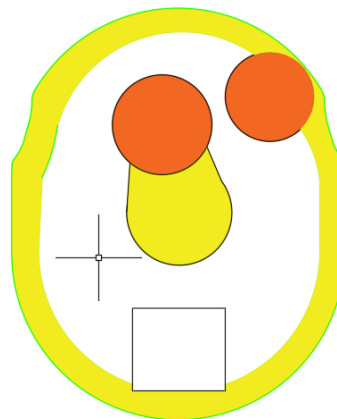


BT FPC Antenna (P3)

1. Explanation of Product Number

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



Product Description:

(1) Product Categories:

B:BT Antenna

(2) Dimensions:

B1:9.7*12*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 : ± Hole Dia. : ± | | | | |
| 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 : Shelley | Checked By : Simon | | | |
| Designed By :Simon | Approved By :Simon | | | |
| TITLE : BT FPC Antenna(P3) | | PART NO. | S2B4BB1F1B51000 | REV. |
| | | | | A |
| PAGE 1 OF 6 | | | | |

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 | 9.7 *12*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 | -16.98 | -29.81 | -17.34 | |
| VSWR Table | VSWR | | | |
| Freq.Band | 2.4G Hz | 2.45G Hz | 2.5G Hz | |
| | 1.18 | 1.08 | 1.29 | |
| GAIN Table | Total Gain = Xpol + Ppol | | | |
| Freq.Band | 2400MHz | 2450MHz | 2485MHz | 2500MHz |
| Peak Gain(dBi) | 1.51 | 1..72 | 1.69 | 1.23 |

Tolerances (Unless otherwise specified)

X : ± 1 X.X : ± 0.1 X.XX : ± 0.01

Angle : \pm Hole Dia. : \pm

Scale : Unit : mm

Drawn By : Shelley Checked By : Simon

Designed By :Simon Approved By :Simon

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TITLE : BT FPC Antenna(P3)

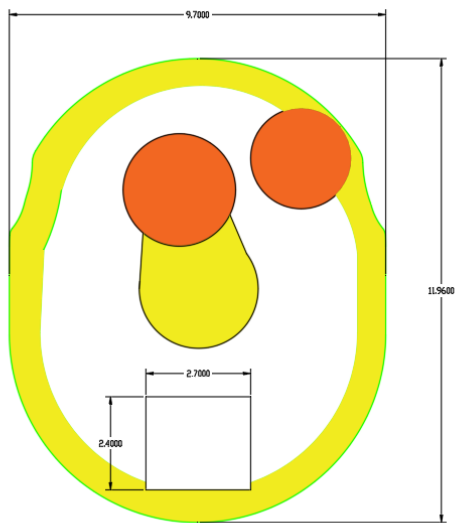
PART
NO.

S2B4BB1F1B51000

REV.
A

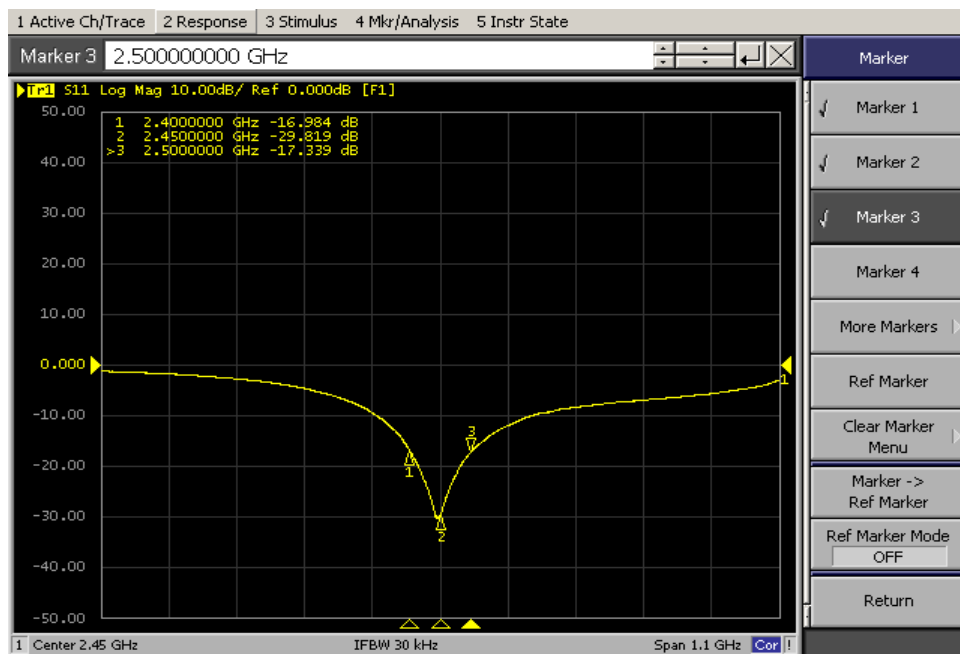
6. Dimensions (unit: mm)

blic errand: ±0.2mm



7. Measurement Characteristics:

(1) Return Loss



| | |
|---|--------------------|
| Tolerances (Unless otherwise specified) | |
| X : ± 1 X.X : ± 0.1 X.XX : ± 0.01 | |
| Angle : ± Hole Dia. : ± | |
| Scale : | Unit : mm |
| Drawn By : Shelley | Checked By : Simon |
| Designed By :Simon | Approved By :Simon |

