## WIFI PCB Substrate Antenna (SZ002)

## 1. Explanation of Part Number

H 2 B 1 B C 1 A 1 B 0 2 0 0 (1) (2) (3) (4) (5) (6)



### **Product Code:**

(1) Product Categories:

**B1: PCB Substrate Antenna** 

(2) Application:

B: WiFi

(3) Dimensions:

C1: 28x7.6x0.6(mm)

(4) Material:

A: Fr-4

(5) Working Frequencies:

1B: 2400~2500MHz/linear polarization

(6) Antenna Series:

02: Serial number

Tolerances (Unless otherwise specified)  X: ± 1		Unictr Technologies	Unictron Technologies Corp. Website: www.unictron.	Unictron Technologies Corporation Website: www.unictron.com	
Scale :	Unit: mm	THE OPERIOR TON IN THE PROPERTY OF UNIOTRON TENINGLOOD			
Drawn By : Gilespi Checked By : Jason		THIS SPECIFICATION IS THE PROPERTY OF UNICTRON TECHNOLOGIES CORPORATION AND SHALL NOT BE REPRODUCED OR USED IN ALL			
Designed By : Joe	Approved By : Jaixing	g CIRCUMSTANCES WITHOUT WRITTEN PERMISSION			
TITLE: WIFI PCB Substrate Antenna (SZ002)  DOCUMENT NO.  H2B1BC1A1B0200		REV.			
		NO.	HZB1BC1A1B0200	Α	

# 2. Features

- \*Stable and reliable in performances
- \*RoHS compliance
- \*Low cost

## 3. Applications

\*WIFI / Bluetooth systems

## 4. Description

\*Unictron's WiFi antenna is specially designed for Wi-Fi applications. It has excellent stability and sensitivity to consistently provide high signal reception efficiency.

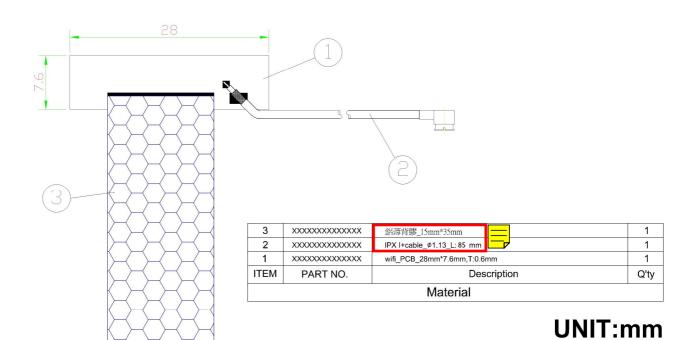
## 5. Electrical Specifications

### WIFI:

Characteristics	Specifications				Unit	
Outline Dimensions	28 x 7.6			mm		
Frequency		24	00~2500	)		MHz
Impedance			50			Ω
Polarization		Linear	· Polariza	ation		
Return Loss Table	Return Loss					
Freq.Band	2.4G	Hz		2.45G Hz		2.5G Hz
dB	-16.98	3	-	-29.81		17.34
VSWR Table	VSWR					
Freq.Band	2.4G	Hz	2.45G Hz			2.5G Hz
	1.32			1.08		1.29
GAIN Table	Total Gain = Xpol + Ppol					
Freq.Band	2400MHz 2450		MHz	2485MHz		2500MHz
Peak Gain(dBi)	0.56	1.2	21	0.15		-0.28

Tolerances (Unless otherwise specified)  X: ± 1		Unictron Technologies Corpo Website: www.unictron.co			
Scale :	Unit: mm	THE OPENING THE PROPERTY OF INJUSTICAL TECHNICION			
Drawn By : Gilespi	Checked By : Jason	THIS SPECIFICATION IS THE PROPERTY OF UNICTRON TECHNOLOGICAL CORPORATION AND SHALL NOT BE REPRODUCED OR USED II			
Designed By : Joe	Approved By : Jaixing	CIRCUMSTANCES WITHOUT WRITTEN PERMISSION			
TITLE: WIFI PCB Substrate Antenna (SZ002)		DOCUMENT	U2D4DC4A4D0200	REV.	
		NO.	H2B1BC1A1B0200	Α	

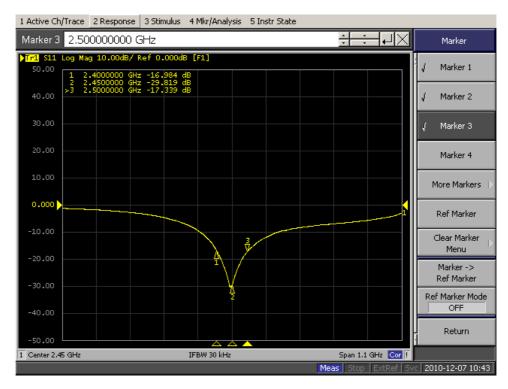
# 6. Dimensions (unit: mm)



