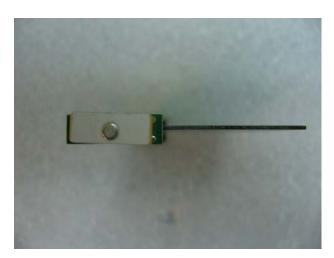
16x06x04 Ceramic Patch Antenna (CP-Standard)

1. Explanation of Product Number

H 2 P 1 3 T B D A S 0 1 0 0 (1) (2) (3) (4) (5) (6)



Product Code:

- (1) Product Categories:
 - 3: ceramic patch antenna
- (2) Dimensions and Polarization:

TB: 16x06x04(mm)//right hand circular polarization

- (3) Material:
 - D: MA-HM
- (4) Working Frequency:
 - A: 1575.42MHz
- (5) Ground Plane Dimensions:
 - S: 20x06(mm)
- (6) Antenna Series:
 - 01 : serial number

Tolerances (Unless other X: \pm 1 X.X: \pm 0.1 Angle: \pm	•	Unictr	Unictron Technologies Co Website: www.unictro	•
Scale :	Unit: mm			
Prepared By : Meiping	Checked By : Chinling		ORPORATION AND SHALL NOT BE REF	
Designed By : Mike	Approved By : Herbert	OR USED IN ALL CIRCUMSTANCES WITHOUT WRITTEN PERMISSION		ERMISSION
TITLE: 16*06*04 Ceramic Patch		DOCUMENT	H2P13TBDAS0100	REV.
Antenna (CP-Standard)		NO.	112F 131BDA30100	Α

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.

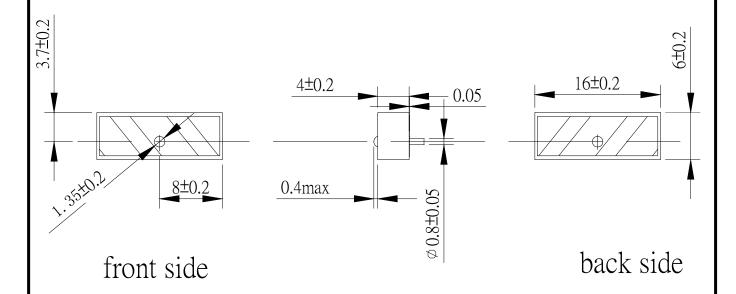
5. Electrical Specifications (20x06(mm) ground plane)

Characteristics	Specifications	Unit
Outline Dimensions	16x06x04	mm
Ground Plane	20x06	mm
Center Frequency*	1575.42 <u>+</u> 2	MHz
Bandwidth (under -10dB return loss)	6.4 min.	MHz
VSWR	2 max.	
Impedance	50	Ω
Polarization	RHCP	
Peak Gain	-4.4 (typical)	dBic
Axial Ratio	3 (typical)	dB
Temperature Coefficient of Frequency	0±20 max (@ -20°C~80°C)	ppm/°C

^{*}Center frequency will be offset to working frequency according to the conditions of user's ground plane and radome.

Tolerances (Unless oth X: \pm 1 X.X: \pm 0 Angle: \pm	• •	Unictr Technologies	Unictron Technologies Co Website: www.unictro	•
Scale :	Unit: mm			
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6. Antenna Dimensions (unit: mm)

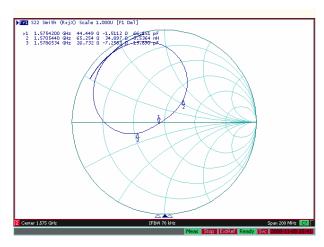


7. Electrical Characteristics (20x06 (mm) ground plane)



| Source | Sign | Sign

Smith Chart

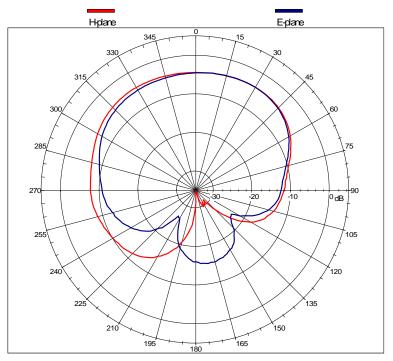


2010-10-11

Tolerances (Unless other X: ± 1 X.X: ± 0. Angle: ±	• •	Unictr	Unictron Technologies Co Website: www.unictro	•
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8. Radiation Pattern (20x06 (mm) ground plane)

Far-field amplitude of 160604 for Locosys. EVT.nsi $_{1575\mathrm{MHz}}$



Right hand circular polarized signal f₀=1575.42MHz

Tolerances (Unless oth X: \pm 1 X.X: \pm 0 Angle: \pm	• •	Unictr Technologies	Unictron Technologies Co Website: www.unictro	•
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