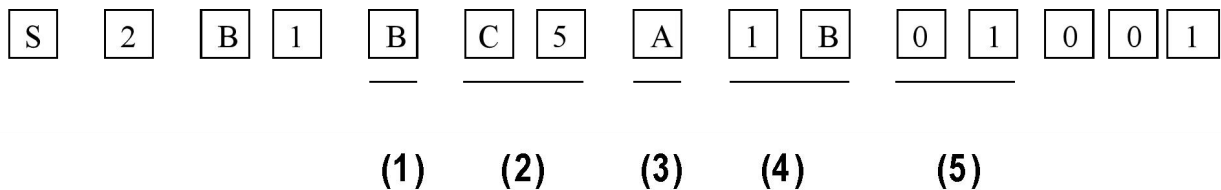


25.0 x 6.0 x 0.5 (mm) WiFi Dual Band PCB Antenna with Cable

(P2507-00) Engineering Specification

1. Explanation of Product Number



Product Code:

(1) Application:

B: WiFi / BT antenna

(2) Dimensions:

C5: 25 x6.0 x 0.5

(3) Material:

F: FPC

(4) Working Frequencies

1B: 2400~2500 & 4900~5900 MHz

(5) Antenna Series:

01: serial number

Tolerances (Unless otherwise specified) X : ± 1 XX : ± 0.1 X.XX : ± 0.01 Angle : ± Hole Dia. : ±		Unictron Technologies Corporation Website: www.unictron.com		
Scale :	Unit: mm	THIS SPECIFICATION IS THE PROPERTY OF UNICTRON TECHNOLOGIES CORPORATION AND SHALL NOT BE REPRODUCED OR USED IN ALL CIRCUMSTANCES WITHOUT WRITTEN PERMISSION		
Prepared By :Shelley	Checked By Joy			
	Approved By : Frank			
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. A
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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 Dimensions		25 x 6.0 x 0.5	mm
Center Frequency		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 otherwise specified)

X : ± 1 X.X : ± 0.1 X.XX : ± 0.01

Angle : \pm Hole Dia. : \pm



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PART
NO.

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A

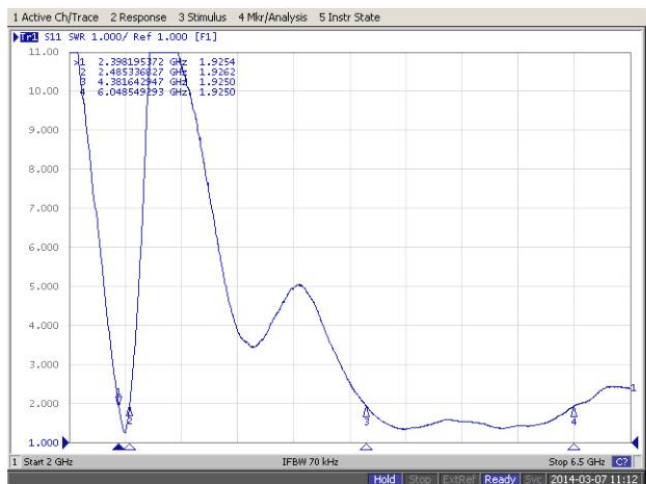
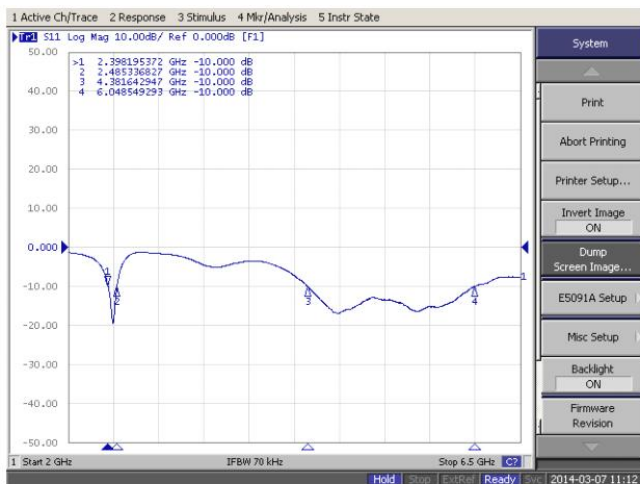
5-2. 4900~5900 MHz Band