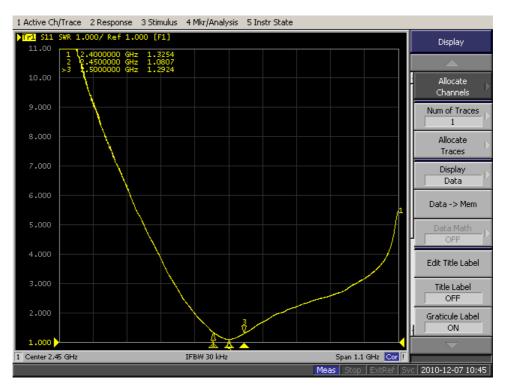
Tolerances (Unless otherwise specified)  X: ± 1		Unictron Technologies Corporation Website: www.unictron.com			
Scale :	Unit: mm	THE OPERIOR TO USE THE PROPERTY OF INHOTON TECHNOLOGIC			
Drawn By : Gilespi Checked By : Jason		THIS SPECIFICATION IS THE PROPERTY OF UNICTRON TECHNOLOGIES CORPORATION AND SHALL NOT BE REPRODUCED OR USED IN ALL			
Designed By : Joe	Approved By : Jaixing	CIRCUMSTANCES WITHOUT WRITTEN PERMISSION			
TITLE: WIFI PCB Substrate Antenna (SZ002)		DOCUMENT	110040044400000	REV.	
		NO.	H2B1BC1A1B0200	Α	

## 8. Electrical Characteristics

### (1) Return Loss

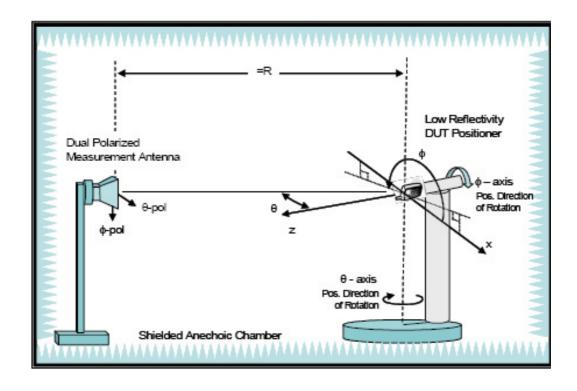


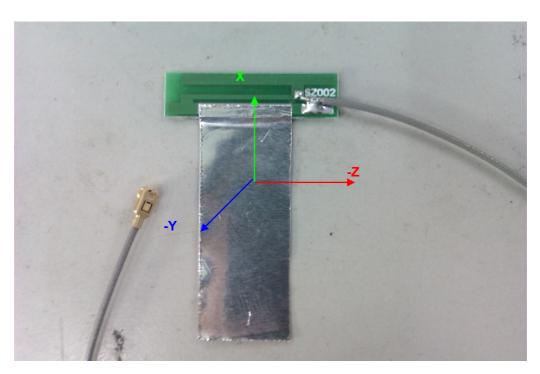
### (2) VSWR



Tolerances (Unless otherwise specified)  X: ± 1		Unictron Technologies Corpora Website: www.unictron.com		
Scale :	Unit: mm	THE OPERIOR THE PROPERTY OF INHOTEON TECHNICLES		
Drawn By : Gilespi	Checked By : Jason	THIS SPECIFICATION IS THE PROPERTY OF UNICTRON TECHNOLOGIE CORPORATION AND SHALL NOT BE REPRODUCED OR USED IN A CIRCUMSTANCES WITHOUT WRITTEN PERMISSION		
Designed By : Joe	Approved By : Jaixing			
				REV.
TITLE: WIFI PCB Substrate Antenna (SZ002)		NO.	H2B1BC1A1B0200	Α

