



Product Name: 15*15*4mm GPS/GLONASS Ceramic Patch Antenna

Part Number: CP-154A-H-N01

Features:

- Support GPS / GLONASS Dual Bands
- Tiny Dimension with 4mm Height
- 4dBi Peak Gain

Applications:

- Navigation Device Application
- Personal Tracker

15*15*4mm GPS/GLONASS Ceramic Patch Antenna

MODEL: CP-154A-H-N01

Rev.A

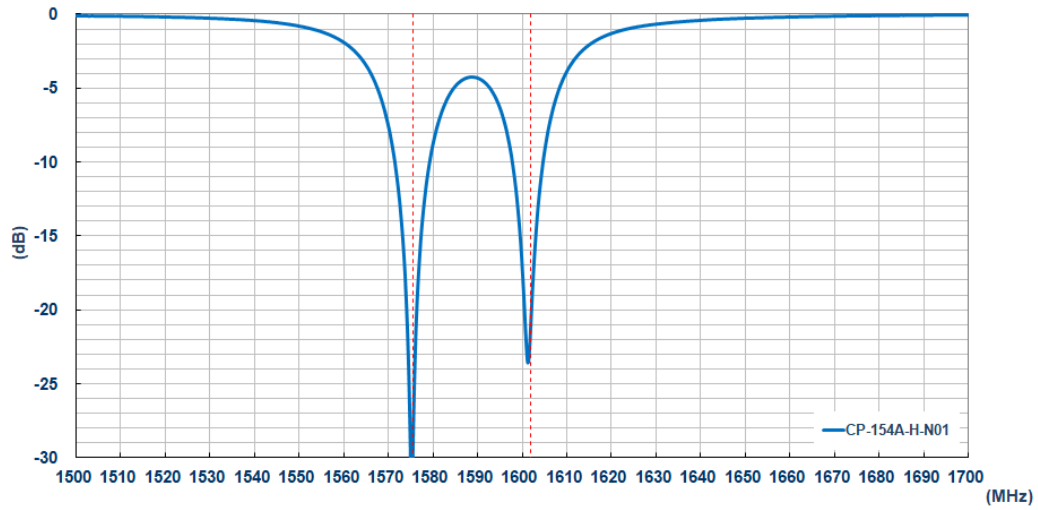
I. Specifications:

Items	Specifications	
GNSS Electrical Characteristics		
Application Bands	L1 (GPS)	GLONASS
Frequencies (MHz)	1575.42	1602
Efficiency (%)	64.42	66.53
Average Gain (dBi)	-1.91	-1.77
Peak Gain (dBi)	3.95	4.25
Polarization	R.H.C.P. (Right Handed Circular Polarization)	
V.S.W.R	< 2	
Return Loss (dB)	< -10	
Test Condition	70.0 x 70.0 mm ² (Ground Plane Dimension)	
Impedance (Ω)	50	
Dimensions (mm)	15 x 15 x 4	
Environmental Conditions		
Operation Temperature (°C)	-40 ~ +85	
Storage Temperature (°C)	-40 ~ +85	
Relative Humidity	95% non-condensing	