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

6. 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

Scale: Unit: mm

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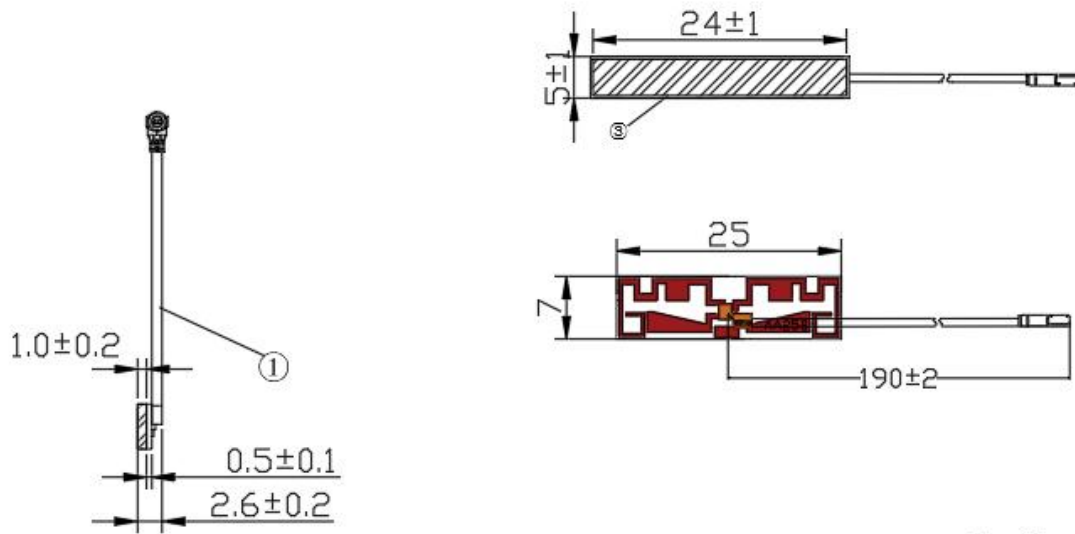
PART NO.

S2B1BC5A1B01001

REV.

A

7. Antenna Dimensions (unit: mm) .



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	Q'ty
	Material	

Tolerances (Unless otherwise specified)

X : ± 1 X.X : ± 0.1 X.XX : ± 0.01

Angle : ± Hole Dia. : ±

Scale : Unit: mm

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PART
NO.

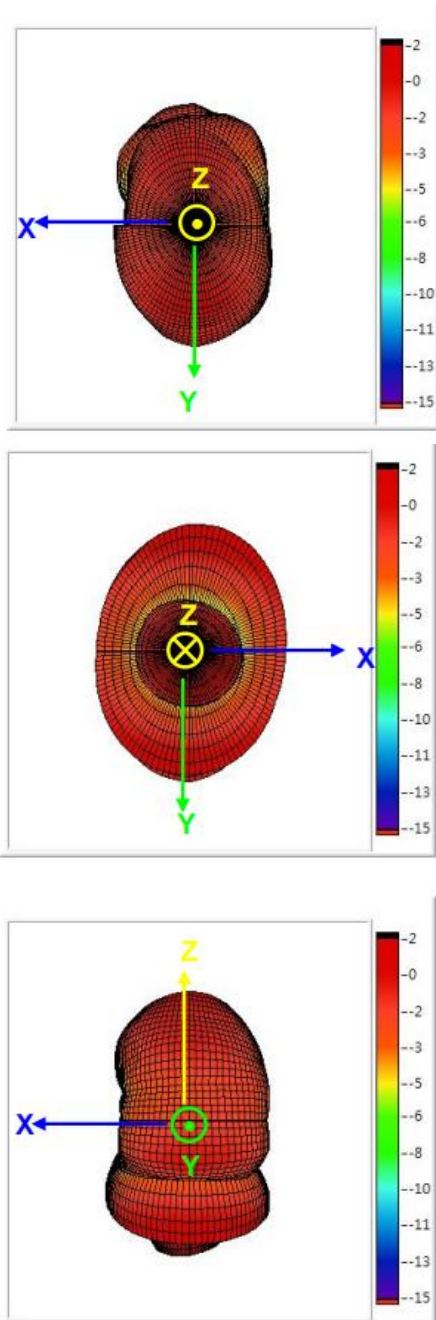
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A

