

Product Name: 25*25*4mm GPS/GLONASS Ceramic Patch Antenna

Part Number: CP-254A-H-B01

Features:

- Support GPS / GLONASS Dual Bands
- Tiny Dimension with 4mm Height
- 5dBi Peak Gain

Applications:

- Navigation Device Application
- Personal Tracker

25*25*4mm GPS/GLONASS Ceramic Patch Antenna

MODEL: CP-254A-H-B01

Rev.A

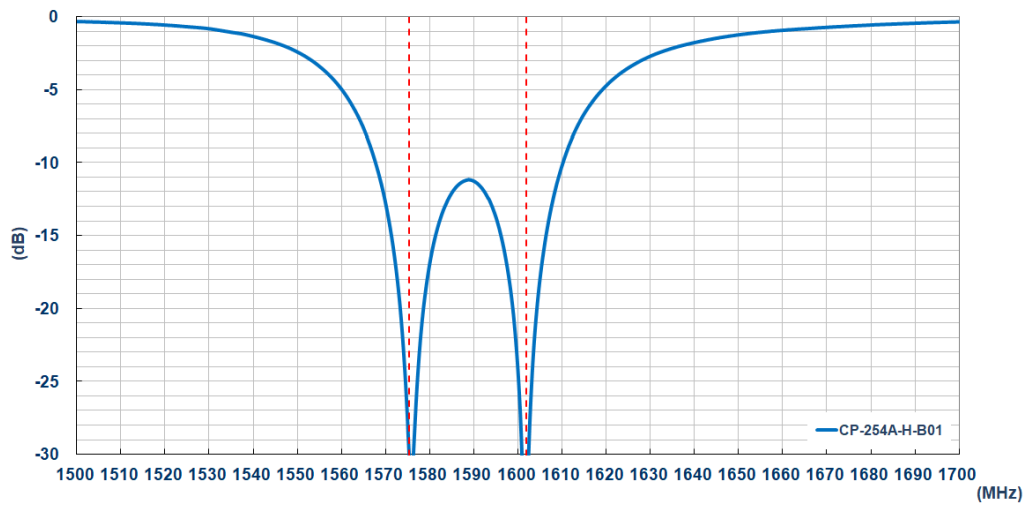
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I. Specifications:

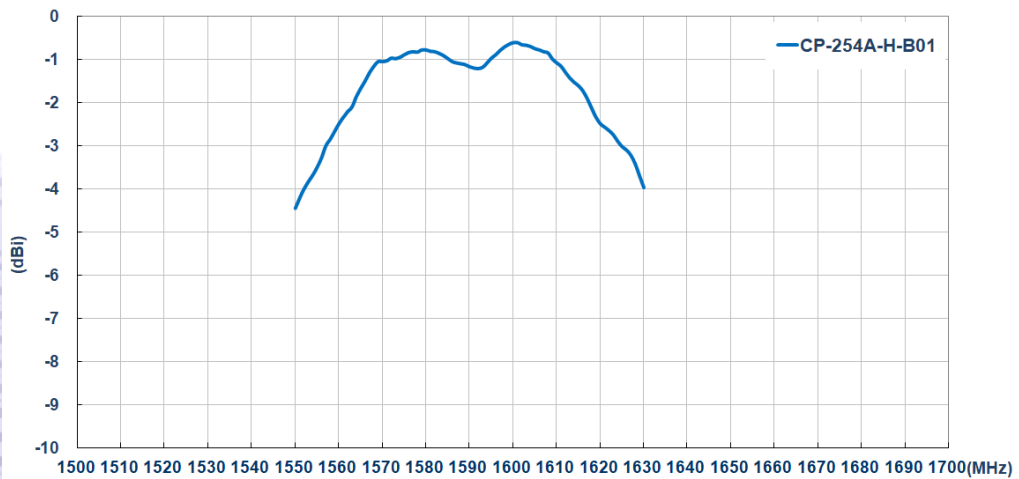
| Items | Specifications | |
|--|--|---------|
| GNSS Electrical Characteristics | | |
| Application Bands | L1(GPS) | GLONASS |
| Frequencies (MHz) | 1575.42 | 1602 |
| Efficiency (%) | 81.66 | 85.70 |
| Average Gain (dBi) | -0.88 | -0.67 |
| Peak Gain (dBi) | 5.06 | 5.37 |
| Axial Ratio | 1.2 | 7.92 |
| 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) | 25 x 25 x 4 | |
| Environmental Conditions | | |
| Operation Temperature (°C) | -40 ~ +100 | |
| Storage Temperature (°C) | -40 ~ +100 | |
| Relative Humidity | 95% non-condensing | |

