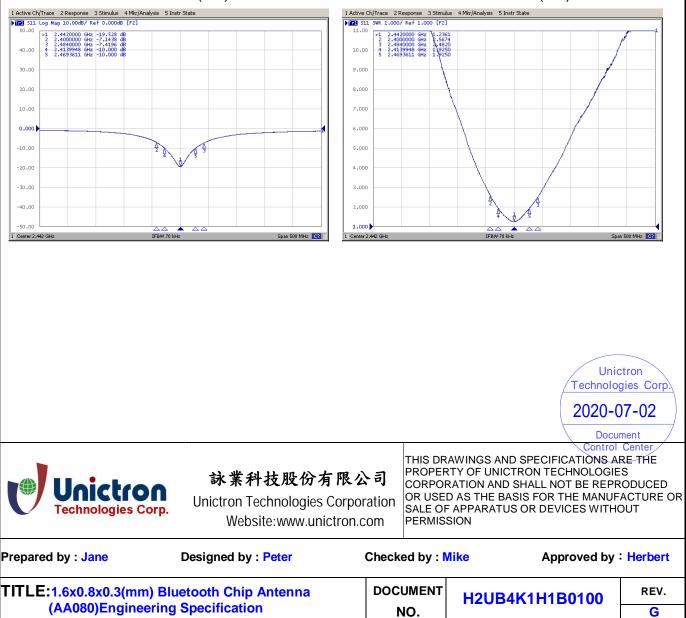


5-2. Electrical Specifications (Evaluation Board Dimensions: 40 x 20 mm²) 5-2-1. Electrical Table

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 Imped	dance	50	Ω					
Polarization		Linear Polarization						
Peak Gain		-0.3 (typical)	dBi					
Efficiency	(@2442 MHz)	60 (typical)	%					

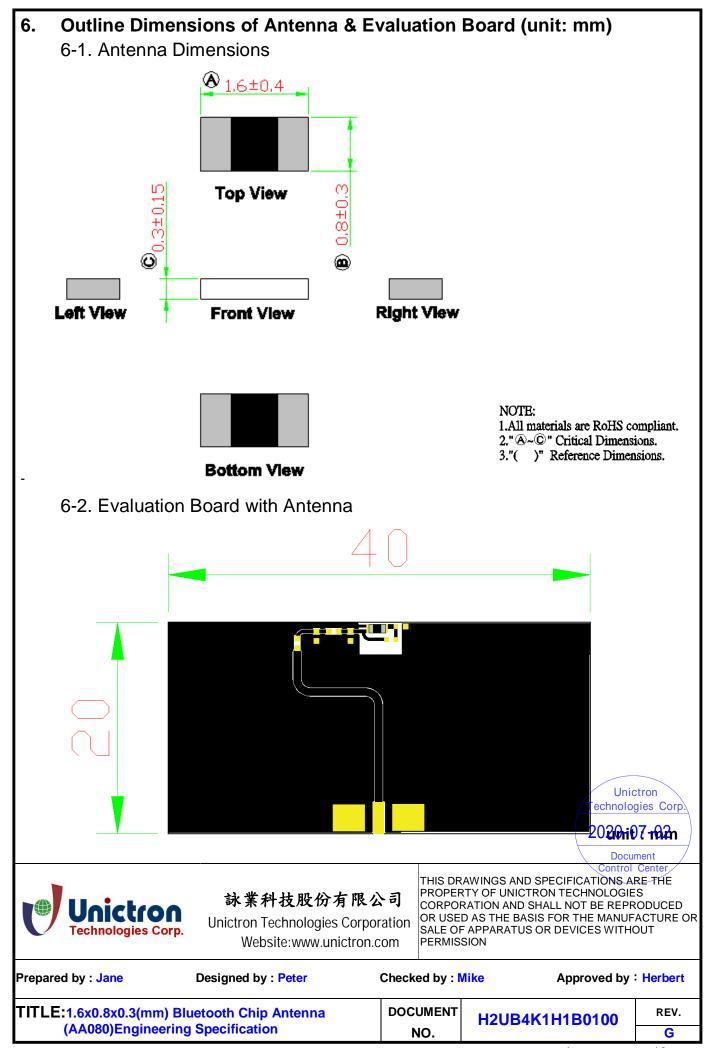
*Center frequency means the frequency with the lowest value in return loss of the chip antenna on the evaluation board.

