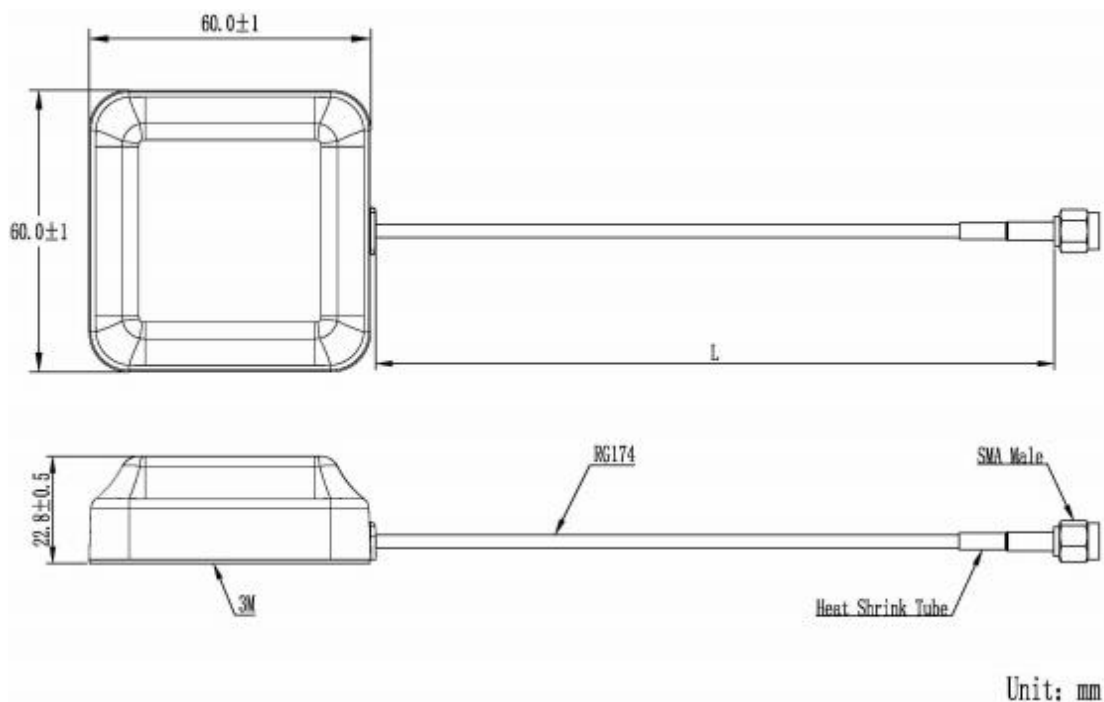


## High Accuracy GNSS Active Antenna **JCA231-300-01S-C-L2**



### DIMENSIONS



**ZHEJIANG JC ANTENNA CO.,LTD**

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Jinchang Electron Global Service

## SPECIFICATIONS

| Item          |                           | Specifications                                                            |
|---------------|---------------------------|---------------------------------------------------------------------------|
| Antenna       | Frequency                 | GPS L1/L2<br>GLONASS G1/G2/G3<br>COMPASS B1/B2/B3<br>Galileo E1/L1/E2/E5b |
|               | Polarization              | RHCP                                                                      |
|               | Axial Ratio(min)          | $\leq 3\text{dB}$                                                         |
|               | V.S.W.R                   | $\leq 2.0$                                                                |
|               | Peak Gain                 | $\geq 2\text{dBi}$                                                        |
|               | Impedance                 | $50\ \Omega$                                                              |
|               | Horizontal coverage angle | $360^\circ$                                                               |
| LNA           | Gain                      | $28 \pm 2\text{dB}$                                                       |
|               | Noise Figure              | $\leq 1.5\text{dB}$                                                       |
|               | Passband fluctuation      | $\pm 1.5\text{dB}$                                                        |
|               | Supply Voltage            | 3~12V DC                                                                  |
|               | Current Consumption       | $\leq 50\text{mA}$                                                        |
|               | V.S.W.R                   | $\leq 2.0$                                                                |
| Mechanical    | Connector                 | SMA male                                                                  |
|               | Cable                     | RG174 3M                                                                  |
|               | Mounting Method           | Magnet                                                                    |
| Environmental | Operating Temperature     | $-40^\circ\text{C} \sim +85^\circ\text{C}$                                |
|               | Ingress Protection        | IP66                                                                      |
|               | Relative Humidity         | Up to 95%                                                                 |
|               | Vibration                 | 10 to 55Hz with 1.5mm amplitude 2hours                                    |
|               | Environmentally Friendly  | ROHS Compliant                                                            |

