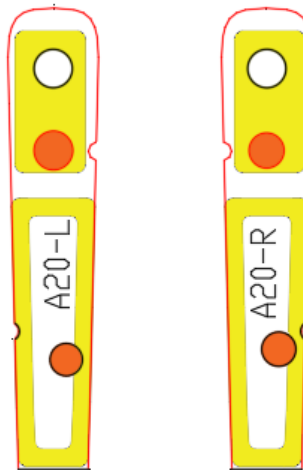


BT FPC Antenna (A20-L/R)

1. Explanation of Product Number

S	2	B	4	B	B	1	F	1	B	1	8	0	0	0
				(1)		(2)		(3)		(4)		(5)		



Product Description:

(1) Product Categories:

B:BT Antenna

(2) Dimensions:

B1:28.68*5.65*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 : ± Hole Dia. : ±



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Scale : X.X

Unit : mm

Drawn By : Shelley

Checked By : Simon

Designed By : Simon

Approved By : SIMON

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TITLE : BT FPC Antenna(A20-L/R)

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A

2. Features

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

3. Applications

- *BT

4. Description

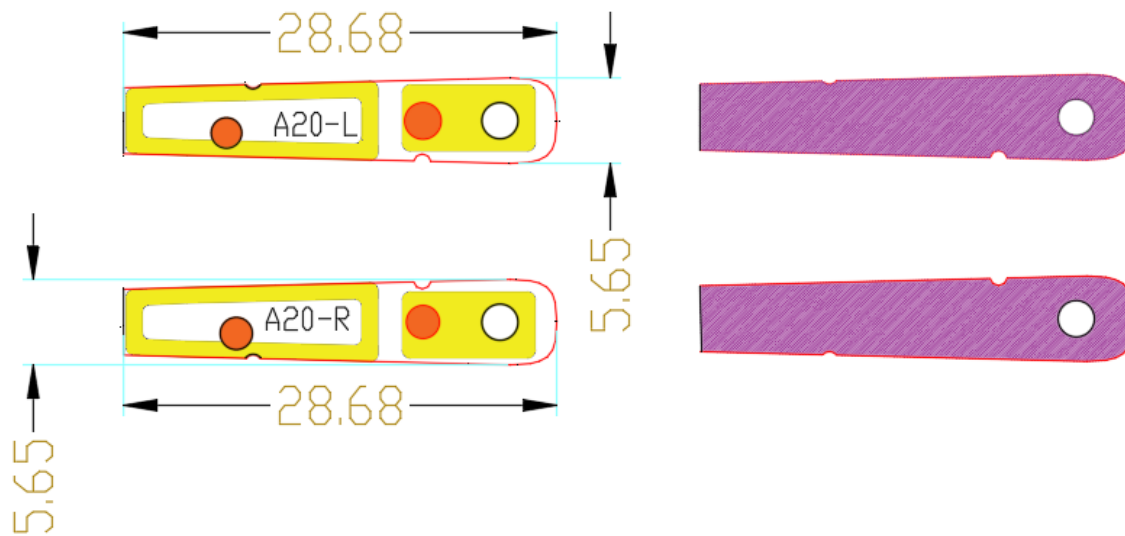
* YINGFENMG FPC antenna series are specially designed for 2.4G-2.5G band application. Based on YINGFENG proprietary designs and processes, this FPC antenna has excellent stability and sensitivity to consistently provide high signal reception efficiency.

5. Antenna Electrical Specifications :

Characteristics	Specifications			Unit
Outline Dimensions	28.68*5.65 *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	-14.98	-30	-15.34	
VSWR Table	VSWR			
Freq.Band	2.4G Hz	2.45G Hz	2.5G Hz	
	1.48	1.65	1.43	
GAIN Table	Total Gain = Xpol + Ppol			
Freq.Band	2400MHz	2450MHz	2485MHz	2500MHz
Peak Gain(dBi)	1.02	1.45	1.58	1.26