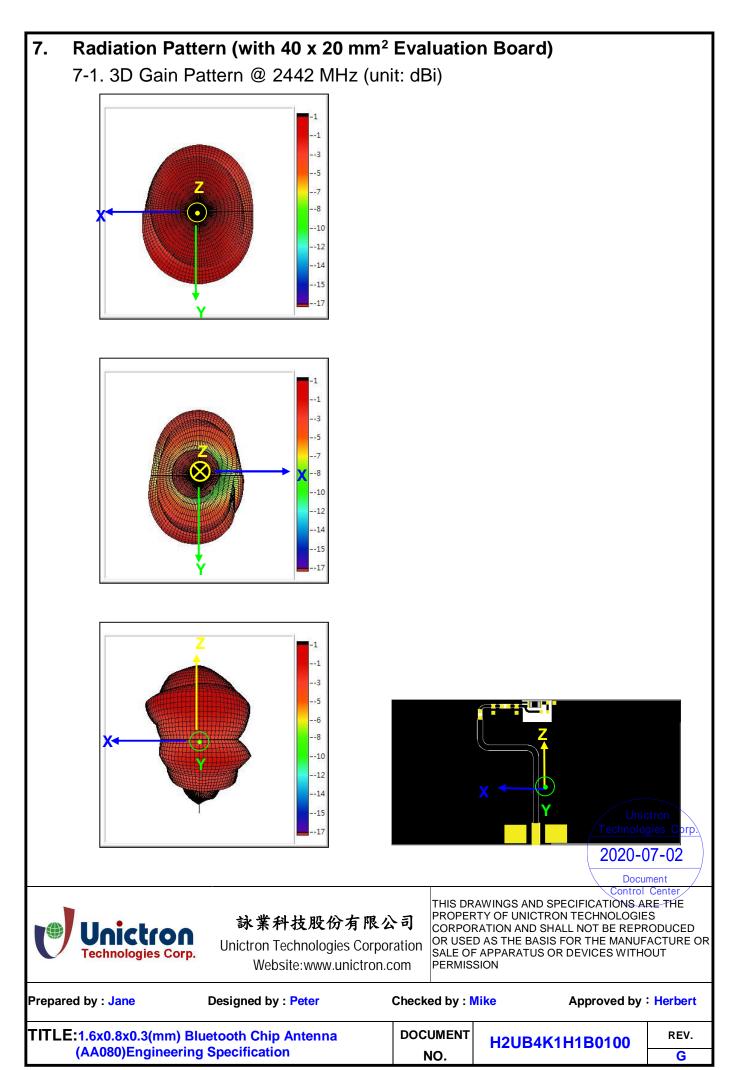
5-2-2. Return Loss & VSWR Return Loss (S₁₁)



10

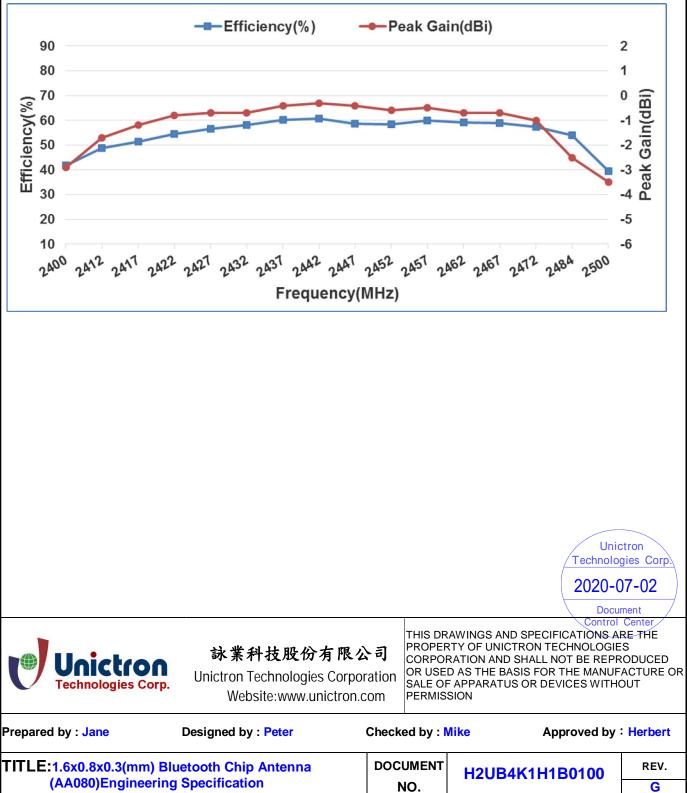
VSWR (S₁₁)