II. Antenna Technical Parameters:

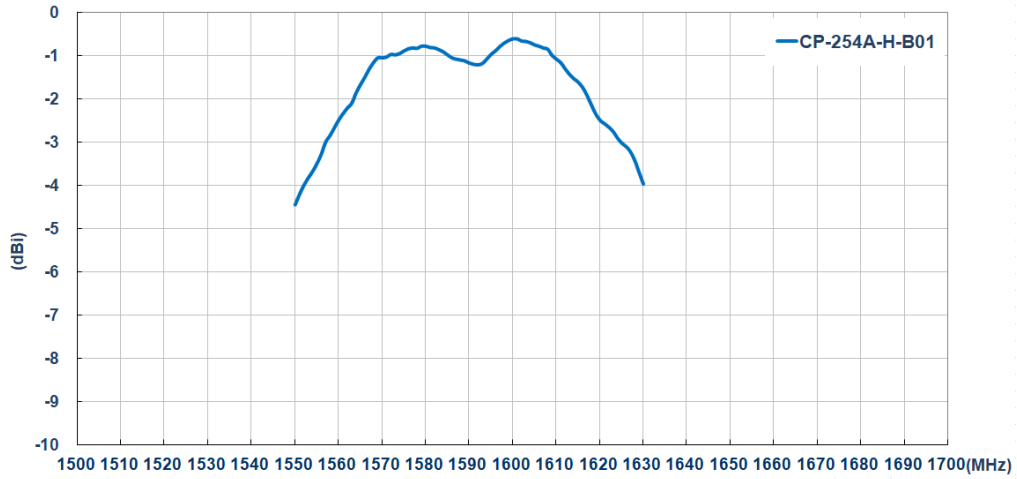
S11 (dB)



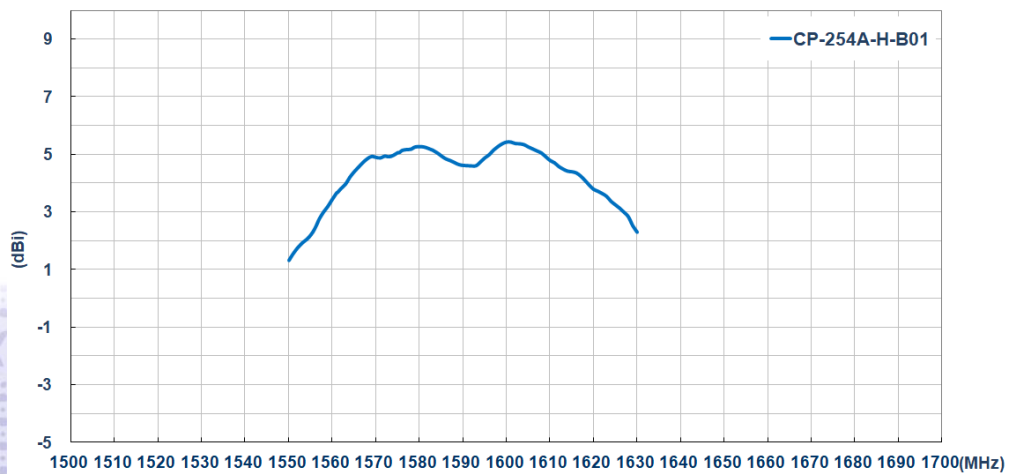
Efficiency (%)



