

WIFI FPCB Antenna (W20B-L/R)

1. Explanation of Product Number

S	2	B	4	B	B	1	F	1	B	2	0	0	0	0
				(1)	(2)	(3)	(4)	(5)						



Product Description:

(1) Product Categories:

B:BT Antenna

(2) Dimensions:

B3:28.6*9.2*0.12(mm)

(3) Material:

F: FPC

(4) Working Frequencies:

1B: 2.4G-2.5G

(5) Antenna Series:

01: Serial number

Tolerances (Unless otherwise specified)

X : ± 1 X.X : ± 0.1 X.XX : ± 0.01

Angle : $\pm$ Hole Dia. : $\pm$

Scale : Unit: mm

Drawn By : Shelley Checked By : Simon

Designed By :Simon Approved By :Frank

深圳市世纪联发电子有限公司

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PART
NO.

S2B4BB1F1B20000

REV.

B

2. Features

- *Stable and reliable in performances
- *RoHS compliance
- *Low cost

3. Applications

*BT

4. Description

* YINGFENMG FPCB antenna series are specially designed for 2.4G-2.5G band application. Based on YINGFENG proprietary designs and processes, this FPCB antenna has excellent stability and sensitivity to consistently provide high signal reception efficiency.

5. Antenna Electrical Specifications :

Characteristics	Specifications			Unit
Outline Dimensions	28.6*9.2*0.12			mm
Frequency	2400~2500			MHz
Impedance	50			Ω
Polarization	Linear Polarization			
Return Loss Table	Return Loss			
Freq.Band	2.4G Hz	2.45G Hz	2.5G Hz	
dB	-16.98	-29.81	17.34	
VSWR Table	VSWR			
Freq.Band	2.4G Hz	2.45G Hz	2.5G Hz	
	1.32	1.08	1.29	
GAIN Table	Total Gain = Xpol + Ppol			
Freq.Band	2400MHz	2450MHz	2485MHz	2500MHz
Peak Gain(dBi)	1.02	1.15	1.24	1.23

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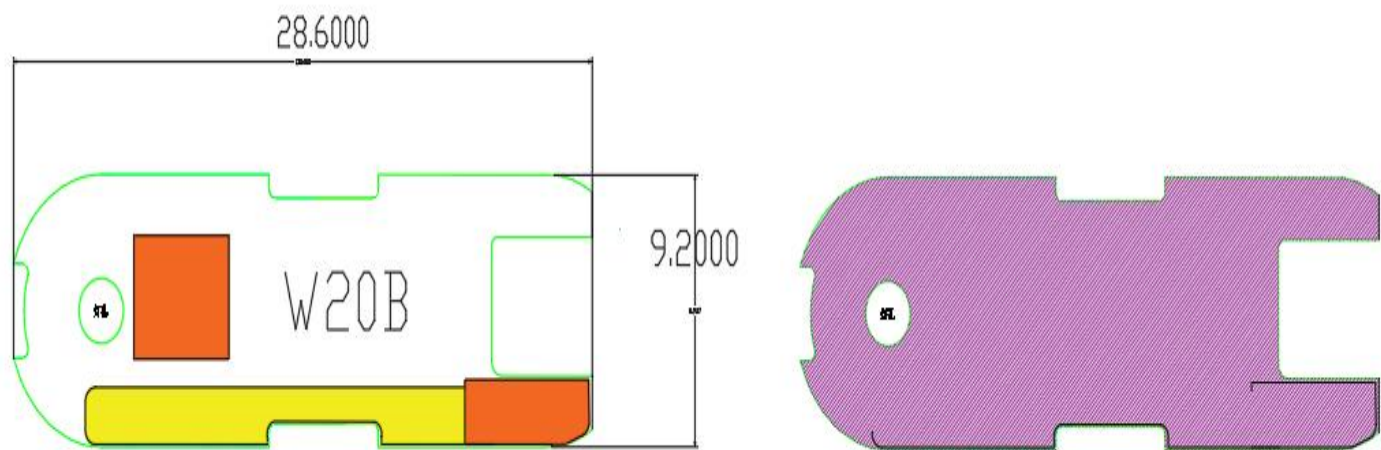
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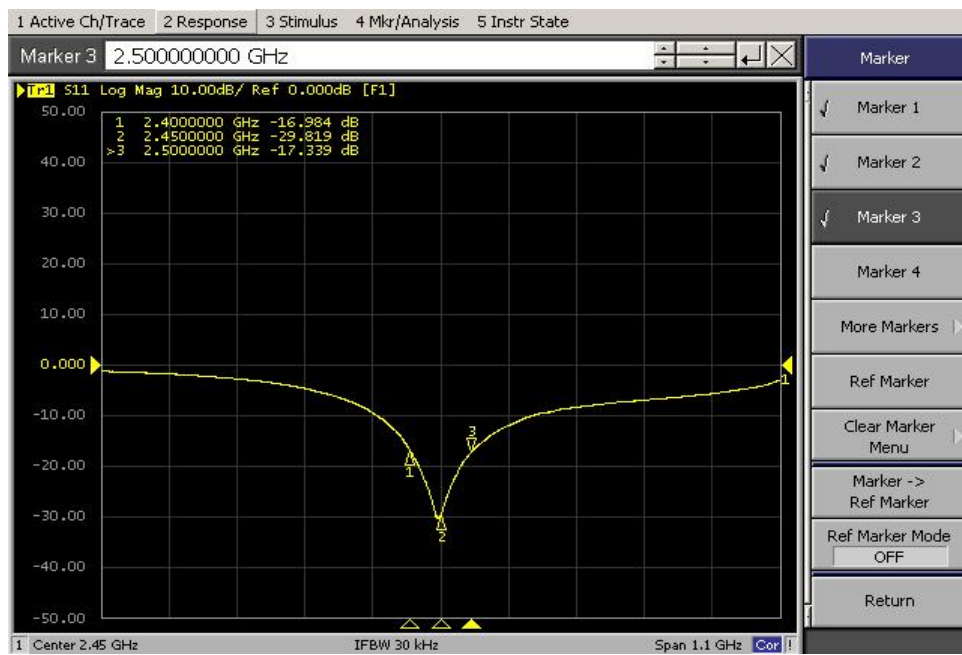
REV.
B

