

2.Features

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

3.Applications

- * IEEE802.11 (b/g/n).
- * Hand-held devices when WiFi / BT functions are needed.

4.Description

Unictron's FPC antenna series are specially designed for WiFi (802.11 b/g/n) applications. Based on Unictron's proprietary design and processes, this FPC antenna has excellent stability and sensitivity to consistently provide high signal reception efficiency.

Tolerances (Unless otherwise specified)
X : ± 1 X.X : ± 0.1 X.XX : ± 0.01
Angle : $\pm$ Hole Dia. : $\pm$

Scale :	Unit: mm
Prepared By :Mia	Checked By :Joy
Designed By : Joy	Approved By : Craig



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**TITLE: 14.92*13.76*0.12mm BT FPC
Antenna (P-0401-01)**

PART

NO.

S2B4CB3F1B01000

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5. Electrical Specifications

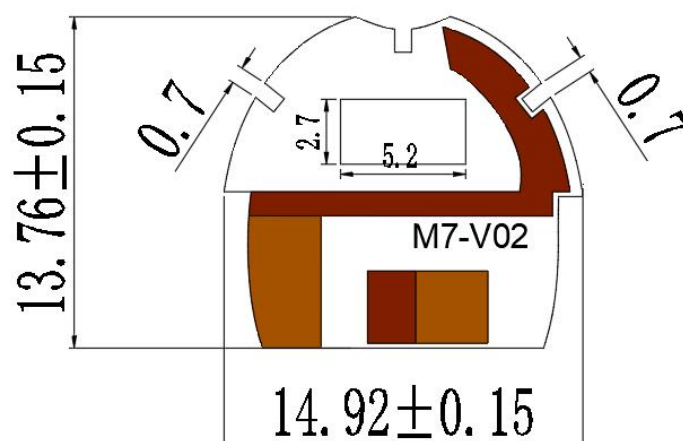
5-1. Electrical Table (2400~2500MHz Band)

Characteristics	Specifications			Unit
Outline Dimensions	14.93x13.76x0.12			mm
Frequency	2450			MHz
Impedance	50			Ω
Polarization	Linear Polarization			
Return Loss Table	Return Loss			
Freq.Band	2.4G Hz		2.5G Hz	
dB	-10.51		-10.21	
VSWR Table	VSWR			
Freq.Band	2.4GHz		2.5GHz	
	2max.			
GAIN Table	Total Gain =Xpol + Ppol			
Freq.Band	2400MHz	2450MHz	2480MHz	2500MHz
Peak Gain(dBi)	-5.16	-4.90	-6.38	-7.87

*The data was measured by A Test Lab Techno Corp.(CTIA Authorized Test Lab).

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6. Antenna Dimensions (unit: mm) .



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

Scale :

Unit: mm

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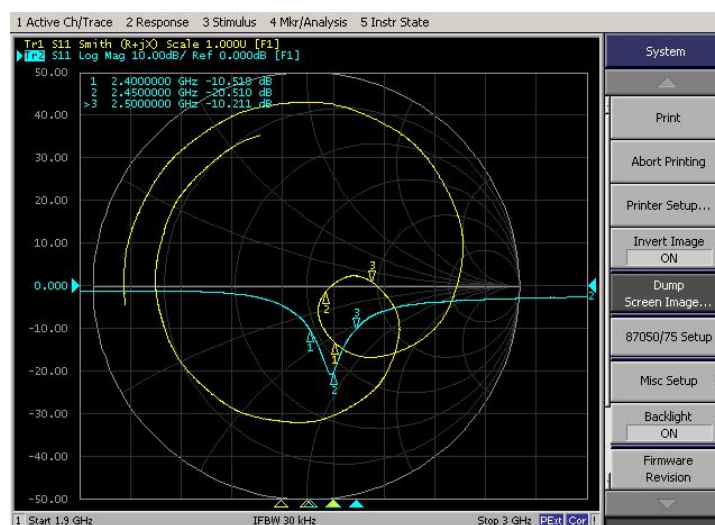
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7.Return Loss