6. Dimensions (unit: mm)

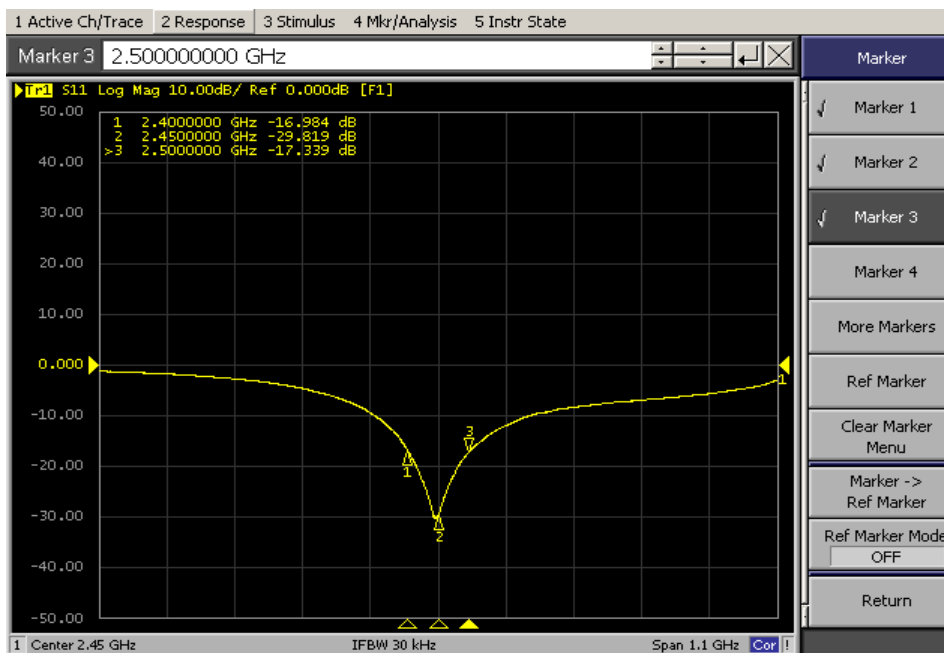
Tolerances (Unless otherwise specified) X : ± 1 X.X : ± 0.1 X.XX : ± 0.01 Angle : \pm Hole Dia. : \pm		 深圳市迎丰天线技术有限公司	THIS SPECIFICATION IS THE PROPERTY OF UNICTRON TECHNOLOGIES CORPORATION AND SHALL NOT BE REPRODUCED OR USED IN ALL CIRCUMSTANCES WITHOUT WRITTEN PERMISSION	
Scale : X.X	Unit : mm			
Drawn By : Shelley	Checked By : Simon			
Designed By : Simon	Approved By : SIMON			
TITLE : BT FPC Antenna(A20-L/R)		PART NO.	S2B4BB1F1B18000	REV. A



公差: $\pm 0.2\text{mm}$

7. Measurement Characteristics:

(1) Return Loss



Tolerances (Unless otherwise specified)

X : ± 1 X.X : ± 0.1 X.XX : ± 0.01

Angle : \pm Hole Dia. : \pm

Scale : X.X

Unit : mm

Drawn By : Shelley

Checked By : Simon

Designed By : Simon

Approved By : SIMON



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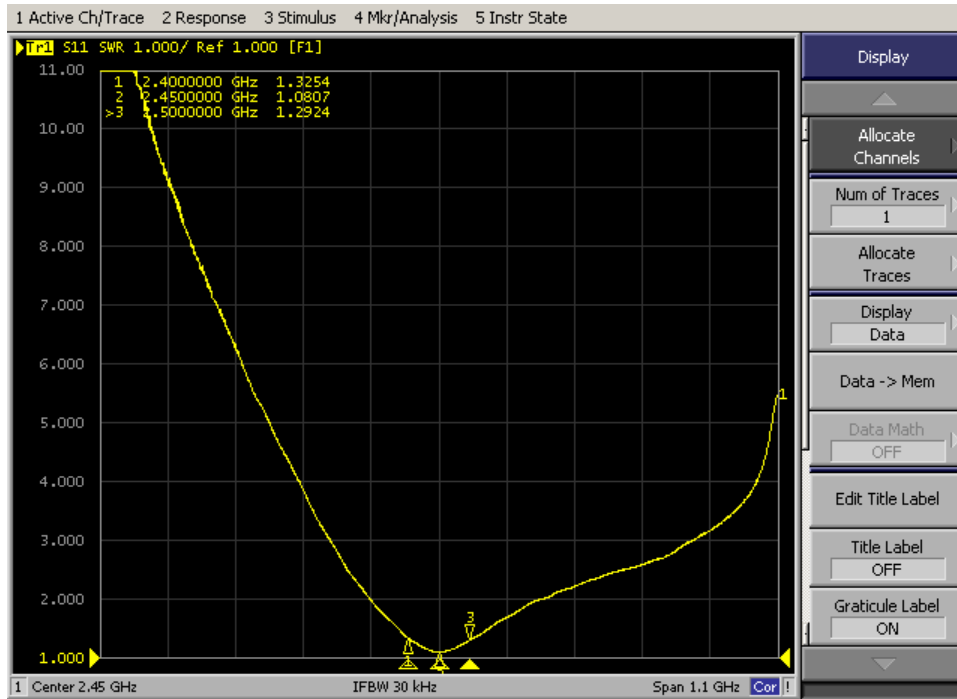
TITLE : BT FPC Antenna(A20-L/R)

PART
NO.

