

BT FPC Antenna (OW18-R-V3)

1. Explanation of Product Number

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



Product Description:

(1) Product Categories:

B:BT Antenna

(2) Dimensions:

B1: 11.12*9.62*0.15 (mm)

(3) Material:

F: FPC

(4) Working Frequencies:

1B: 2.4G-2.5G

(5) Antenna Series:

01: Serial number

2. Features

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

SHEN ZHEN YINGFENG ANTENNA TECHNOLOGY CO., LTD

Scale :

Unit: mm

Drawn By : Andy

Checked By : Simon

Designed By : Simon

Approved By : Simon

THIS SPECIFICATION IS THE PROPERTY OF UNICTRON TECHNOLOGIES CORPORATION AND SHALL NOT BE REPRODUCED OR USED IN ALL CIRCUMSTANCES WITHOUT WRITTEN PERMISSION

TITLE: BT FPC Antenna(OW18--R-V3)

PART
NO.

S2B4BB1F1B00005

REV.

A

PAGE 1 OF 6

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

3. Applications

*BT

4. Description

* YINGFENG 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.

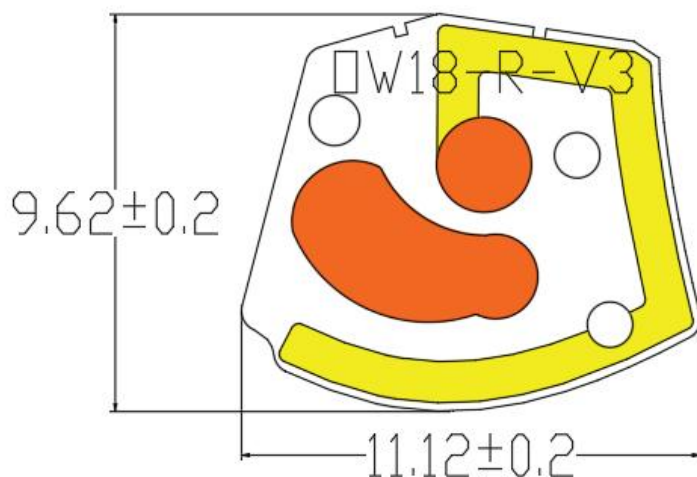
5. Antenna Electrical Specifications :

Characteristics	Specifications			Unit
Outline Dimensions	11.12*9.62*0.15			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	-13.62	-23.01	-12.50	
VSWR Table	VSWR			
Freq.Band	2.4G Hz	2.45G Hz	2.5G Hz	
	1.52	-1.15	1.62	
GAIN Table	Total Gain = Xpol + Ppol			
Freq.Band	2400MHz	2450MHz	2480MHz	2500MHz
Peak Gain(dBi)	1.35	1.52	1.95	1.51

