#### SHEN ZHEN YINGFENG ANTENNA TECHNOLOYCO.,LTD

412, Building 7, Phase II, Nanshan Yungu Entrepreneurship Park, No. 2 Pingshan 1st Road, Pingshan Community, Taoyuan Street, Nanshan District, Shenzhen, China

## BT FPC Antenna (S23)

## 1. Explanation of Product Number

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



#### **Product Description:**

(1) Product Categories:

**B:BT** Antenna

(2) Dimensions:

B1:10.70\*10 (mm)

(3) Material:

F: FPC

(4) Working Frequencies:

1B: 2.4G-2.5G

(5) Antenna Series:

			PAGE 1 OI	- 6	
TITLE: BT FPC Antenna(S23)		NO.	S2B4BB1F1B54000	Α	
		PART	COD 4DD4 F4 DF 4000	REV.	
Designed By :Simon	Approved By :Simon	CIRCUMSTANCES WITHOUT WRITTEN PERMISSION			
Drawn By : Shelley Checked By : Simon		THIS SPECIFICATION IS THE PROPERTY OF UNICTRON TECHNOLOGIES CORPORATION AND SHALL NOT BE REPRODUCED OR USED IN ALL			
Scale :	Unit : mm	THE CRECIFICATION IS THE PROPERTY OF UNICEPON TECHNOLOGIS			
Angle: ± Hole Dia.: ± SHEN ZHEN YINGFENG ANTENNA TECHNOLOGYCO.,		-			
X: ± 1		深圳	市迎丰天线技术有限公司	<u></u>	
Tolerances (Unless otherwise specified)		<b>ھ</b>			
01: Seri	al number				

#### 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.

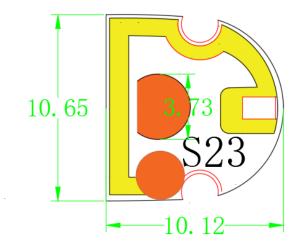
## **5.** Antenna Electrical Specifications :

Characteristics		Spec	cificatio	ons		Unit	
Outline Dimensions	10.70			10		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	V			/SWR			
Freq.Band	2.4G Hz		2	2.45G Hz		2.5G Hz	
	1.18			1.08		1.29	
GAIN Table		To	tal Gair	n = Xpol + Pp	ol		
Freq.Band	2400MHz	2450	MHz	2485MHz		2500MHz	
Peak Gain(dBi)	1.51	1.	72	1.69		1.23	

Tolerances (Unless otherwise specified)							
X: ± 1	0.1 X.XX: ± 0.01						
Angle: ± Hole Dia.: ±		1 深圳					
		SHEN ZHE	SHEN ZHEN YINGFENG ANTENNA TECHNOLOGYCO.,LTD				
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		NO.	S2B4BB1F1B54000	Α			
		•	PAGE 2 O	<b>F</b> 6			
1							

## 6. Dimensions (unit: mm)

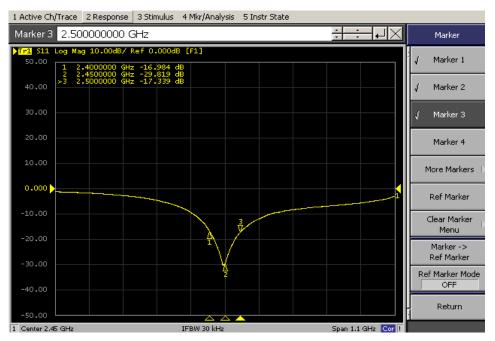
blic errand: ±0.2mm



正面加双面胶 3.5mm

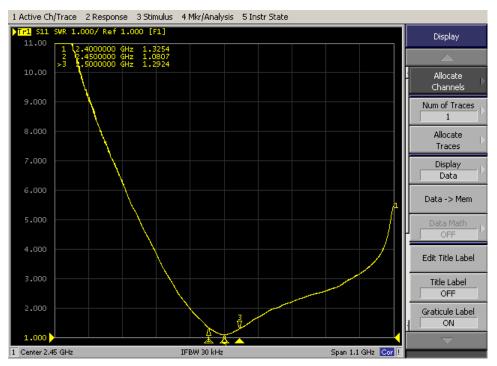
#### 7. Measurement Characteristics:

## (1) Return Loss

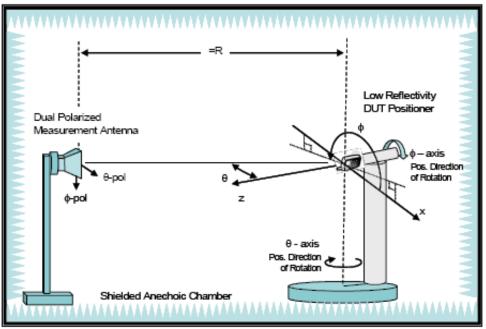


Tolerances (Unless otherwise specified)							
X: ± 1 X.X: ±	0.1 X.XX: ± 0.01						
Angle: ± Hole Dia.: ±		深圳	│				
		SHEN ZHE	SHEN ZHEN YINGFENG ANTENNA TECHNOLOGYCO.,LTD				
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Designed By :Simon	Approved By :Simon	CIRCUMSTANCES	CIRCUMSTANCES WITHOUT WRITTEN PERMISSION				
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		NO.	S2B4BB1F1B54000	Α			
		•	PAGE 3 O	F 6			

