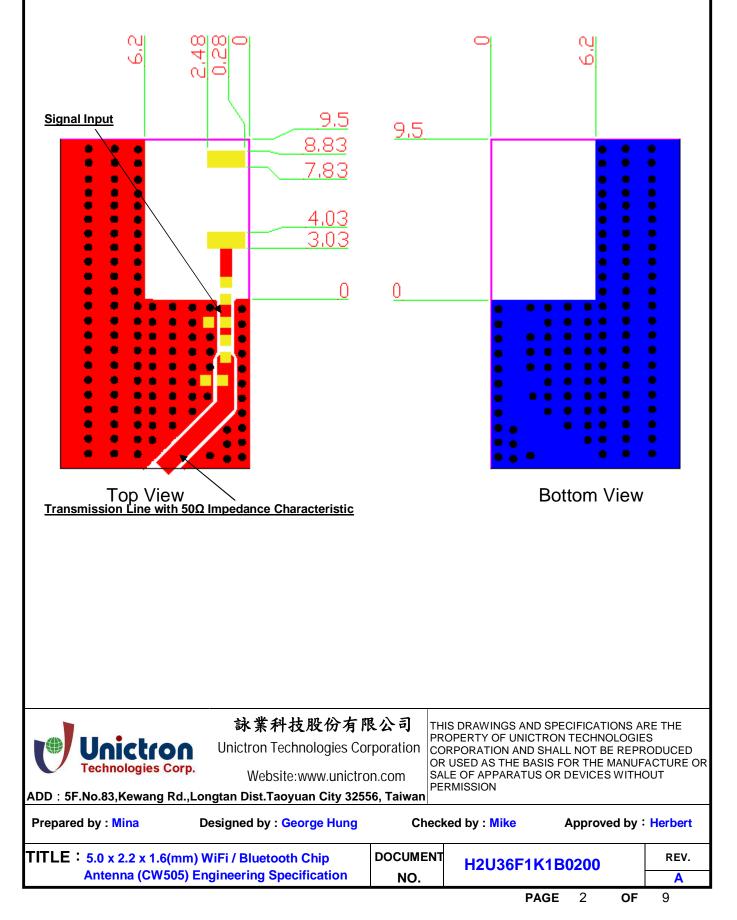


5. Layout Guide & Electrical Specifications

5-1. Layout Guide (unit : mm)

Solder Land Pattern:

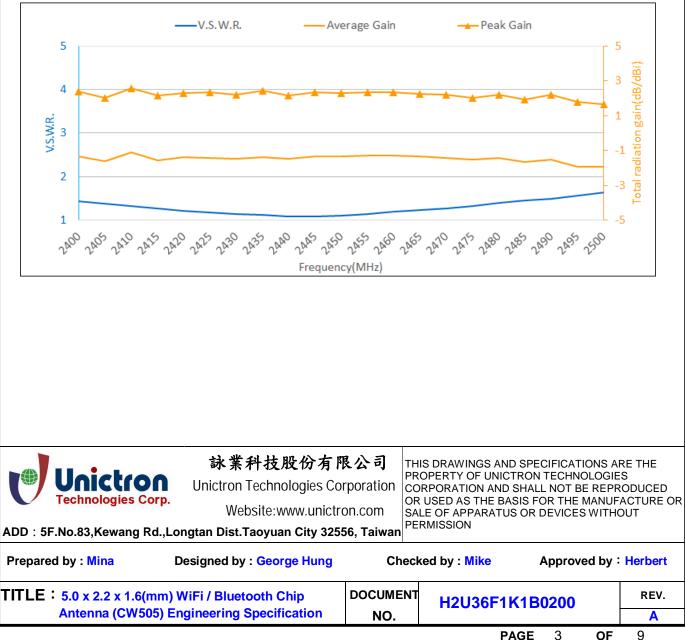
The solder land pattern (gold marking areas) is shown below. Recommendation on matching circuit will be provided according to customer's installation conditions.



