BT FPC Antenna (P2 (Supsleep Audio P2))

1. Explanation of Product Number

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





Product Description:

(1) Product Categories:

B:BT Antenna

(2) Dimensions:

B1:12.3*9.4*0.12 (mm)

(3) Material:

F: FPC

(4) Working Frequencies:

1B: 2.4G-2.5G

(5) Antenna Series:

01: Serial number

| TITLE: BT FPC Antenna(P2 (Supsleep Audio P2)) | | NO. | 32D4DD1F1D10000 | Α | |
|---|-----------|--|--------------------------------------|-----------|--|
| | | PART | S2B4BB1F1B16000 | 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 | THIS SPECIFICATION | ON IS THE DROBERTY OF LINICTRON TECH | INOLOCIES | |
| Angle: ± Hole Dia.: ± | | 1 2 | | | |
| X: ± 1 | | Shenzhen Yingfeng Antenna Technology Co., Ltd 501, No. 185, Pingshan Village, No. 2, Lishan Road, Pingshan Community, Taoyuan Street, Nanshan District, Shenzhen | | | |
| Tolerances (Unless otherwise specified) | | Shenzhen Yingfeng Antenna Technology Co., Ltd | | | |

2. Features

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

3. Applications

*BT

4. Description

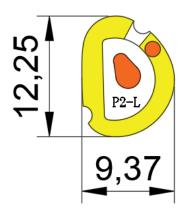
* YINGFENMG FPC antenna series are specially designed for 2.4G-2.5G band application. Based on YINGFENG proprietary designs and processes, this FPC antenna has excellent stability and sensitivity to consistently provide high signal reception efficiency.

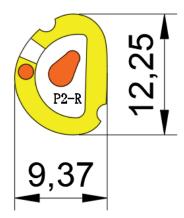
5. Antenna Electrical Specifications:

| Characteristics | Specifications | | | Unit | | | |
|--------------------|--------------------------|------|------------|----------|--|---------|--|
| Outline Dimensions | | 12.3 | 3*9.4 *0.′ | 12 | | mm | |
| Frequency | | 24 | 100~2500 |) | | 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 | 2.45G Hz | | 2.5G Hz | |
| | 1.32 | | | 1.08 | | 1.29 | |
| GAIN Table | Total Gain = Xpol + Ppol | | | | | | |
| Freq.Band | 2400MHz | 2450 | MHz | 2485MHz | | 2500MHz | |
| Peak Gain(dBi) | 1.02 | 1. | 15 | 1.24 | | 1.23 | |

| TITLE: BT FPC Antenna(P2 (Supsleep Audio P2)) | | NO. | PAGE 2 0 | A | | |
|--|--------------------|--|--|------|--|--|
| FITI E LDT FDC Antonno(DC (Complete Modilio DC)) | | PART S2B4BB1F1B16000 | | REV. | | |
| Designed By :Simon | Approved By :SIMON | CIRCUMSTANCES WITHOUT WRITTEN PERMISSION | | | | |
| Drawn By : Shelley | Checked By : Simon | THIS SPECIFICATION IS THE PROPERTY OF UNICTRON TECHNOLOGIE CORPORATION AND SHALL NOT BE REPRODUCED OR USED IN AL | | | | |
| Scale : | Unit : mm | TUIS SDECIEICATIO | ON IS THE DROBERTY OF LINICTRON TECH | | | |
| Angle: ± | Hole Dia. : ± | 1 2 | | | | |
| X: ± 1 | | Shenzhen Yingfeng Antenna Technology Co., Ltd 501, No. 185, Pingshan Village, No. 2, Lishan Road, Pingshan Community, Taoyuan Street, Nanshan District, Shenzhen | | | | |
| Tolerances (Unless oth | erwise specified) | Shenzher | n Yingfeng Antenna Technology Co., Ltd | | | |

