

BT FPC Antenna (ZT239-V4-L)

1. Explanation of Product Number

S	2	B	4	B	B	1	F	1	B	1	7	0	0	0
				(1)	(2)	(3)	(4)			(5)				



Product Description:

(1) Product Categories:

B:BT Antenna

(2) Dimensions:

B1: 22.99*4.60*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 : ± 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

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PART
NO.

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REV.

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2. Features

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

3. Applications

*BT

4. Description

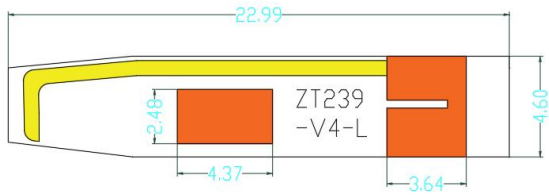
* YINGFENG FPC antenna series are specially designed for 2.4G-2.5G band application. Based on YINGFENG proprietary designs and processes, this FPC antenna has excellent stability and sensitivity to consistently provide high signal reception efficiency.

5. Antenna Electrical Specifications :

Characteristics	Specifications			Unit
Outline Dimensions	22.99*4.60*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	-17.17	-36.47	-21.06	
VSWR Table	VSWR			
Freq.Band	2.4G Hz	2.45G Hz	2.5G Hz	
	1.32	1.03	1.19	
GAIN Table	Total Gain = Xpol + Ppol			
Freq.Band	2400MHz	2450MHz	2480MHz	2500MHz
Peak Gain(dBi)	35.89	38.46	37.52	35.01

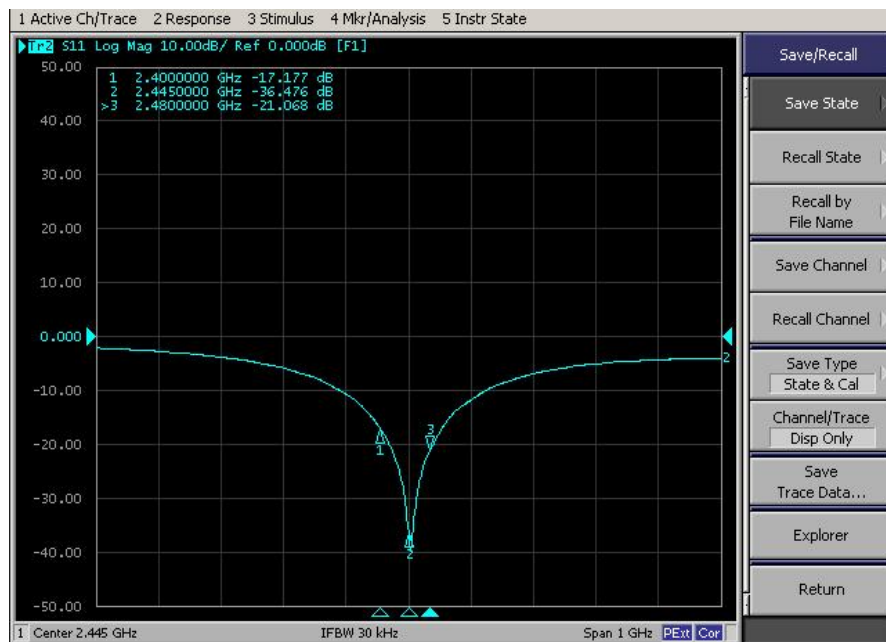
6. Dimensions (unit: mm)

