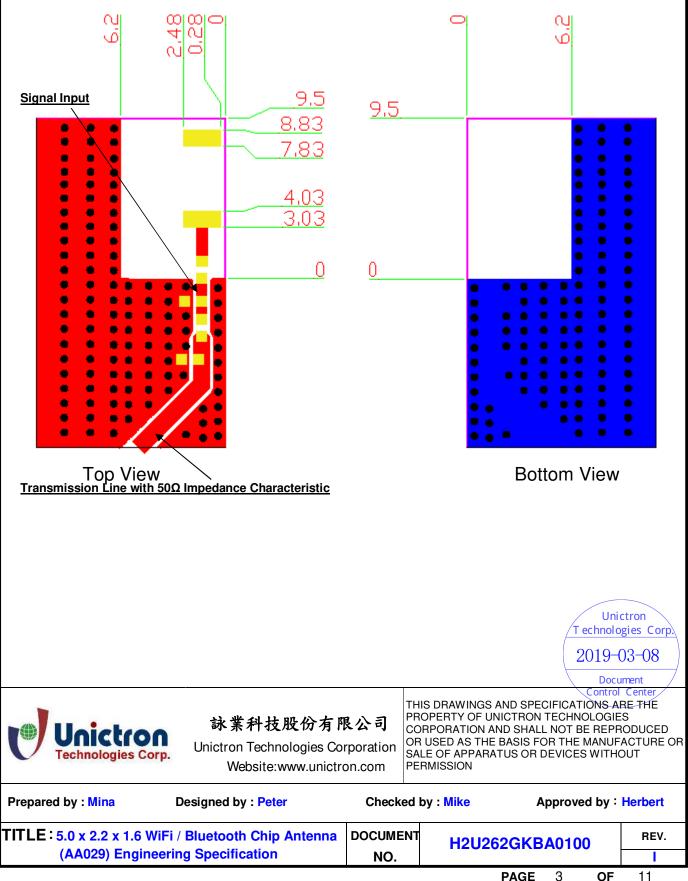


5. **Layout Guide & Electrical Specifications**

5-1. Layout Guide (unit : mm)

Solder Land Pattern:

The solder land pattern (gold marking areas) is shown below. Recommendation on matching circuit will be provided according to customer's installation conditions.