6. Dimensions (unit: mm)

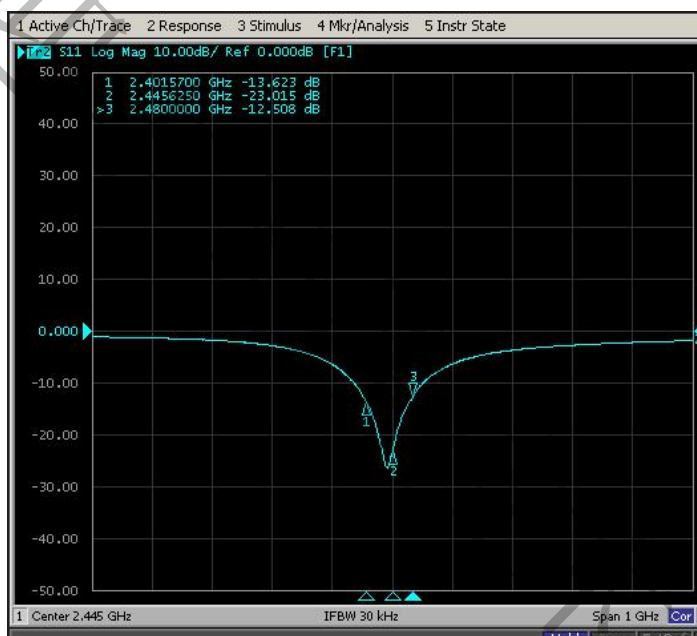
blic errand: $\pm 0.2\text{mm}$

Tolerances (Unless otherwise specified) X : ± 1 X.X : ± 0.1 X.XX : ± 0.01		 深圳市迎丰天线技术有限公司 SHEN ZHEN YINGFENG ANTENNA TECHNOLOGYCO.,LTD	
Angle : $\pm$	Hole Dia. : $\pm$		
Scale :	Unit: mm	THIS SPECIFICATION IS THE PROPERTY OF UNICTRON TECHNOLOGIES CORPORATION AND SHALL NOT BE REPRODUCED OR USED IN ALL CIRCUMSTANCES WITHOUT WRITTEN PERMISSION	
Drawn By : Andy	Checked By : Simon		
Designed By : Simon	Approved By : Simon		
TITLE: BT FPC Antenna(OW18--R-V3)		PART NO.	REV.
		S2B4BB1F1B00005	A
PAGE 2 OF 6			



7. Measurement Characteristics:

(1) Return Loss



(2) VSWR

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

SHEN ZHEN YINGFENG ANTENNA TECHNOLOGY CO., LTD

Scale :

Unit: mm

Drawn By : Andy

Checked By : Simon

Designed By : Simon

Approved By : Simon

THIS SPECIFICATION IS THE PROPERTY OF UNICTRON TECHNOLOGIES CORPORATION AND SHALL NOT BE REPRODUCED OR USED IN ALL CIRCUMSTANCES WITHOUT WRITTEN PERMISSION

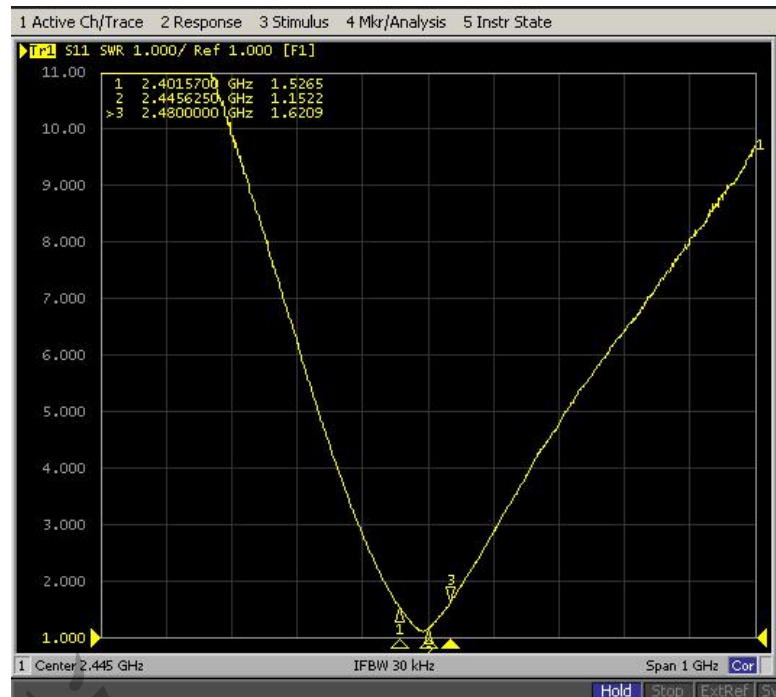
TITLE: BT FPC Antenna(OW18--R-V3)

PART
NO.