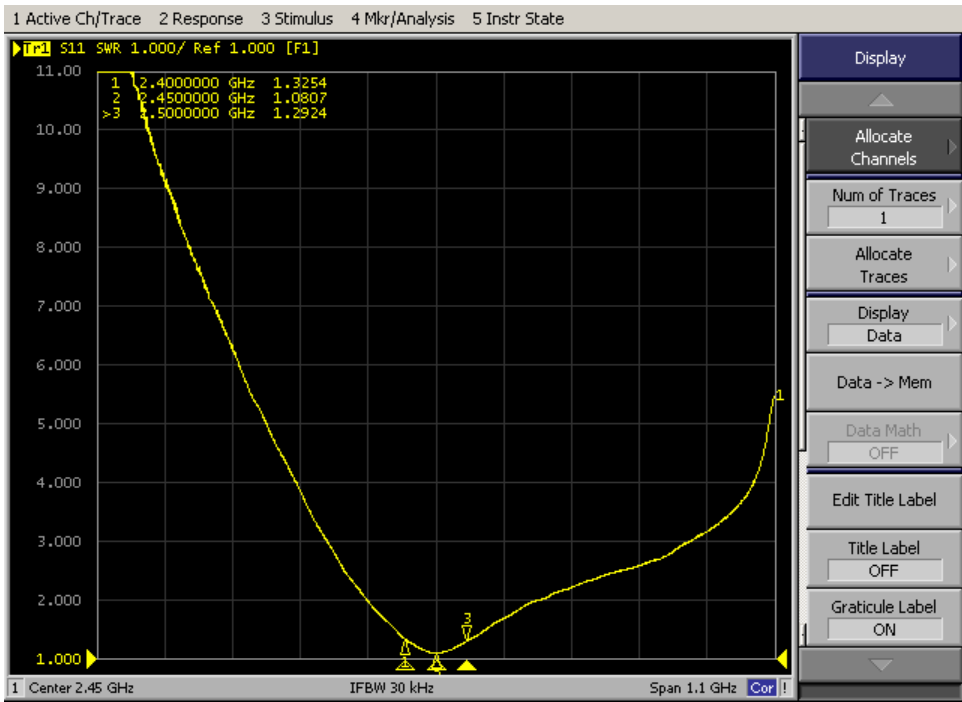


深圳市迎丰天线技术有限公司

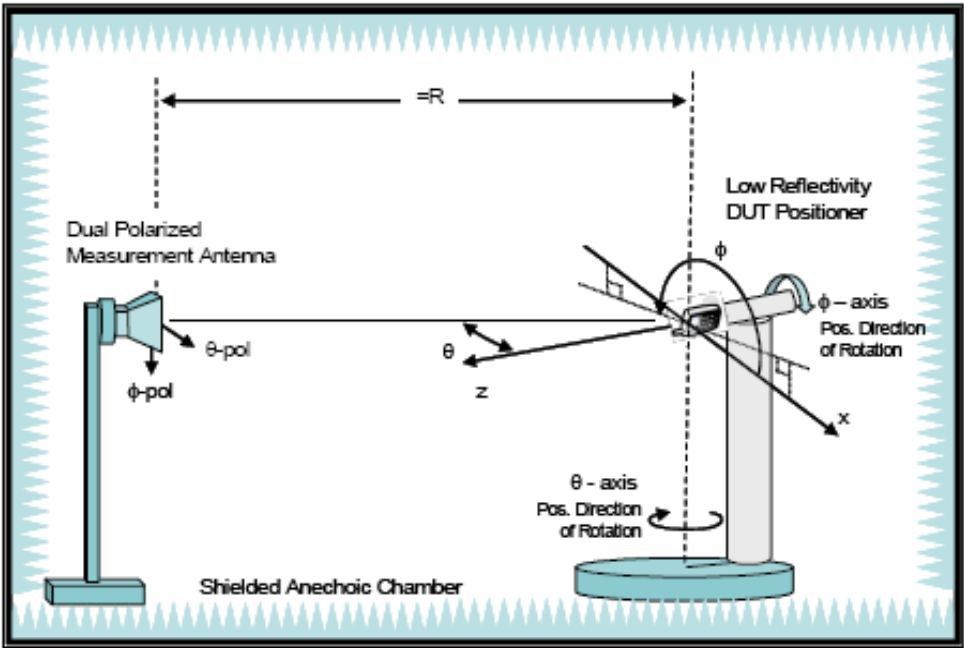
SHEN ZHEN YINGFENG ANTENNA TECHNOLOGYCO.,LTD

| | | | |
|----------------------------|----------|-----------------|------|
| TITLE : BT FPC Antenna(P3) | PART NO. | S2B4BB1F1B51000 | REV. |
| | | | A |

