

**Product Name :** 18\*18\*2mm GPS/GLONASS Ceramic Patch Antenna

**Part Number :** CP-182A-H-N01

**Features:**

- Support GPS/GLONASS Dual Bands
- Low Profile with 2mm Height
- 2.5dBi Peak Gain
- RoHS & REACH Compliant

**Applications:**

- Navigation System Application
- Personal Tracker Device

# 8\*18\*2mm GPS/GLONASS Ceramic Patch Antenna

**MODEL: CP-182A-H-N01**

Rev.A

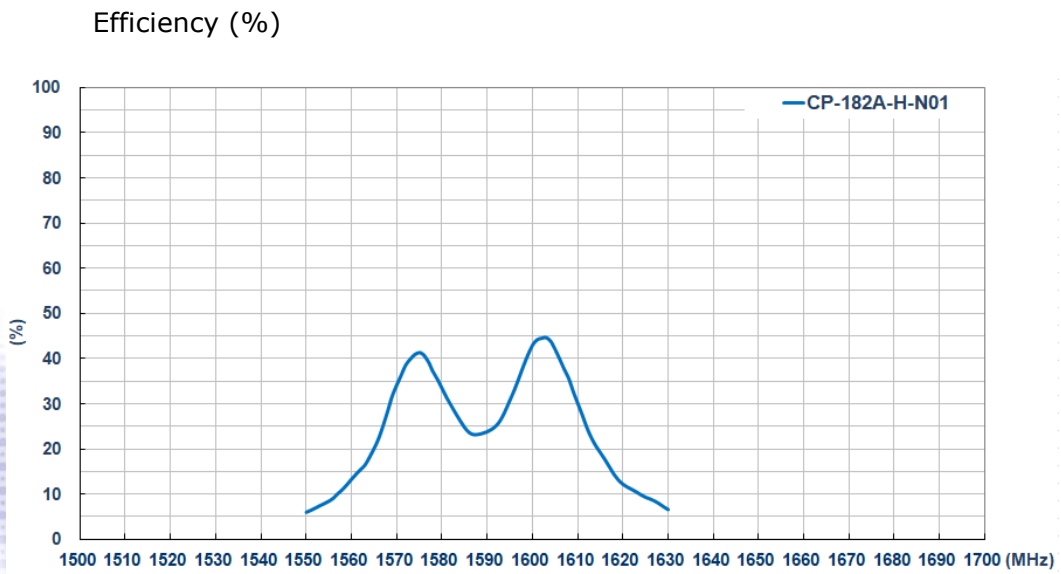
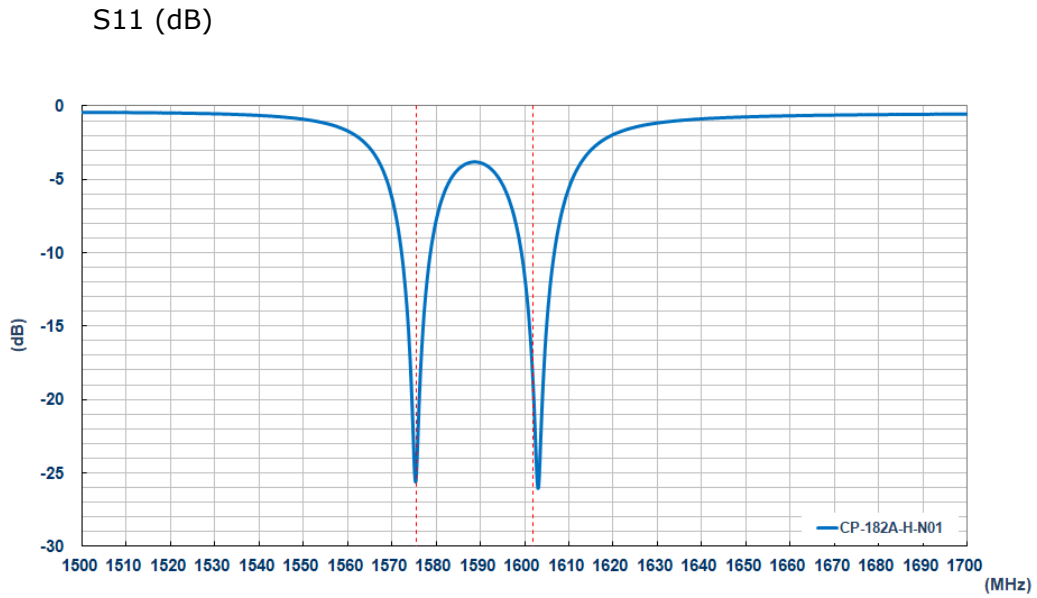
## I. Specifications:

Items	Specifications	
<b>GNSS Electrical Characteristics</b>		
<b>Application Bands</b>	L1(GPS)	GLONASS
<b>Frequencies (MHz)</b>	1575.42	1602
<b>Efficiency (%)</b>	41.11	44.36
<b>Average Gain (dBi)</b>	-3.86	-3.53
<b>Peak Gain (dBi)</b>	2.11	2.50
<b>V.S.W.R</b>	< 2	
<b>Return Loss (dB)</b>	< -10	
<b>Test Condition</b>	70.0 x 70.0 mm <sup>2</sup> (Ground Plane Dimension)	
<b>Impedance (Ω)</b>	50	
<b>Dimension (mm)</b>	18 x 18 x 2	
<b>Polarization</b>	R.H.C.P. (Right Handed Circular Polarization)	
<b>Environmental Conditions</b>		
<b>Operation Temperature (°C)</b>	-40 ~ +85	
<b>Storage Temperature (°C)</b>	-40 ~ +85	
<b>Relative Humidity</b>	95% non-condensing	

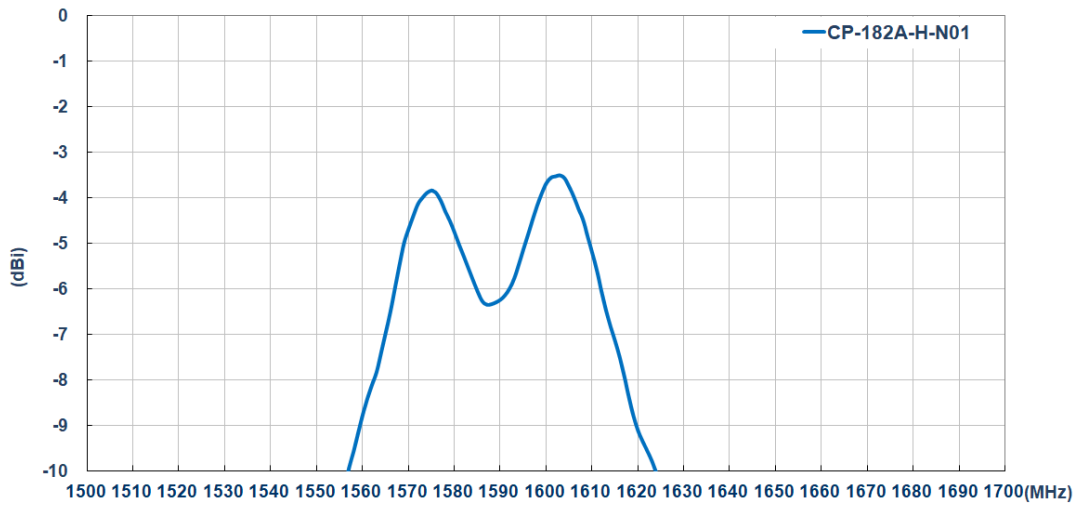
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## II. Antenna Technical Parameters:

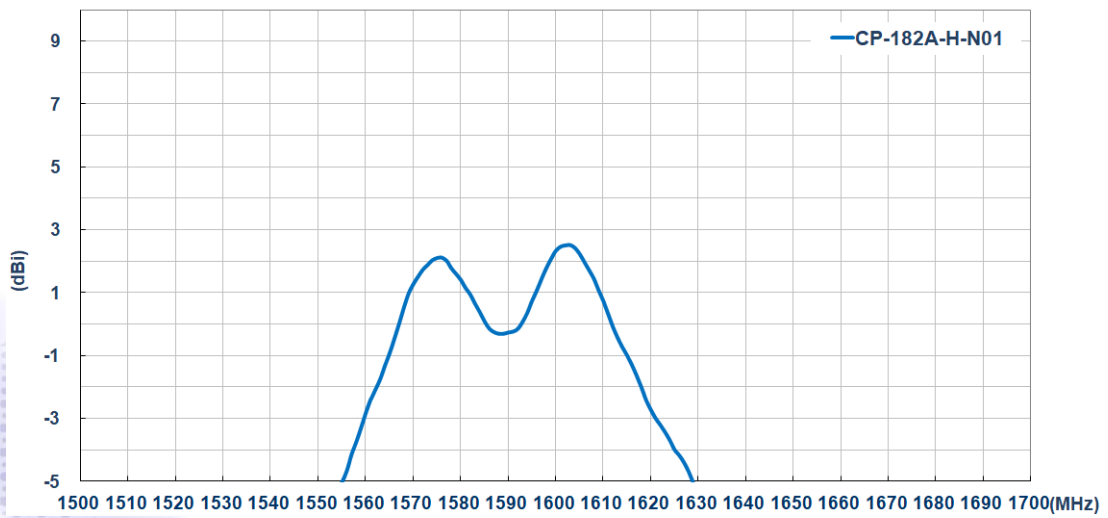
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Average Gain (dBi)

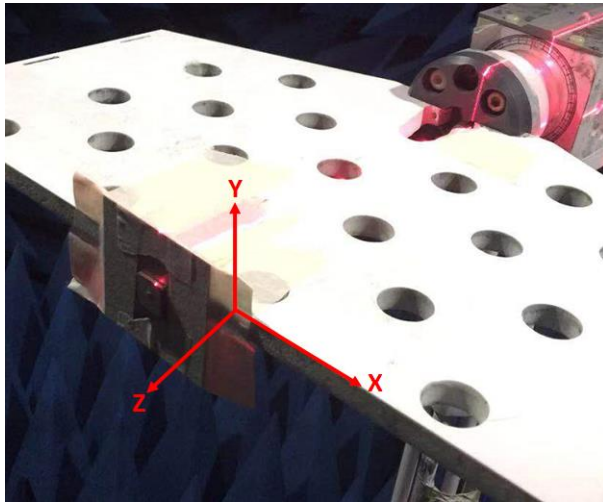


Peak Gain (dBi)