6. Dimensions (unit: mm)



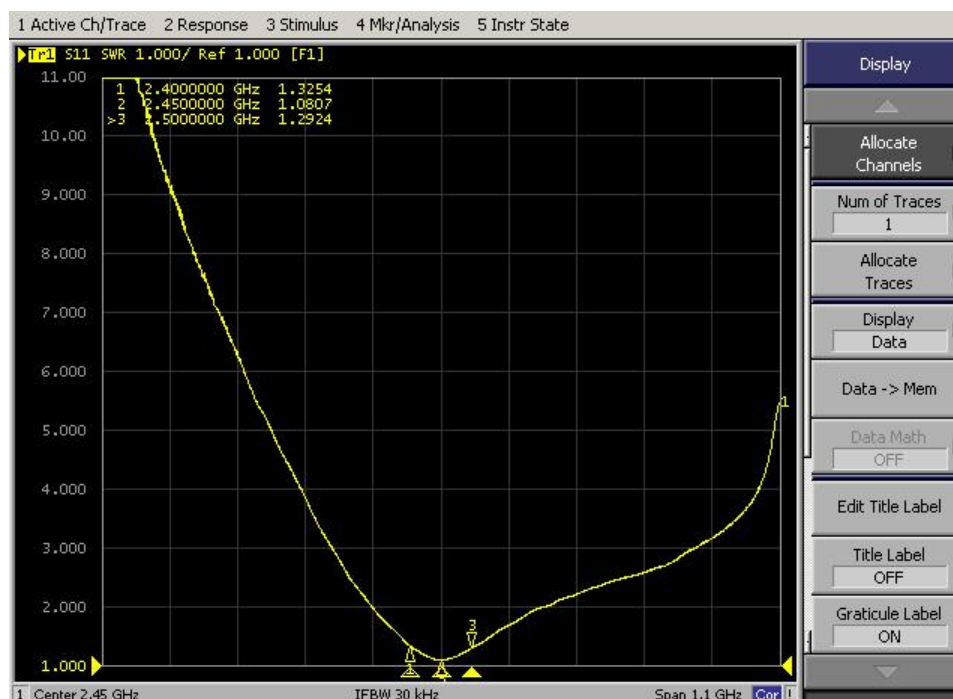
7. Measurement Characteristics:

