

2. **Features**

*Stable and reliable in performances

*Low temperature coefficient of frequency

*RoHS compliance

3. Applications

*Navigation systems or position tracking systems

4. Description

Unictron's patch antenna series are ceramic antennas specially designed for all of GPS ... GLONASS and BDS applications. This ceramic dual pin patch antenna has excellent stability and sensitivity through the use of high performance proprietary ceramic materials and processes.

Electrical Specifications (@ 70 x 70 mm² ground plane) 5.

5-1. GPS Band

Characteristics		Specification	Unit
Outline Dimension	Outline Dimensions		mm
Ground Plane		70 × 70	mm
Working Frequency		1575.42	MHz
VSWR		2 Max. (typical)	
Axial Ratio		2 Max. (typical)	dB
Impedance		50	Ω
Polarization		RHCP	
Coin	@Zenith	4.2 (typical)	dBic
Gain	@10°Elevation	-2.3 (typical)	UDIC
Temperature Coefficient of Frequency		0±20 Max. (@-40℃~85℃)	ppm/°C
Electrode Plating Adhesion		>4	kg



詠業科技股份有限公司

Unictron Technologies Corporation Website:www.unictron.com

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Unictron Technologies Corp.

2017-12-06

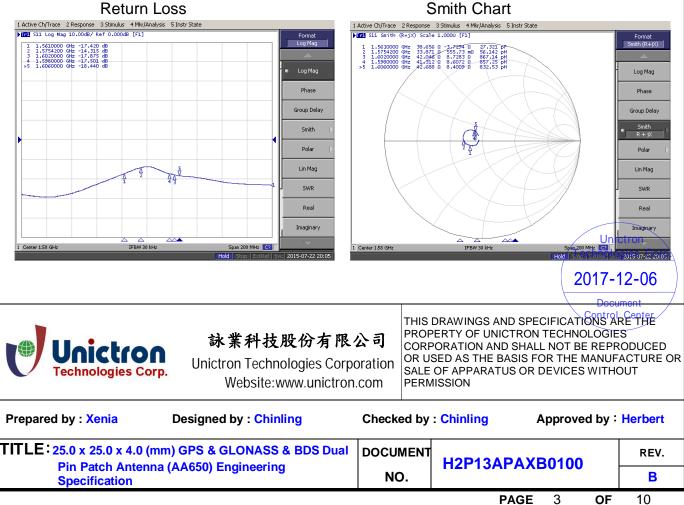
Prepared by : Xenia	Designed by : Chinling	Checked by	: Chinling	Appro	ved by :	Herbert
TITLE: 25.0 x 25.0 x 4.0 (mm) GPS & GLONASS & BDS Dual		DOCUMENT	H2P13APAXB0100		REV.	
Specification					В	
			PAGE	2	OF	10