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

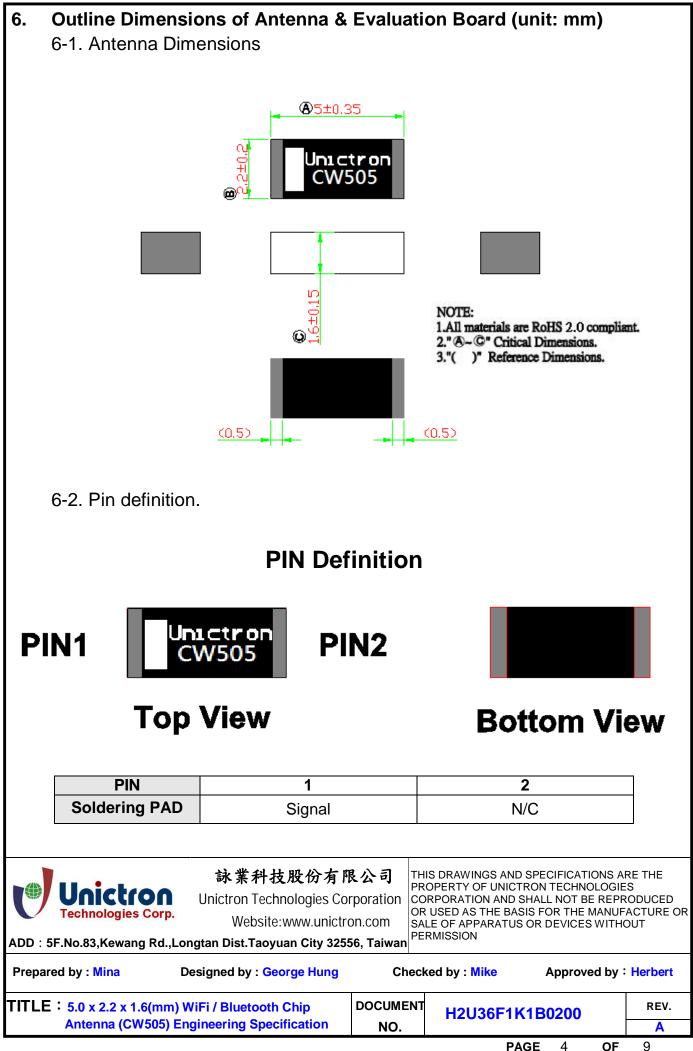
Characteristics		Specifications	Unit		
Outline Dimensions		5.0 x 2.2 x 1.6	mm		
Ground Plane Dimensions		40 x 40	mm		
Working Frequency		2400 ~ 2500	MHz		
VSWR(@ center frequency)*		2 Max.			
Characteristic Impedance		50	Ω		
Polarization		Linear Polarization			
Peak Gain	(@2442 MH-)	2.2 (typical)**	dBi		
Efficiency	(@2442 MHz)	72 (typical)**	%		

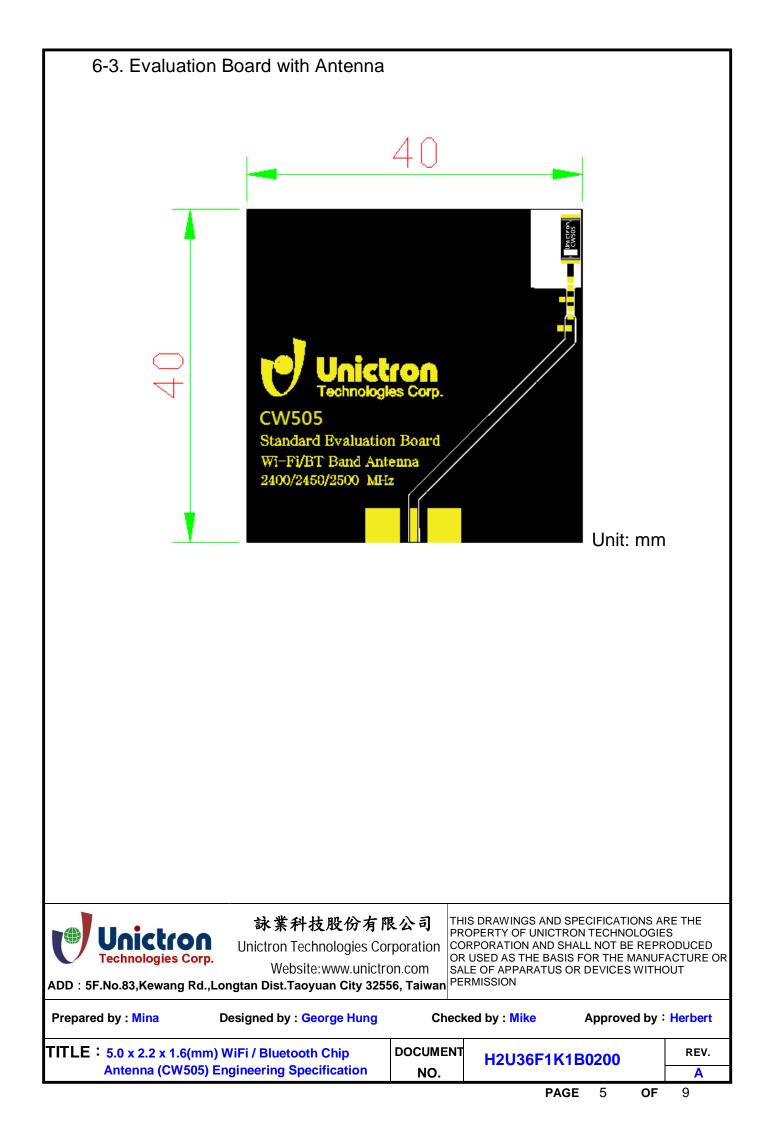
*Center frequency means the frequency with the lowest value in return loss of the chip antenna on the evaluation board. **A typical value is for reference only, not guaranteed.

