	F (mm)		al Dono		toppos	with Cab	
25.0 x 6.0 x 0	.5 (mm) v		ial Banc	PUB Ar	itenna v	with Cat	bie
()	P2507-00)) Eng	gineerin	g Specif	ication		
1. Explanation of P	roduct Nu	mber					
S 2 B	1 B	С	5 A	1 B	0 1		1
	(1)	(2)	(3)	(4)	(5)		
	(1)	(2)	(3)	(4)	(5)		
5							
	~~~CO						•
Product Code	e:						
(1) Application							
B: WiFi	/ BT antenna	a					
(2) Dimensions	S:						
C5: 25 >	(6.0 x 0.5						
(3) Material:							
F: FPC							
(4) Working Fr	equencies						
1B: 240	0~2500 & 49	900~5900	MHz				
(5) Antenna Se	eries:						
01: seri	al number						
	· · · · · ·						
Tolerances (Unless otherwind X : ± 1 X.X : ± 0.1		: 0.01		ictron U		hnologies C	
	ole Dia. : ±		Techn	ologies Corp.	Website:	www.unictro	on.com
Scale :	Unit: mm		THIS SPEC	IFICATION IS	THE PRO	PERTY OF	UNICTRON
Prepared By :Shelley	Checked By Joy		OR USED		TION AND SHA RCUMSTANCE		
	Approved By : F		PERMISSION	1			1
TITLE: 25.0 x 6.0 x 0.5 (mm) W with Cable (P2507-0		CB Antenna	PART	S2R	BC5A1B	01001	REV.
Specification	, <u>-</u>		NO.		JUVA D	~ 1 ~ 7 1	Α
					PAGE	1 OF	12

## 2.Features

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

### **3.**Applications

* IEEE802.11 (a/b/g/n/ac).

* Hand-held devices when WiFi / BT (802.11a/ b/g/n/ac) functions are needed.

### 4. Description

Unictron' s FPC antenna with cable series are specially designed for IEEE802.11(a/b/g/n/ac) applications. Based on Unictron' s proprietary design and processes, this 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 Dimensi	ons	25 x 6.0 x 0.5	mm
Center Frequen	су	2400~2500	MHz
Bandwidth		90 min.	MHz
VSWR		2 max.	
Impedance		50	Ω
Polarization		Linear Polarization	
Gain*	Peak	0.9 (typical)	dBi
	Efficiency	56(typical)	%

Tolerances (Unless otherwX : ± 1X.X : ± 0.1Angle : ±How	• •	Unictor Technologie	Unictron S Corp. Web	n Technolo site: www.	-	•
Scale : Prepared By :Shelley	Unit: mm Checked By Joy Approved By : Frank	THIS SPECIFICA TECHNOLOGIES C OR USED IN PERMISSION		ND SHALL NO		UNICTRON PRODUCED WRITTEN
TITLE: 25.0 x 6.0 x 0.5 (mm) WiFi Dual Band PCB Antenna with Cable (P2507-00) Engineering Specification		PART NO.	S2B1BC5	A1B0100	1	REV.