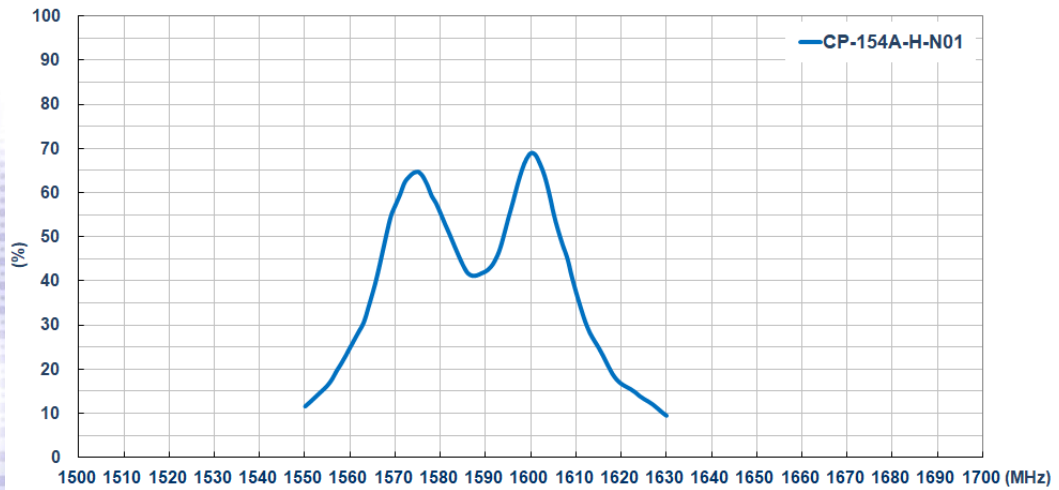
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II. Antenna Technical Parameters:

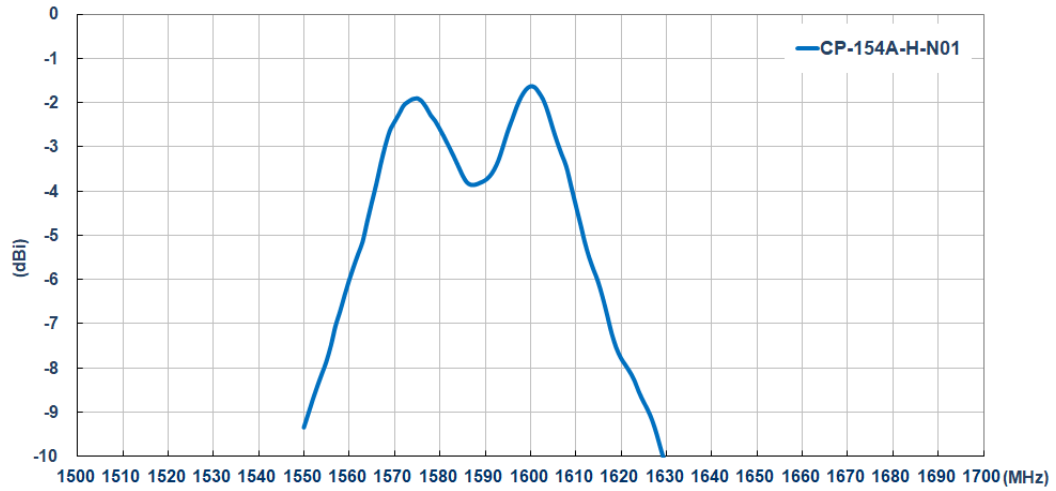
S11 (dB)



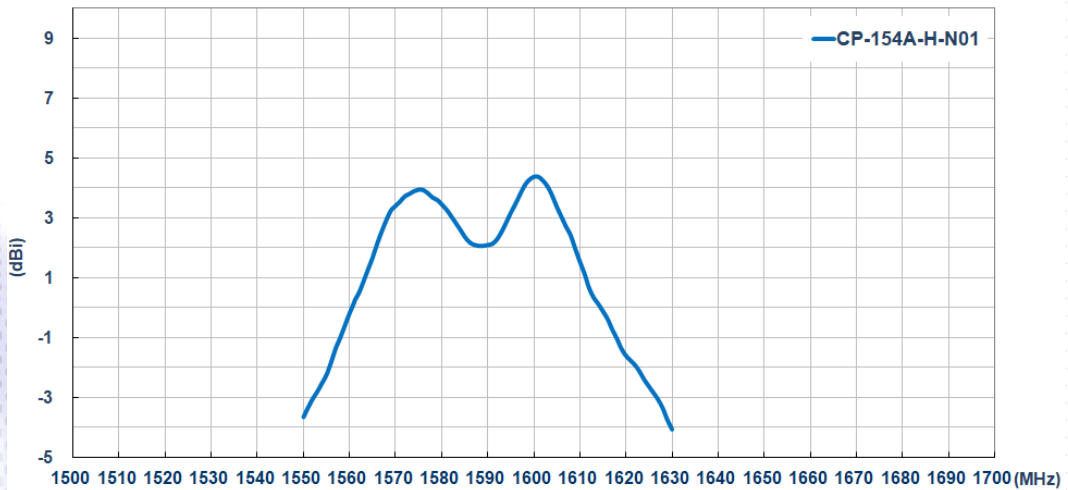
Efficiency (%)