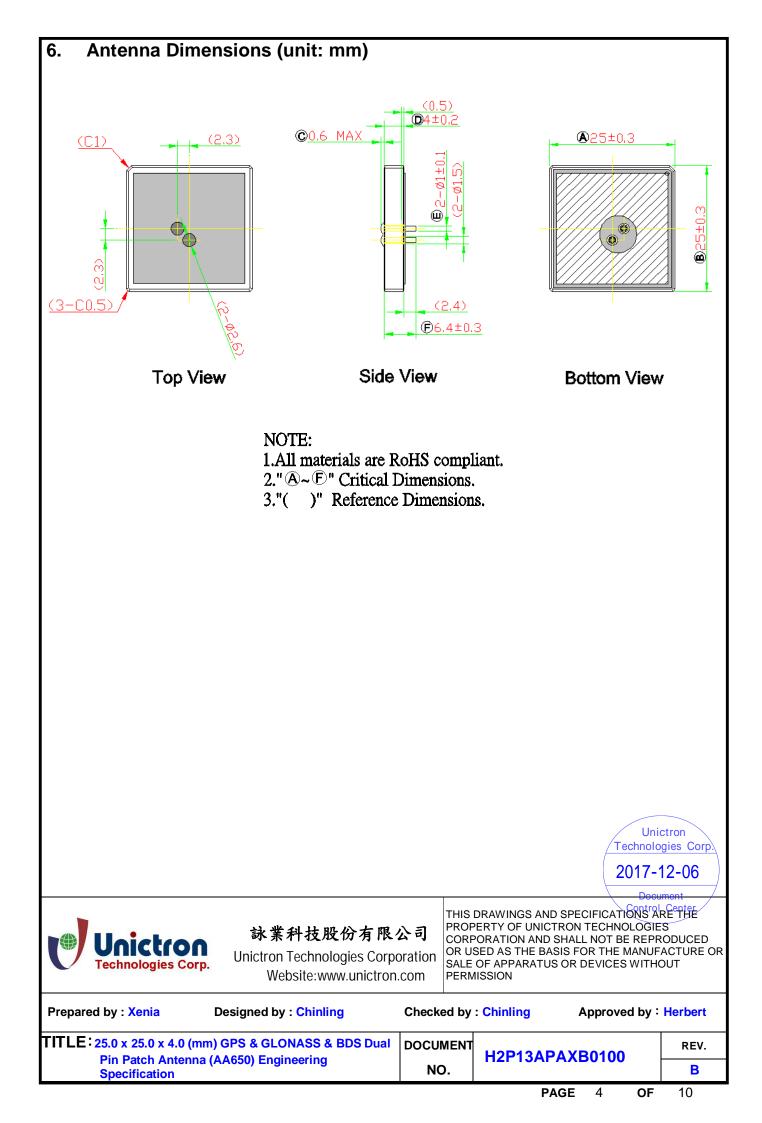
5-2. GLONASS E	Band			
Characteristics		Specification	Unit	
Working Frequency		1598~1606	MHz	
VSWR		2 Max. (typical)		
Axial Ratio		2 Max. (typical)	dB	
Impedance		50	Ω	
Polarization		RHCP		
Gain @ 1602 MHz	@Zenith	1.6 (typical)	dBic	
	@10°Elevation	-5.0 (typical)		

