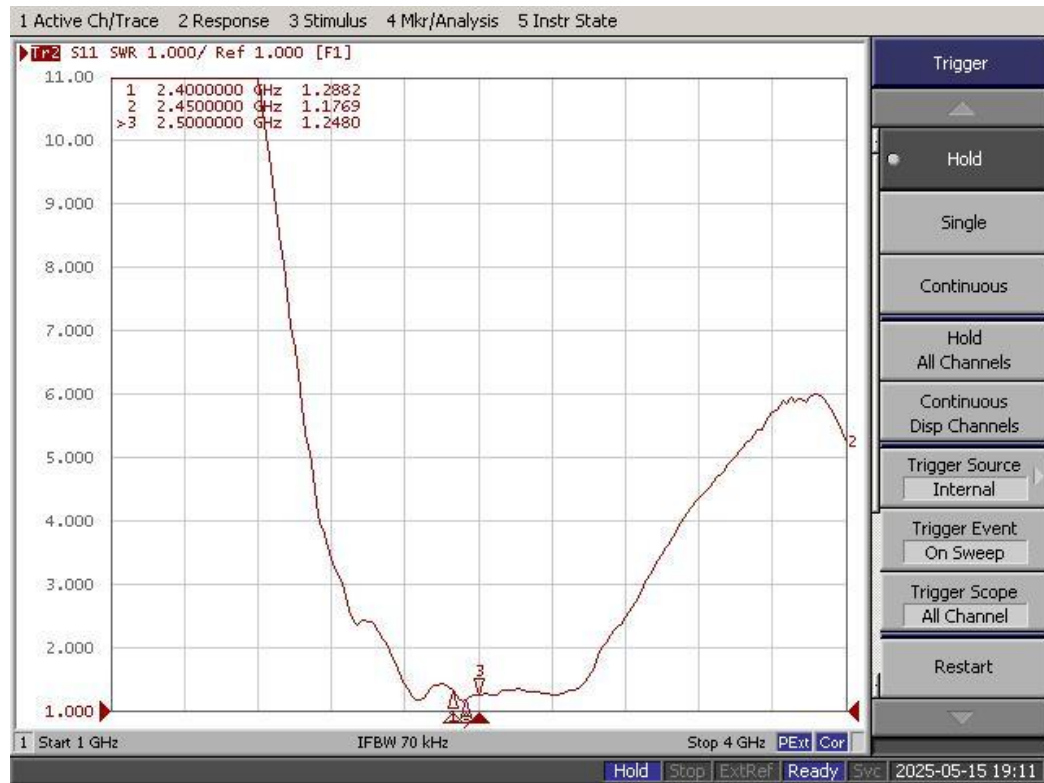


The matching circuit of WIFI is the original matching of the motherboard, and there is no change.

1.2、Testing

1.2.1、Passive test data

1.2.1.1、VSWR



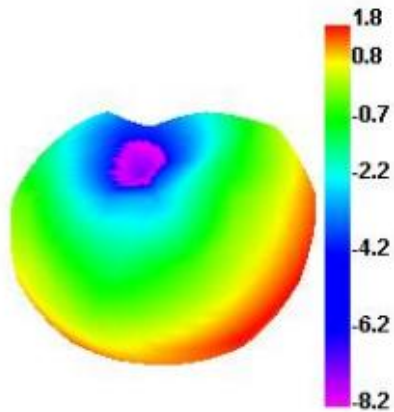
1.2.1.2、Antenna Gain and Efficiency

Passive Test For WiFi Antenna(2.4G)			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	53.35	-2.7	1.8
2410	57.29	-2.4	2.35
2420	55.18	-2.6	2.42
2430	52.82	-2.8	2.41
2440	58.81	-2.3	3.12
2450	58.23	-2.3	3.13
2460	56.9	-2.4	3.51
2470	57.99	-2.4	3.91
2480	59.51	-2.3	3.67
2490	57.39	-2.4	4.14
2500	57.29	-2.4	4.06

