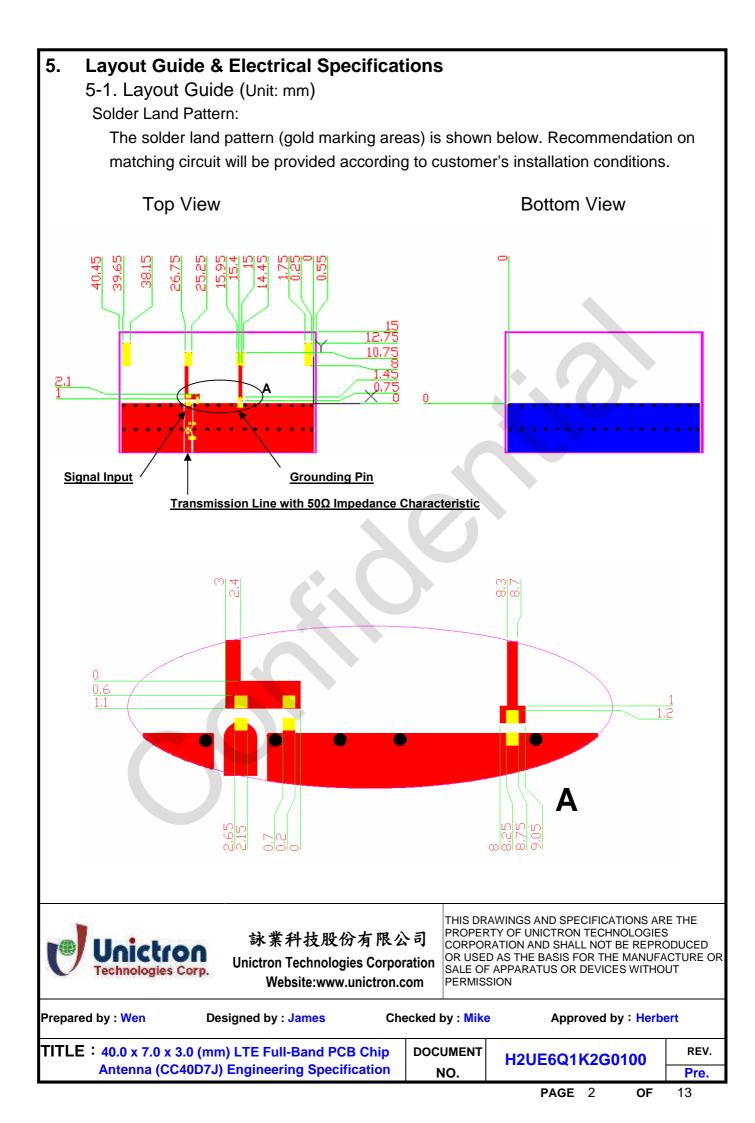


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5-2. Electrical Specifications (with 135 x 41 mm² Evaluation Board) 5-2-1. Electrical Table

5-2-1. Electrical Table										
Characteristics	Specifications									
Outline Dimension (mm)	40.0 x 7.0 x 3.0									
Ground Plane Dimension (mm)	119.4 x 41									
Working Frequency (MHz)	698 ~ 798	824 ~ 960	1710 ~ 2170	2300 ~ 2400	2490 ~ 2690					
Peak Gain (dBi) (typical)**	2.3	2.1	6.4	6.8	5.8					
Efficiency (%) (typical)**	75	67	76	77	74					
VSWR (@ center frequency)*	<3.5 : 1									
Characteristic Impedance (Ω)	50									
Polarization	Linear Polarization									