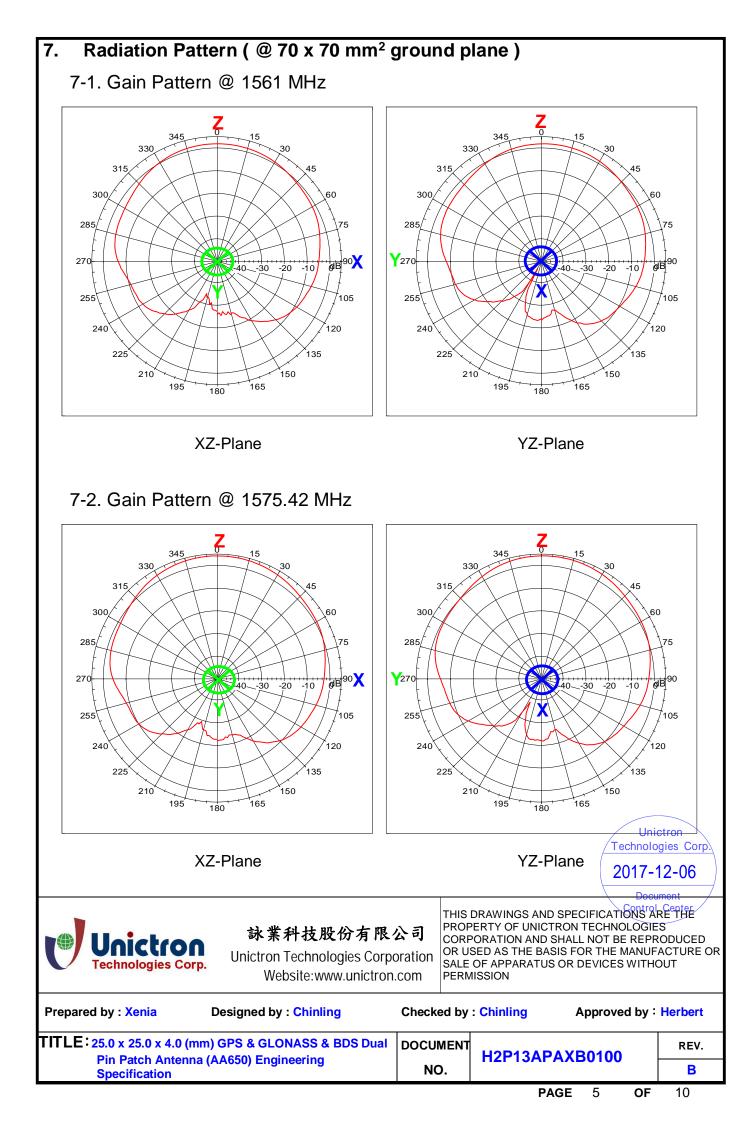
5-3. BDS Band

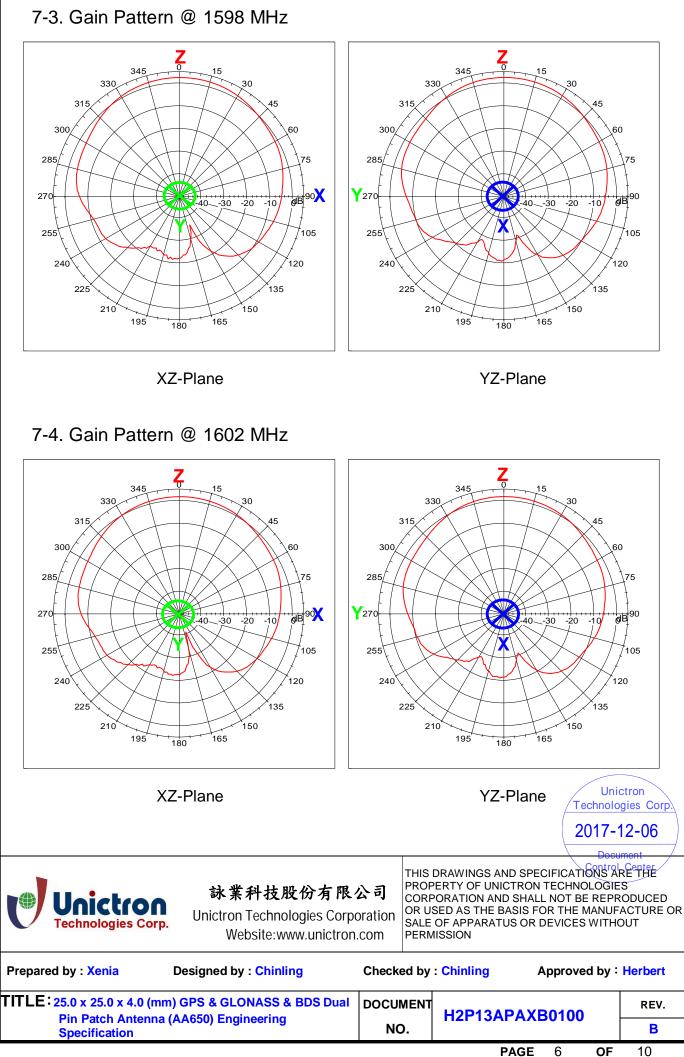
Characteristics		Specification	Unit	
Working Frequency		1561	MHz	
VSWR		2 Max. (typical)		
Axial Ratio		2 Max. (typical)	dB	
Impedance		50	Ω	
Polarization		RHCP		
Gain	@Zenith	1.9 (typical)	dDia	
	@10°Elevation	-4.4 (typical)	dBic	