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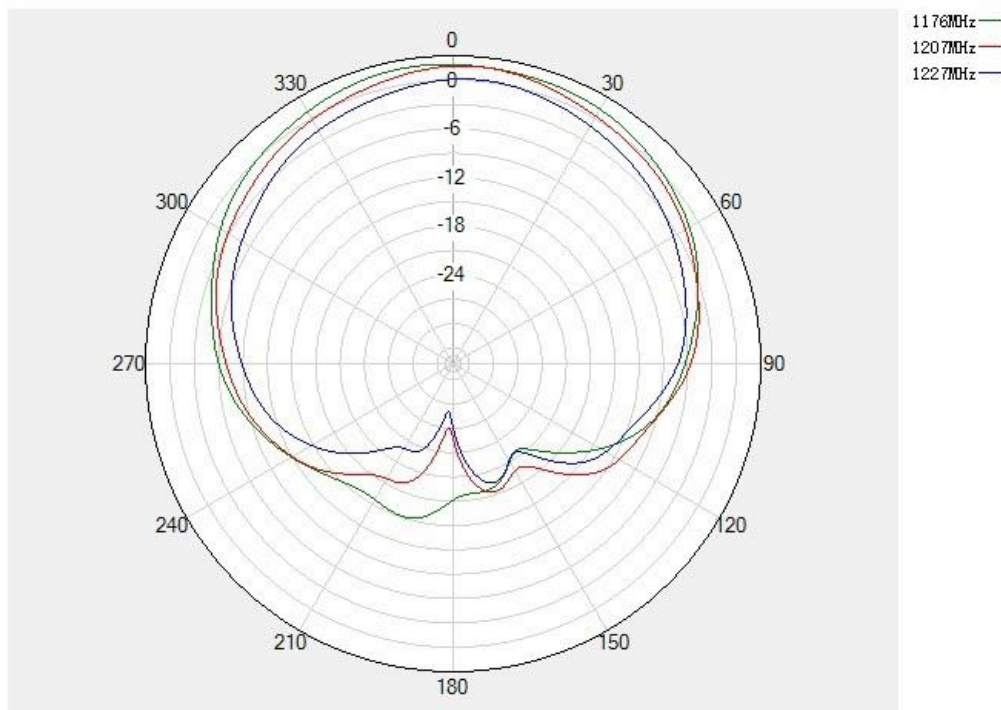
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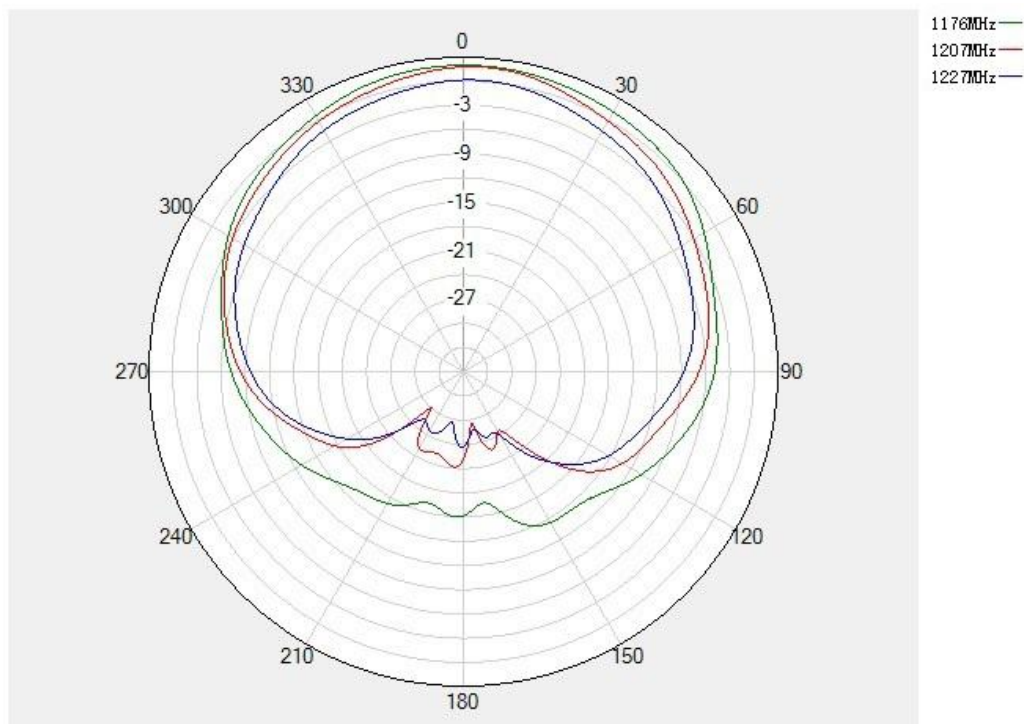
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## Radiation Pattern

