

BT FPC Antenna (HM-15-L-V6)

1. Explanation of Product Number

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



Product Description:

(1) Product Categories:

B:BT Antenna

(2) Dimensions:

B1:16.70*9.00*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

Address: Room 412, Building 7, Phase II, Nanshan Cloud Valley
Entrepreneurship Park, No. 2, Pingshan 1st Road, Pingshan Community,
Taoyuan Sub-district, Nanshan District, Shenzhen City

TITLE: BT FPC Antenna(HM-15-L-V6)

PART
NO.

S2B4BB1F1B00074

REV.
A

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	16.70*9.00*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	-19	-13	
VSWR Table	VSWR			
Freq.Band	2.4G Hz	2.45G Hz	2.5G Hz	
	1.3	1.2	1.4	
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. : $\pm$



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(HM-15-L-V6)

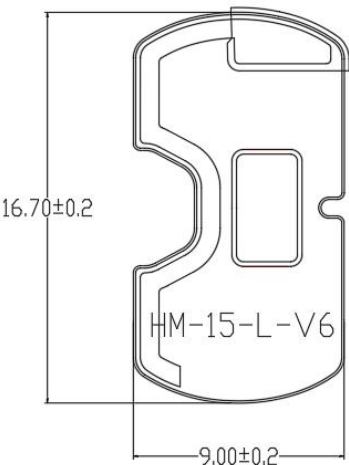
PART
NO.

S2B4BB1F1B00074

REV.
A

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. : ±



深圳市迎丰天线技术有限公司

SHEN ZHEN YINGFENG ANTENNA TECHNOLOGY CO., LTD

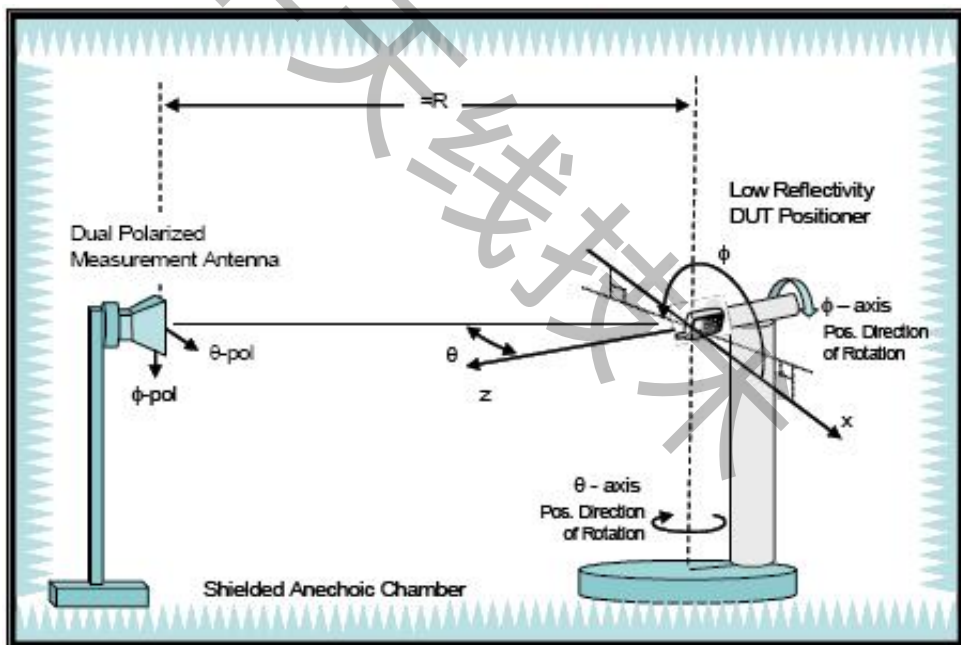
Scale : Unit: mm
Drawn By : Andy Checked By : Simon
Designed By : Simon Approved By : Simon

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(HM-15-L-V6)	PART NO.	S2B4BB1F1B00074	REV.
			A



8. Three D Radiation Pattern measurements



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(HM-15-L-V6)