-			P	AGE 2	OF	12

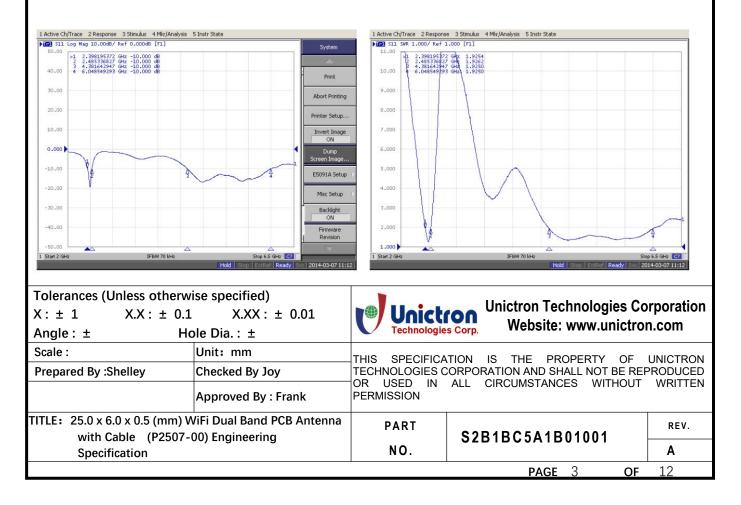
#### 5-2. 4900~5900 MHz Band

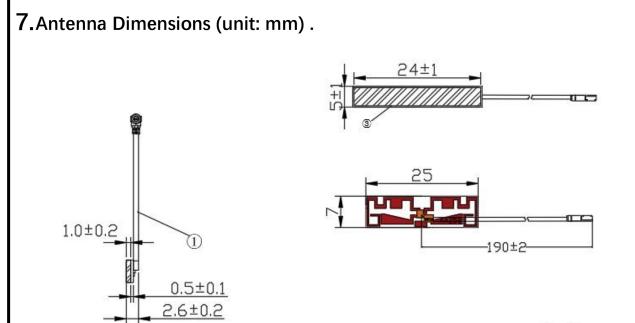
Characteristics		Specifications	Unit
Center Frequence	су	4900~5900	MHz
Bandwidth		90 min.	MHz
VSWR		2 max.	
Impedance		50	Ω
Polarization		Linear Polarization	
Coin*	Peak	2.9 (typical)	dBi
Gain*	Efficiency	68(typical)	%

### 6.Return Loss & VSWR

Return Loss (S₁₁)







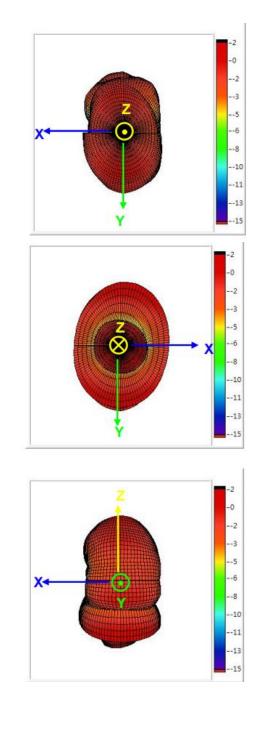
Unit :mm

3	3M9448A(24*5.0*1mm)	1
2	P-0322-00 (25*6*0.5mm)	1
1	0.81*190mm+USS RF 二代	1
ITEM	Description	Qʻty
	Material	

Tolerances (Unless otherwise specified)			Unictron Technologies Corporation		rporation	
X: ± 1 X.X: ± 0.1	X.XX: ± 0.01	Unictor Technologie	Mahaita	: www.unictror	•	
Angle: ± Ho	ole Dia. : ±	Technologie	s Corp. VVEDSITE	1.COM		
Scale :	Unit: mm	THIS SPECIFICA	TION IS THE PF	ROPERTY OF	UNICTRON	
Prepared By :Shelley Checked By Joy		TECHNOLOGIES CORPORATION AND SHALL NOT BE REPRODUCED				
	Approved By : Frank	OR USED IN PERMISSION	ALL CIRCUMSTAN	CES WITHOUT	WRITTEN	
TITLE: 25.0 x 6.0 x 0.5 (mm) WiFi Dual Band PCB Antenna with Cable (P2507-00) Engineering Specification		PART	82D4D05A45	204004	REV.	
		NO.	S2B1BC5A1B01001		Α	
		NU.				