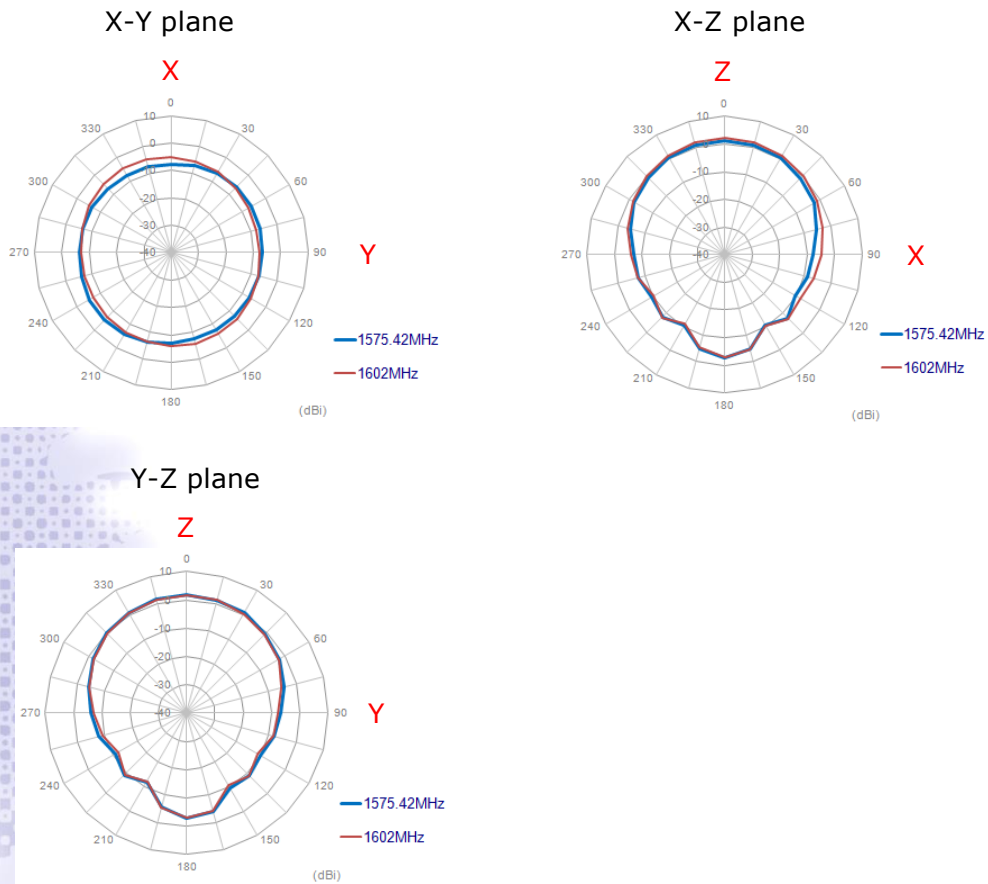
### III. Antenna Radiation Pattern Measurement:

The antenna radiation patterns are measured in 3D Anechoic Chamber. The measurement setup is as show below,

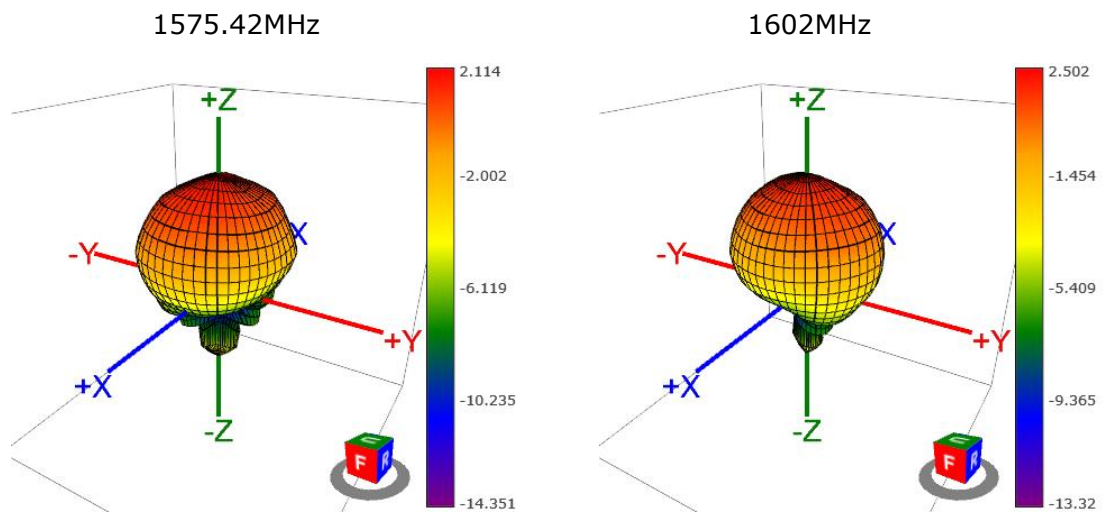


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### IV. 2D Radiation Pattern:

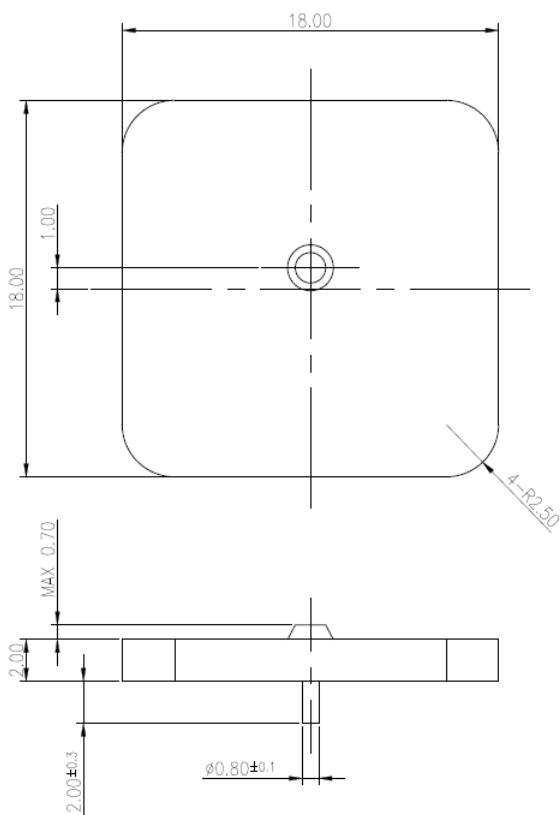


## V. 3D Radiation Pattern:



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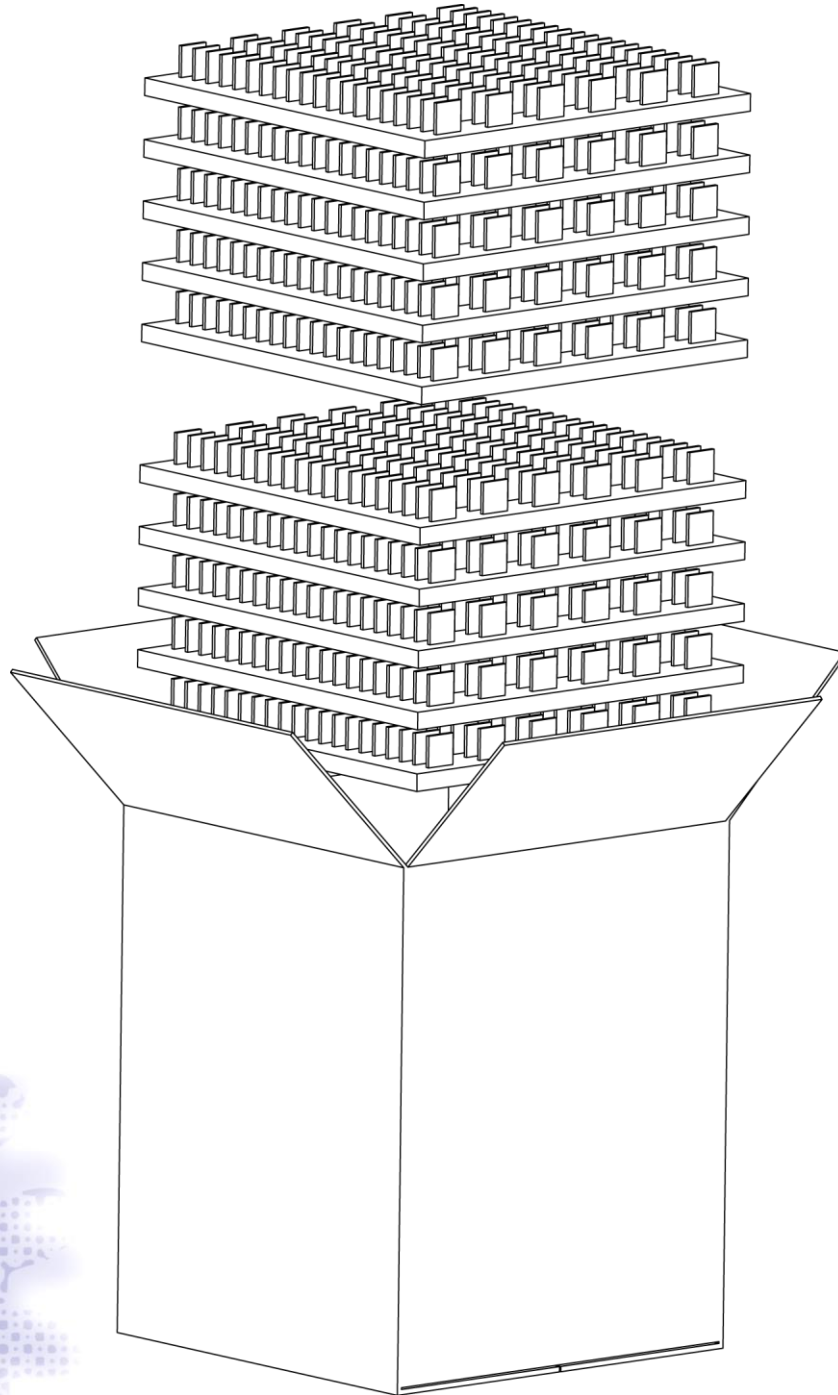
## VI. Mechanical Drawing (Unit:mm):