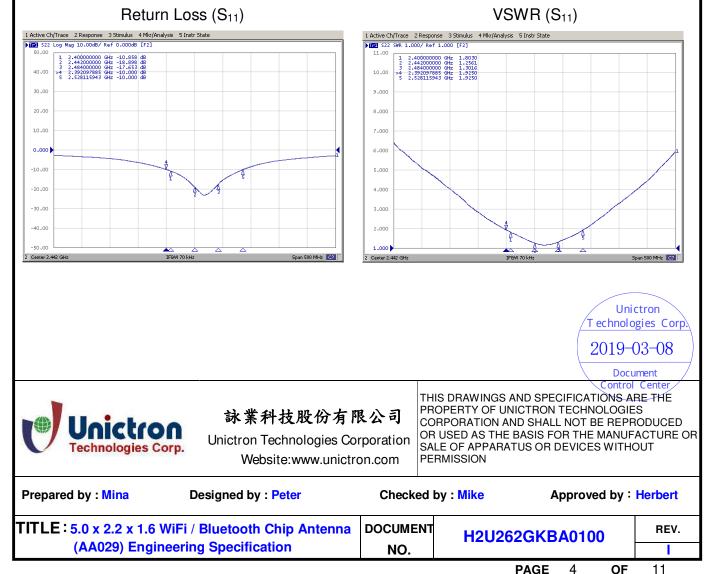


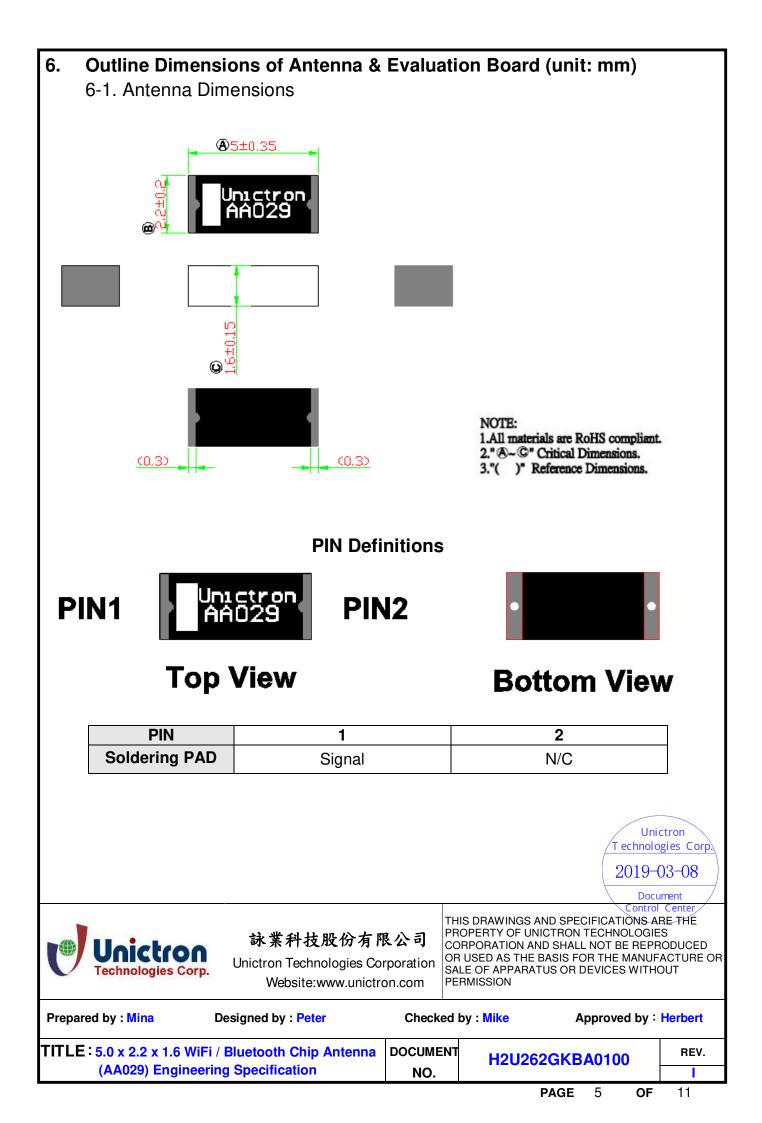
5-2. Electrical Specifications (Evaluation Board Dimensions: 40 x 40 mm²) 5-2-1. Electrical Table

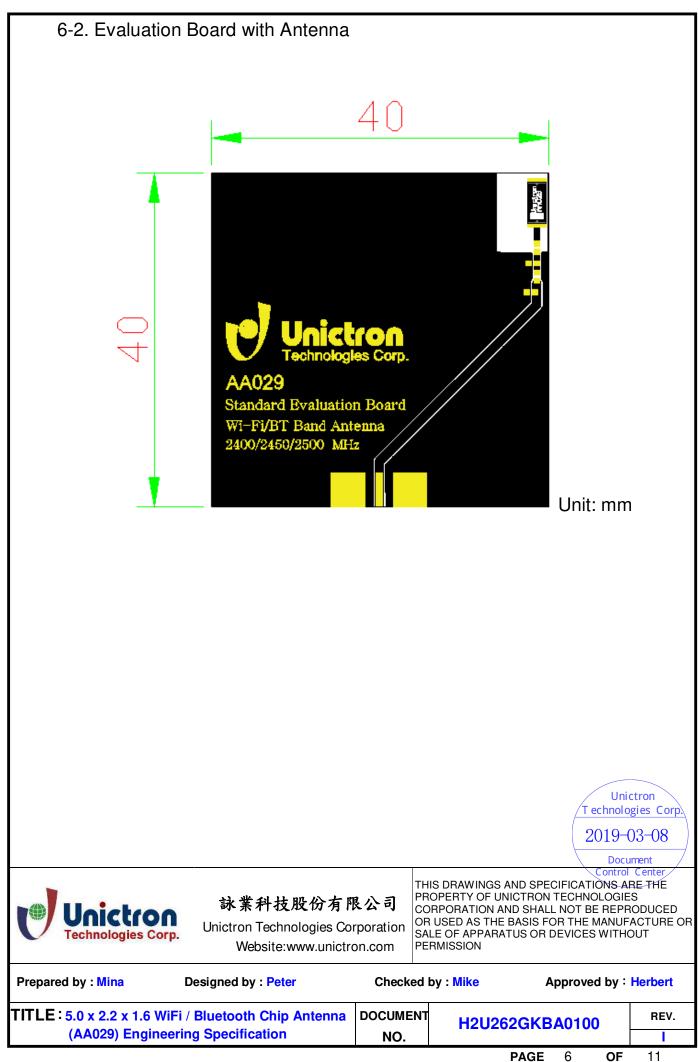
Characteristics		Specifications	Unit	
Outline Dimensions		5.0 x 2.2 x 1.6	mm	
Working Frequency		2400 ~ 2500	MHz	
VSWR(@ center frequency)*		2 Max.		
Characteristic Impedance		50	Ω	
Polarization		Linear Polarization		
Peak Gain	$(\bigcirc 2442 M \square =)$	2.2 (typical)	dBi	
Efficiency	(@2442 MHz)	66 (typical)	%	