5-4. Return Loss & Smith Chart

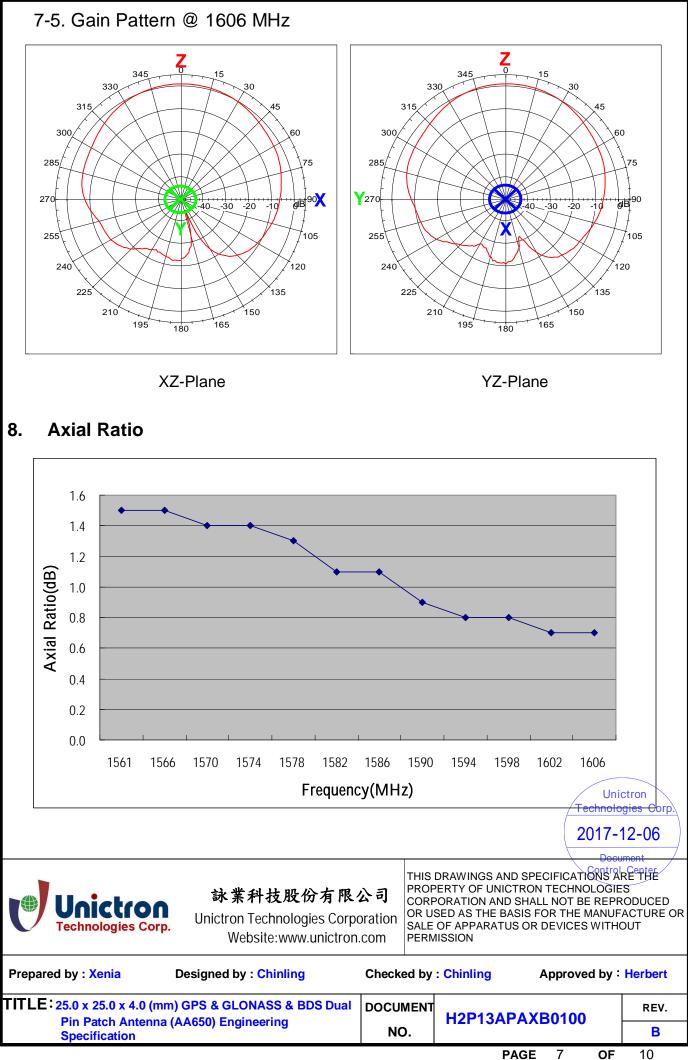


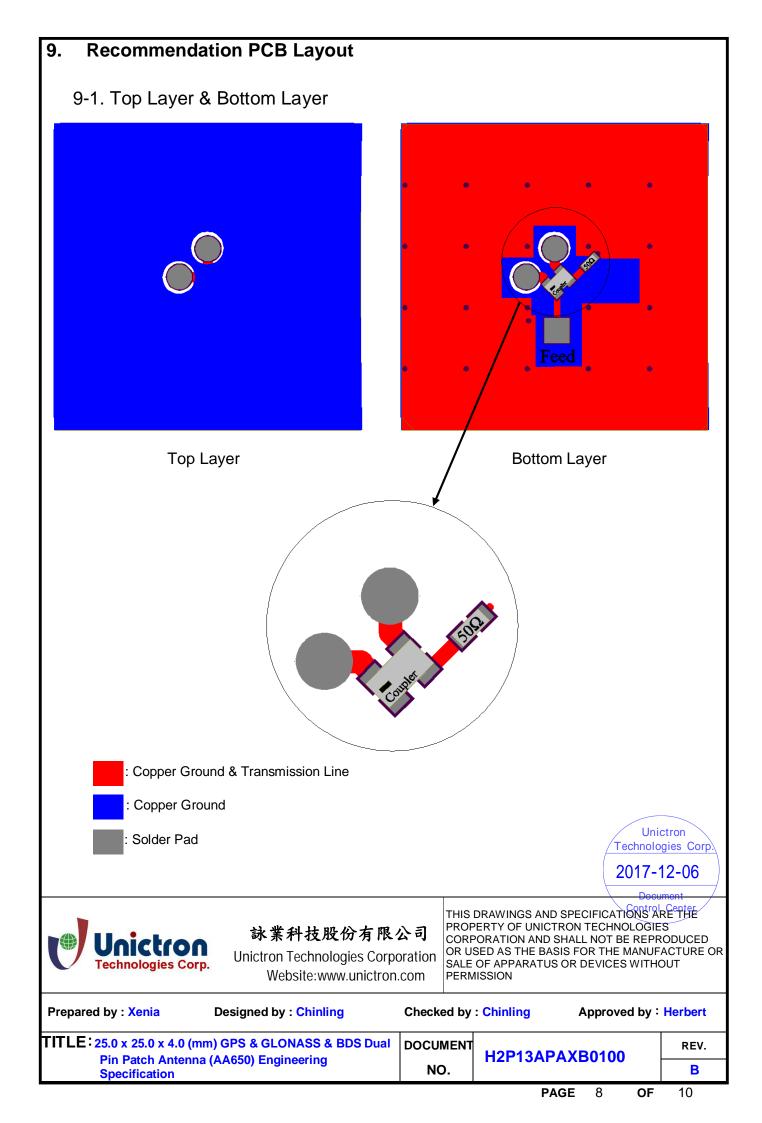


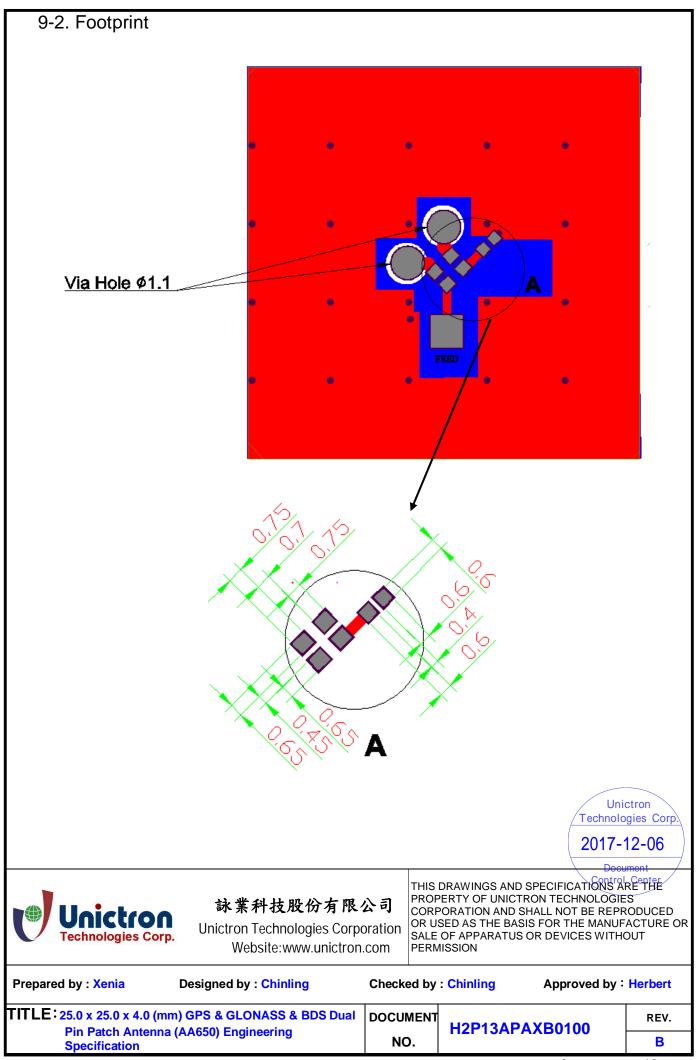




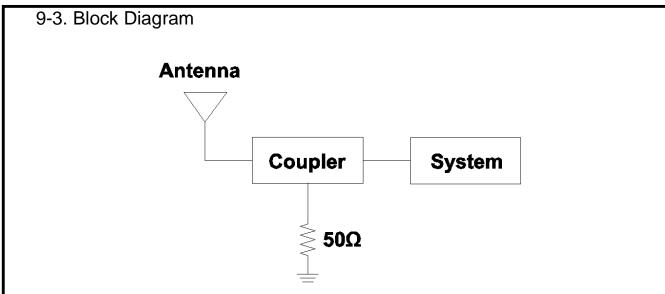
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10. Coupler Specification

Coupling (dB)	Amplitude Balance (dB)	Phase Deviation (degree)	Isolation (dB)		
3	1.0 Max.	90.0 ± 3.0	16.0 min.		

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Prepared by : Xenia	Designed by : Chinling	Checke	ed by	: Chinling	Approved b	oy∶ <mark>He</mark> r	bert
TITLE: 25.0 x 25.0 x 4.0 (mm Pin Patch Antenna (Specification) GPS & GLONASS & BDS Dual AA650) Engineering			H2P13AP	AXB0100	1	REV. B
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