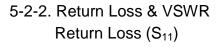


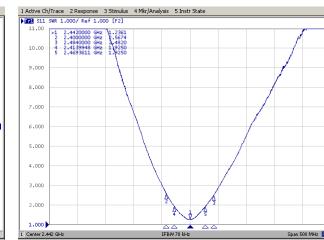
5-2. Electrical Specifications (Evaluation Board Dimensions: 40 x 20 mm²) 5-2-1. Electrical Table

Character	ristics	Specifications	Unit				
Outline Dimensions		1.6 x 0.8 x 0.3	mm				
Ground Plane Dime	nsions	40 x 20	mm				
Working Frequency		2400~2500	MHz				
VSWR(@ center fre	quency)*	2.5 Max.					
Characteristic Impedance		50	Ω				
Polarization		Linear Polarization					
Peak Gain		-0.3 (typical)**	dBi				
Efficiency	(@2442 MHz)	60 (typical)**	%				

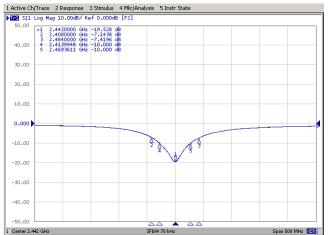
*Center frequency means the frequency with the lowest value in return loss of the chip antenna on the evaluation board.

**A Typical value is for reference only, not guaranteed.





VSWR (S₁₁)