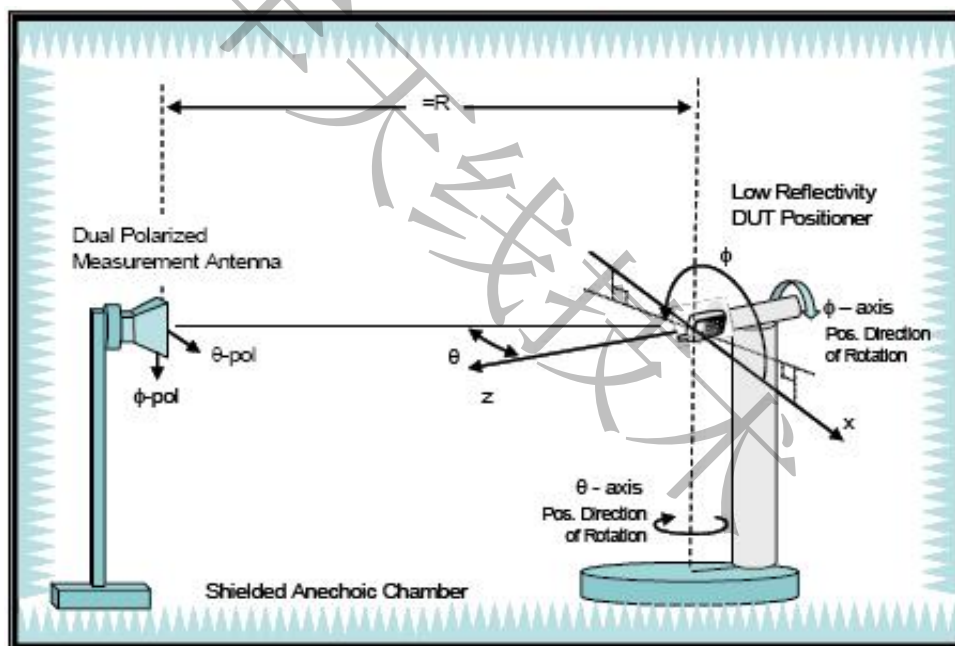
S2B4BB1F1B00005

REV.

A



8. Three D Radiation Pattern measurements



9. Radiation Pattern

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

SHEN ZHEN YINGFENG ANTENNA TECHNOLOGY CO., LTD

Scale :	Unit: mm
Drawn By : Andy	Checked By : Simon
Designed By : Simon	Approved By : Simon

THIS SPECIFICATION IS THE PROPERTY OF UNICTRON TECHNOLOGIES CORPORATION AND SHALL NOT BE REPRODUCED OR USED IN ALL CIRCUMSTANCES WITHOUT WRITTEN PERMISSION

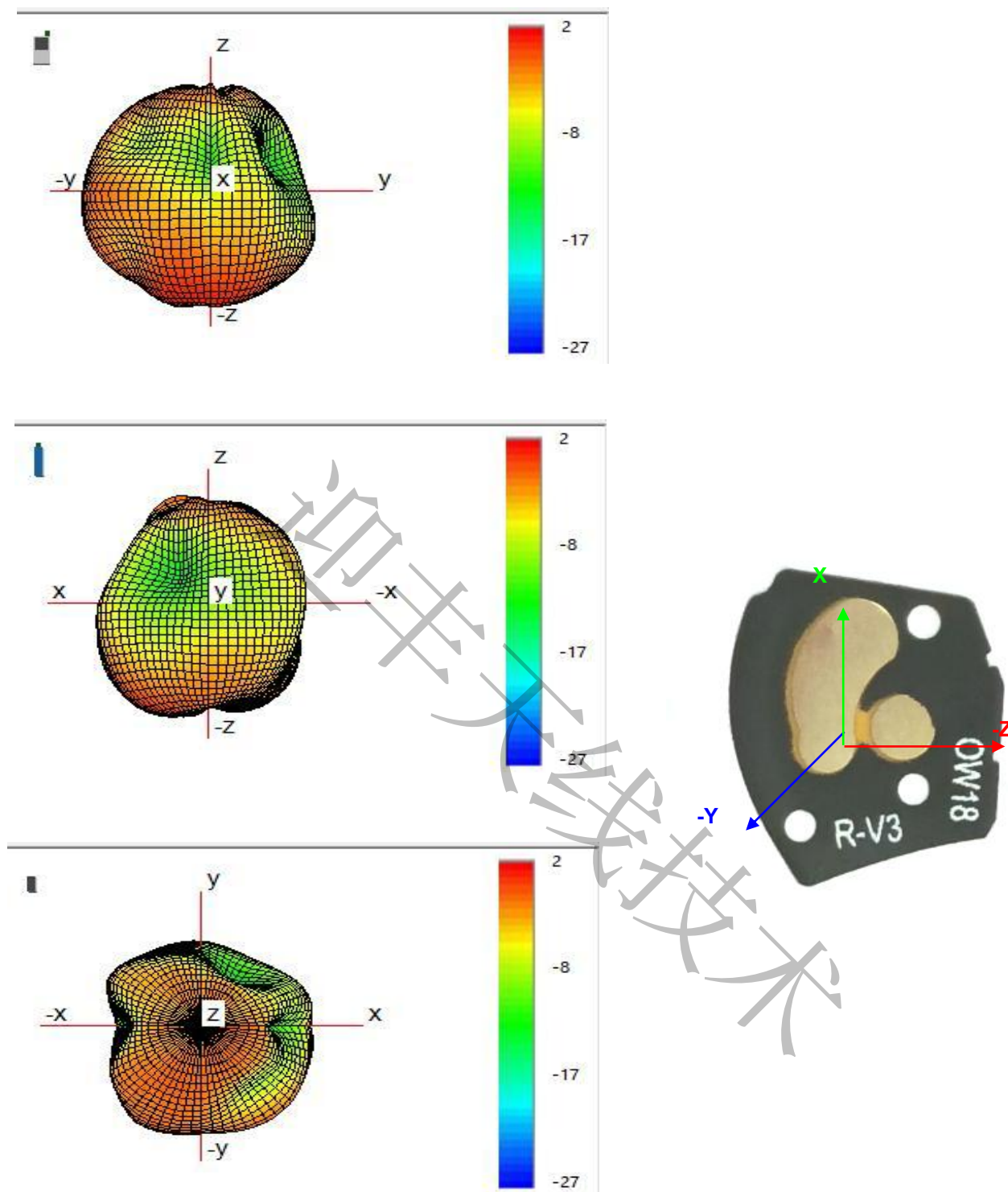
TITLE: BT FPC Antenna(OW18--R-V3)