			PAGE	4 <b>OF</b>	12	

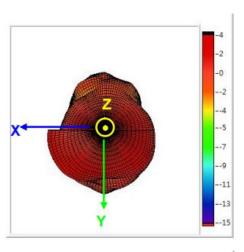
## 8. Radiation Pattern

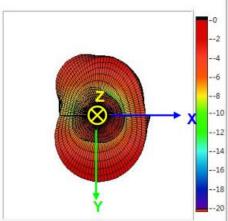
8-1. 2400~2500 MHz Band 8-1-1. 3D Gain Pattern @ 2442 MHz (unit: dBi)

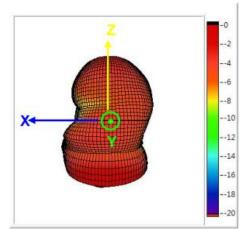


Tolerances (Unless otherwise specified)			Uniotron Technologiae C	rnoration
X:±1 X.X:±0	.1 X.XX: ± 0.01		Unictron Technologies Co	•
Angle: ±	Hole Dia. : ±	Technologie	S Corp. Website: www.unictro	n.com
Scale :	Unit: mm	THIS SPECIFICA	TION IS THE PROPERTY OF	UNICTRON
Prepared By :Shelley	Checked By Joy	TECHNOLOGIES CORPORATION AND SHALL NOT BE		PRODUCED