(2) VSWR



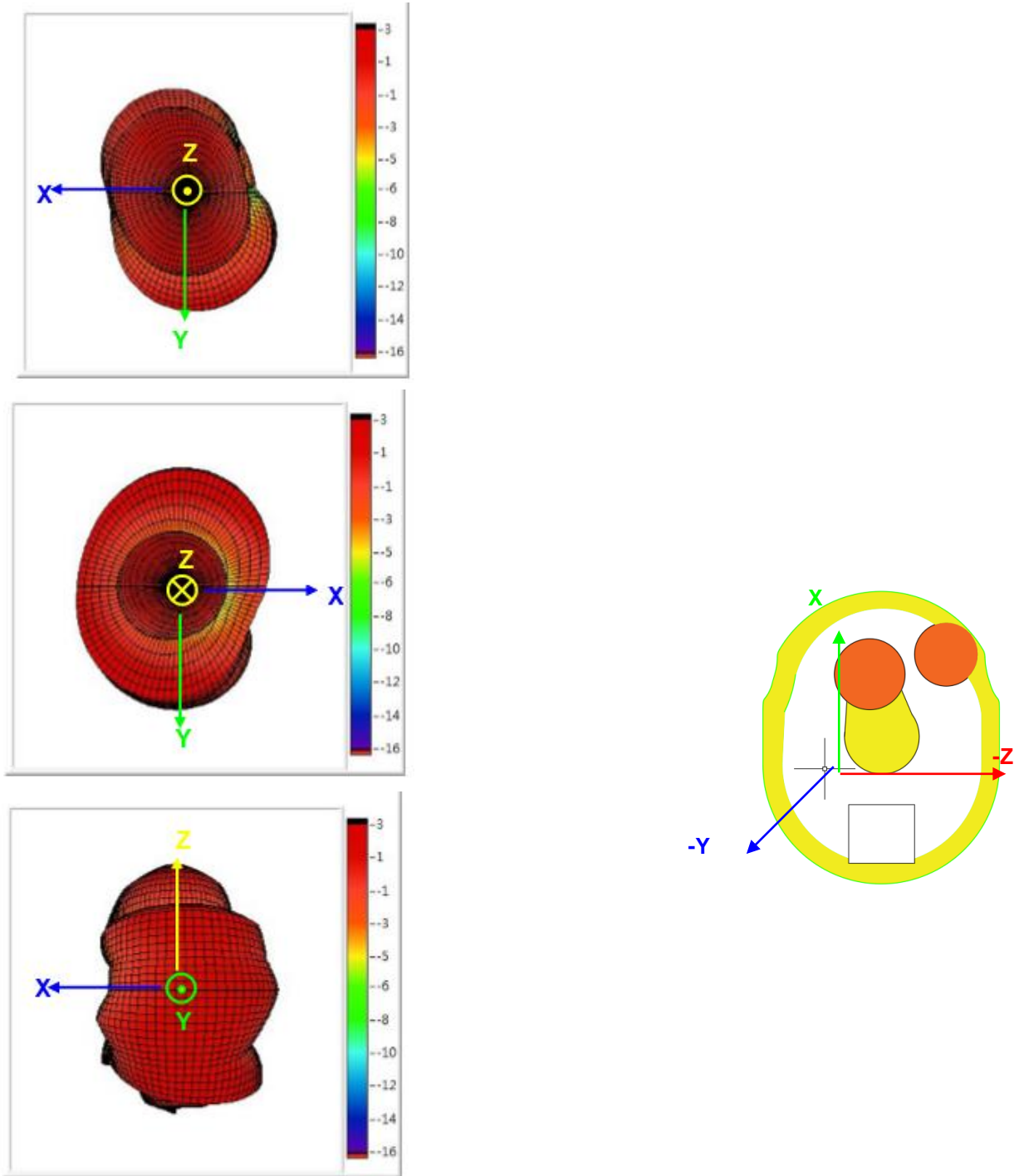
8. Three D Radiation Pattern measurements



| | | | |
|--|--------------------|---|------|
| Tolerances (Unless otherwise specified) X : ± 1 X.X : ± 0.1 X.XX : ± 0.01 Angle : ± Hole Dia. : ± | | | |
| 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 : Shelley | Checked By : Simon | | |
| Designed By :Simon | Approved By :Simon | | |
| TITLE : BT FPC Antenna(P3) | | PART NO. | REV. |
| | | S2B4BB1F1B51000 | A |

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 : ± Hole Dia. : ± | | | |
| 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 : Shelley | Checked By : Simon | | |
| Designed By :Simon | Approved By :Simon | | |
| TITLE : BT FPC Antenna(P3) | | PART NO. | REV. |
| | | | A |
| | | S2B4BB1F1B51000 | |

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

| | |
|---|--|
| 版本 edition:: V1.0 | 页码 Page: 1/1 |
| 1.产品排版: 24*13=312 套 | 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 | 2024-01-08 | 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 : Shelley | Checked By : Simon |
| Designed By :Simon | Approved By :Simon |

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| | | | |
|----------------------------|----------|-----------------|------|
| TITLE : BT FPC Antenna(P3) | PART NO. | S2B4BB1F1B51000 | REV. |
| | | | A |