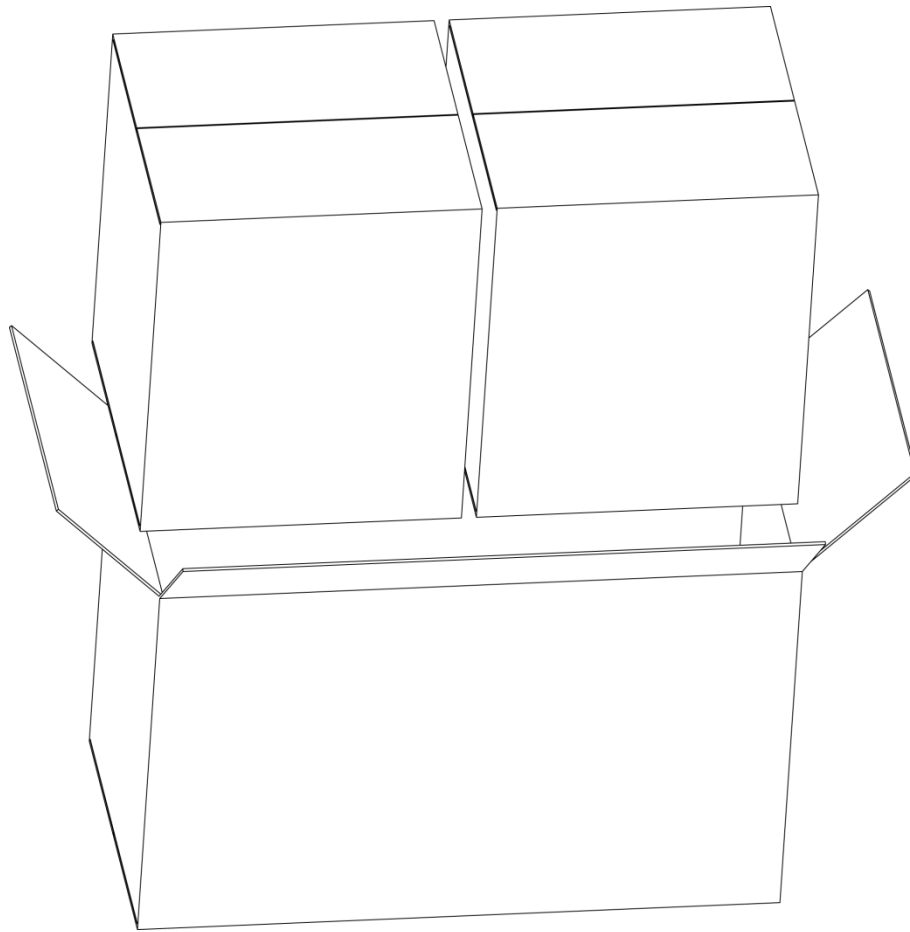
Notes:  
1. Tolerance:  $\pm 0.2\text{mm}$



## VII. Antenna Package :



Tray (20\*6 = 120 pcs )  
5 trays are wrapped by PE films.



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1,200pcs are put into a box and 2 boxes into one carton.  
The carton dimension: 240 x480 x300 mm