	Approved By : Frank	OR USED IN PERMISSION	ALL CIRCUMSTANCES WITHOUT	WRITTEN
. ,	WiFi Dual Band PCB Antenna	PART	R	
with Cable (P2507-00) Engineering Specification		NO.	S2B1BC5A1B01001	Α
			PAGE 5 OF	12

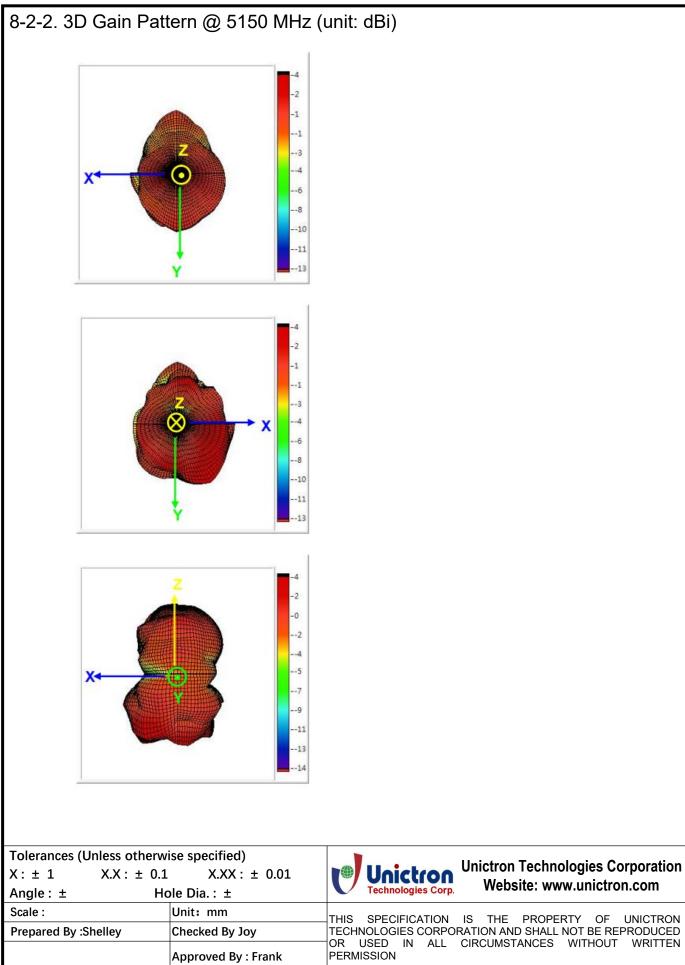
## 8-2. 3D Gain Pattern @ 4900MHz (unit: dBi)



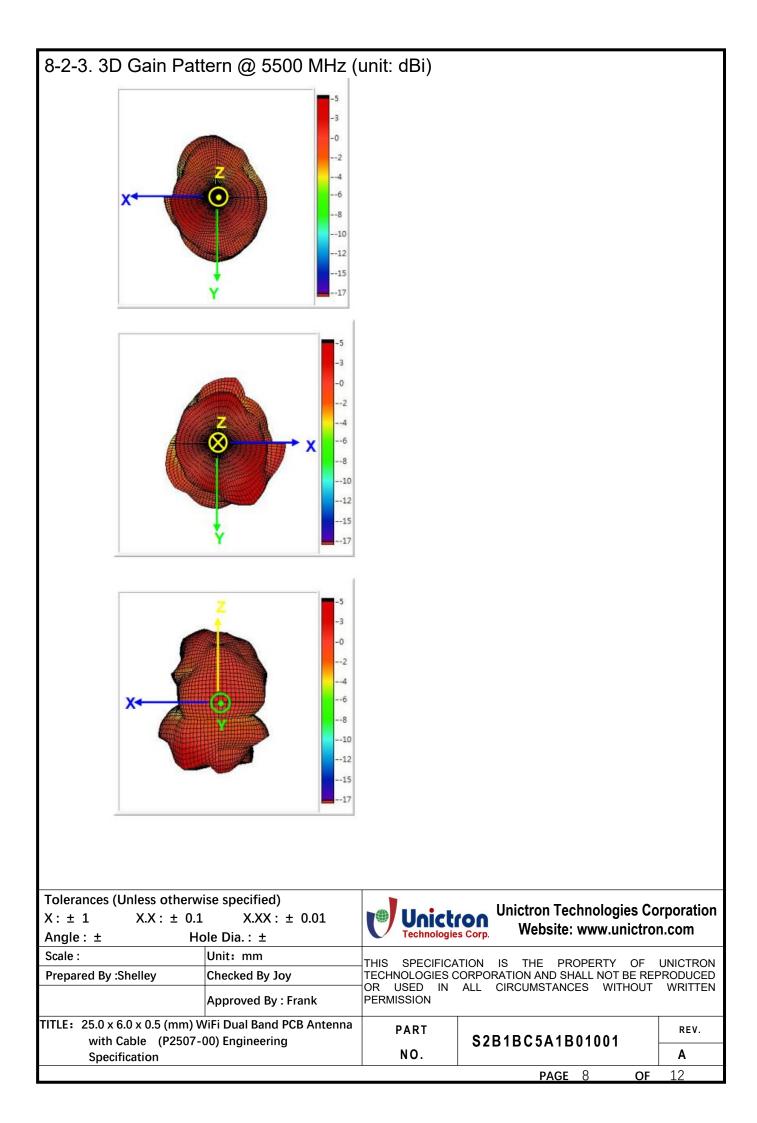


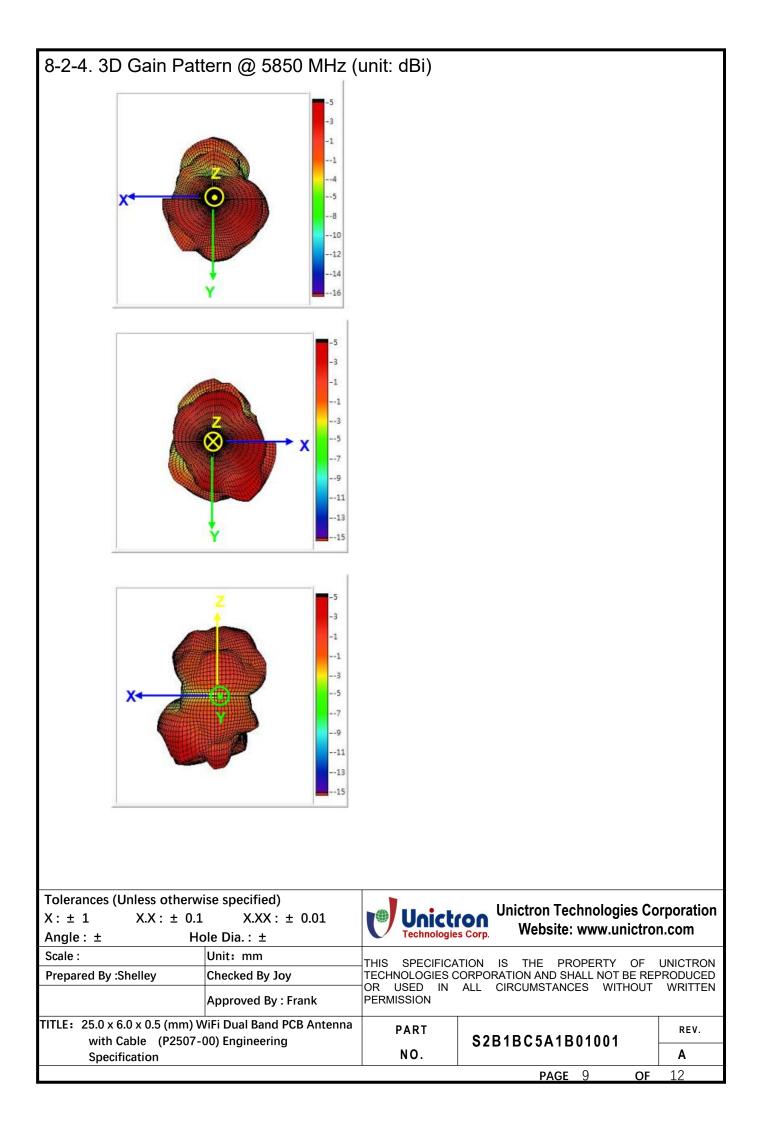


Tolerances (Unless otherwX : ± 1X.X : ± 0.2Angle : ±H	• •	Unictor Technologie	Unictron Technologies Co Website: www.unictro	•
Scale : Prepared By :Shelley	Unit: mm Checked By Joy Approved By : Frank	THIS SPECIFICA TECHNOLOGIES C OR USED IN PERMISSION	TION IS THE PROPERTY OF CORPORATION AND SHALL NOT BE RE ALL CIRCUMSTANCES WITHOUT	UNICTRON PRODUCED WRITTEN