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

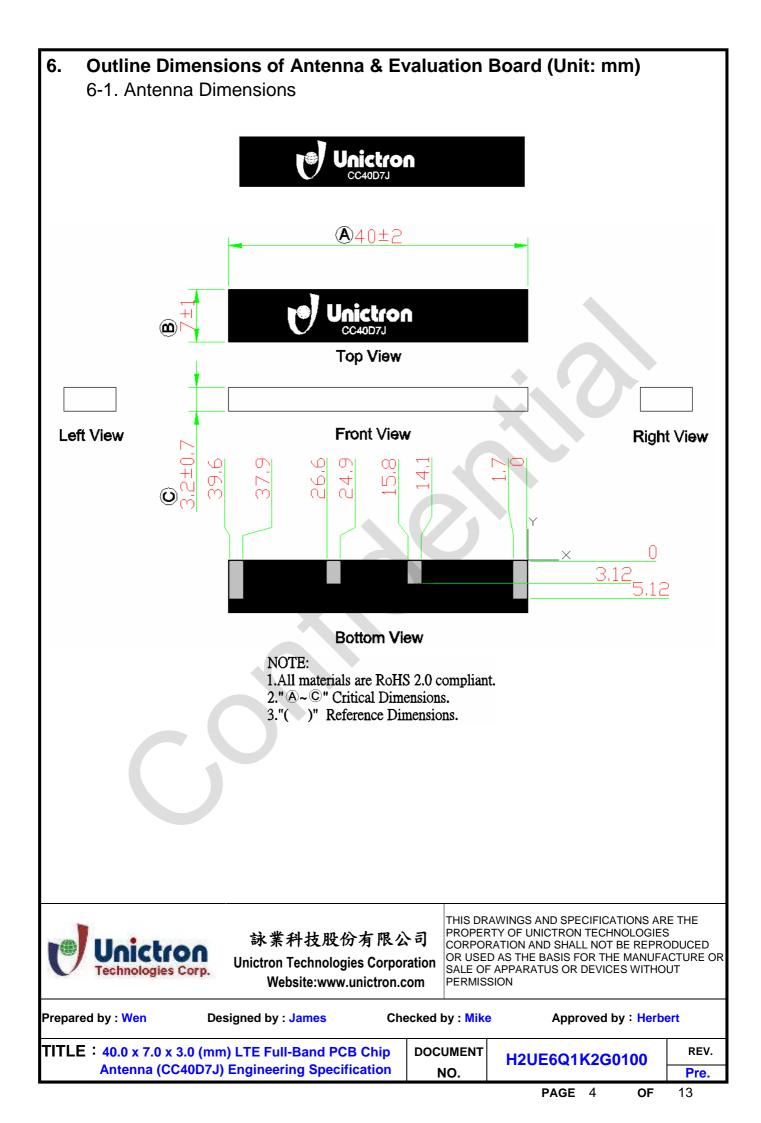
**A typical value is for reference only, not guaranteed.