8. Radiation Pattern

8-1. 2400~2500 MHz Band

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



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



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Scale : Unit: mm
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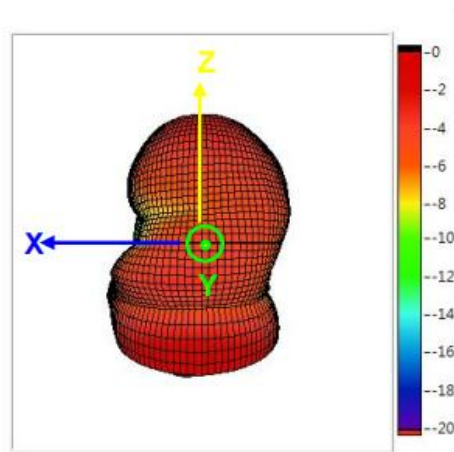
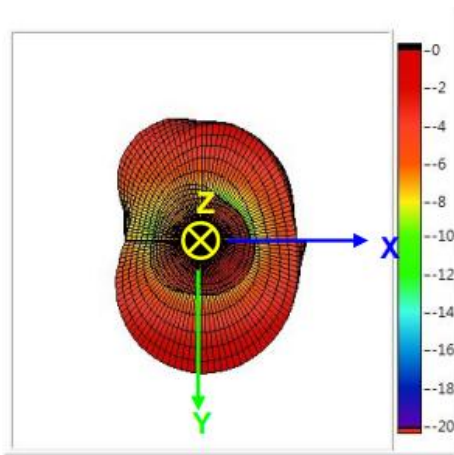
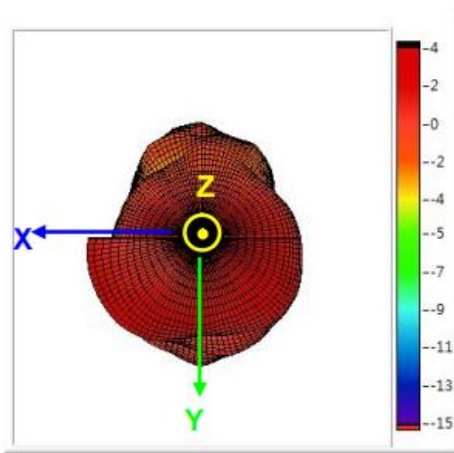
TITLE: 25.0 x 6.0 x 0.5 (mm) WiFi Dual Band PCB Antenna with Cable (P2507-00) Engineering Specification