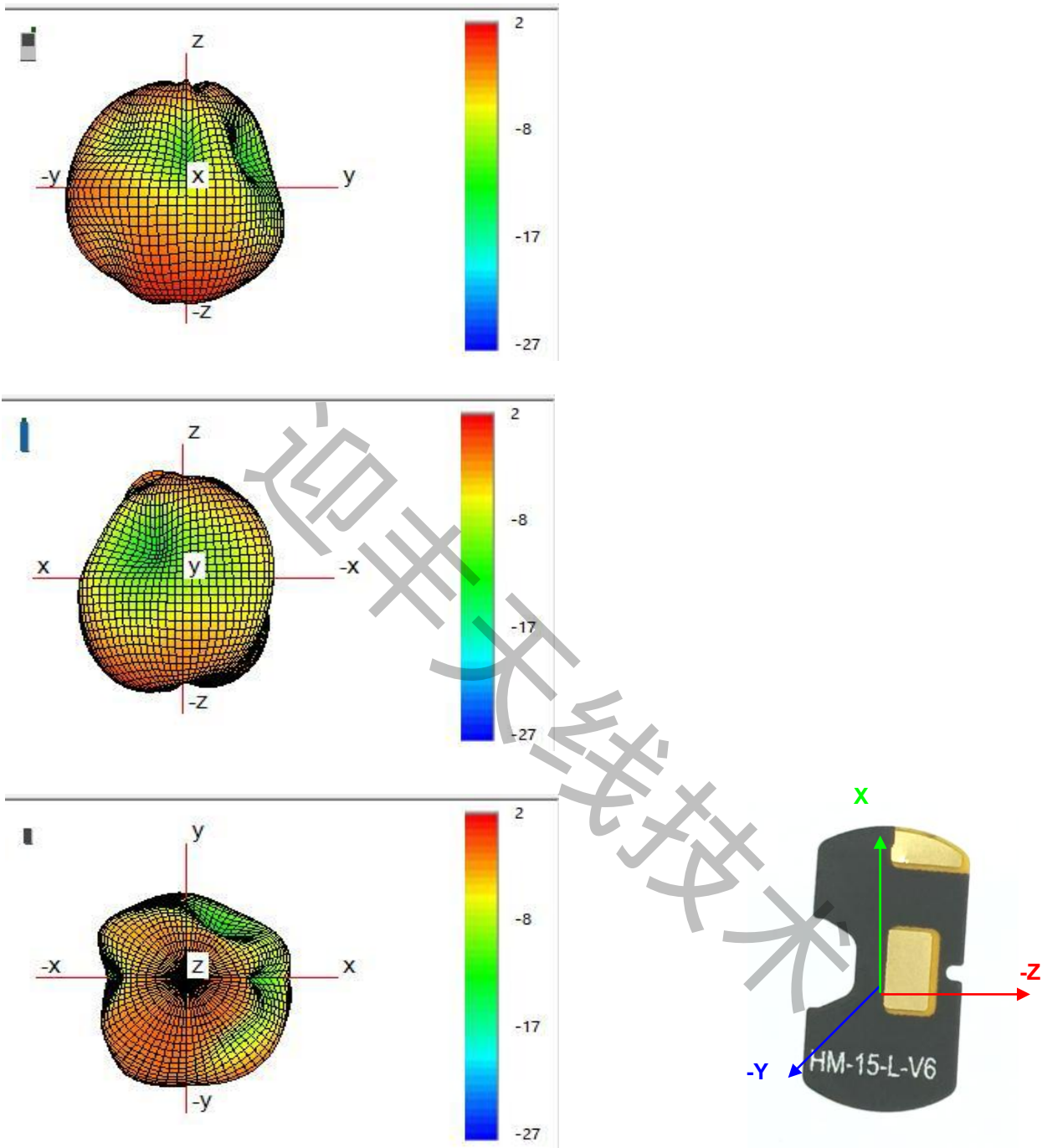
PART
NO.

S2B4BB1F1B00074

REV.
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. : ±



深圳市迎丰天线技术有限公司

SHEN ZHEN YINGFENG ANTENNA TECHNOLOGYCO.,LTD

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

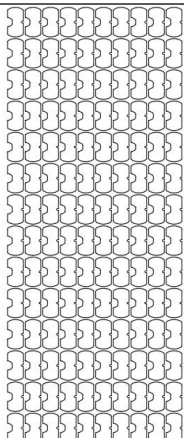
THIS SPECIFICATION IS THE PROPERTY OF UNICTRON TECHNOLOGIES CORPORATION AND SHALL NOT BE REPRODUCED OR USED IN ALL CIRCUMSTANCES WITHOUT WRITTEN PERMISSION

TITLE: BT FPC Antenna(HM-15-L-V6)	PART NO.	S2B4BB1F1B00074	REV.
			A

9-3.complete machine Efficiency Table

Frequency(MHz)	2400	2420	2450	2460	2480	2500
Efficiency (%)	34.9	37.3	37.6	36.1	30.18	27
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:: V6.0	页码 Page: 1/1
1.产品排版:14*10=140PCS	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	2025-10-24	New Issued.	N/A

10-3.Technology and Materials:

1. Technology (工艺) :感光阻焊油墨 优力哑黑 白色字符 沉金 3U 半切离型膜出货
2.Materials (材料) : FPC (PI) 电解铜箔(25UM) 背胶 3M9471

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(HM-15-L-V6)	PART NO.	S2B4BB1F1B00074	REV.
			A