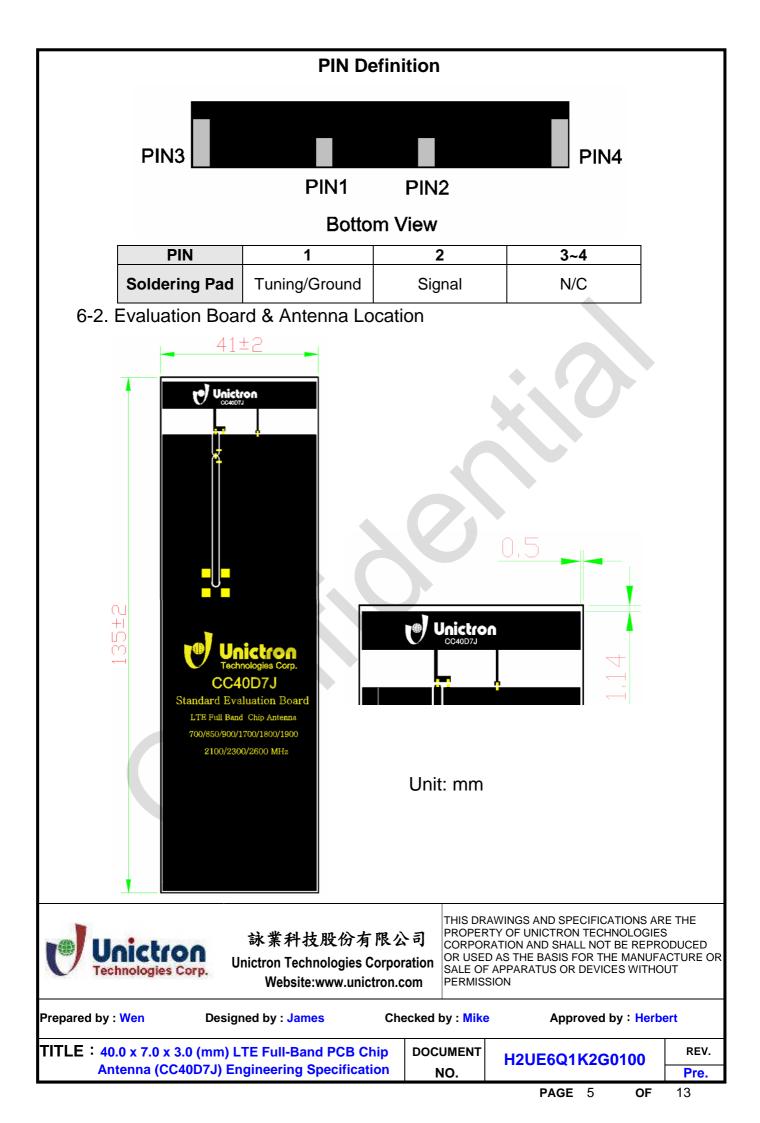


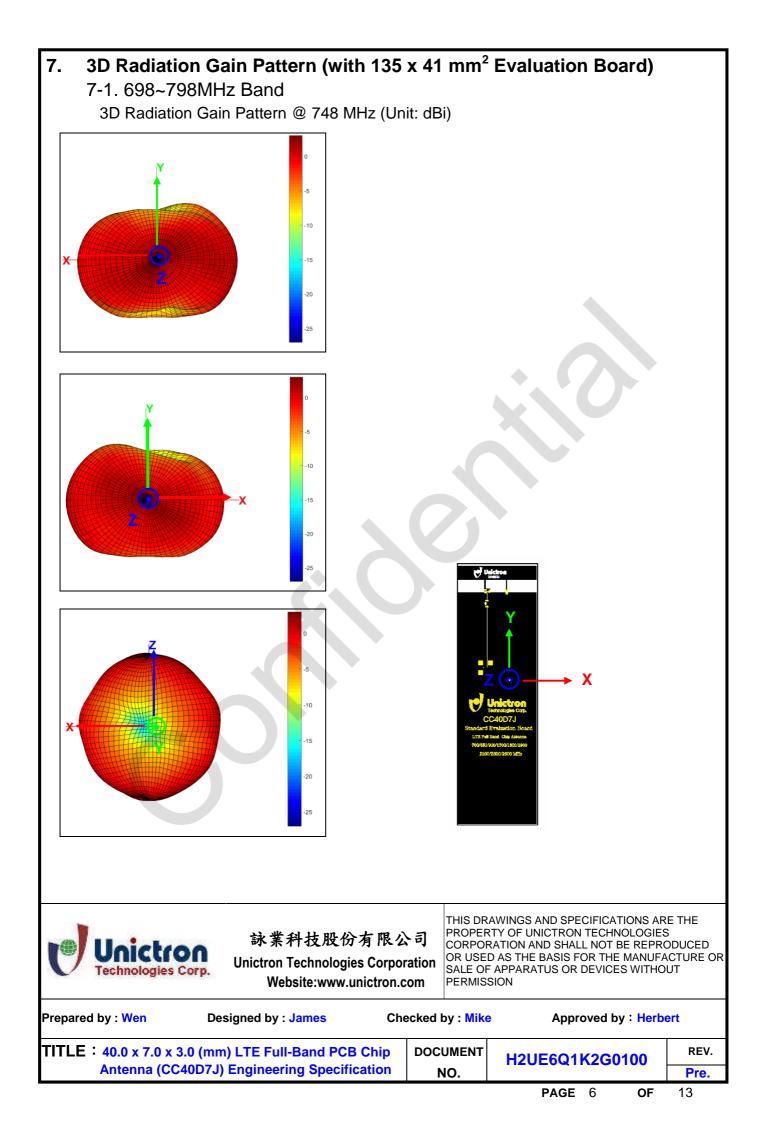
5-2-2. Frequency vs. V.S.W.R. and Total Radiation Gain

