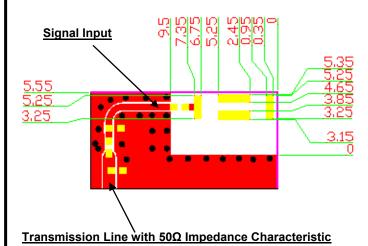


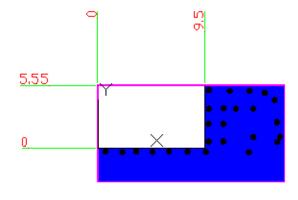
5. Layout Guide & Electrical Specifications

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.

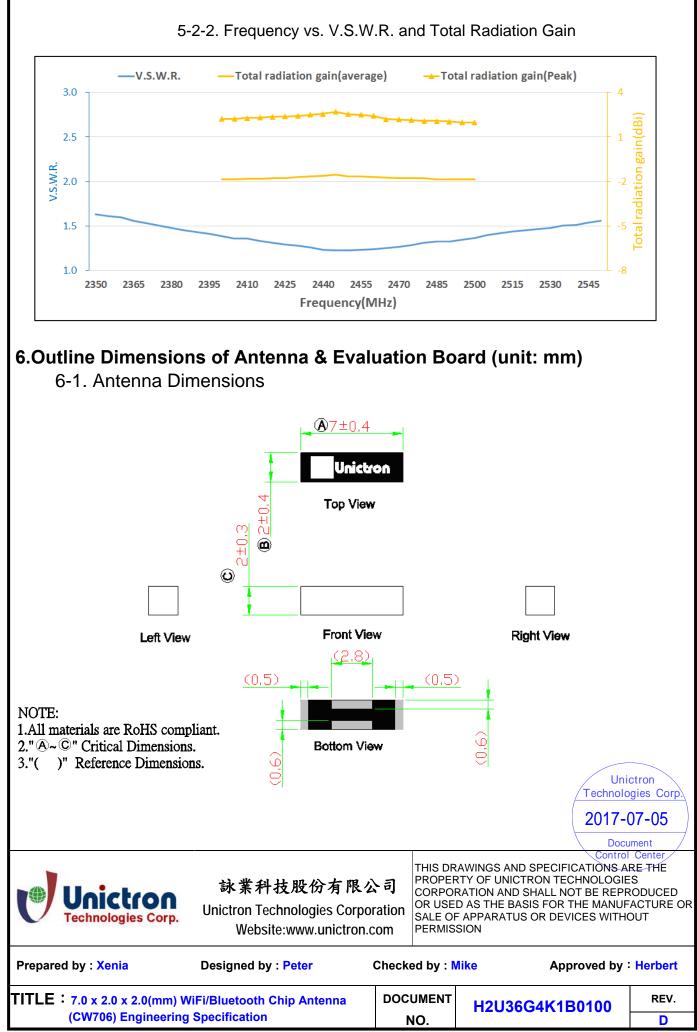




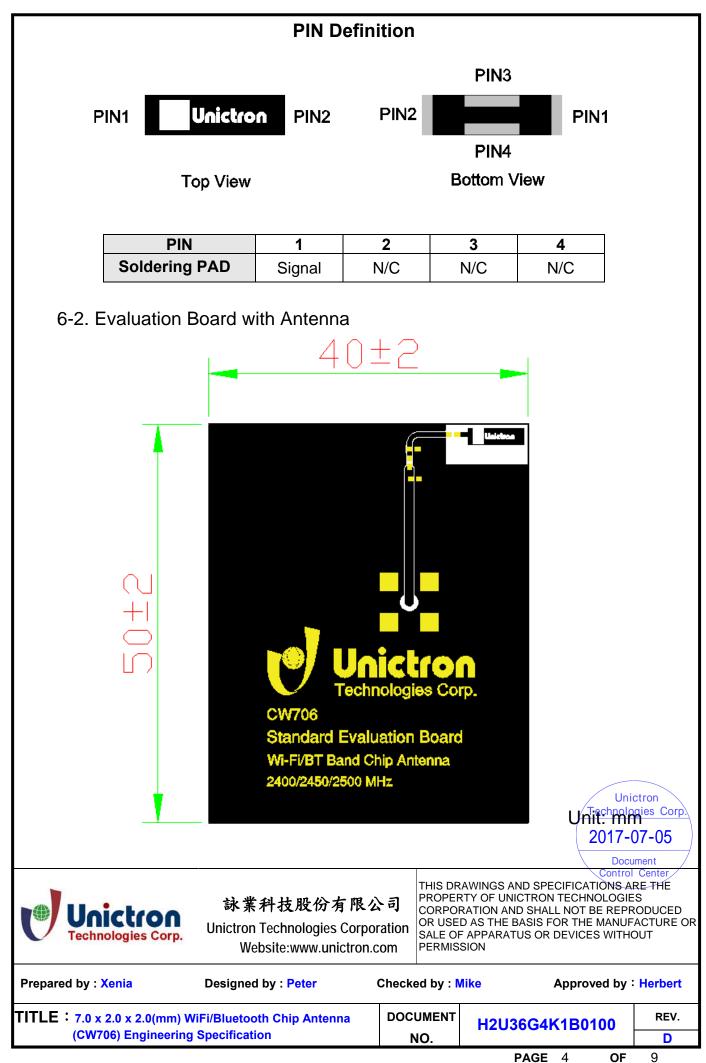
5-2. Electrical Specifications (Evaluation board dimensions: 50 x 40 mm²)

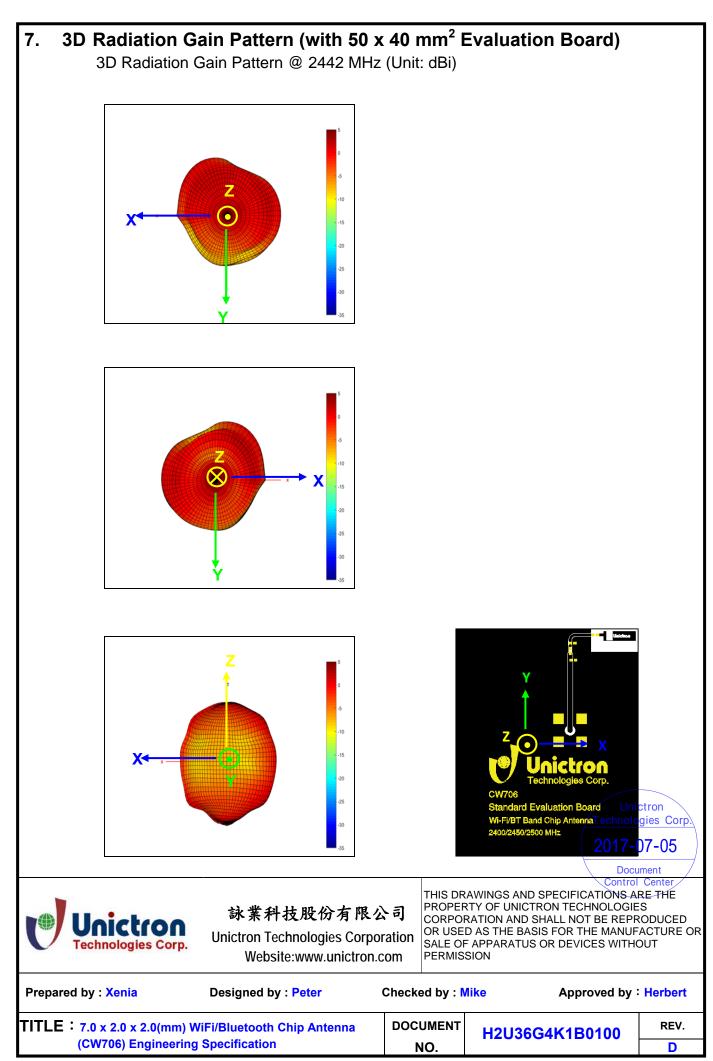
5-2-1. Electrical Table						
Characteristics		9,	Specifications		U	nit
Outline Dimensions			7.0 x 2.0 x 2.0		m	m
Ground Plane Dir	Ground Plane Dimensions		50 x 40		m	m
Working Frequen	Working Frequency		2400~ 2500		M	Hz
VSWR (@ center	VSWR (@ center frequency)*		2 Max.			
Characteristic Imp	Characteristic Impedance		50		2	2
Polarization	arization Linear P		Polarization			
Peak Gain	(@2442 MHz)		2.3(typical)**		d	Bi
Efficiency	,		67(typical)**			6
*Center frequency means the frequency with the lowest value in return loss of the chip antenna on the evaluation board or the chip antenna or the evaluation board or the chip antenna on the evaluation board or the chip antenna or or						
**A typical value is for reference only, not guaranteed.					07-05	
						ument
Unictron Technologies Corp.	詠業科技股份有限公司 Unictron Technologies Corporation Website:www.unictron.com		Control Center THIS DRAWINGS AND SPECIFICATIONS ARE-THE PROPERTY OF UNICTRON TECHNOLOGIES CORPORATION AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE OF SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION			RE THE ES RODUCED FACTURE OR
Prepared by : Xenia Designed by : Peter Checked by : Mike Approved by : Herbert					Herbert	
TITLE : 7.0 x 2.0 x 2.0(mm) WiFi/Bluetooth Chip Antenna			CUMENT H2U36G		<1B0100	REV.
(CW706) Engineering Specification			Ю.			D