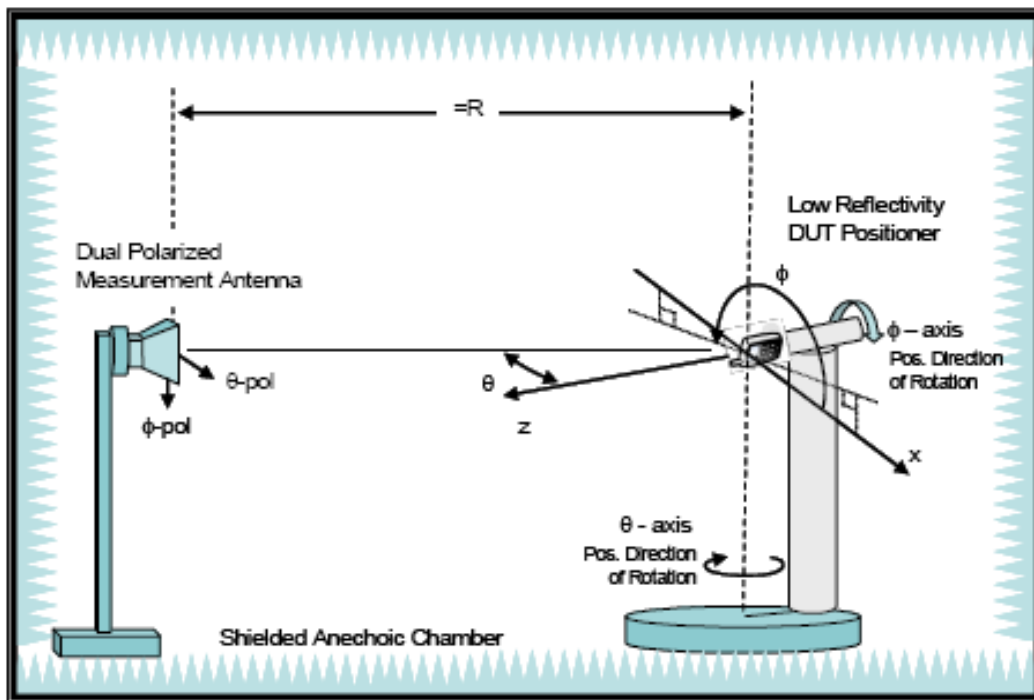
S2B4BB1F1B18000

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(2) VSWR



8. Three D Radiation Pattern measurements



Tolerances (Unless otherwise specified)

X : ± 1 X.X : ± 0.1 X.XX : ± 0.01

Angle : \pm Hole Dia. : \pm

Scale : X.X

Unit : mm

Drawn By : Shelley

Checked By : Simon

Designed By : Simon

Approved By : SIMON



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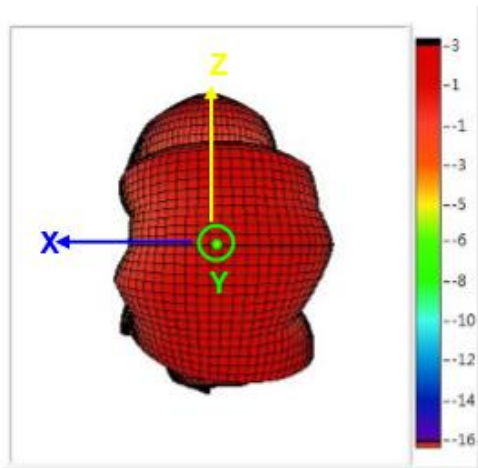
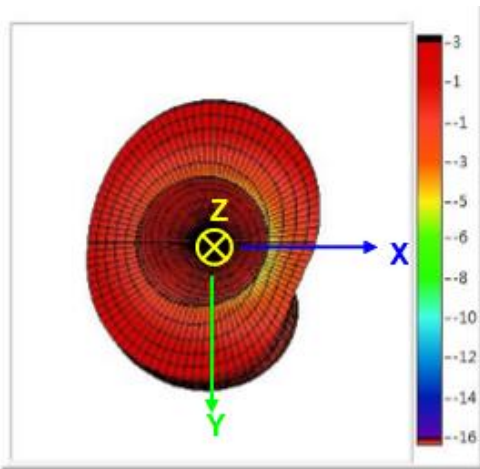
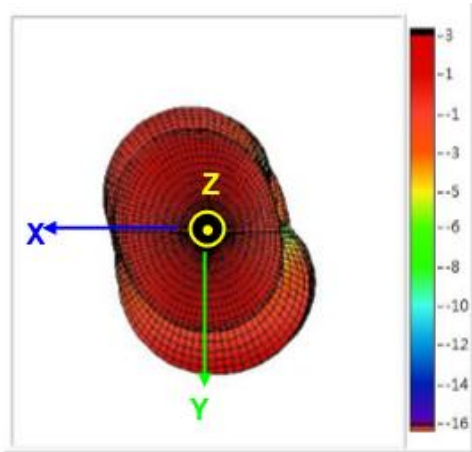
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9.Radiation Pattern

9-1.3D Gain Pattern (Radiation Pattern at 2450 MHz)



Tolerances (Unless otherwise specified)
 X : ± 1 X.X : ± 0.1 X.XX : ± 0.01
 Angle : \pm Hole Dia. : \pm



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Scale : X.X	Unit : mm
Drawn By : Shelley	Checked By : Simon
Designed By : Simon	Approved By : SIMON

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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	32.3	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	Mar.5.2021	New Issued.	N/A

Tolerances (Unless otherwise specified)

X : ± 1 X.X : ± 0.1 X.XX : ± 0.01

Angle : ± Hole Dia. : ±



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Scale : X.X

Unit : mm

Drawn By : Shelley

Checked By : Simon

Designed By : Simon

Approved By : SIMON

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TITLE : BT FPC Antenna(A20-L/R)

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