(1) Return Loss

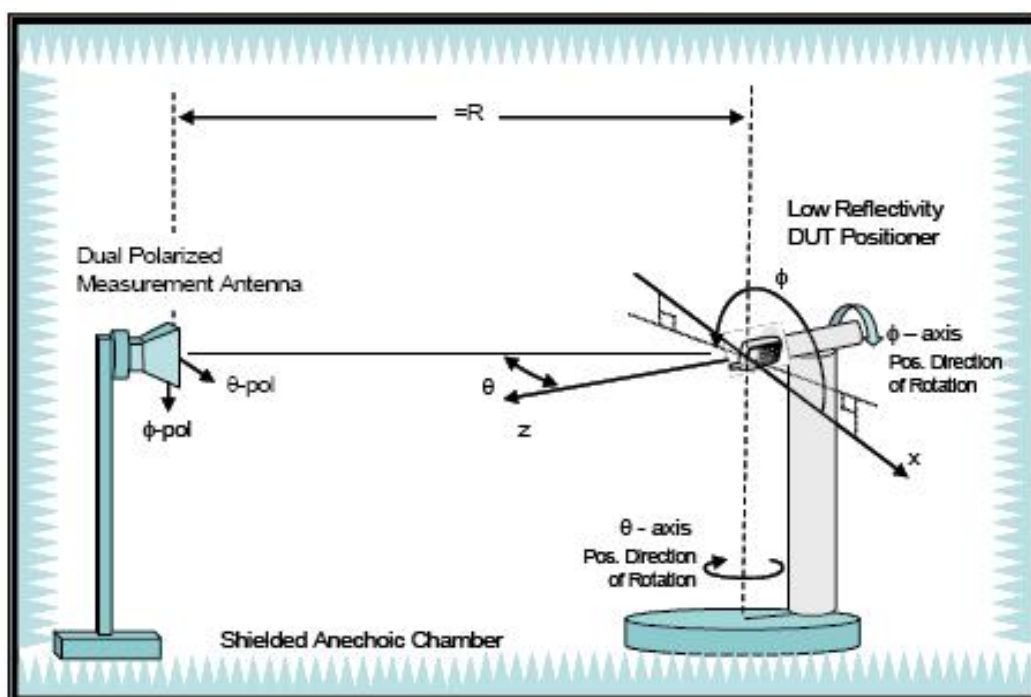


(2) VSWR

Tolerances (Unless otherwise specified) X : ± 1 X.X : ± 0.1 X.XX : ± 0.01 Angle : ± Hole Dia. : ±		深圳市世纪联发电子有限公司	
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			REV. B



8. Three D Radiation Pattern measurements



Tolerances (Unless otherwise specified)

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Angle : $\pm$ Hole Dia. : $\pm$