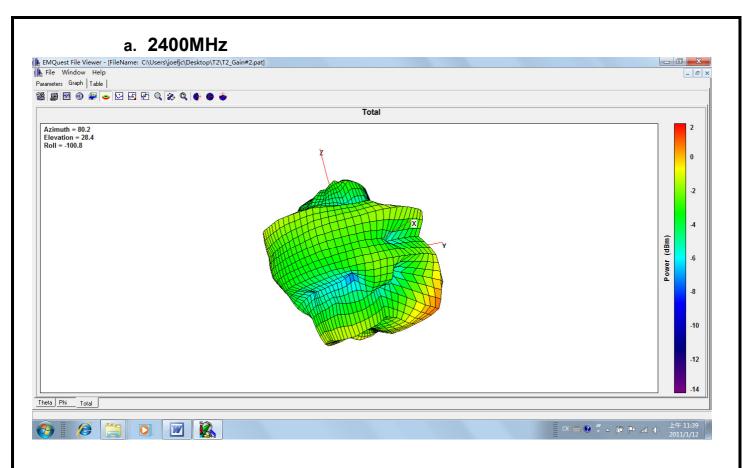
# 9. Three D Radiation Pattern



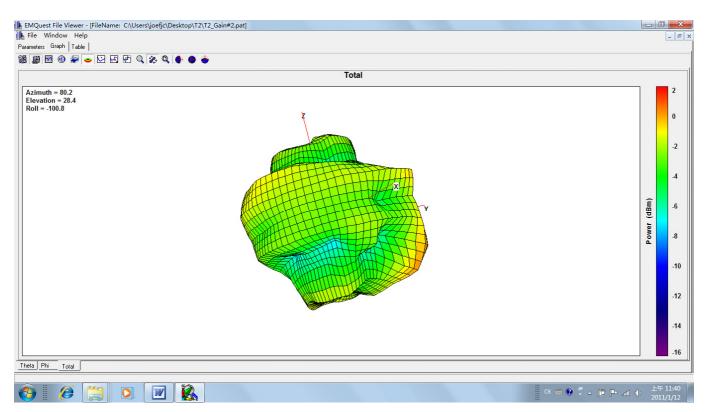


The definition of the measurement face

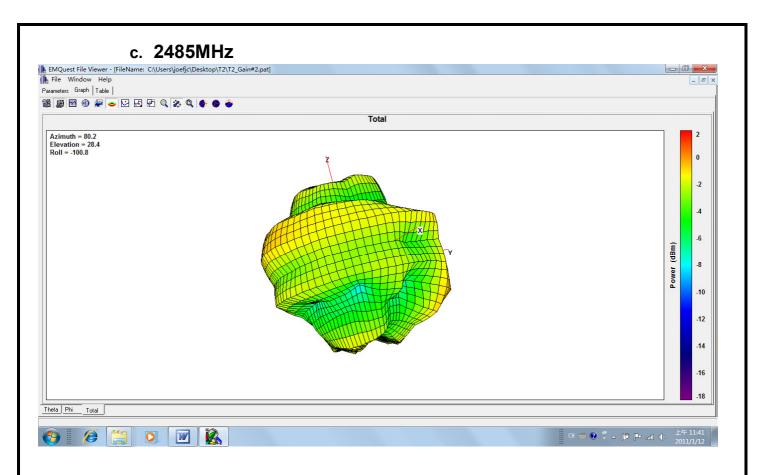
Tolerances (Unless otherwise specified)  X: ± 1		Unictron Technologies Corporat Website: www.unictron.com			
Scale :	Unit: mm	THE OPERISON IN THE PROPERTY OF UNIOTRON TECHNOLOGICA			
Drawn By : Gilespi	Checked By : Jason	THIS SPECIFICATION IS THE PROPERTY OF UNICTRON TECHNOLOGI CORPORATION AND SHALL NOT BE REPRODUCED OR USED IN A			
Designed By : Joe	Approved By : Jaixing	CIRCUMSTANCES WITHOUT WRITTEN PERMISSION			
				REV.	
TITLE: WIFI PCB Substrate Antenna (SZ002)		NO.	H2B1BC1A1B0200	Α	



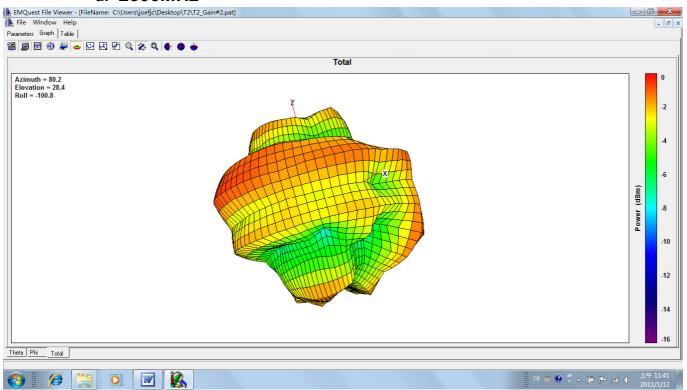
### b. 2450MHz



Tolerances (Unless of X: ± 1 X.X: ± Angle: ±	• •	Unictron Technologies Corporation Website: www.unictron.com			
Scale :	Unit: mm	THE OPERITOR THE PROPERTY OF INVESTIGATION TOURISMS			
Drown Dy ( Cilconi   Chooked Dy ( Josep		THIS SPECIFICATION IS THE PROPERTY OF UNICTRON TECHNOLOGIES CORPORATION AND SHALL NOT BE REPRODUCED OR USED IN ALL			
Designed By : Joe	Approved By : Jaixing	CIRCUMSTANCES WITHOUT WRITTEN PERMISSION			
TITLE: WIELDOD O	th attacks. And a man (07000)	DOCUMENT	U2D4DC4A4D0200	REV.	
TITLE: WIFI PCB Substrate Antenna (SZ002)		NO.	H2B1BC1A1B0200	Α	



#### d. 2500MHz



Tolerances (Unless otherwise specified)  X: ± 1		Unictr	Unictron Technologies Corporation Website: www.unictron.com	
Scale :	Unit: mm	THE OPERIOR IN THE PROPERTY OF HARMTON TECHNOLOGICA		
Drawn By : Gilespi Checked By : Jason		THIS SPECIFICATION IS THE PROPERTY OF UNICTRON TECHNOLOGIES CORPORATION AND SHALL NOT BE REPRODUCED OR USED IN ALL		
Designed By : Joe	Approved By : Jaixing	CIRCUMSTANCES WITHOUT WRITTEN PERMISSION		
TITLE: WIFI PCB Substrate Antenna (SZ002)		DOCUMENT	110040044400000	REV.
		NO.	H2B1BC1A1B0200	Α