#### (2) VSWR



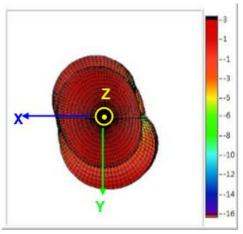
#### 8. Three D Radiation Pattern measurements

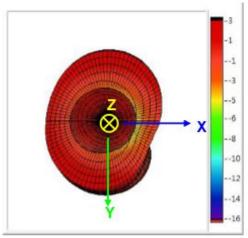


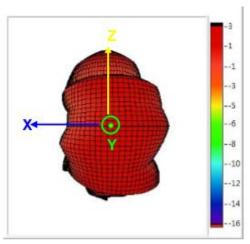
Tolerances (Unless otherwise specified)		<b>3</b>				
X: ± 1	0.1 X.XX: ± 0.01	<b>1</b>				
Angle: ±	Hole Dia. : ±		市迎丰天线技术有限公司	-		
		SHEN ZHE	N YINGFENG ANTENNA TECHNOLOGY	CO.,LID		
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TITLE: BT FPC Antenna(S23)		PART	202/22/22/22	REV.		
		NO.	S2B4BB1F1B54000	Α		
			PAGE 4 C	<b>F</b> 6		

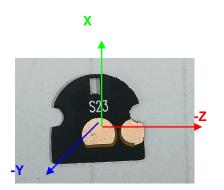
# 9.Radiation Pattern

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









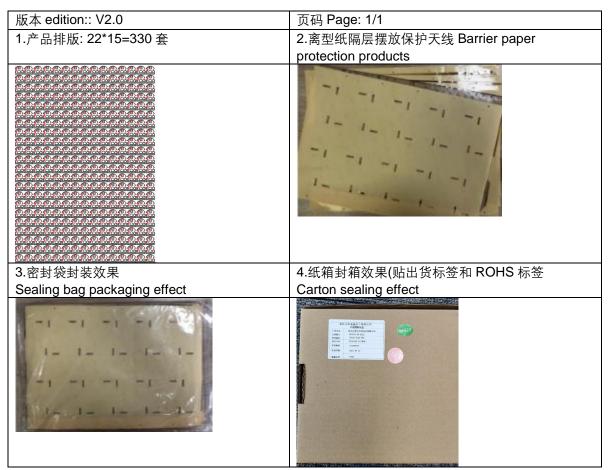
TITLE: BT FPC Antenna(S23)		NO.	32D4DD1F1D34000	Α		
		PART	S2B4BB1F1B54000	REV.		
Designed By :Simon	Approved By :Simon	CIRCUMSTANCES WITHOUT WRITTEN PERMISSION				
Drawn By : Shelley	Checked By : Simon	CORPORATION AND SHALL NOT BE REPRODUCED OR USED IN AL				
Scale :	Unit : mm	THIS SPECIFICATION IS THE PROPERTY OF UNICTRON TECHNOLOGIES				
Angle: ± Hole Dia.: ±		深圳市迎丰天线技术有限公司 SHEN ZHEN YINGFENG ANTENNA TECHNOLOGYCO.,LTD				
•	otherwise specified) : ± 0.1 X.XX : ± 0.01	-3				

### 9-2.2D Gain complete machine (Radiation Pattern at 2450 MHz)

#### 9-3.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 (%)	30.9	32.3	36	35	29.18	26
Gain (dBi)	1.51	1.62	1.72	1.7	1.69	1.23

### 10-1 产品包装 Product packaging



#### **10-2.Revision Control:**

Revision	Date	Content	Remark
Α	2024-1-17	New Issued.	N/A

TITLE: BT FPC Antenna(S23)		020700111007000	1		
TITLE : DT FDC Antonno(CO2)		\$2B4BB1F1B54000	REV.		
Approved By :Simon	CIRCUMSTANCES WITHOUT WRITTEN PERMISSION				
Checked By : Simon	CORPORATION AND SHALL NOT BE REPRODUCED OR USED IN AL				
Unit : mm	THIS SPECIFICATION IS THE PROPERTY OF LINICTRON TECHNOLOGIE				
Hole Dia. : ±			-		
• ,	<b>-3</b>				
	Unit : mm Checked By : Simon Approved By :Simon	Hole Dia.: ±  White: mm  Checked By: Simon  Approved By: Simon  PART  THIS SPECIFICATION AND CIRCUMSTANCES	Hole Dia.: ±    Wind part		