

SPECIFICATION

ShenZhen CX Communication Co,LTD

B265 antenna

Product Specification

Customer	Bo Sheng	Frequency band	2400-2500MHz
Project name	B265	Edition	A
Item number	B265-WIFI-CX	Colour	Black
R Fdesign	Wangxinchuang	Structural design	
Date	2020.06.10		

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 antenna in B265 project。The picture below shows the WIFI antenna designed by CX

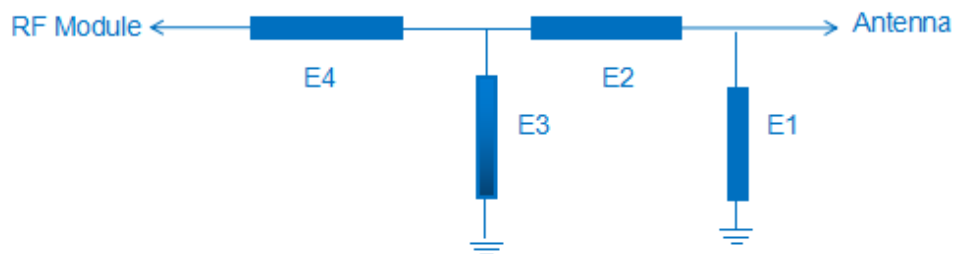
1.1、Electrical specifications

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 CX

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

1.1.2、Matching circuit diagram

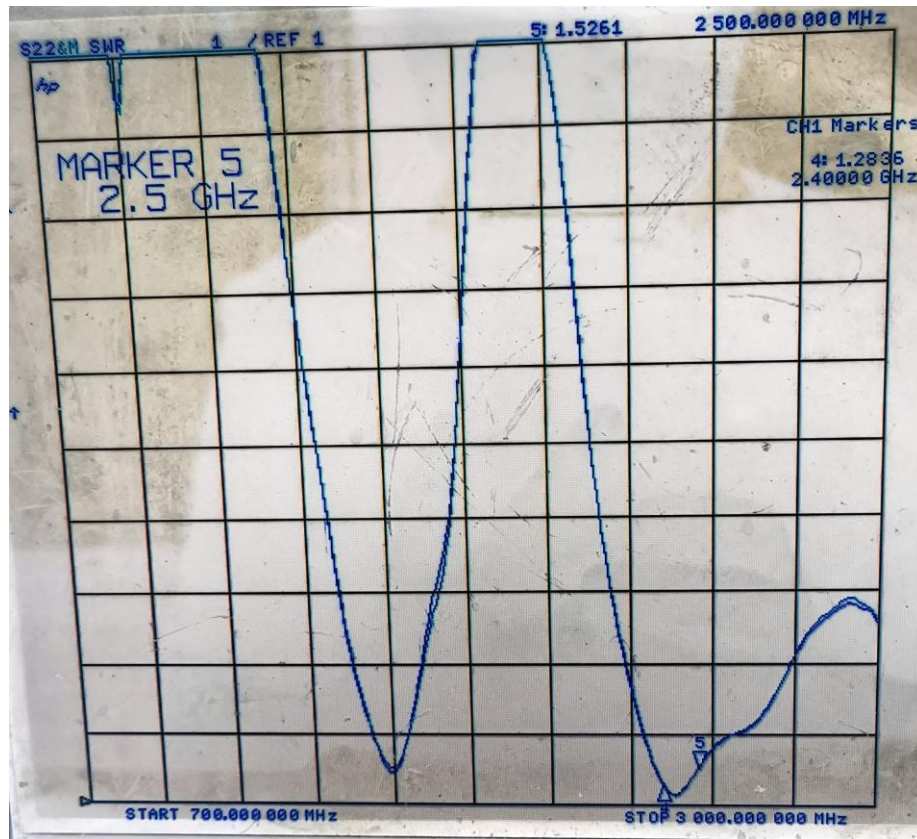


The matching circuit of WIFI antenna is a series 0 ohm resistor.

1.2、Testing

1.2.1、Passive test

1.2.1.1、VSWR

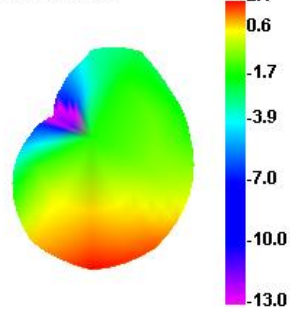


1.2.1.2、Antenna Gain and Efficiency

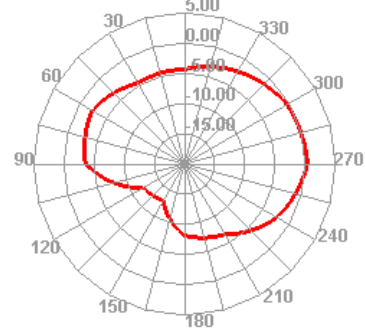
2.4G										
Fred (MHz)	Effi (%)	Effi (%)	Gain (dBi)	Gain (dBd)	UHS (%)	DHIS (%)	Max (dB)	Min (dB)	Attenut (Hor)	Attenut (Ver)
2400	44.38	-2.79	0.26	-1.88	40.28	13.32	2.29	-23.79	48.26	49.33
2410	44.63	-2.46	0.66	-1.48	42.42	13.54	2.46	-21.29	48.66	49.58
2420	44.94	-2.12	0.82	-1.32	40.96	14.77	2.68	-20.97	48.71	49.88
2430	44.27	-2.70	0.40	-1.74	43.24	15.23	2.29	-22.77	48.21	49.35
2440	44.75	-2.39	0.79	-1.35	40.71	15.79	2.53	-25.39	48.58	49.56
2450	44.82	-1.83	2.00	-0.14	41.19	16.18	3.15	-21.98	49.11	49.99
2460	44.28	-2.63	0.23	-1.91	42.39	18.25	2.31	-25.62	48.37	49.22
2470	44.49	-2.34	0.44	-1.70	41.78	18.80	2.50	-24.31	48.50	49.54
2480	45.08	-2.23	1.00	-1.14	40.89	19.05	3.14	-23.23	48.98	49.99
2490	44.21	-2.68	0.25	-1.89	43.21	19.23	2.35	-21.77	48.24	49.20
2500	44.46	-2.32	0.61	-1.53	40.44	19.62	2.48	-20.30	48.48	49.61

