## **BT FPC Antenna**

## 1. Explanation of Product Number

S 2 B 4 P E 6 F 1 P 0 8 0 0 0

(1) (2) (3) (4) (5) (6)



#### **Product Code:**

(1) Product Categories:

B4: FPC Antenna

(2) Application:

BT antenna (3)

Dimensions:

(4)Material:

F: FPC

(5) Working Frequencies

1P: 2400~2500

(6) Antenna Series:

08: serial number

Tolerances (Unless other X: ± 1 X.X: ± Angle: ±	• •	Unictr Technologies	Unictron Technologies Corp Website: www.unictron.o		
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Antenna		NO.	02B41 E01 1F 00000	Α	
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## 2. Features

- \*Stable and reliable in performances
- \*Compact size
- \*RoHS compliance

#### 3. Applications

\* Hand-held devices when BT.

#### 4. Description

Unictron's FPC antenna series are specially designed for BT applications. Based on Unictron's proprietary design and processes, this FPC antenna has excellent stability and sensitivity to consistently provide high signal reception efficiency.

## **5. Electrical Specifications**

#### 5-1. Electrical Table (2400~2500MHz Band)

Characteristics	Specifications			Unit		
Outline Dimensions		1				mm
Frequency			2450			MHz
Impedance			50			Ω
Polarization		Linear	Polariz	zation		
Return Loss Table		Return Loss				
Freq.Band	2.4G Hz			2.45G Hz		2.5G Hz
dB	-16.92	-16.92 -				-11.63
VSWR Table			V	'SWR		
Freq.Band	2.40	2.4G Hz 2.45G Hz 2		2.5G Hz		
	1.37 1.39		1.71			
GAIN Table	Total Gain =Xpol + Ppol					
Freq.Band	2400MHz 2450		MHz	2480MH	Z	2500MHz
Peak Gain(dBi)	-1.25	-0	.00	-0.05		-0.63

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# 7.Return Loss & VSWR

Return Loss (S<sub>11</sub>) &VSWR (S<sub>11</sub>)



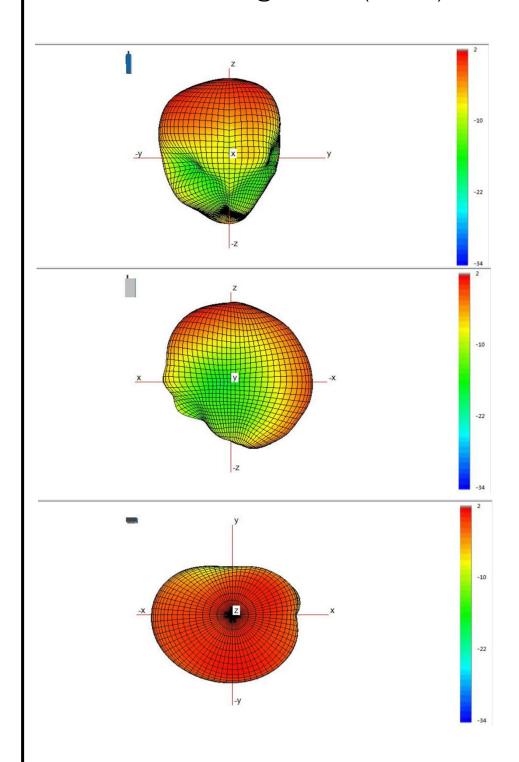
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Freq (MHz)	Gain(dBi)	Efficiency(dB)	Efficiency(%)
2400	-1.25	-2.32	32.32
2410	-0.66	-2.25	12.20
2420	-0.77	-4.12	18.66
2430	-1.22	-1.28	25.10
2440	-0.30	-0.88	26.63
2450	-0.00	-3.20	23.10
2460	-0.47	-1.47	18.14
2470	-0.12	-0.57	19.25
2480	-0.05	-2.01	8.11
2490	-0.58	-1.56	21.02
2500	-0.63	-2.22	22.80

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## 8. Radiation Pattern

8-1.3D Gain Pattern @ 2450MHz (unit: dBi)



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# 9. Revision Control:

Revision	Date	Content	Remark
Α	Mar.27.2024	New Issued.	N/A

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