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



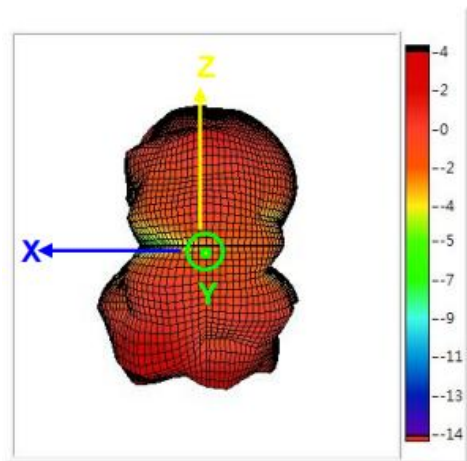
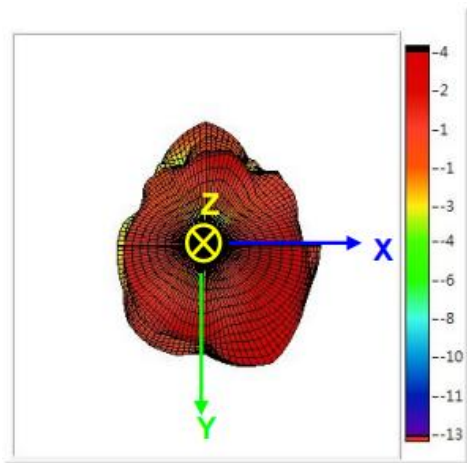
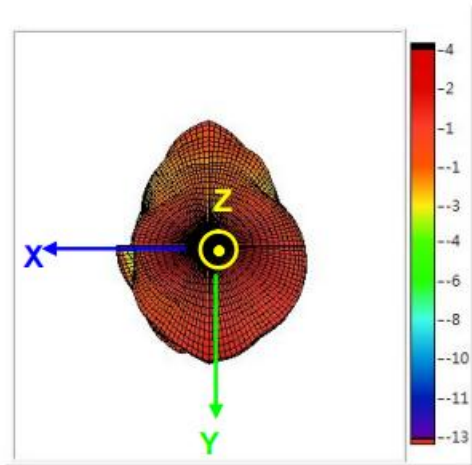
Tolerances (Unless otherwise specified)	
X: ± 1	X.X: ± 0.1 X.XX: ± 0.01
Angle: \pm	Hole Dia.: \pm
Scale:	Unit: mm
Prepared By :Shelley	Checked By Joy
	Approved By : Frank
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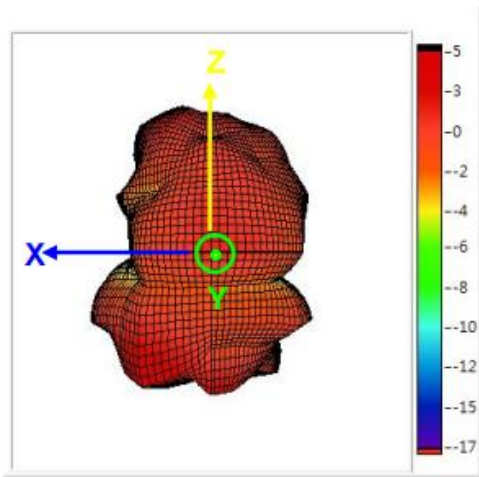
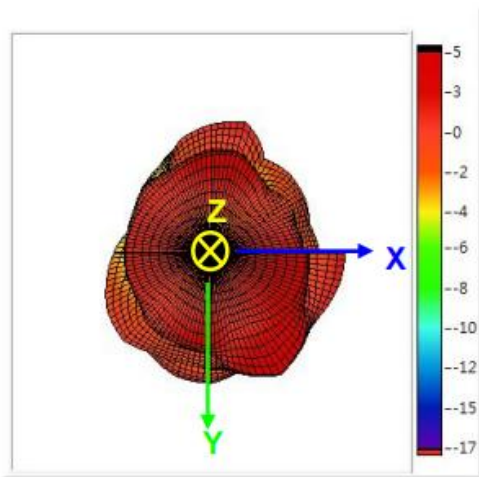
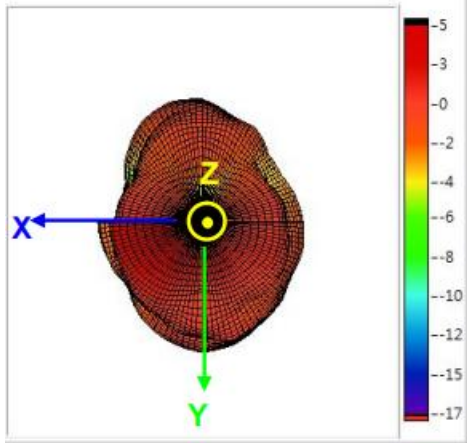
8-2-2. 3D Gain Pattern @ 5150 MHz (unit: dBi)



Tolerances (Unless otherwise specified)	
X : ± 1	X.X : ± 0.1 X.XX : ± 0.01
Angle : \pm	Hole Dia. : \pm
Scale :	Unit: mm
Prepared By :Shelley	Checked By Joy
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8-2-3. 3D Gain Pattern @ 5500 MHz (unit: dBi)



Tolerances (Unless otherwise specified)

X : ± 1 X.X : ± 0.1 X.XX : ± 0.01

Angle : \pm Hole Dia. : \pm



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Scale :

Unit: mm

Prepared By :Shelley

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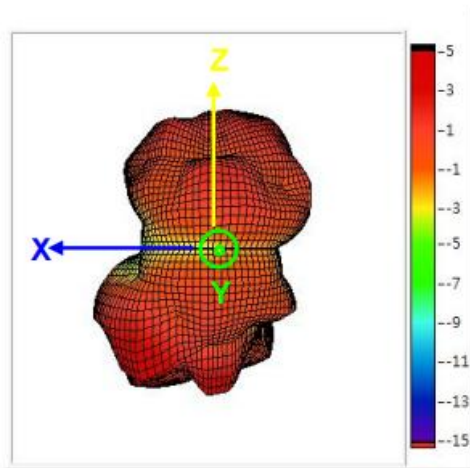
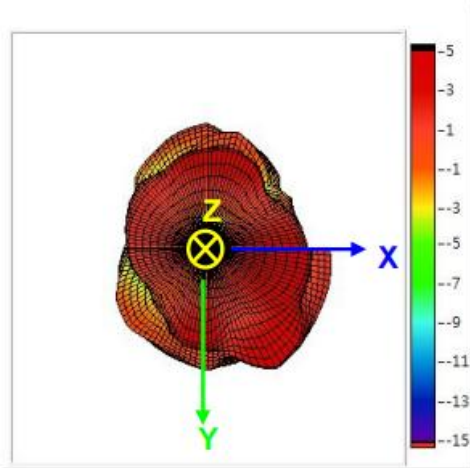
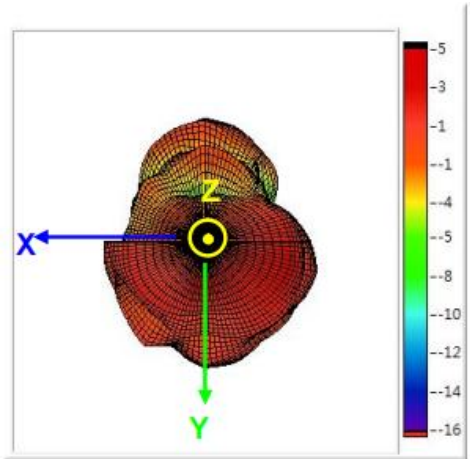
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8-2-4. 3D Gain Pattern @ 5850 MHz (unit: dBi)