Average Gain (dBi)

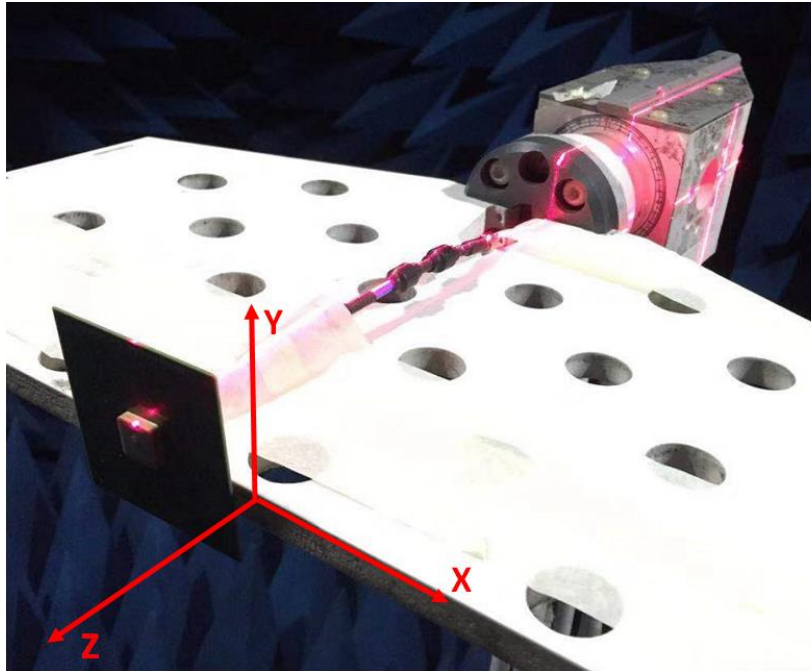


Peak Gain (dBi)



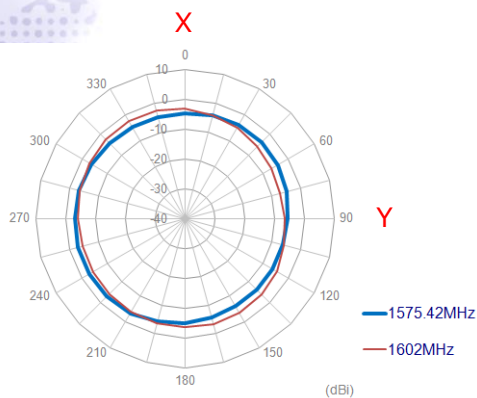
III. Antenna Radiation Pattern Measurement:

