40x7.0x1.0mm WiFi PCB Antenna (4007-01)

1. Explanation of Product Number

S 2 В 1 В Η 1 В 0 1 0 0 (1) (2) (3) (4) (5) (6)

Product Code:

(1) Product Categories:

B1: PCB Antenna

(2) Application:

B: Wi-Fi Dual Band antenna

(3) Dimensions:

H1: 40x7.0x1.0 L=1.13*100mm+IPEX IV

(4) Material:

A: PCB

(5) Working Frequencies

1B: 2400~2500MHz

(6) Antenna Series:

01: serial number

Tolerances (Unless others X: ± 1 X.X: ± 0.01 Angle: ±	•	Unictr Technologies	Unictron Technolo Corporation Scorp. Website: www.unictro	· ·
Scale :	Unit: mm	THIS SPECIFICATION IS THE PROPERTY OF UNICTRON TECHNOLOGIES		
Prepared By :shelley	Checked By :Joy	CORPORATION AND SHALL NOT BE REPRODUCED OR USED IN AL CIRCUMSTANCES WITHOUT WRITTEN PERMISSION		
	Approved By : Frank			
TITLE: 40x7.0x1.0mn	WiF PCB Antenna	PART	S2B1BH2A1B01000	REV.
(4007-01)		NO. SZBIBNIZAIBO1000		Α
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2.Features

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

3. Applications

- * IEEE802.11 (b/g/n).
- * Hand-held devices when WiFi (802.11 b/g/n) functions are needed.

4. Description

Unictron's PCB antenna series are specially designed for WiFi (802.11 b/g/n) applications. Based on Unictron's proprietary design and processes, this PCB 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 Dimension	ons	40 x 7.0 x 1	mm
Working Frequency		2400~2500	MHz
Bandwidth		100 min.	MHz
VSWR		2 max.	
Impedance		50	Ω
Polarization		Linear Polarization	
Gain*	Peak	3.12(typical)	dBi
	Efficiency	79.95 (typical)	%

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

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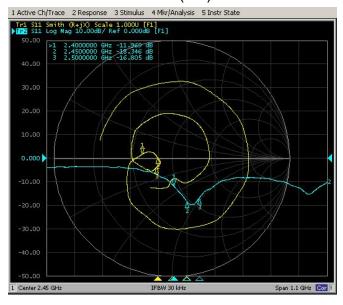
6. Antenna Dimensions (unit: mm).

2	P-0263-01(40*7*1)mm	1
1	Cable(\$1.13mm),L=100±2mm+IPEX(四代)	1
ITEM Description		Qʻty
	Material	- SPR-SEE ▼ CO

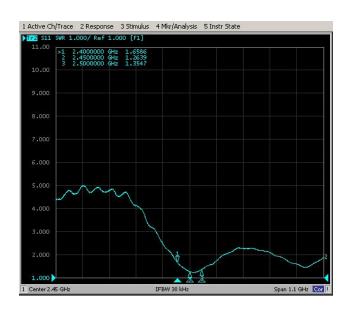
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7.Return Loss & VSWR

Return Loss (S₁₁)



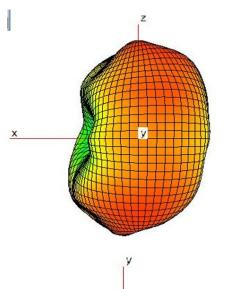
$VSWR\left(S_{11}\right)$

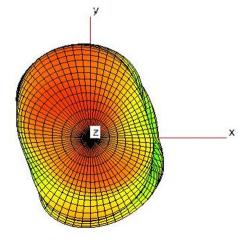


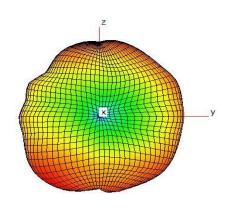
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(4007-01)		NO. A		Α
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8. Radiation Pattern

8-1.3D Gain Pattern @ 2400 MHz (unit: dBi)







	1	Z	
Υ	ı		

X

Tolerances (Unless other	wise specified)
X: ± 1	0.1 X.XX: ±
0.01	
Angle: ±	lole Dia.: ±
Scale :	Unit: mm
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	(4007-01)		NO.	32D1D112A1D01000		Α
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8-2.complete machine Efficiency Table

Freq(MHz)	2400	2420	2440	2450	2460	2480	2500
Gain(dB)	2.95	2.82	3.02	3.12	3.01	2.88	2.85
Efficiency(dB)	-1	-1.03	-1.07	-0.97	-1.04	-0.92	-0.87
Efficiency(%)	79.46	78.8	78.24	79.95	78.78	80.9	81.76

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(4007-01)	(4007-01)		32DIDI IZAIDUI000	Α
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9. Revision Control:

Revision	Date	Content	Remark
Α	Jun.20.2022	New Issued.	N/A

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