Tolerances (Unless otherwise specified)	
X : ± 1	X.X : ± 0.1 X.XX : ± 0.01
Angle : \pm	Hole Dia. : \pm
Scale :	Unit: mm
Prepared By :Shelley	Checked By Joy
	Approved By : Frank
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9. Packing Intruduction

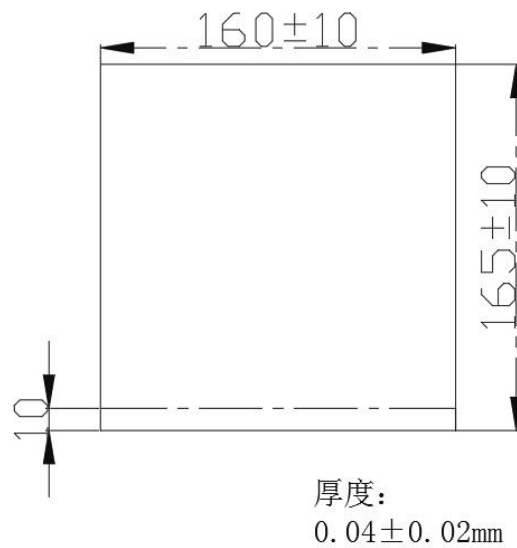
9.1 Quantity/Packing: 25/ parcel ; 2500PCS/ carton


9.2 parcel type(unit:mm)

包装如下图:

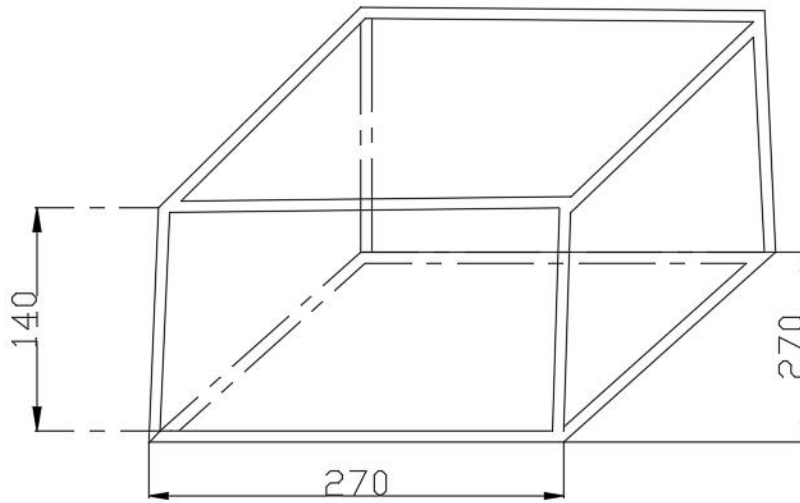


9.3 PE 袋尺寸




Tolerances (Unless otherwise specified) X : ± 1 X.X : ± 0.1 X.XX : ± 0.01 Angle : ± Hole Dia. : ±		 Unictron Technologies Corporation Website: www.unictron.com	
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9.4 Carton type(unit:mm)




Tolerances (Unless otherwise specified)	
X : ± 1	X.X : ± 0.1 X.XX : ± 0.01
Angle : ±	Hole Dia. : ±
Scale :	Unit: mm
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10. Revision Control:

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

Tolerances (Unless otherwise specified) X : ± 1 X.X : ± 0.1 X.XX : ± 0.01 Angle : ± Hole Dia. : ±		 Unictron Technologies Corporation Website: www.unictron.com		
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