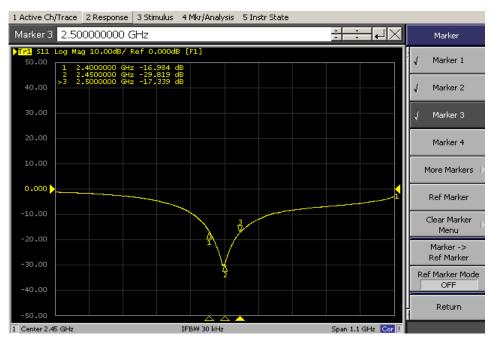
6. Dimensions (unit: mm)





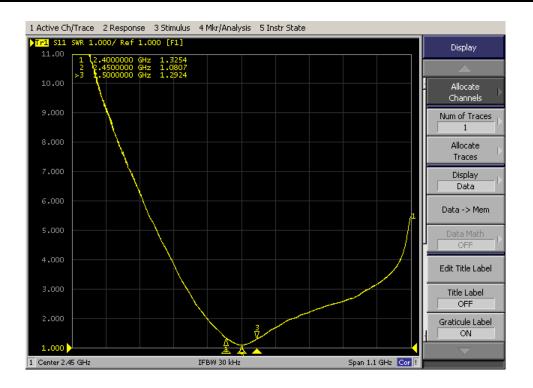
7. Measurement Characteristics:

(1) Return Loss

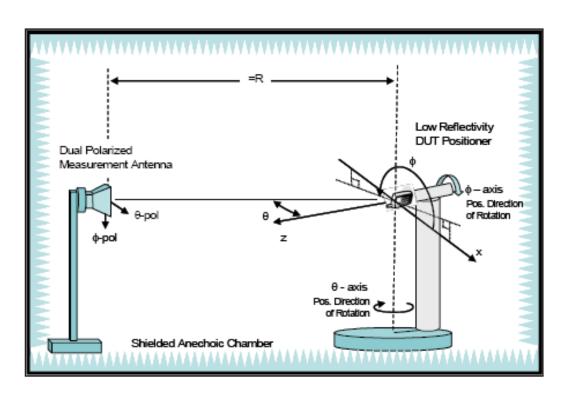


(2) VSWR

| IIILE . BI FPC Anteni | FITLE : BT FPC Antenna(P2 (Supsleep Audio P2)) | | PAGE 3 OI | A 7 | |
|---|--|--|-----------------|------|--|
| TITLE: DT FDC Antonno(D2/Cumples m Audio D2/) | | PART | S2B4BB1F1B16000 | REV. | |
| Designed By :Simon | Approved By :SIMON | CIRCUMSTANCES WITHOUT WRITTEN PERMISSION | | | |
| Drawn By : Shelley | Checked By : Simon | THIS SPECIFICATION IS THE PROPERTY OF UNICTRON TECHNOLOGI CORPORATION AND SHALL NOT BE REPRODUCED OR USED IN A | | | |
| Scale : | Unit : mm | THE SPECIFICATION | | | |
| Angle: ± | Hole Dia. : ± | 1. | | | |
| Tolerances (Unless otherwise specified) X: ± 1 | | Shenzhen Yingfeng Antenna Technology Co., Ltd 501, No. 185, Pingshan Village, No. 2, Lishan Road, Pingshan Community, Taoyuan Street, Nanshan District, Shenzhen | | | |
| Tolerances (Liniess oth | arwise specified) | 01 1 | W. C. A | | |



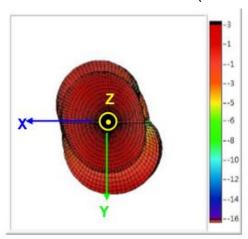
8. Three D Radiation Pattern measurements