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 : ±			

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

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. : $\pm$ 

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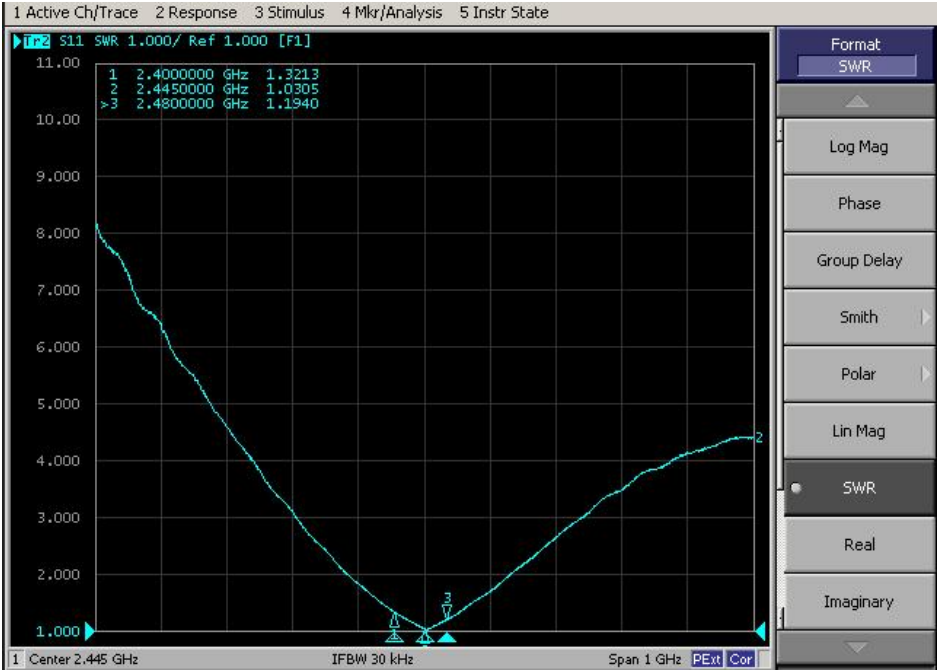
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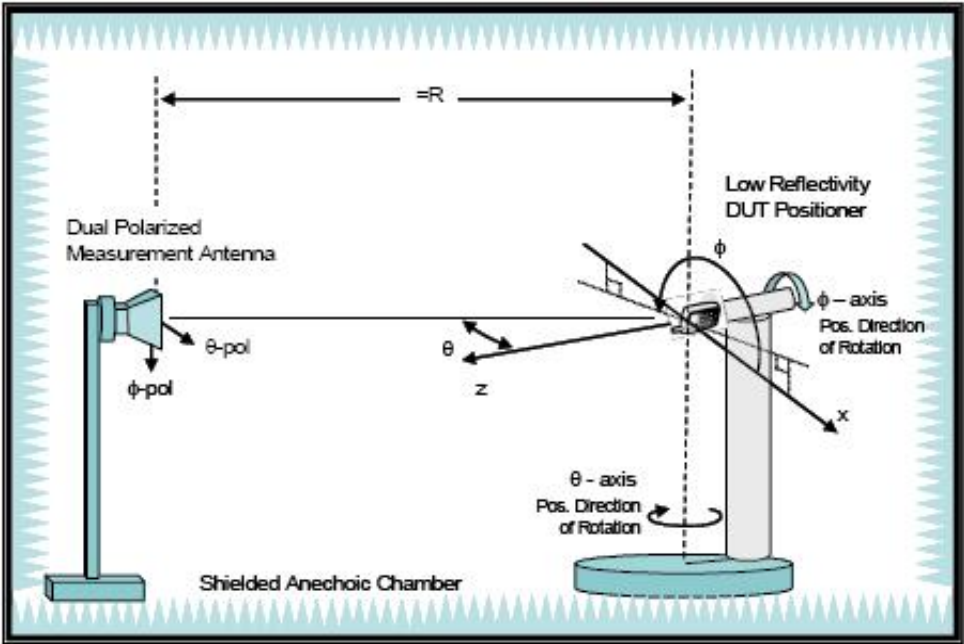
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8. Three D Radiation Pattern measurements