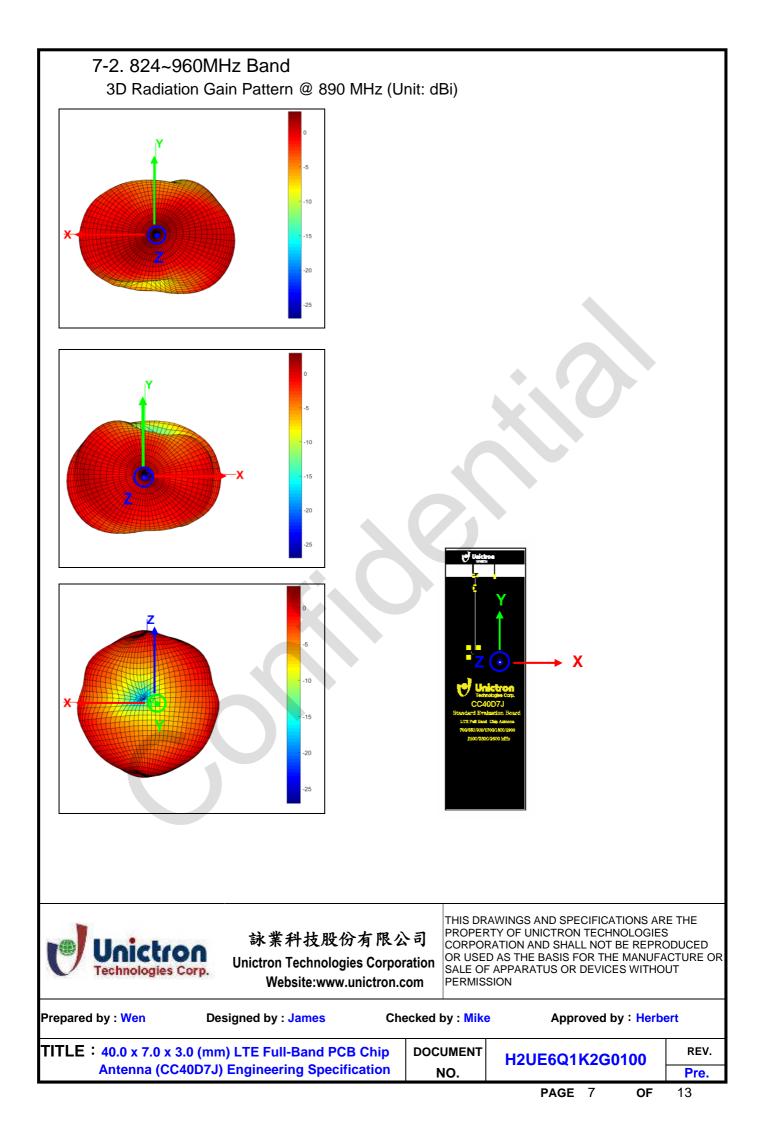
- 13

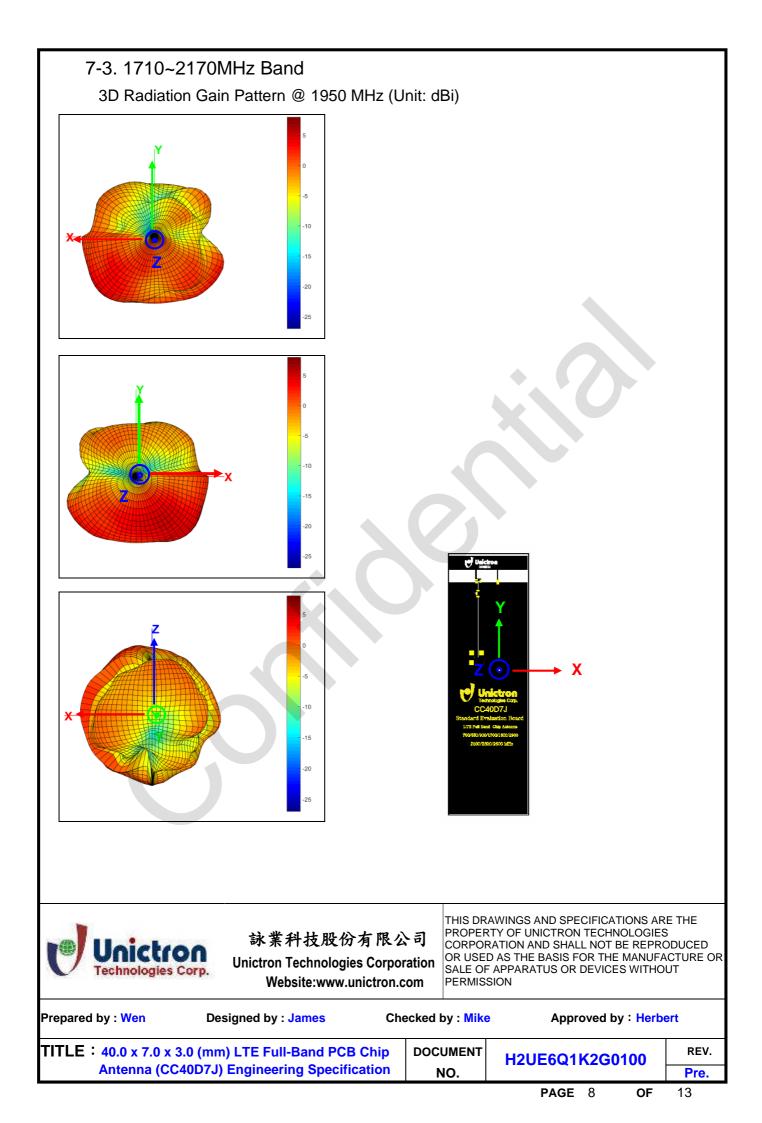
PAGE 3 OF

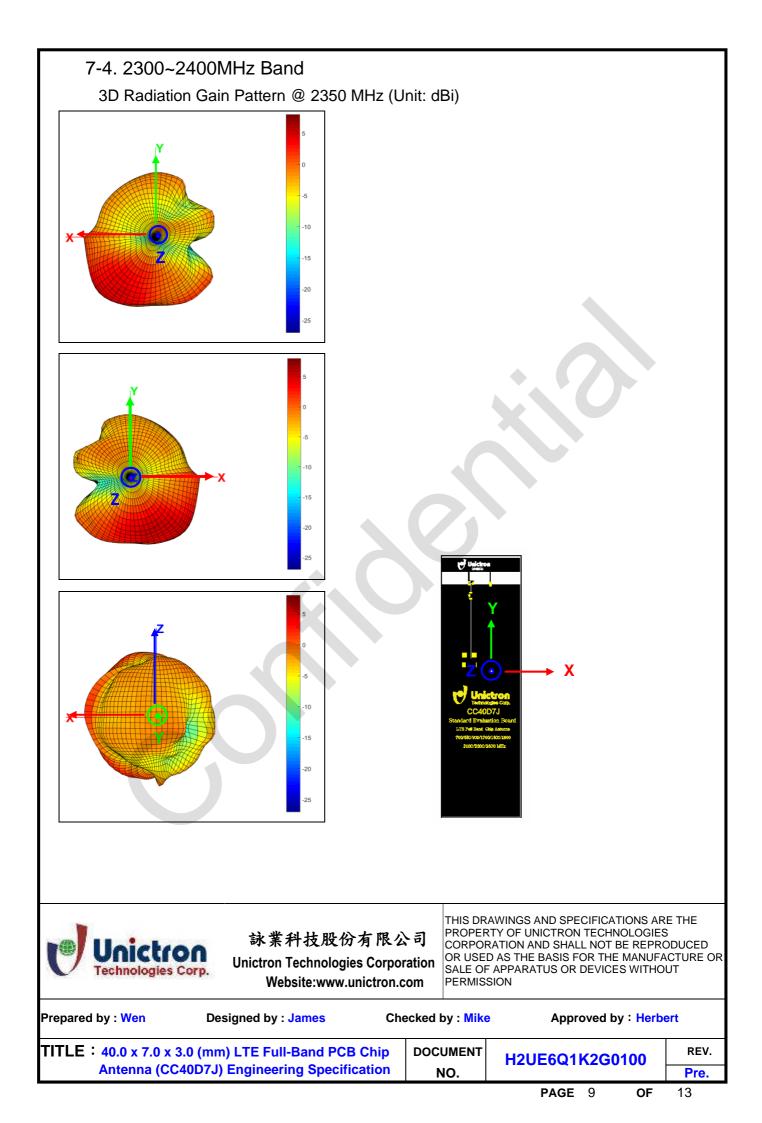


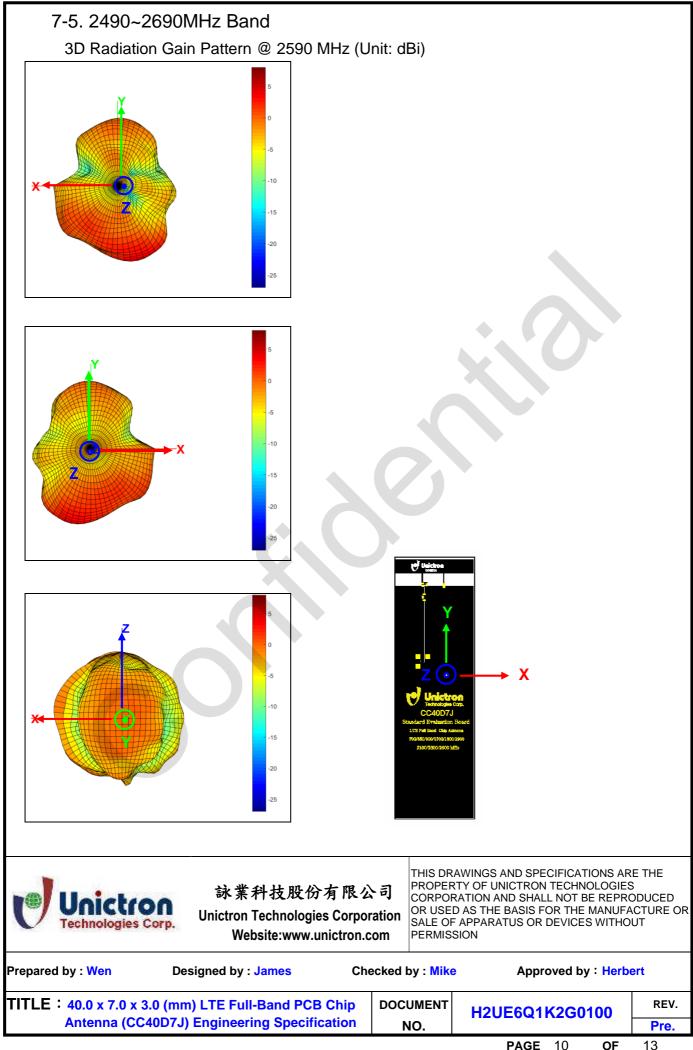




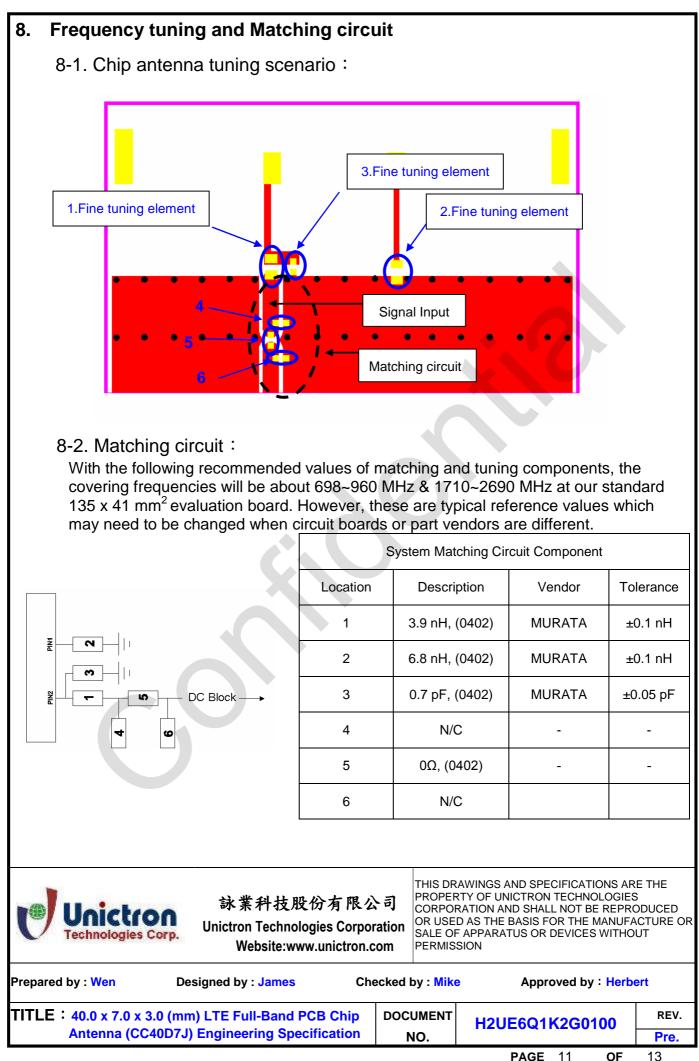


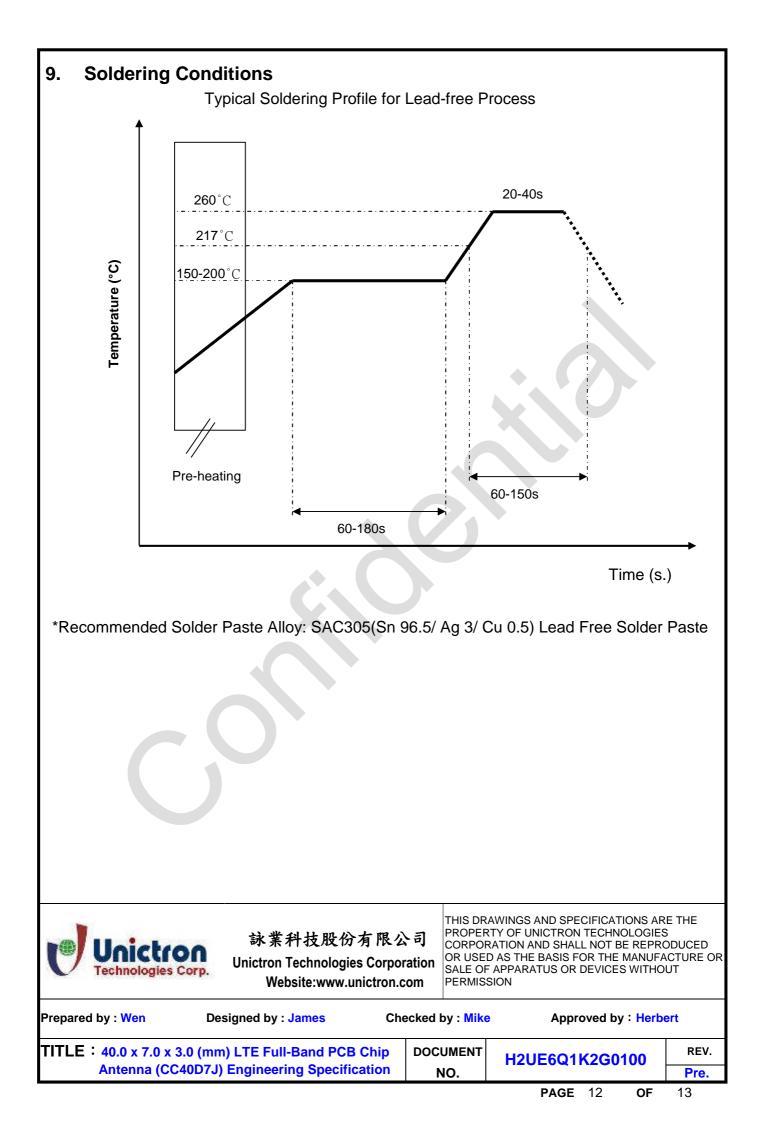






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10. Operating & Storage Conditions

- 10.1. Operating
 - (1) Operating Temperature: -30 $^\circ\!\mathrm{C}$ to 85 $^\circ\!\mathrm{C}$
 - (2) Relative Humidity: 10% to 70%
- 10.2. Storage (sealed)
 - (1) Storage Temperature: -5°C to 40°C
 - (2) Relative Humidity: 20% to 70%
 - (3) Shelf Life: 1 year

10.3. Storage (unsealed) Meet the criteria of <u>J-STD-033 MSL2a</u>

10.4. Storage (After mounted on customer's PCB with SMT process)

- (1) Storage Temperature: -30 $^\circ\!\mathrm{C}$ to 85 $^\circ\!\mathrm{C}$
- (2) Relative Humidity: 10% to 70%

11. 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 Che		ecked by : Mike	Approved by : Herbert				
TITLE : 40.0 x 7.0 x 3.0 (mm) LTE Full-Band PCB Chip Antenna (CC40D7J) Engineering Specification			DOCUMENT	H2UE6Q1K2G0100		REV.	
		ation	NO.				Pre.
				PAGE	13	OF	13