

5

2. Features

- *Stable and reliable in performances
- *Low temperature coefficient of frequency
- *Compact size
- *RoHS compliance

3. Applications

- *Navigation systems or position tracking systems
- *Hand-held devices when GPS function is needed, e.g., PDA, Smart phone, PND.

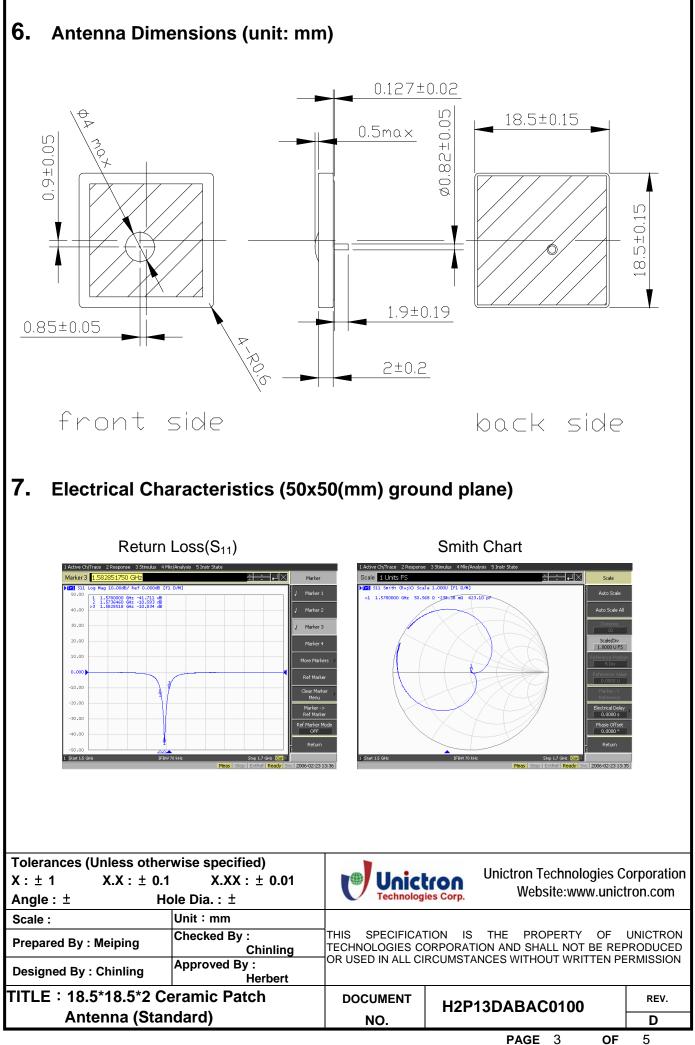
4. Description

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

5. Electrical Specifications (50x50(mm) ground plane)

-	•				
Characteristics		Specifications		Unit	
Outline Dimensions		18.5×18.5×2		mm	۱
Ground Plane		!	50×50		١
Center Frequency*		1	1578 <u>+</u> 2		Z
Bandwidth (under -10dB return loss)		7min.		MH	Z
VSWR		1.5 max.			
Impedance			50		
Polarization			RHCP		
Gain	@Zenith	+1.	0(typical)	dBic	
	@10°Elevation	-5.5	5 (typical)		
Axial Ratio		3	(typical)	dB	
Temperature Coefficient of Frequency			0±20 max (@ -20℃~80℃)		°C
*Center frequency will be offset to working frequency according to the conditions of user's ground plane and radome. Tolerances (Unless otherwise specified)					
X : ± 1 X.X : ± 0.1 X.XX : ± 0.01 Angle : ± Hole Dia. : ±		Unictron Technologies Corporation Website:www.unictron.com			
Scale : Unit : mm		THIS SPECIFICATION IS THE PROPERTY OF UNICTRON TECHNOLOGIES CORPORATION AND SHALL NOT BE REPRODUCED OR USED IN ALL CIRCUMSTANCES WITHOUT WRITTEN PERMISSION			
Prepared By : Meiping Chinling Chinling					
Herbert					
TITLE : 18.5*18.5*2 Ceramic Patch		DOCUMENT	H2P13DABAC0100		REV.
Antenna (Standard)		NO.			D

5



PAGE 3 OF