9.Radiation Pattern

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



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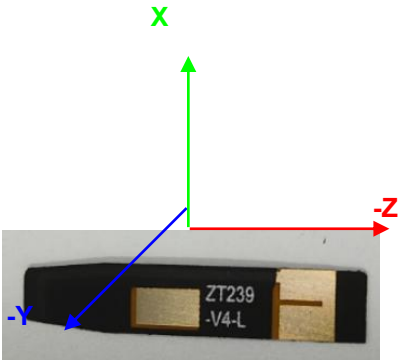
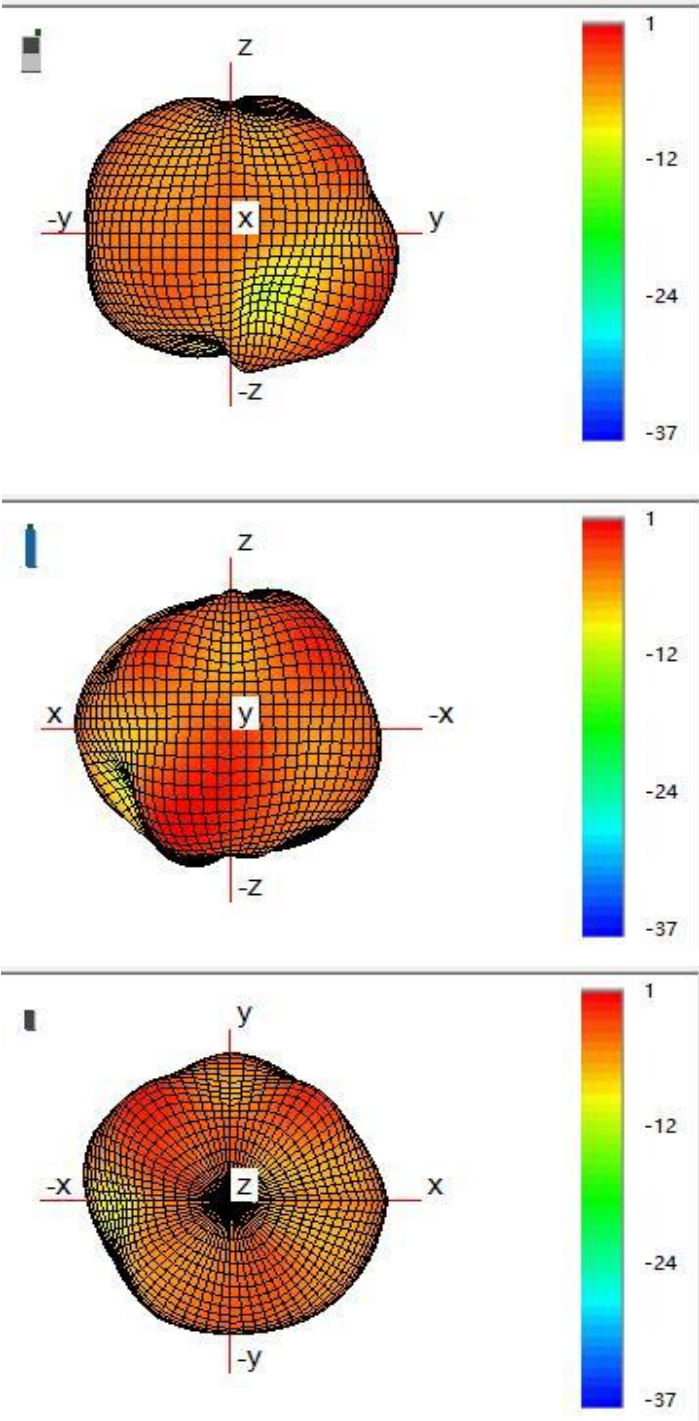
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9-1.3D Gain Pattern (Radiation Pattern at 2450 MHz)

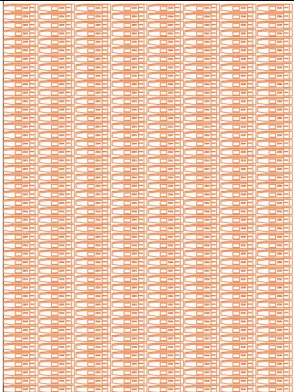


9-3.complete machine Efficiency Table

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 TECHNOLOGYCO.,LTD	
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Frequency(MHz)	2400	2420	2450	2460	2480	2500
Efficiency (%)	35.89	36.77	38.46	36.72	37.52	35.01
Gain (dBi)	1.41	1.49	1.63	1.20	1.84	1.39

10-1 产品包装 Product packaging

版本 edition:: V4.0	页码 Page: 1/1
1.产品排版: 45*8=360PCS	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
B	2026.01.26	New Issued.	N/A

10-3.Technology and Materials:

1. Technology (工艺) :油墨 优力哑黑 白色字符 沉金 1U 半切离型膜出货
2.Materials (材料) : 电解铜一对半 背胶 3M9471

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Angle : $\pm$

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