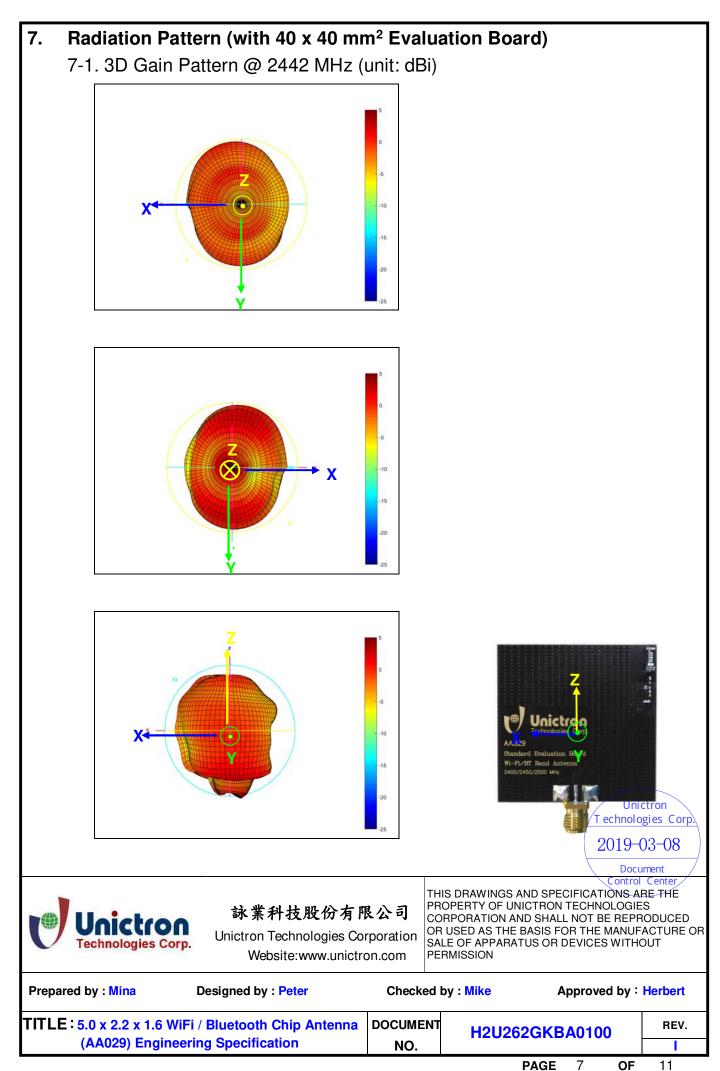
*Center frequency means the frequency with the lowest value in return loss of the chip antenna on the evaluation board.