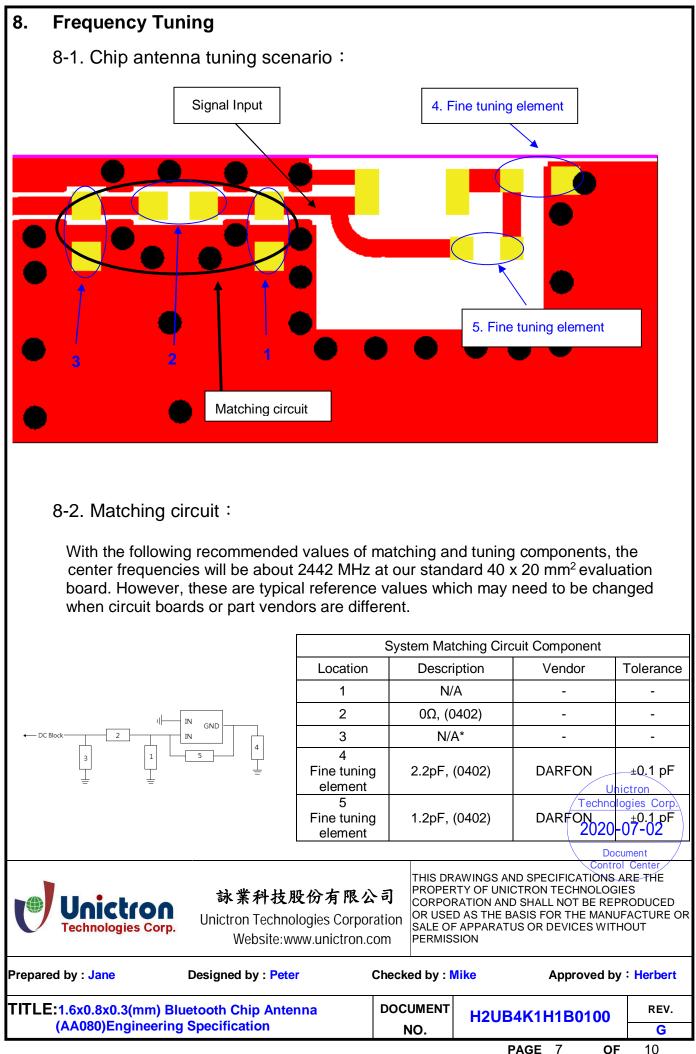


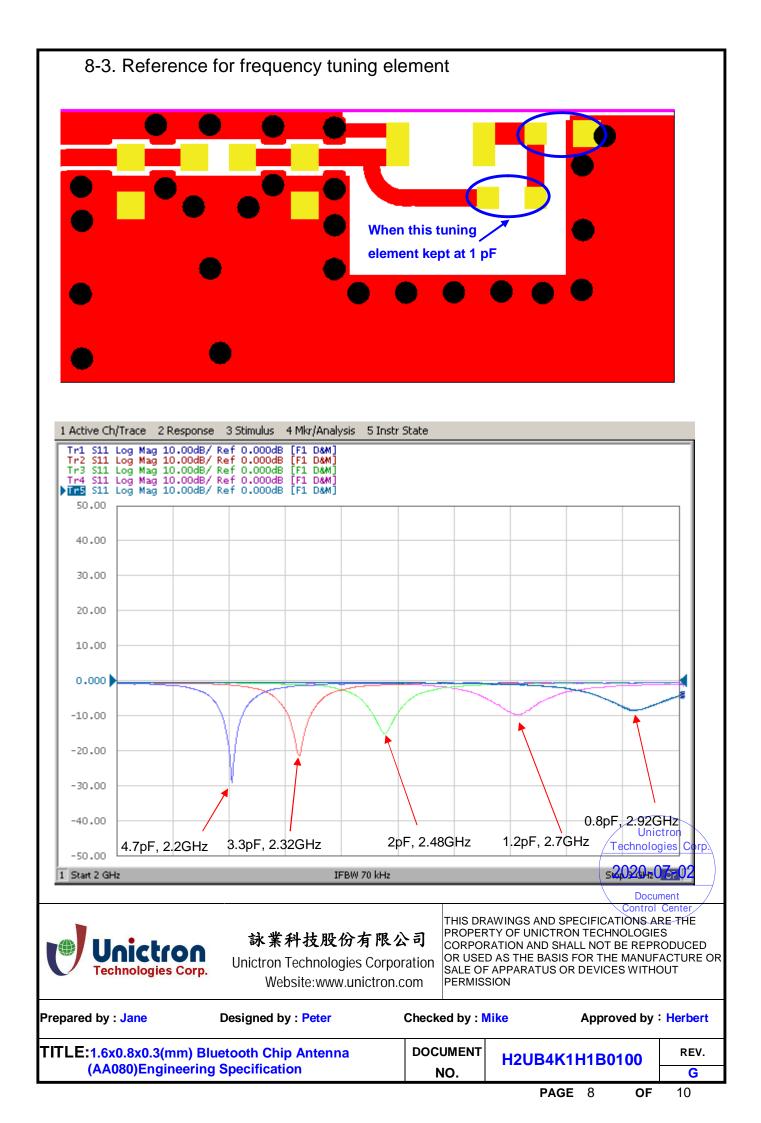


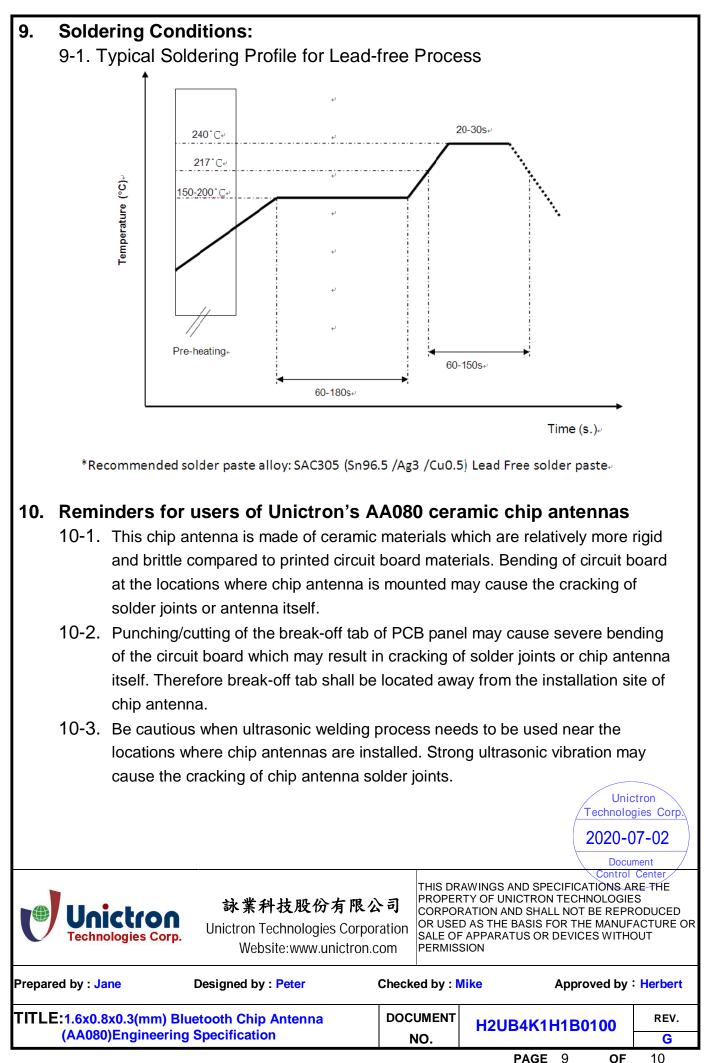
7-2. 3D Efficiency Table																
Frequency(MHz)	2400	2412	2417	2422	2427	2432	2437	2442	2447	2452	2457	2462	2467	2472	2484	2500
Efficiency(dB)	-3.8	-3.1	-2.9	-2.6	-2.5	-2.4	-2.2	-2.2	-2.3	-2.3	-2.2	-2.3	-2.3	-2.4	-2.7	-4.0
Efficiency(%)	41.8	48.9	51.4	54.6	56.5	58.1	60.1	60.7	58.6	58.3	60.0	59.2	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





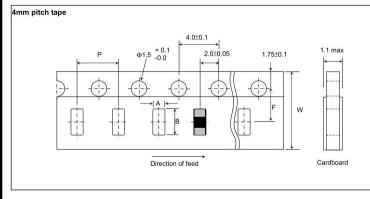




11. Packing:

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

a. Tape Drawing



b. Tape Dimensions (unit: mm)

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

1. Material: Cardboard

12. Operating & Storage Conditions

- 12-1. Operating
 - (1) Maximum Input Power: 2 W
 - (2) Operating Temperature: -40 $^\circ\!\mathrm{C}$ to 85 $^\circ\!\mathrm{C}$

12-2. Storage

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

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.