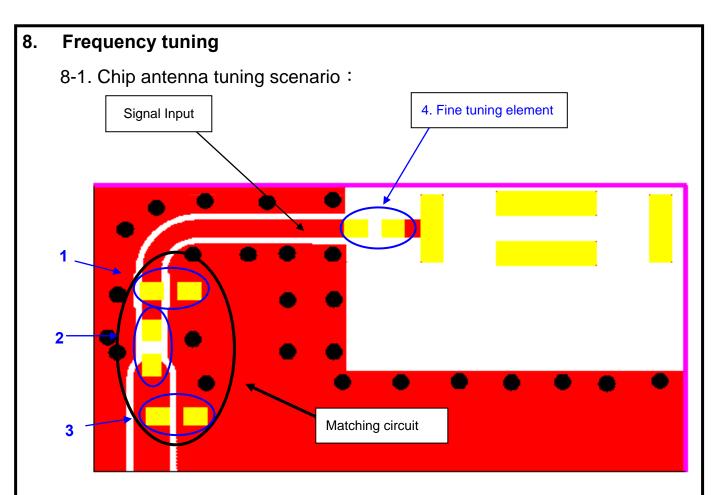
Electrical Table



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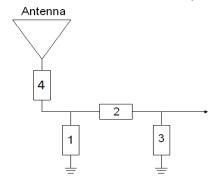