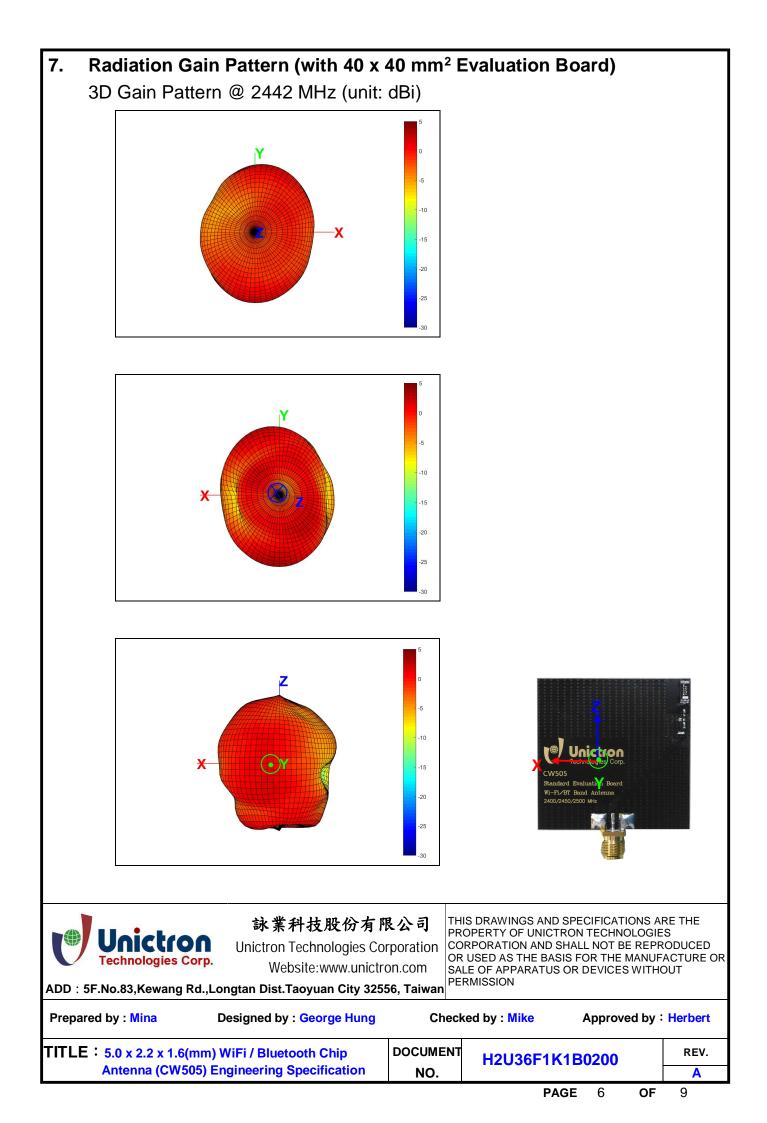


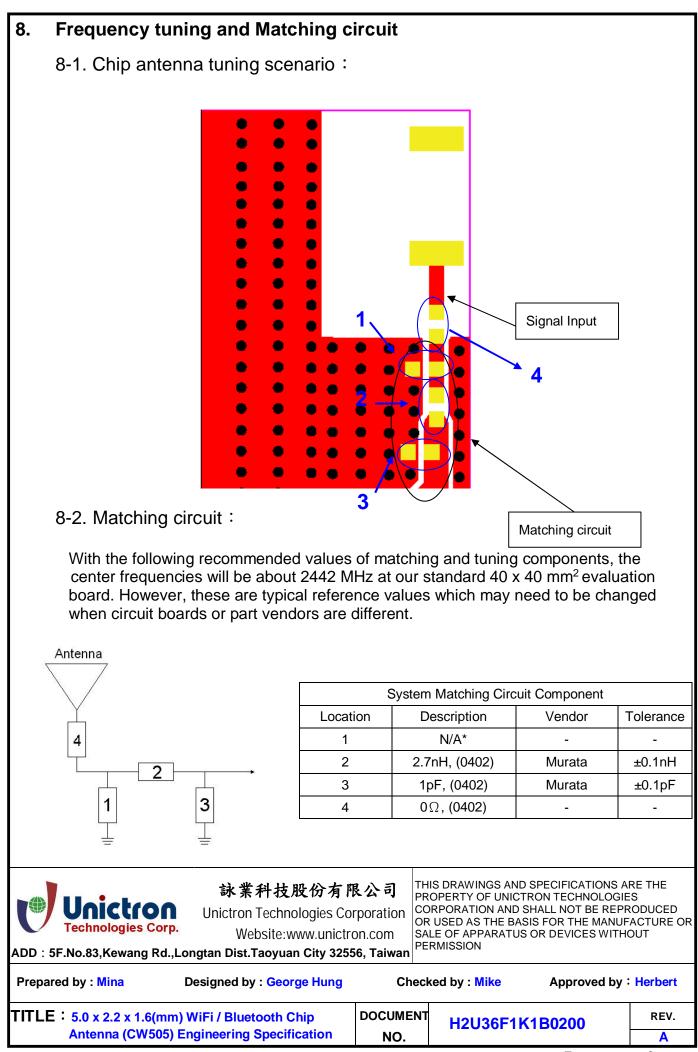
5-2-2. Frequency vs. V.S.W.R. and Total Radiation Gain