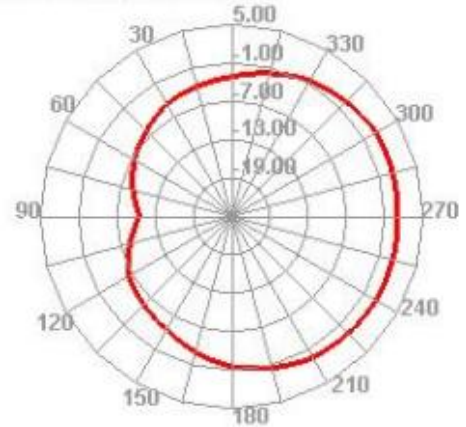
1.2.1.3、 Antenna pattern

Radiation Pattern For WiFi Antenna(2400MHz)

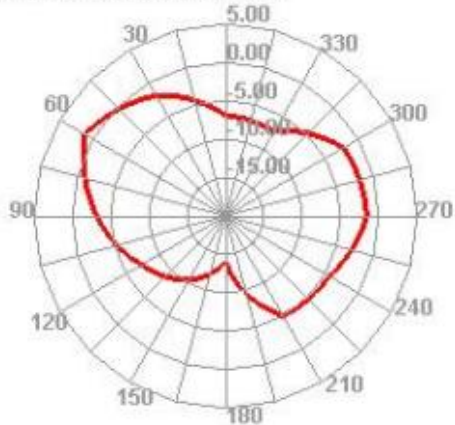
2400.000MHz



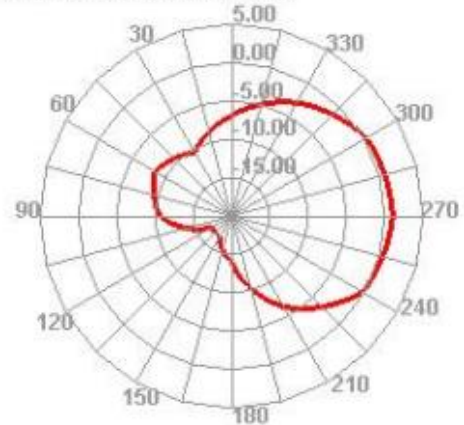
2400.000MHz H



2400.000MHz E1

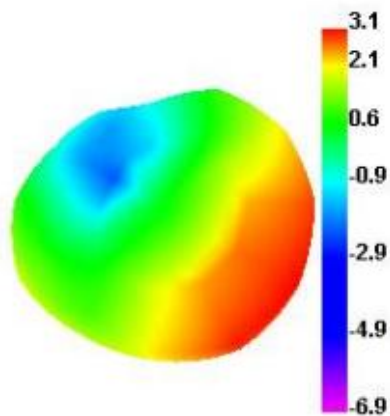


2400.000MHz E2

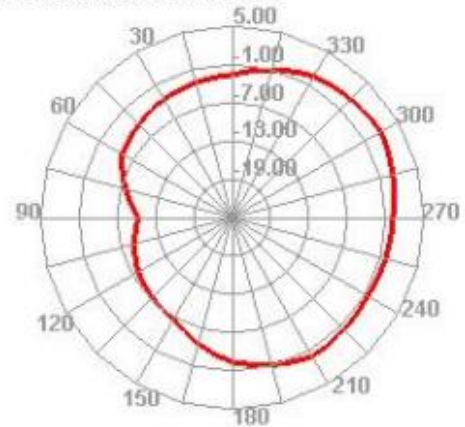


Radiation Pattern For WiFi Antenna(2450MHz)