Return Loss (S₁₁)



Freq (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
2400	-5.16	-10.56	8.79
2410	-4.98	-10.13	9.70
2420	-4.87	-9.74	10.62
2430	-4.73	-9.51	11.18
2440	-4.72	-9.41	11.45
2450	-4.90	-9.50	11.21
2460	-5.25	-9.73	10.65
2470	-5.75	-10.11	9.75
2480	-6.38	-10.65	8.61
2490	-7.03	-11.24	7.51
2500	-7.87	-11.95	6.39

Tolerances (Unless otherwise specified)

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Angle: ± Hole Dia.: ±

Scale: Unit: mm

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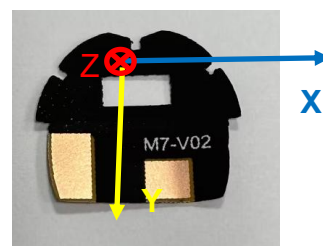
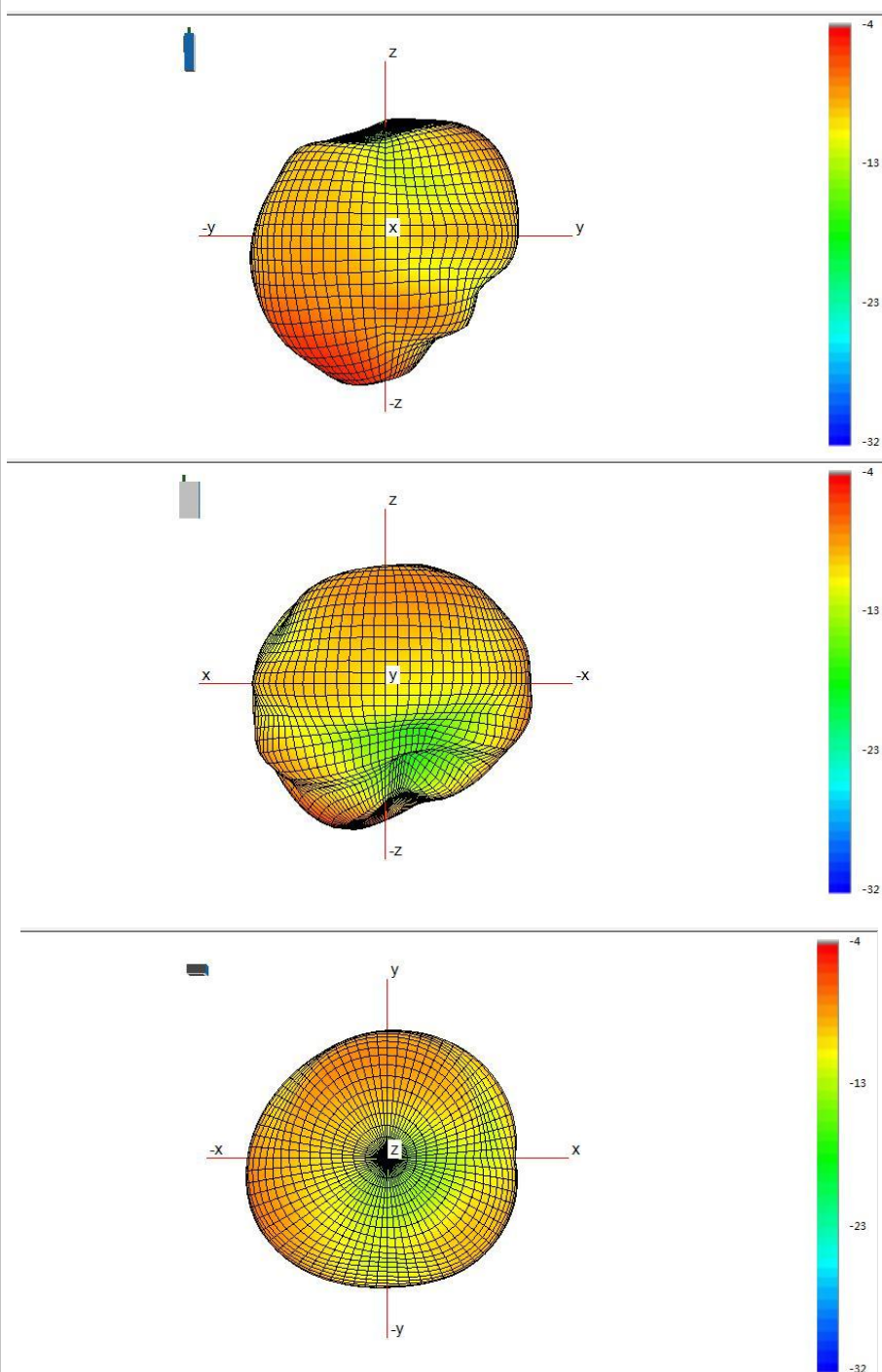
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8.Radiation Pattern