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

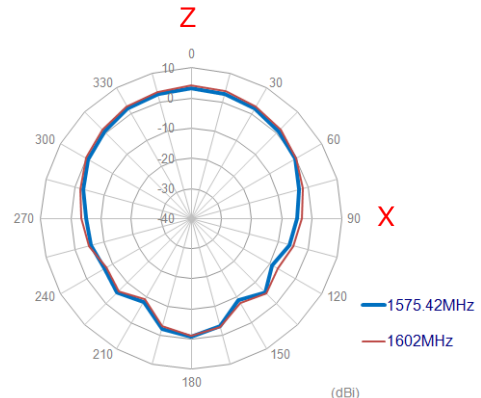


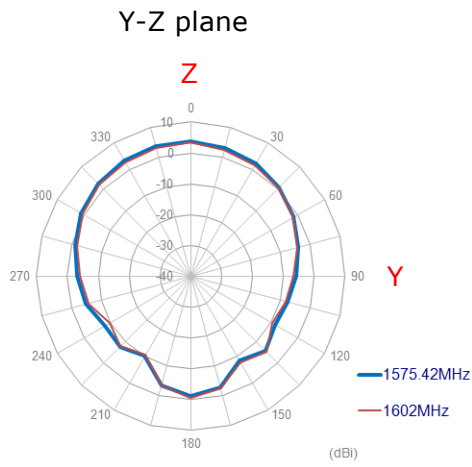
IV. 2D Radiation Pattern:

X-Y plane



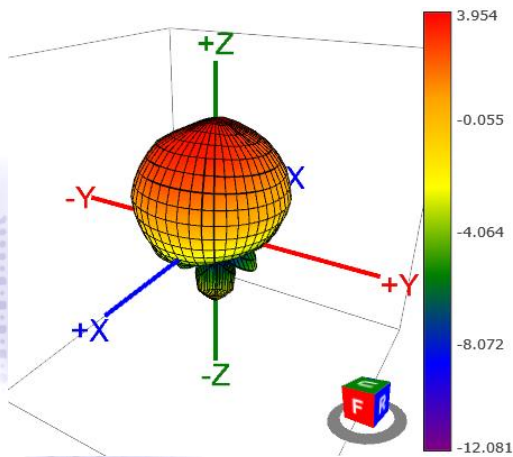
X-Z plane



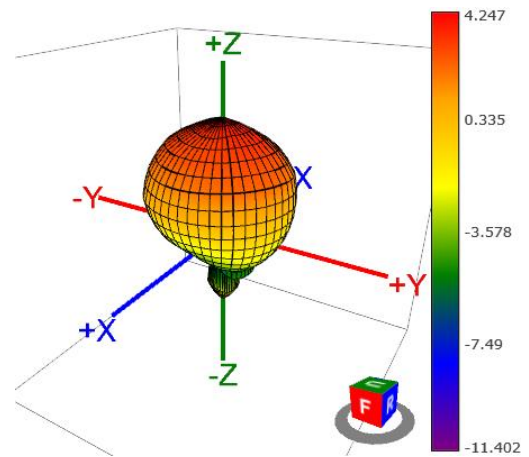


V. 3D Radiation Pattern:

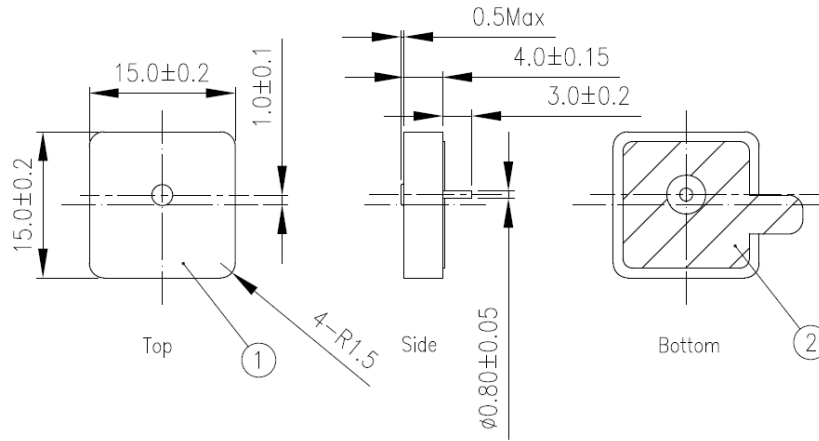
1575.42MHz



1602MHz



VI. Mechanical Drawing (Unit:mm):



2	Double sided Adhesive	3M t=0.13	White Liner	1
1	Patch	Ceramic	Clear	1
No	NAME	MATERIAL	FINISH	QTY

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