PAGE 3 OF

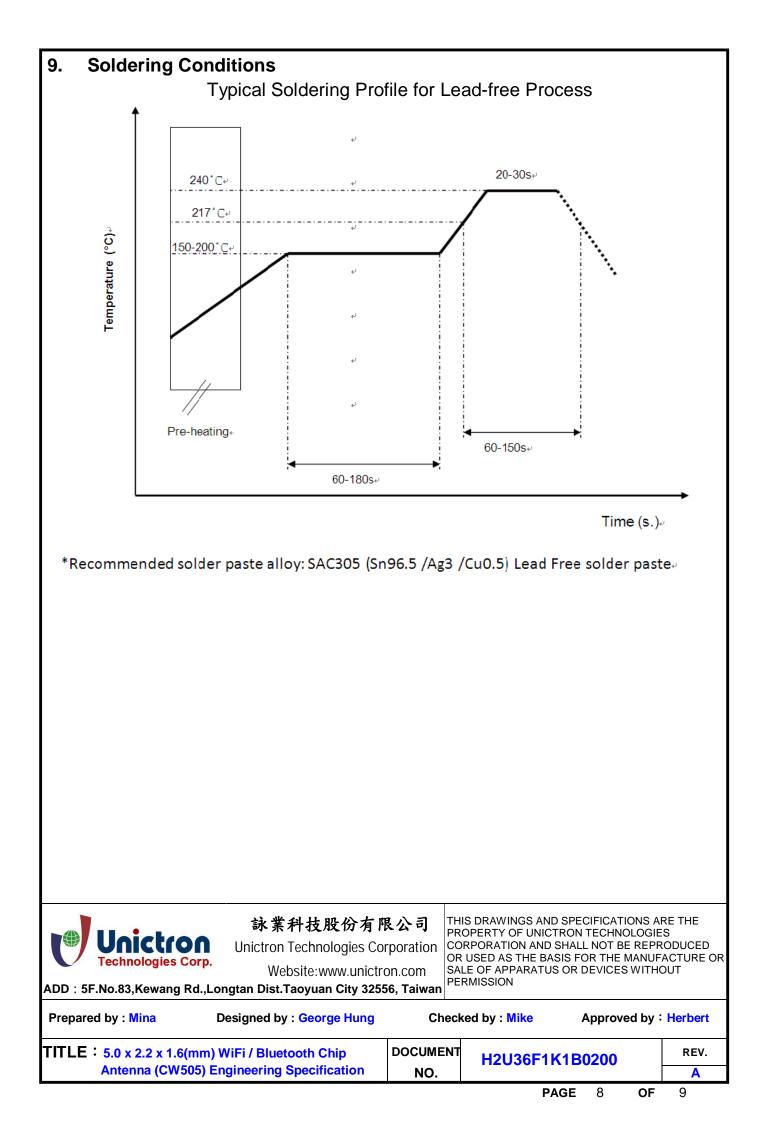








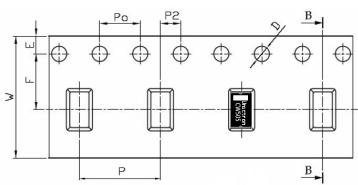
9



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		
	Е	1.75	±0.10		
	F	5.50	±0.10		
	P2	2.00	±0.10		
	D	1.50	+0.10		
		1.50	-0.00		
	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°C to 85°C

11-2. Storage

- (1) Storage Temperature: $-5^{\circ}C$ to $40^{\circ}C$
- (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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Prepared by : Mina Designed by : George Hung Checked by : Mike Approved by : Herbert								
TITLE : 5.0 x 2.2 x 1.6(mm) WiFi / Bluetooth Chip		DOCUMEN	NT H2U36F1K1B0200		REV.			
Antenna (CW505)	Engineering Specification	NO.			Α			
			PAGE	9 O	F 9			