8-1.3D Gain Pattern



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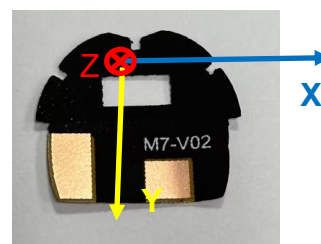
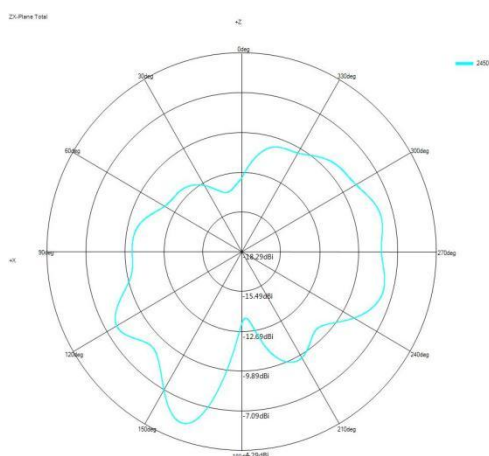
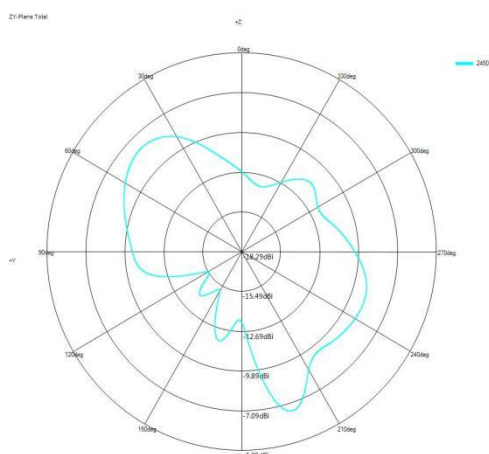
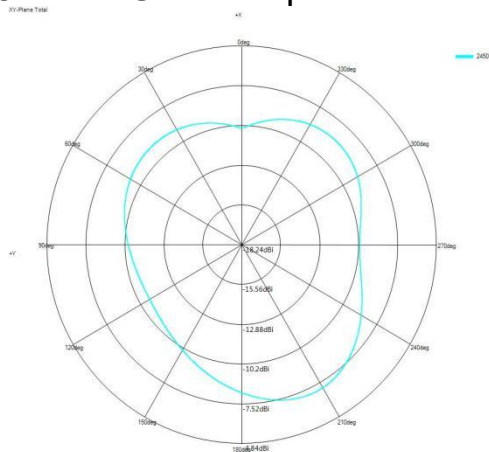
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8-2. 2D Gain complete machine



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Scale :

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9. Revision Control:

Revision	Date	Content	Remark
A	Jan.6.2026	New Issued.	N/A

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