Average Gain (dBi)

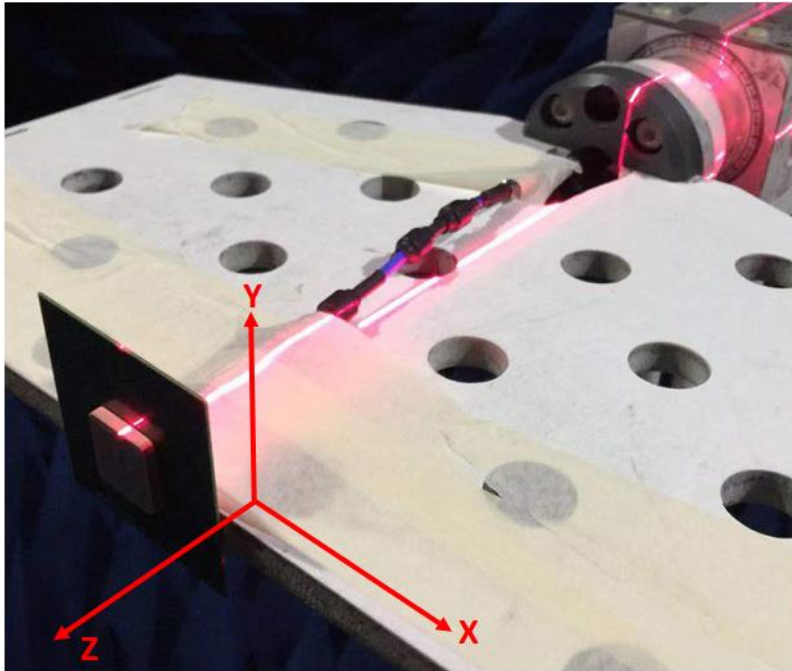


Peak Gain (dBi)