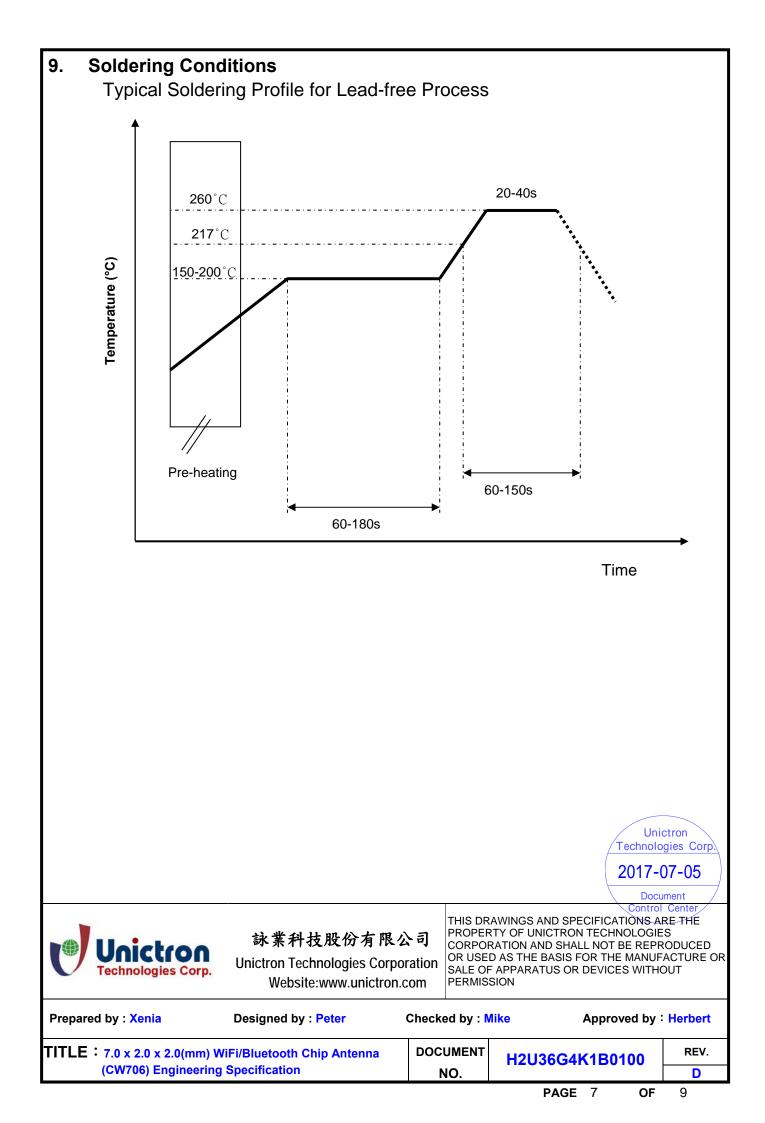
8-2. Matching circuit :

With the following recommended values of matching and tuning components, the center frequencies will be about 2442 MHz at our standard 50 x 40 mm² evaluation board. However, these are typical reference values which may need to be changed when circuit boards or part vendors are different.



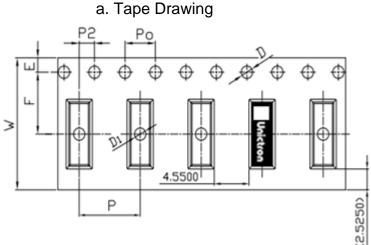
System Matching Circuit Component				
Location	Description	Vendor	Tolerance	
1	1 pF, (0402)	MURATA	±0.1 pF	
2	1.8 nH, (0402)	MURATA	±0.1 nH	
3	N/A			
4 Fine tuning element	5.6 nH, (0402)	MURATA	±0.1 nH	

					Technol 2017- Doc	ictron ogies Corp. •07-05 sument of Center
Unictron Technologies Corp.	詠 兼 杆 孜 股 份 有 限 公 可 Unictron Technologies Corporation		THIS DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF UNICTRON TECHNOLOGIES CORPORATION AND SHALL NOT BE REPRODUCED OR USED AS THE BASIS FOR THE MANUFACTURE O SALE OF APPARATUS OR DEVICES WITHOUT PERMISSION			ARE THE ES RODUCED FACTURE OR
Prepared by : Xenia	Designed by : Peter	Checked	d by : N	like /	Approved by	: Herbert
			UMENT H2U36G4K1		(1B0100	REV.
				PAGE	6 OF	9



10. Packing

- (1)Quantity/Reel: 900 pcs/Reel
- (2) Plastic tape: Black Conductive Polystyrene.



b. Tape Dimensions (unit: mm)

	Feature	Specifications	Tolerances		
	W	16.00	±0.30		
	Р	8.00	±0.10		
	ш	1.75	±0.10		
	F	7.5	±0.10		
	P2	2.00	±0.10		
	D	1.50	+0.10		
	ם	1.50	-0.00		
	D1	1.50	±0.10		
	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 $^\circ\!\mathrm{C}$
 - (3) Relative Humidity: 10% to 70%

11-2. Storage (sealed)

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

11-3. Storage (unsealed)

Meet the criteria of J-STD-033 MSL2a

11-4. Storage (After mounted on customer's PCB with SMT process)

- (1) Storage Temperature: -40 $^\circ\!\mathrm{C}$ to 85 $^\circ\!\mathrm{C}$
- (2) Relative Humidity: 10% to 70%

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Unictron Technologies Corp.

2017-07-05

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.

