

# BT FPC Antenna (i59-R)

## 1. Explanation of Product Number

S	2	B	4	B	B	1	F	1	B	0	5	6	0	0
				(1)	(2)	(3)	(4)	(5)						



### Product Description:

(1) Product Categories:

B:BT Antenna

(2) Dimensions:

B1: 20.82\*15.55 \*0.15 (mm)

(3) Material:

F: FPC

(4) Working Frequencies:

1B: 2.4G-2.5G

(5) Antenna Series:

01: Serial number

Tolerances (Unless otherwise specified)

X :  $\pm 1$       X.X :  $\pm 0.1$       X.XX :  $\pm 0.01$

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

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TITLE : BT FPC Antenna(i59-R)

PART  
NO.

S2B4BB1F1B05600

REV.

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	20.82*15.55 *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	0.96	1.95	1.51

Tolerances (Unless otherwise specified)  
X :  $\pm 1$       X.X :  $\pm 0.1$       X.XX :  $\pm 0.01$

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



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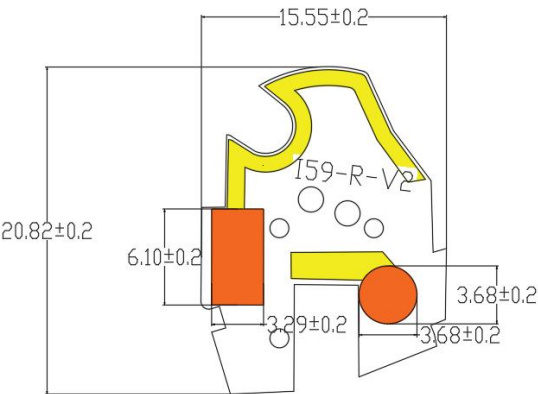
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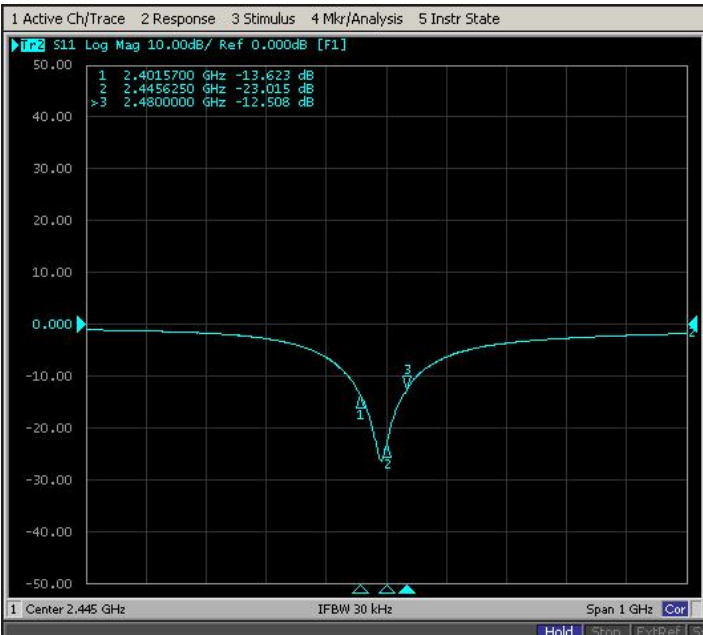
6. Dimensions (unit: mm)