PART
NO.

S2B4BB1F1B00005

REV.
A

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. : $\pm$



深圳市迎丰天线技术有限公司

SHEN ZHEN YINGFENG ANTENNA TECHNOLOGY CO., LTD

Scale : Unit: mm

Drawn By : Andy Checked By : Simon

Designed By : Simon Approved By : Simon

THIS SPECIFICATION IS THE PROPERTY OF UNICTRON TECHNOLOGIES CORPORATION AND SHALL NOT BE REPRODUCED OR USED IN ALL CIRCUMSTANCES WITHOUT WRITTEN PERMISSION

TITLE: BT FPC Antenna(OW18--R-V3)

PART
NO.

S2B4BB1F1B00005

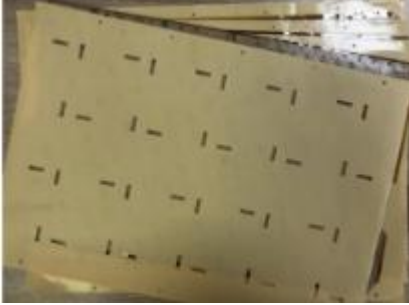
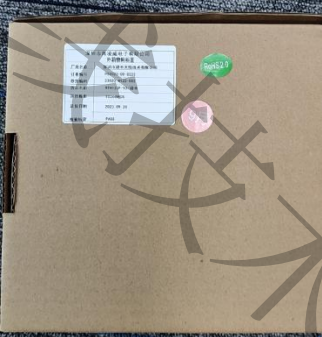
REV.

A

9-2.complete machine Efficiency Table

Frequency(MHz)	2400	2420	2450	2460	2480	2500
Efficiency (%)	37.22	35.31	33.81	31.32	32.62	33.14
Gain (dBi)	1.35	1.93	1.52	1.23	1.95	1.51

10-1 产品包装 Product packaging

版本 edition:: V3.0	页码 Page: 1/1
1.产品排版: 24*8=192PCS	2.离型纸隔层摆放保护天线 Barrier paper protection products
	
3.密封袋封装效果 Sealing bag packaging effect	4.纸箱封箱效果(贴出货标签和 ROHS 标签) Carton sealing effect
	

10-2.Revision Control:

Revision	Date	Content	Remark
A	2025-05-19	New Issued.	N/A

Tolerances (Unless otherwise specified)
X : ± 1 X.X : ± 0.1 X.XX : ± 0.01

Angle : ± Hole Dia. : ±

Scale :	Unit: mm
Drawn By : Andy	Checked By : Simon
Designed By :Simon	Approved By :Simon



深圳市迎丰天线技术有限公司

SHEN ZHEN YINGFENG ANTENNA TECHNOLOGYCO.,LTD

THIS SPECIFICATION IS THE PROPERTY OF UNICTRON TECHNOLOGIES CORPORATION AND SHALL NOT BE REPRODUCED OR USED IN ALL CIRCUMSTANCES WITHOUT WRITTEN PERMISSION

TITLE: BT FPC Antenna(OW18--R-V3)	PART NO.	S2B4BB1F1B00005	REV.
			A