TITLE: 25.0 x 6.0 x 0.5 (mm) WiFi Dual Band PCB Antenna with Cable (P2507-00) Engineering Specification		PART NO.	S2B1BC5A1B01001	REV.
			PAGE 6 OF	12



	Approved By : Frank	PERMISSION		
TITLE:	25.0 x 6.0 x 0.5 (mm) WiFi Dual Band PCB Antenna with Cable (P2507-00) Engineering	PART	S2B1BC5A1B01001	REV.
	Specification	NO.	020100371001001	Α
			PAGE 7 OF	12





## 9. Packing Intruduction

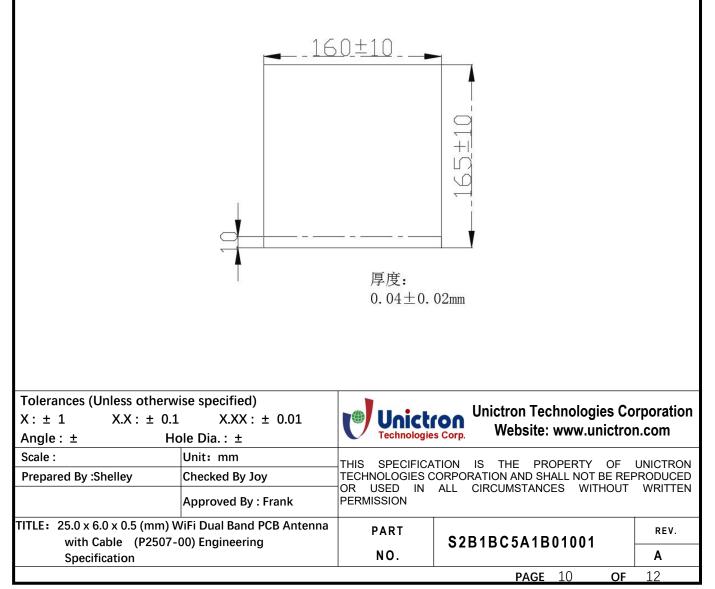
9.1 Quantity/Packing: 25/ parcel ; 2500PCS/ carton

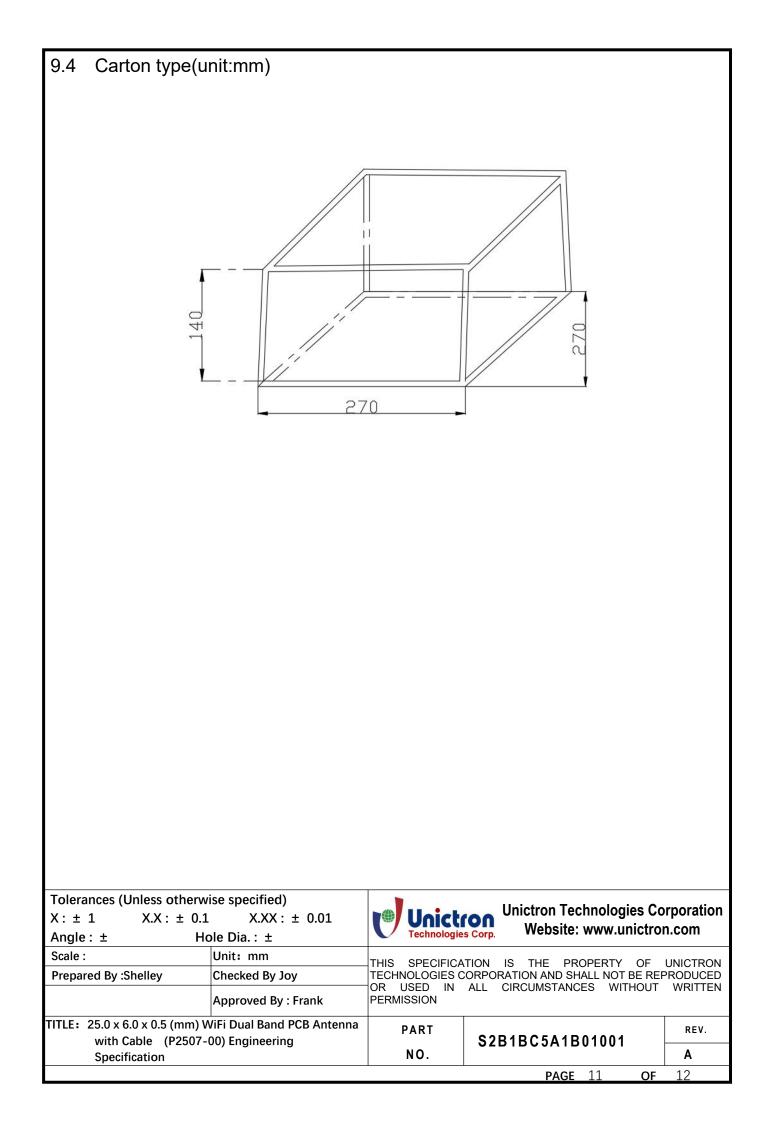
#### 9.2 parcel type(unit:mm)

包装如下图:



### 9.3 PE 袋尺寸





# **10.** Revision Control:

Revision	Date	Content	Remark
А	May.31.2023	New Issued.	N/A

Tolerances (Unless otherwX : ± 1X.X : ± 0.1Angle : ±Ho	. ,	Unictor Technologie	Unictron Technologies C Website: www.unictr	•	
Scale :	Unit: mm	THIS SPECIFICA	TION IS THE PROPERTY OF	UNICTRON	
Prepared By :Shelley Checked By Joy		TECHNOLOGIES CORPORATION AND SHALL NOT BE REPRODUCE			
	Approved By : Frank	OR USED IN PERMISSION	ALL CIRCUMSTANCES WITHOU	WRITTEN	
TITLE: 25.0 x 6.0 x 0.5 (mm) WiFi Dual Band PCB Antenna with Cable (P2507-00) Engineering Specification		PART	S2B1BC5A1B01001	REV.	
		NO.	SZBIBCSAIBUIUUI	Α	
· ·		1	PAGE 12 OF	12	