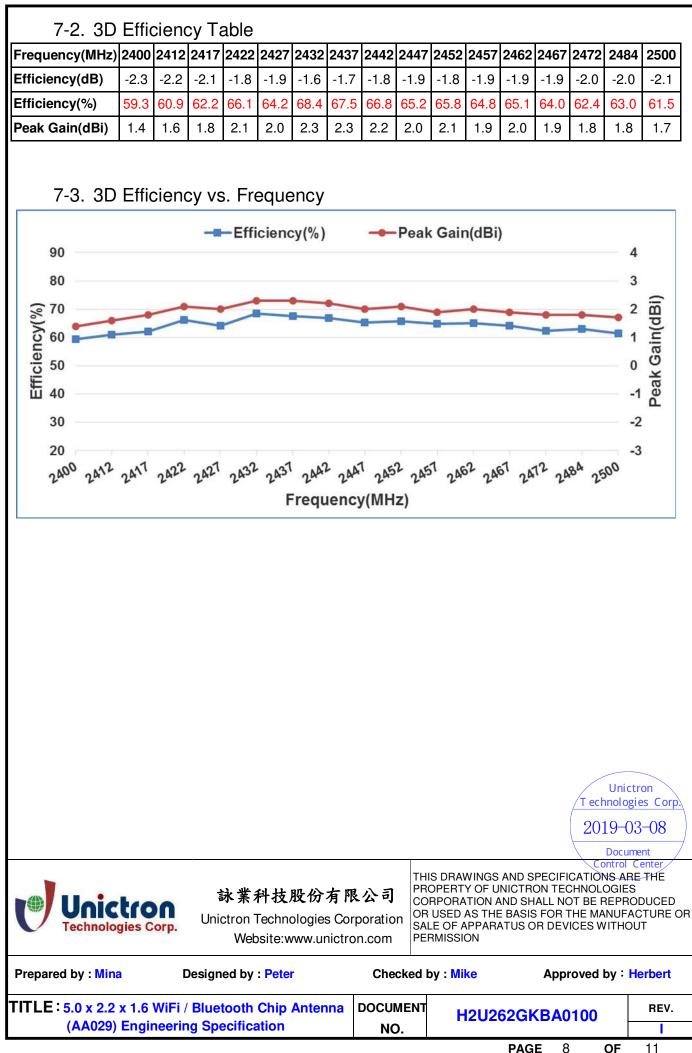
5-2-2. Return Loss & VSWR

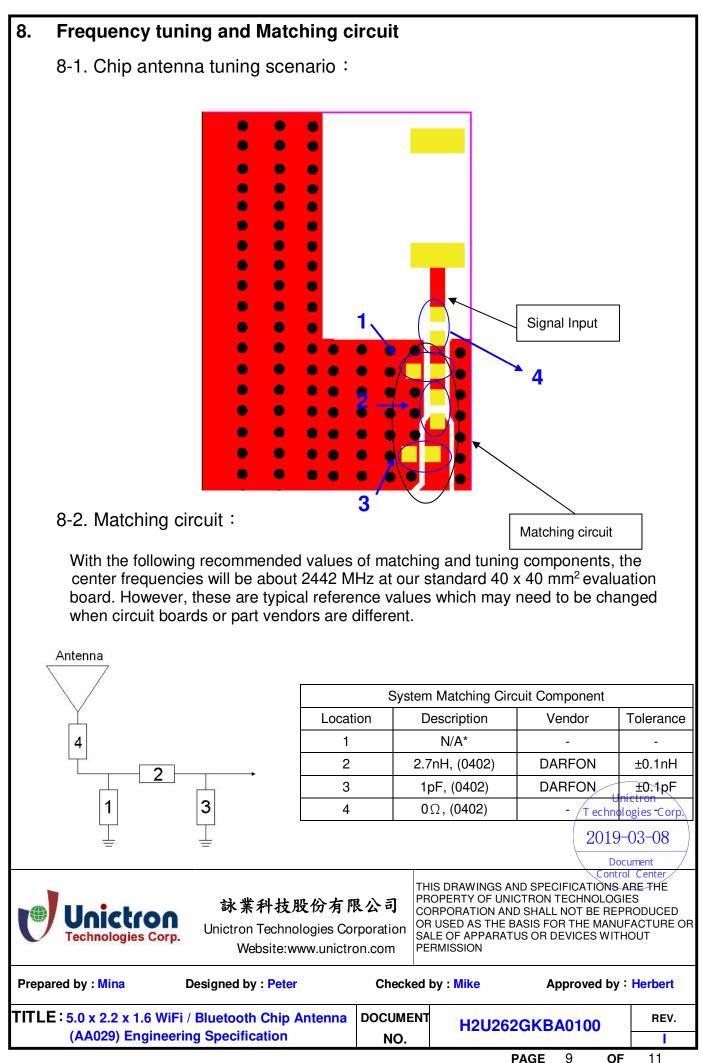


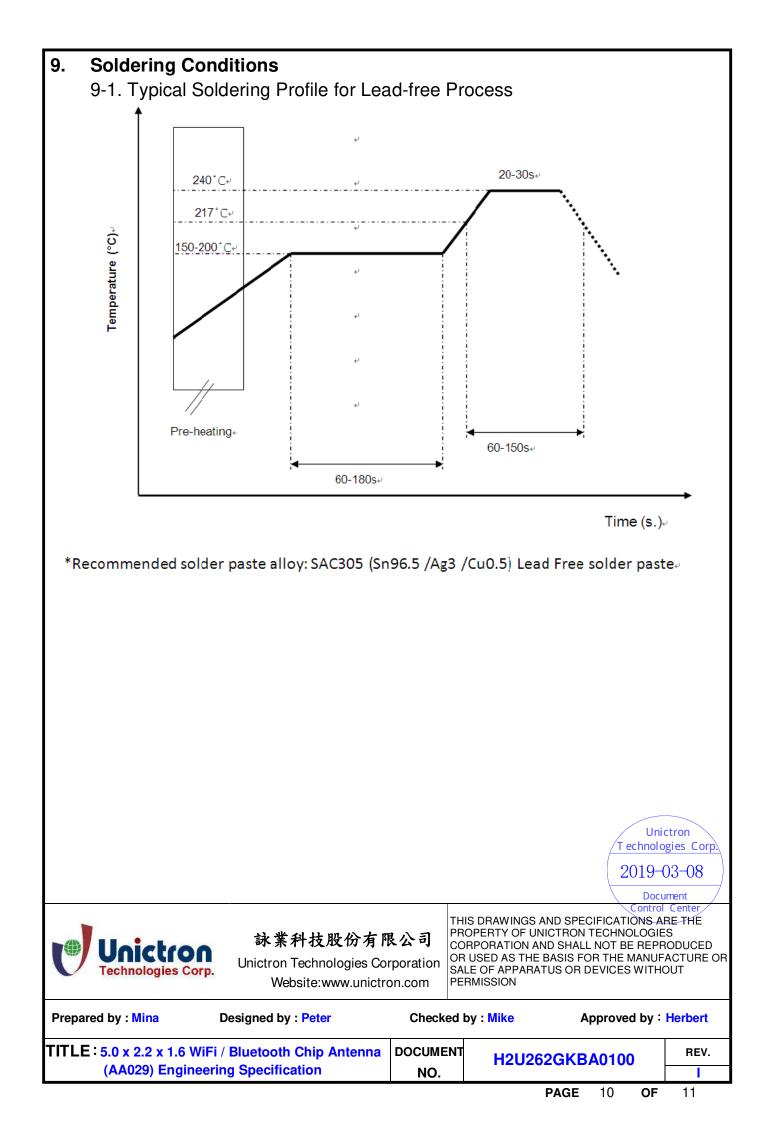








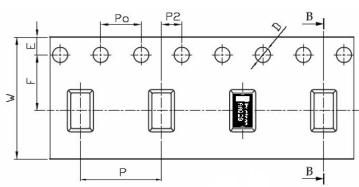




10. Packing

- (1) Quantity/Reel: 3000pcs/Reel
- (2) Plastic tape:

a. Tape Drawing



b. Tape Dimensions (unit: mm)

	Feature	Specifications	Tolerances
	W	12.00	±0.30
	Р	8.00	±0.10
	E	1.75	±0.10
	F	5.50	±0.10
	P2	2.00	±0.10
	D	1.50	+0.10
		1.50	-0.00
15	Po	4.00	±0.10
	10Po	40.00	±0.20

11. Operating & Storage Conditions

- 11-1. Operating
 - (1) Maximum Input Power: 2 W
 - (2) Operating Temperature: -40 $^\circ\!\mathrm{C}$ to 85 $^\circ\!\mathrm{C}$

11-2. Storage

- (1) Storage Temperature: -5°C to 40°C
- (2) Relative Humidity: 20% to 70%
- (3) Shelf Life: 1 year

12. Notice

(1) Installation Guide:

Please refer to Unictron's application note "General guidelines for the installation of Unictron's chip antennas" for further information.

(2) All specifications are subject to change without notice.



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