

BT FPC Antenna

1.Explanation of Product Number

Diagram illustrating a 1D lattice with 15 sites. The sites are labeled with particles (S, 2, B, 4, P, E, 6, F, 1, P, 0, 8, 0, 0, 0) and their corresponding indices (1) through (6) are shown below the lattice.



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 otherwise specified) X : ± 1 X.X : ± 0.1 X.XX : ± 0.01 Angle : ±	
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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	/			mm
Frequency	2450			MHz
Impedance	50			Ω
Polarization	Linear Polarization			
Return Loss Table	Return Loss			
Freq.Band	2.4G Hz	2.45G Hz	2.5G Hz	
dB	-16.92	-16.06	-11.63	
VSWR Table	VSWR			
Freq.Band	2.4G Hz	2.45G Hz	2.5G Hz	
	1.37	1.39	1.71	
GAIN Table	Total Gain =Xpol + Ppol			
Freq.Band	2400MHz	2450MHz	2480MHz	2500MHz
Peak Gain(dBi)	-1.25	-0.00	-0.05	-0.63

Tolerances (Unless otherwise specified)

X : ± 1 X.X : ± 0.1 X.XX : ± 0.01

Angle : $\pm$ Hole Dia. : $\pm$



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Technologies Corp.

Unictron Technologies Corporation

Website: www.unictron.com

Scale :

Unit: mm

Prepared By :shelley

Checked By :Joy

Approved By : Frank

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**TITLE: BT FPC
Antenna**

**PART
NO.**

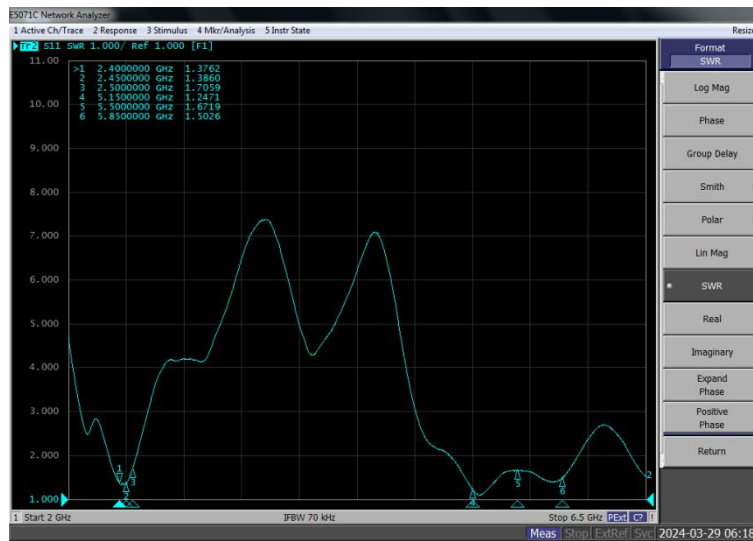
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7.Return Loss & VSWR

Return Loss (S_{11}) & VSWR (S_{11})



Tolerances (Unless otherwise specified)

X : ± 1 X.X : ± 0.1 X.XX : ± 0.01

Angle : $\pm$ Hole Dia. : $\pm$

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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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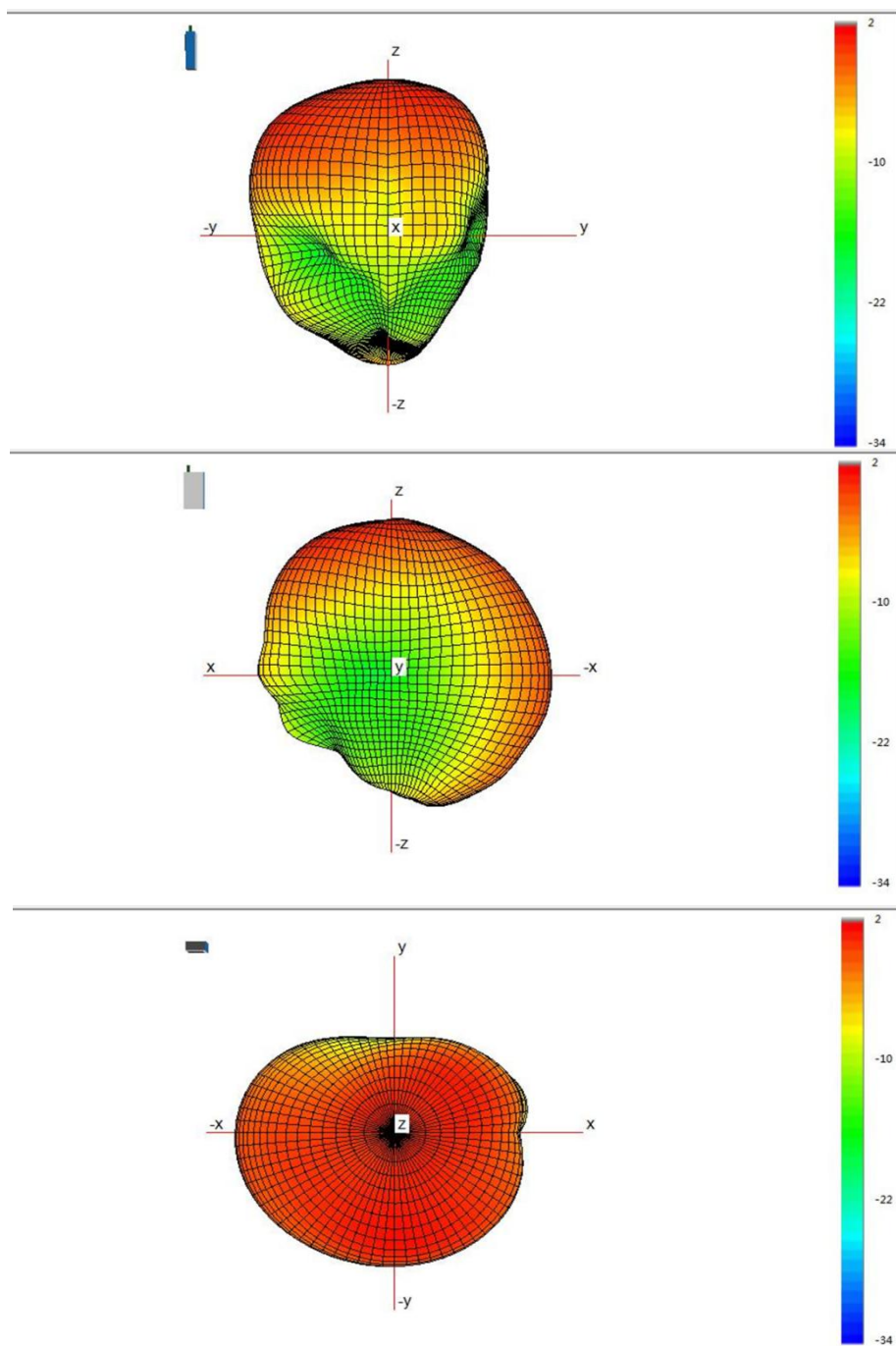
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8.Radiation Pattern

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



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Angle : $\pm$ Hole Dia. : $\pm$

Scale :

Unit: mm

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9. Revision Control:

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

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