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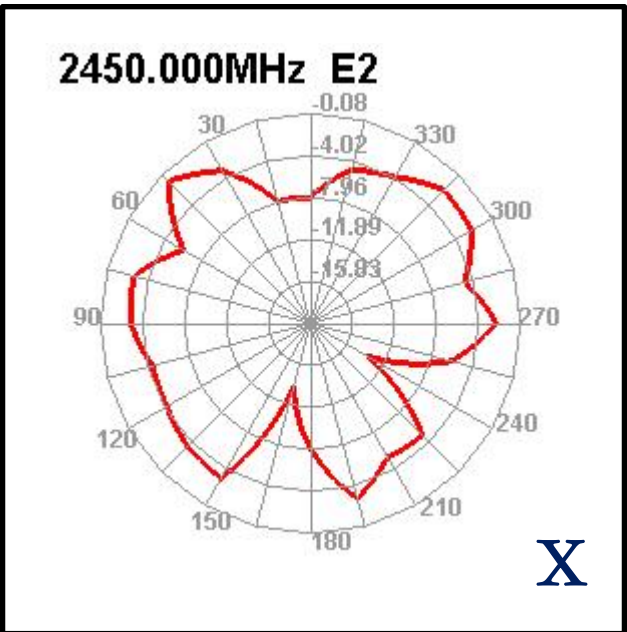
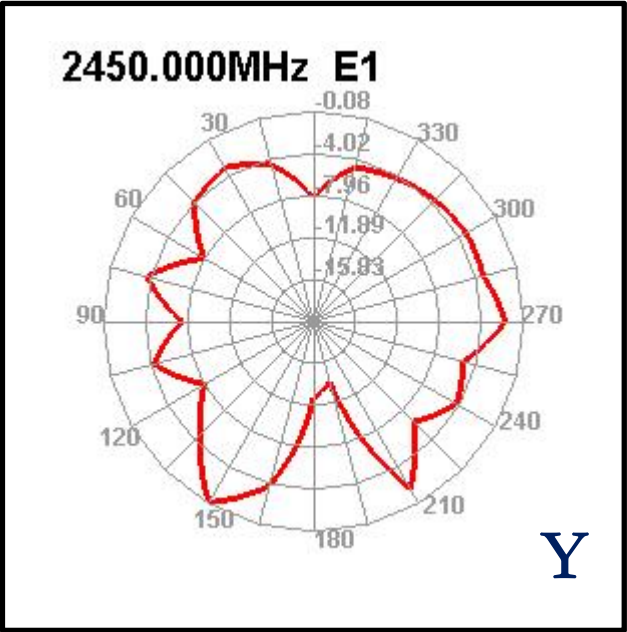
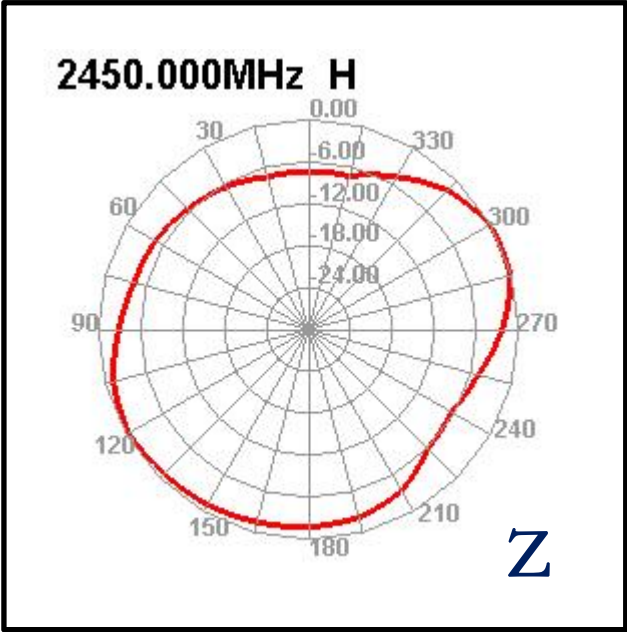
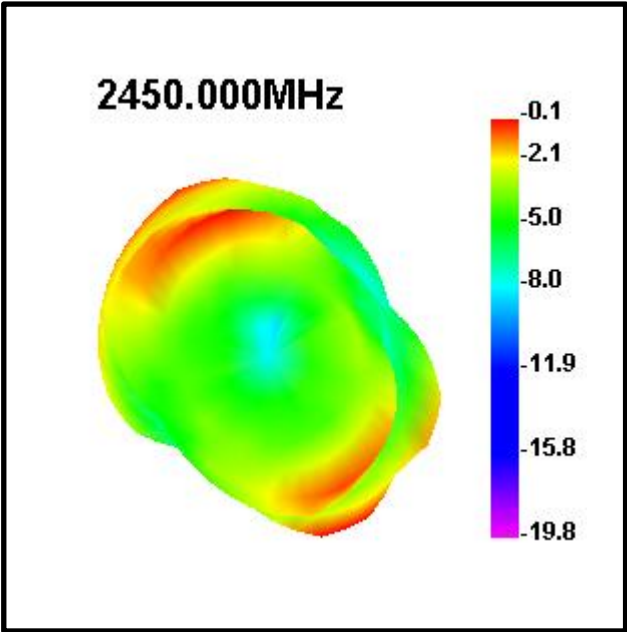
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9.Radiation Pattern

9-1.2D Gain complete machine (Radiation Pattern at 2450 MHz)



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9-2.complete machine Efficiency Table

Frequency(MHz)	2400	2420	2450	2460	2480	2500
Efficiency (dB)	-2.22	-1.71	-2.09	-2.13	-2.24	-2.07
Efficiency (%)	27.9	29.3	30	29	28.7	26
Gain (dBi)	1.02	1.15	1.24	1.23	1.06	0.95

10.Revision Control:

Revision	Date	Content	Remark
A	2022-03-26	New Issued.	N/A

出货方式

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