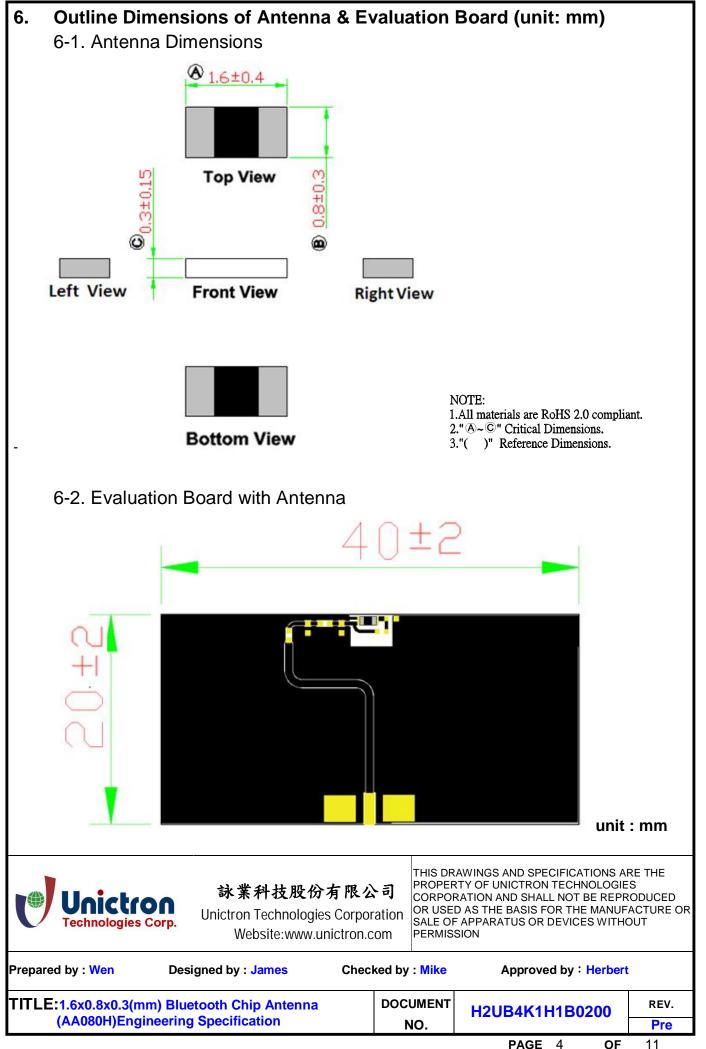


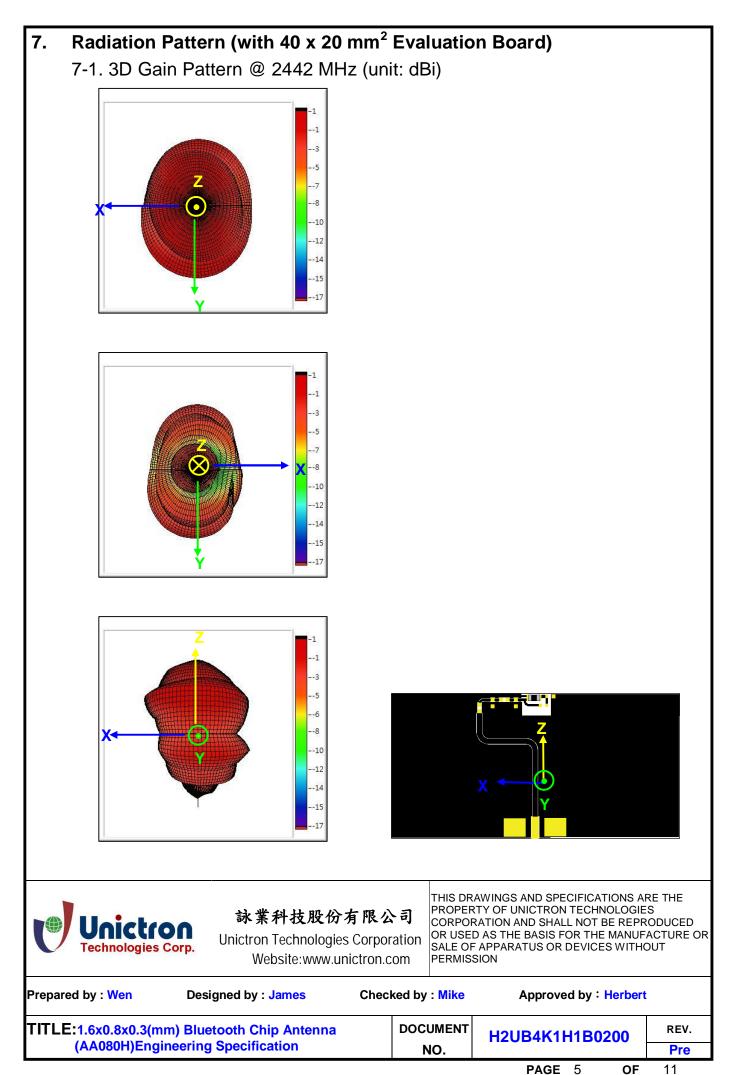


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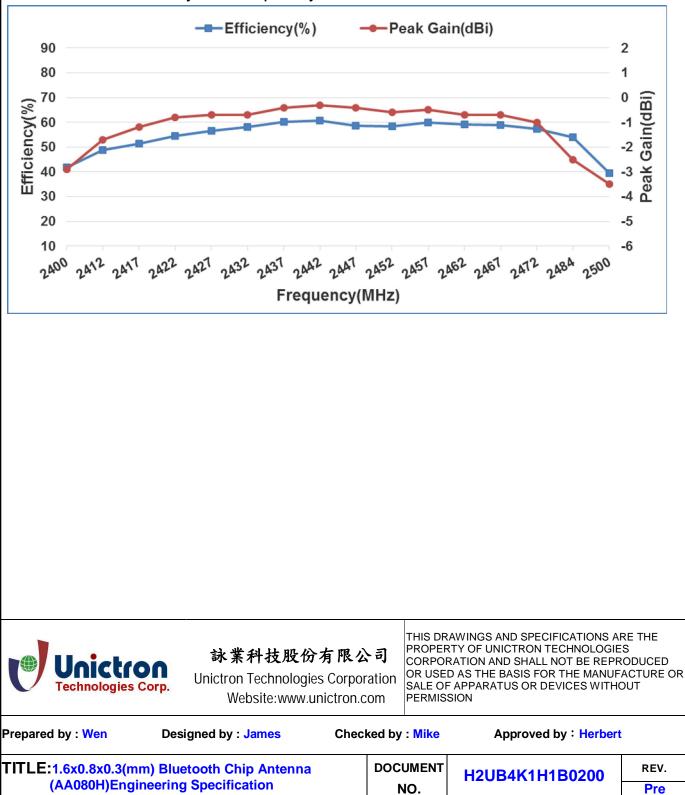
Prepared by : Wen	Designed by : James	Checl	ked by : Mike				
TITLE:1.6x0.8x0.3(mm) Bluetooth Chip Antenna			DOCUMENT	H2UB4K1H1B0200			REV.
(AA080H)Engineering Specification			NO.				Pre
				PAGE	3	OF	11