blic errand : ±0.2mm



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. : ±



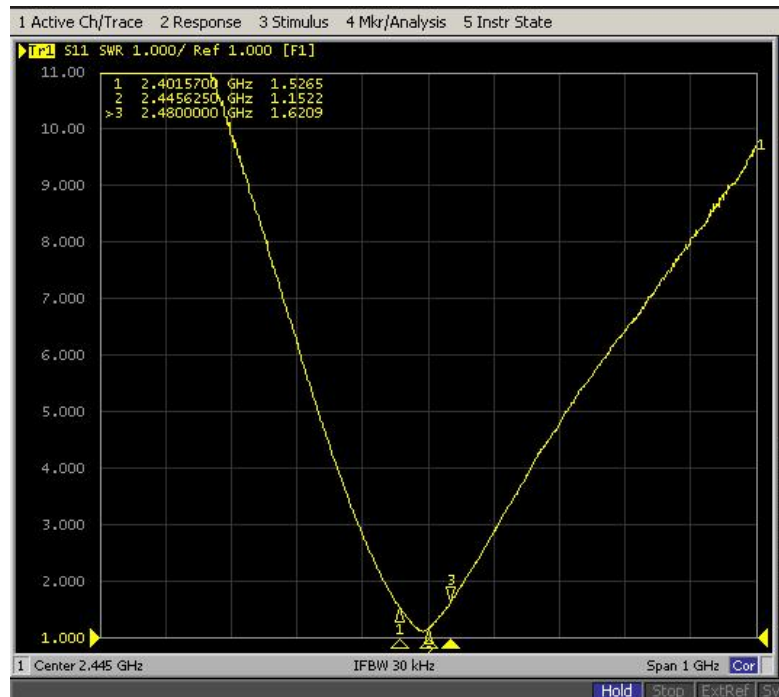
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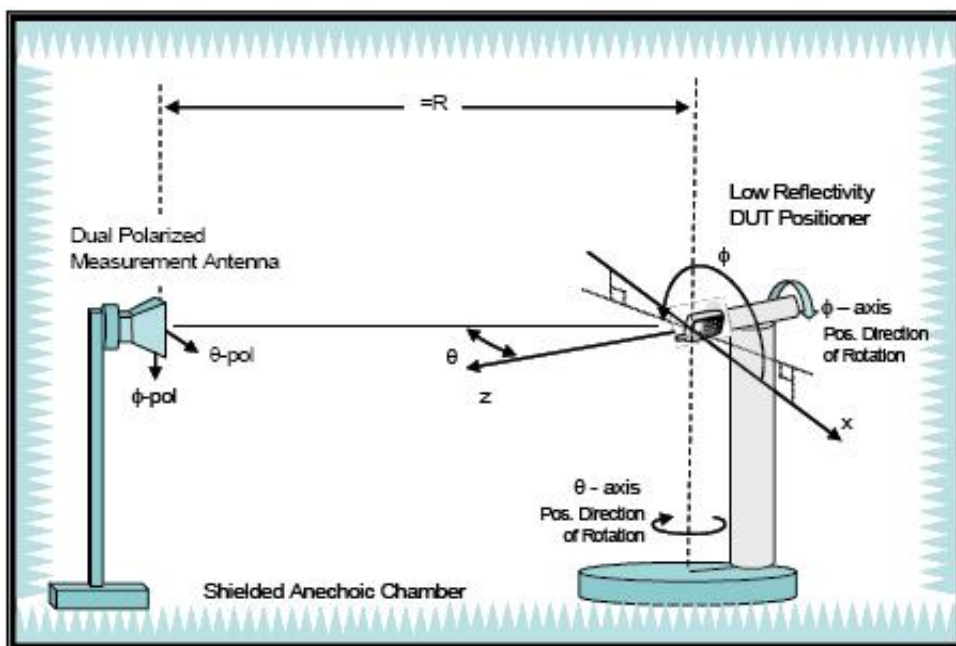
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## 8. Three D Radiation Pattern measurements



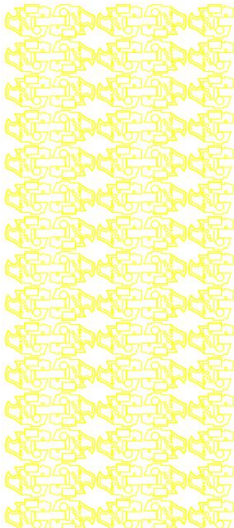



## 9. Radiation Pattern

Tolerances (Unless otherwise specified) X : ± 1                    X.X : ± 0.1                    X.XX : ± 0.01		 <b>深圳市迎丰天线技术有限公司</b> <b>SHEN ZHEN YINGFENG ANTENNA TECHNOLOGYCO.,LTD</b>	
Angle : ±			

9-3.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:: V2.0	页码 Page: 1/1
1.产品排版: 15*5=75PCS	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	2024-08-27	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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