1.2.1.3、Antenna pattern

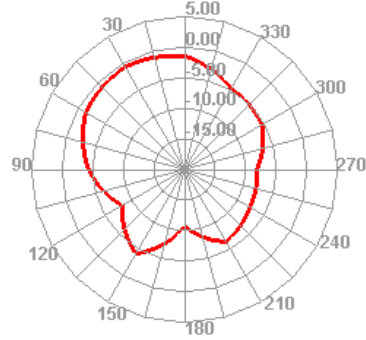
2400.000MHz



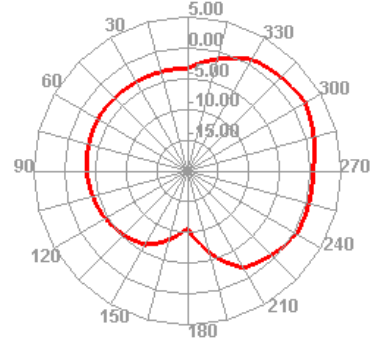
2400.000MHz H



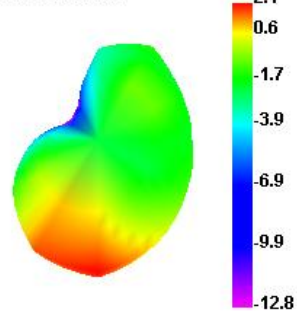
2400.000MHz E1



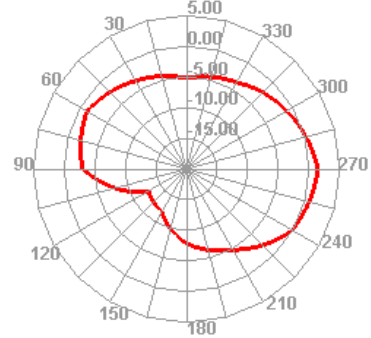
2400.000MHz E2



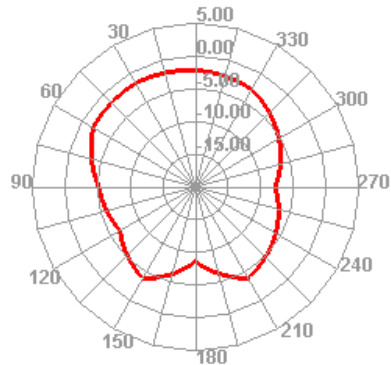
2450.000MHz



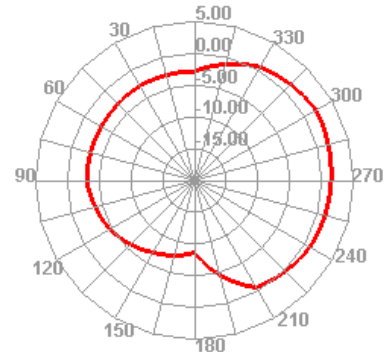
2450.000MHz H



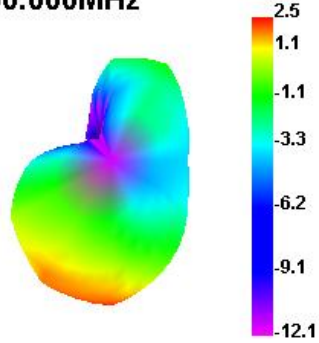
2450.000MHz E1



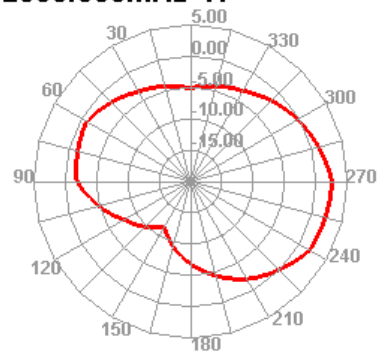
2450.000MHz E2



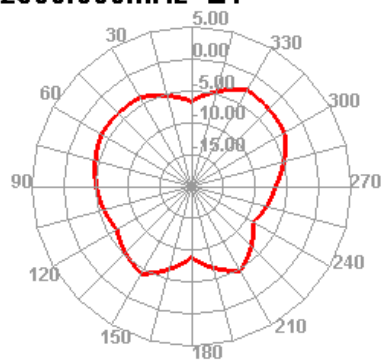
2500.000MHz



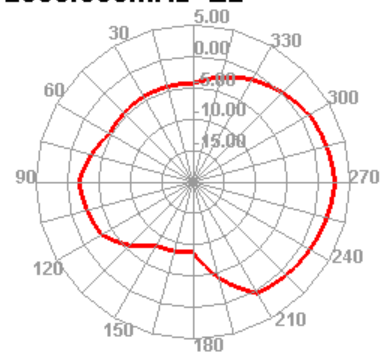
2500.000MHz H



2500.000MHz E1



2500.000MHz E2



二、 Structural specifications

2.1、 Antenna composition

WIFI antenna is mainly composed of FPC.

2.2、Drawings