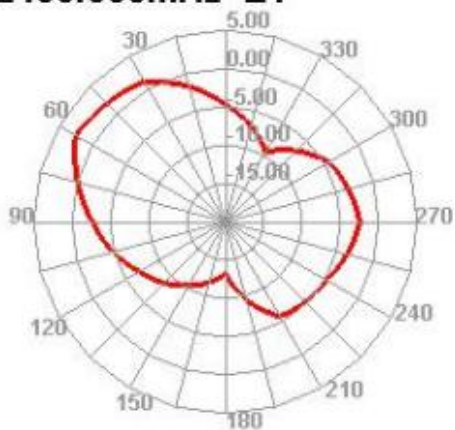
2450.000MHz



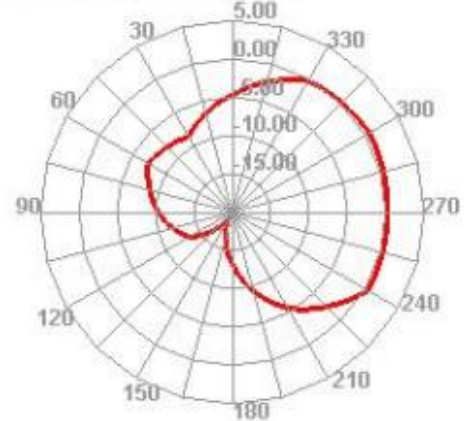
2450.000MHz H



2450.000MHz E1

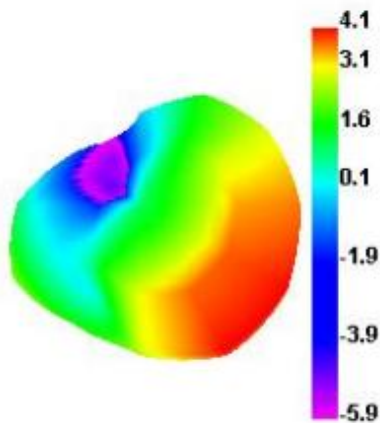


2450.000MHz E2

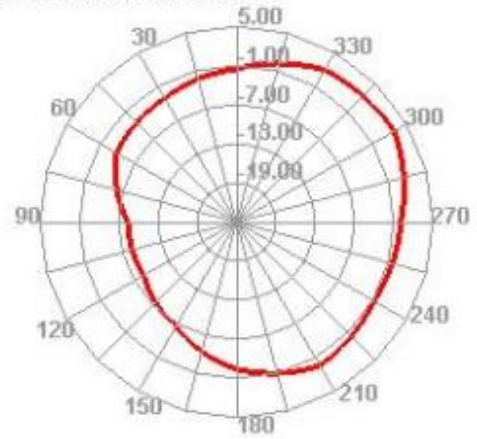


Radiation Pattern For WiFi Antenna(2500MHz)

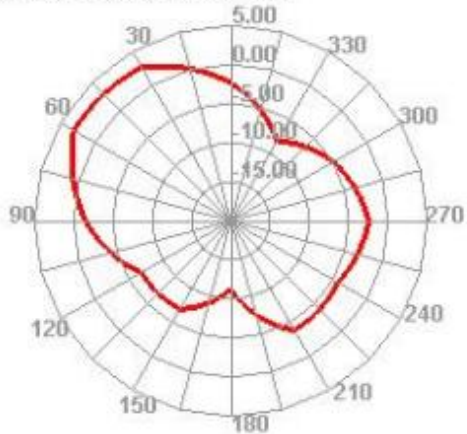
2500.000MHz



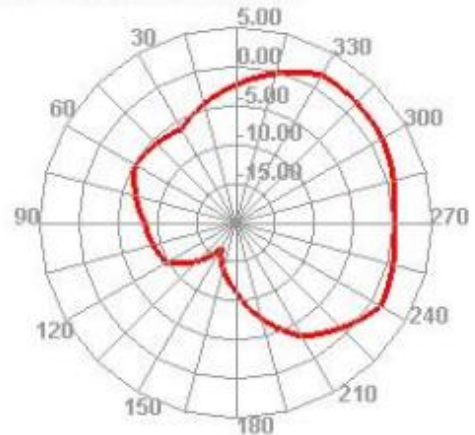
2500.000MHz H



2500.000MHz E1



2500.000MHz E2



2、Structural specifications

2.1、Antenna composition

WIFI antenna is mainly composed of FPC+Cable lines.

2.2、Drawings