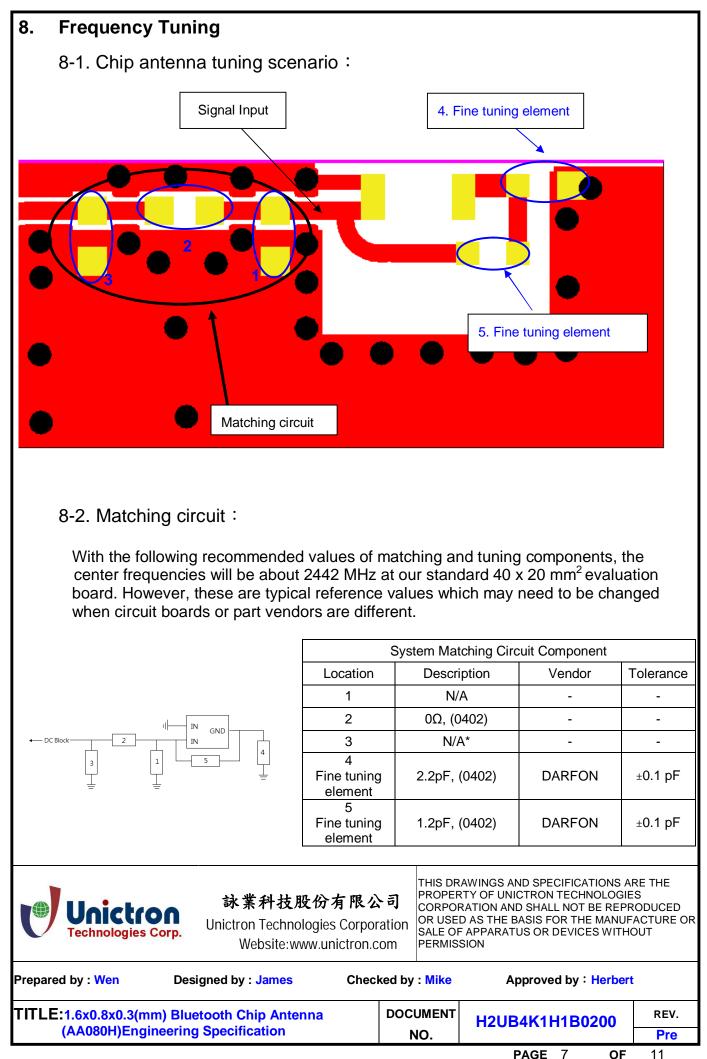


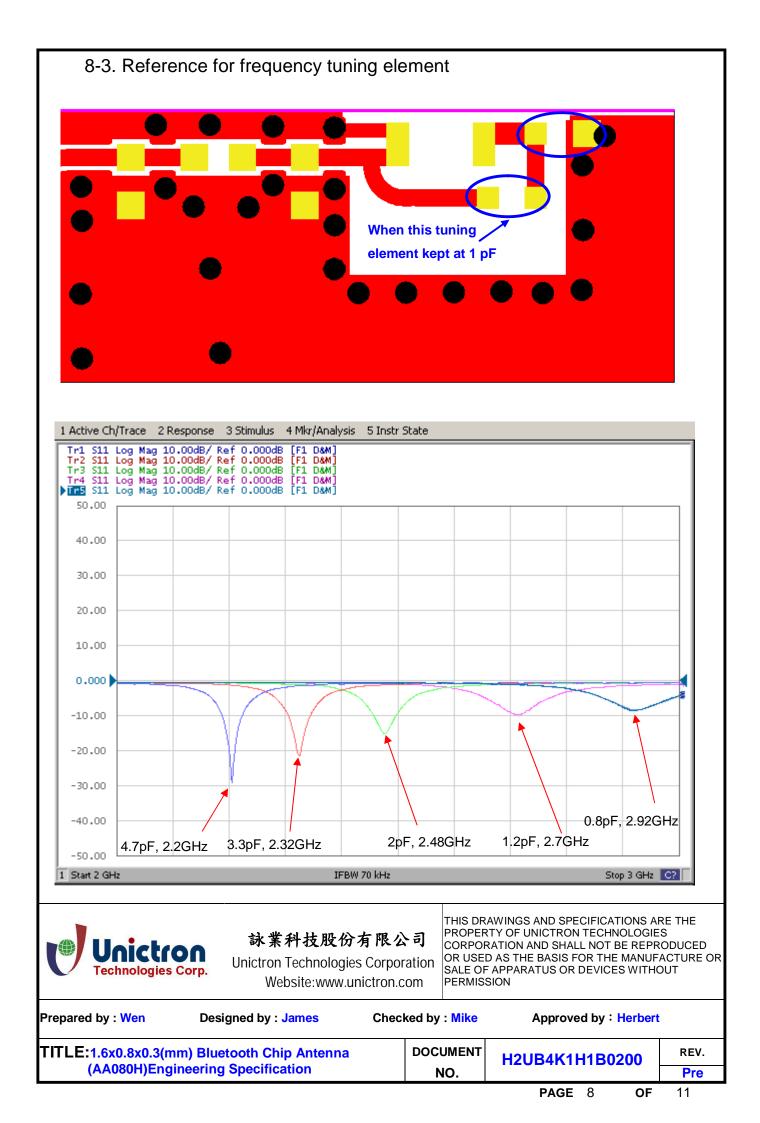


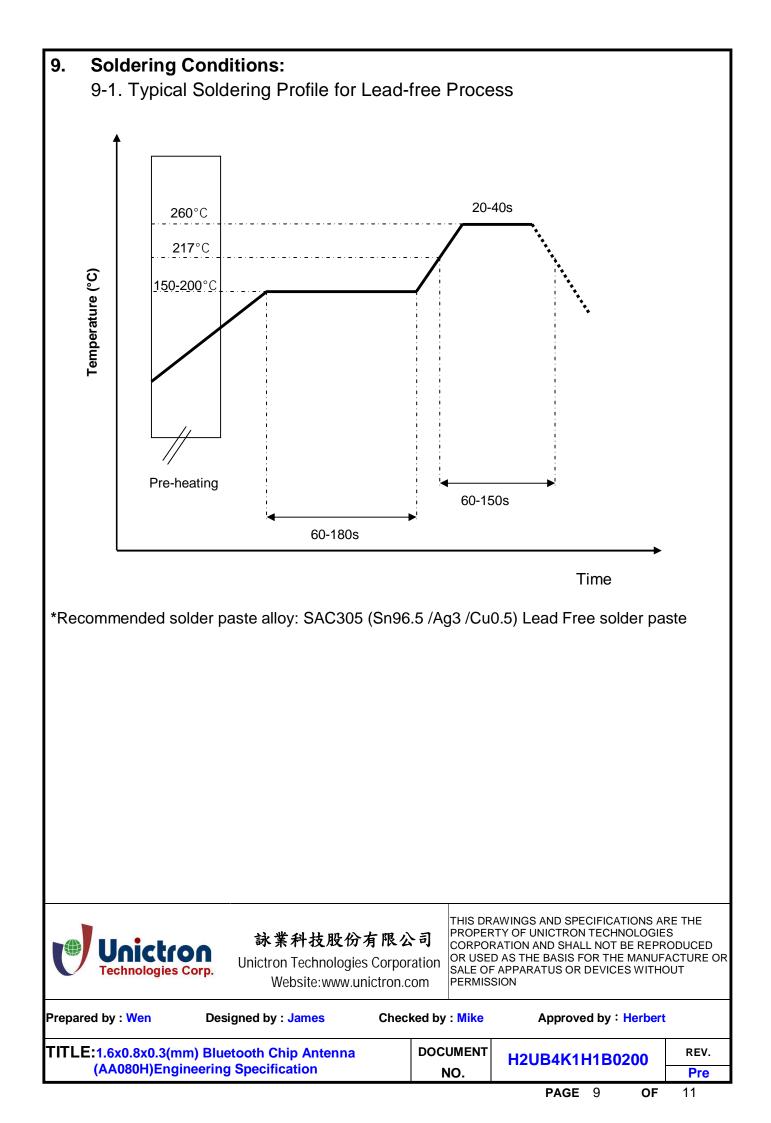
7-2. 3D Efficiency Table																
Frequency(MHz)	2400	2412	2417	2422	2427	2432	2437	2442	2447	2452	2457	2462	2467	2472	2484	2500
Efficiency(dB)	-3.8	-3.1	-2.9	-2.6	-2.5	-2.4	-2.2	-2.2	-2.3	-2.3	-2.2	-2.3	-2.3	-2.4	-2.7	-4.0
Efficiency(%)	41.8	48.9	51.4	54.6	56.5	58.1	60.1	60.7	58.6	58.3	60.0	59.2	59.0	57.4	53.9	39.5
Peak Gain(dBi)	-2.9	-1.7	-1.2	-0.8	-0.7	-0.7	-0.4	-0.3	-0.4	-0.6	-0.5	-0.7	-0.7	-1.0	-2.5	-3.5

7-3. 3D Efficiency vs. Frequency









10. Reminders for users of Unictron's AA080H ceramic chip antennas

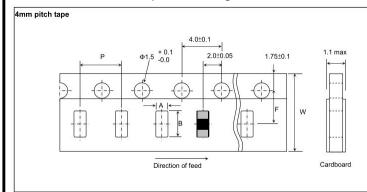
- 10-1. This chip antenna is made of ceramic materials which are relatively more rigid and brittle compared to printed circuit board materials. Bending of circuit board at the locations where chip antenna is mounted may cause the cracking of solder joints or antenna itself.
- 10-2. Punching/cutting of the break-off tab of PCB panel may cause severe bending of the circuit board which may result in cracking of solder joints or chip antenna itself. Therefore break-off tab shall be located away from the installation site of chip antenna.
- 10-3. Be cautious when ultrasonic welding process needs to be used near the locations where chip antennas are installed. Strong ultrasonic vibration may cause the cracking of chip antenna solder joints.

11. Packing:

1. Material: Cardboard

- (1) Quantity/Reel: 5000pcs/Reel
- (2) Cardboard tape:

a. Tape Drawing



b. Tape Dimensions (unit: mm)

Feature	Specifications	Tolerances
А	1.1	±0.20
В	1.9	±0.20
F	3.5	±0.05
Р	4	±0.10
W	8	±0.20

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NO.

12. Operating & Storage Conditions

- 12-1. Operating
 - (1) Maximum Input Power: 2 W
 - (2) Operating Temperature: -40° C to 85° C

12-2. Storage

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

12-3. Storage (unsealed) Meet the criteria of J-STD-033 MSL2a

12-4. Storage (After mounted on customer's PCB with SMT process)

- (1) Storage Temperature: -40° C to 85° C
- (2) Relative Humidity: 10% to 70%

13. 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 : Wen	Designed by : James	Checked	d by : <mark>Mike</mark>	Approved by : Herbert					
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				PAGE	11	OF	11		