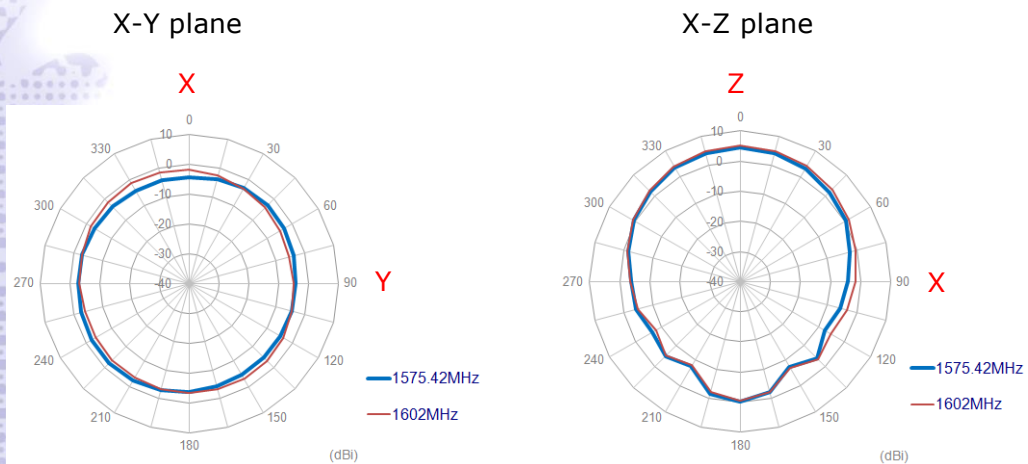


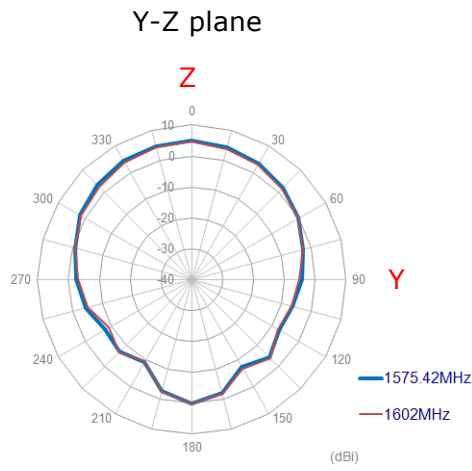
III. Antenna Radiation Pattern Measurement:

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



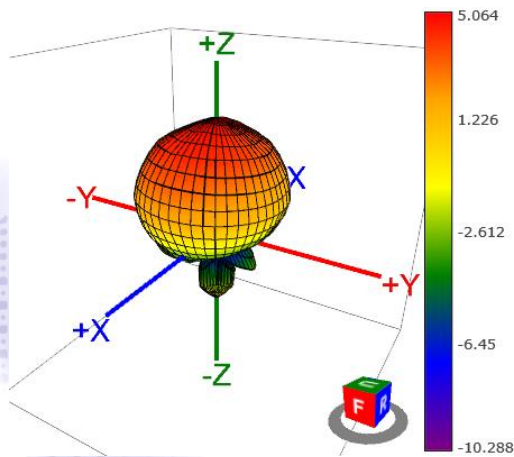
IV. 2D Radiation Pattern:



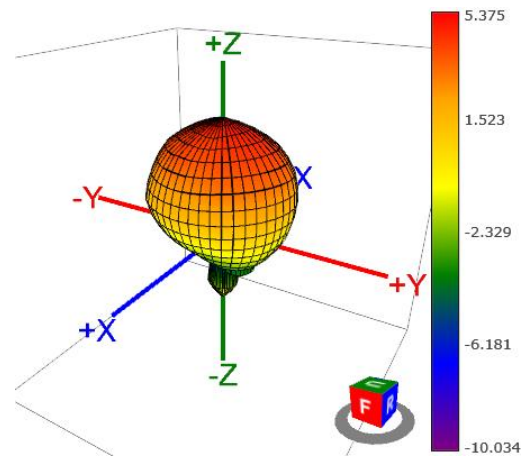


V. 3D Radiation Pattern:

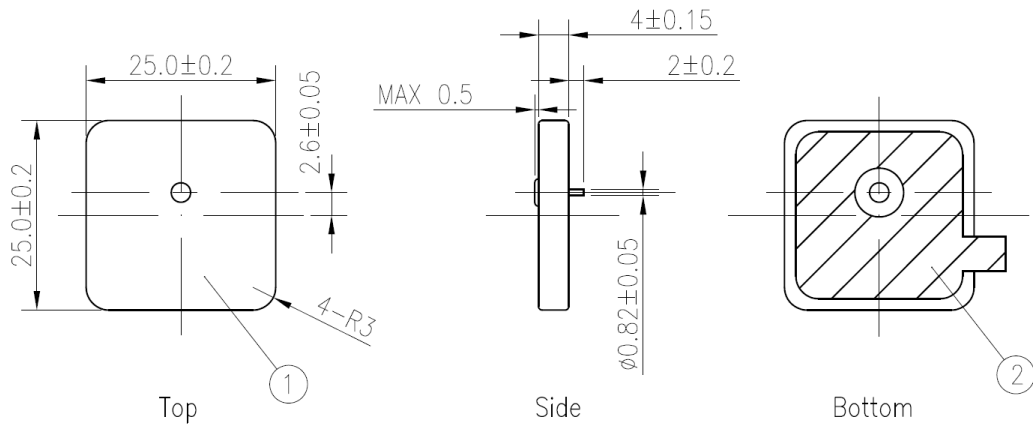
1575.42MHz



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 | Q'TY |

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