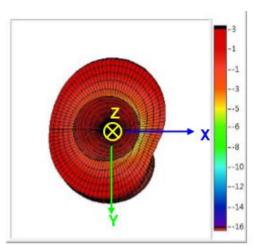


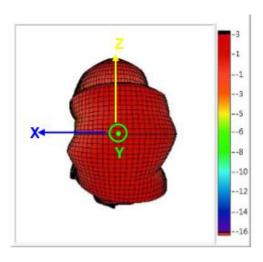
| IIILL . BI FFC AIILEII | ila(F2 (Supsieep Audio F2)) | NO. | PAGE 4 0 | A 7 | | |
|---|-----------------------------|--|--|------|--|--|
| TITLE: BT FPC Antenna(P2 (Supsleep Audio P2)) | | PART | S2B4BB1F1B16000 | REV. | | |
| Designed By :Simon | Approved By :SIMON | CIRCUMSTANCES WITHOUT WRITTEN PERMISSION | | | | |
| Drawn By : Shelley | Checked By : Simon | THIS SPECIFICATION IS THE PROPERTY OF UNICTRON TECHNOLOGIES CORPORATION AND SHALL NOT BE REPRODUCED OR USED IN AL | | | | |
| Scale : | Unit : mm | TUIC CDECIFICATION | | | | |
| Angle: ± | Hole Dia. : ± | 1 2 | | | | |
| X: ± 1 | | Shenzhen Yingfeng Antenna Technology Co., Ltd 501, No. 185, Pingshan Village, No. 2, Lishan Road, Pingshan Community, Taoyuan Street, Nanshan District, Shenzhen | | | | |
| Tolerances (Unless oth | erwise specified) | Shenzher Shenzher | n Yingfeng Antenna Technology Co., Ltd | | | |

9. Radiation Pattern

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







| | | 1 2.0. | PAGE 5 OI | L | |
|---|--------------------|--|--------------------------------------|-----------|--|
| TITLE: BT FPC Antenna(P2 (Supsleep Audio P2)) | | NO. | S2B4BB1F1B16000 | Α | |
| | | | 000/00/00/00 | REV. | |
| Designed By :Simon | Approved By :SIMON | CIRCUMSTANCES WITHOUT WRITTEN PERMISSION | | | |
| Drawn By : Shelley | Checked By : Simon | THIS SPECIFICATION IS THE PROPERTY OF UNICTRON TECHNOLOG CORPORATION AND SHALL NOT BE REPRODUCED OR USED IN | | | |
| Scale : | Unit : mm | THIS SPECIFICATION | ON IS THE DROBERTY OF LINICTRON TECH | INOLOCIES | |
| Angle: ± | Hole Dia. : ± | 1 & | | | |
| Tolerances (Unless otherwise specified) X: ± 1 | | Shenzhen Yingfeng Antenna Technology Co., Ltd 501, No. 185, Pingshan Village, No. 2, Lishan Road, Pingshan Community, Taoyuan Street, Nanshan District, Shenzhen | | | |
| Talamamaaa / mlaaa a4 - | | | | | |

9-2.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 (%) | 27.9 | 32.3 | 30 | 29 | 28.7 | 26 |
| Gain (dBi) | 1.02 | 1.15 | 1.24 | 1.23 | 1.06 | 0.95 |

10.Revision Control:

| Revision | Date | Content | Remark |
|----------|------------|-------------|--------|
| Α | Mar.5.2021 | New Issued. | N/A |

| , _ , | .a(. = (5aps.55p / tadio i = /) | NO. | | Α | |
|---|----------------------------------|---|--------------------------------------|------|--|
| TITLE: BT FPC Antenna(P2 (Supsleep Audio P2)) | | PART | S2B4BB1F1B16000 | REV. | |
| Designed By :Simon | Approved By :SIMON | CIRCUMSTANCES WITHOUT WRITTEN PERMISSION | | | |
| Drawn By : Shelley | Checked By : Simon | THIS SPECIFICATION IS THE PROPERTY OF UNICTRON TECHNOLOG CORPORATION AND SHALL NOT BE REPRODUCED OR USED IN | | | |
| Scale : | Unit : mm | THE SPECIFICATION | ON IS THE PROPERTY OF LINICTRON TECH | | |
| Angle: ± | Hole Dia.: ± | Taoyuan | Street, Nanshan District, Shenzhen | | |
| Tolerances (Unless otherwise specified) X: ± 1 | | Shenzhen Yingfeng Antenna Technology Co., Ltd 501, No. 185, Pingshan Village, No. 2, Lishan Road, Pingshan Community, | | | |