XZ Plane



YZ Plane



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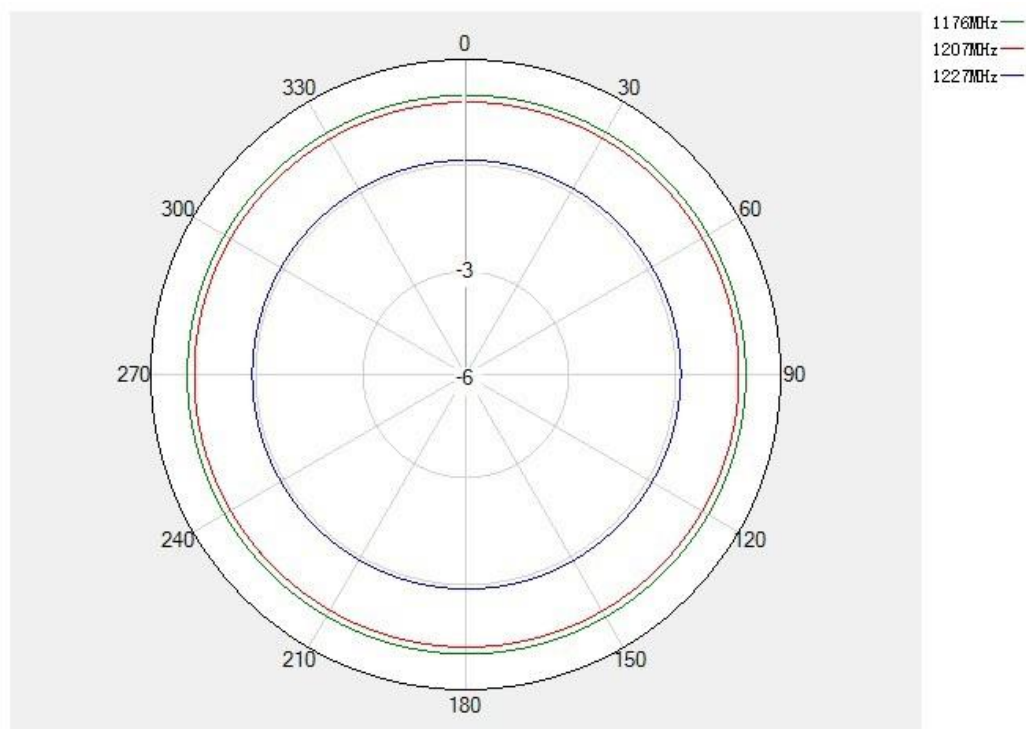
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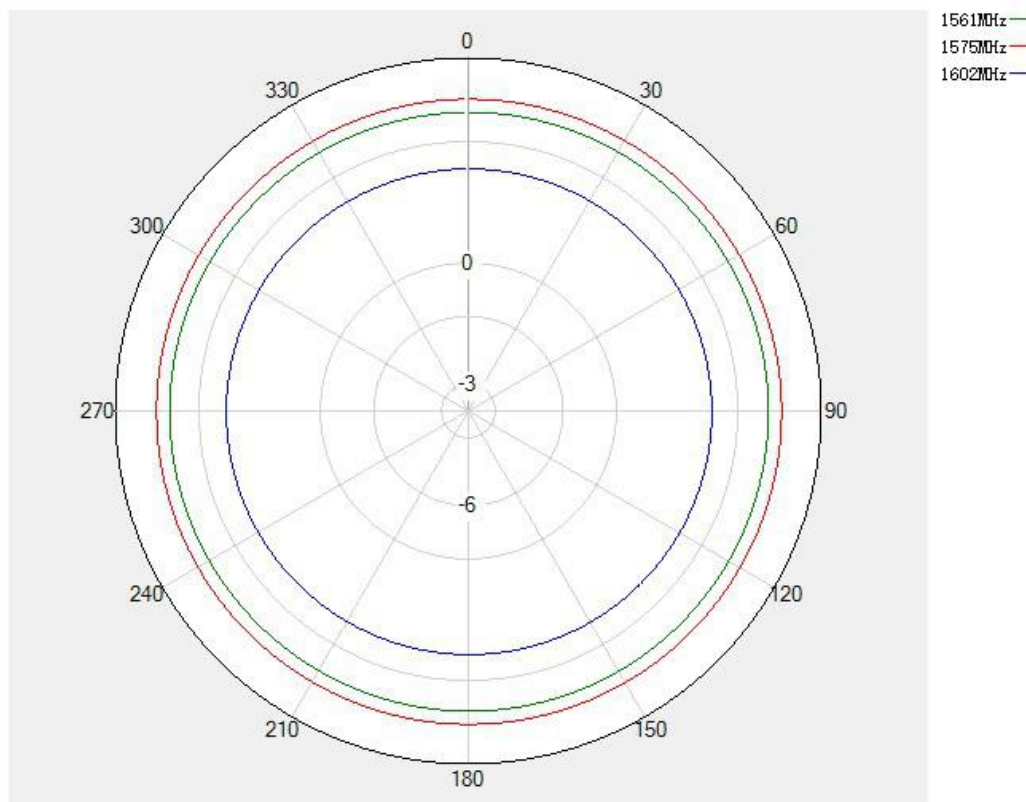
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XY Plane



XY Plane



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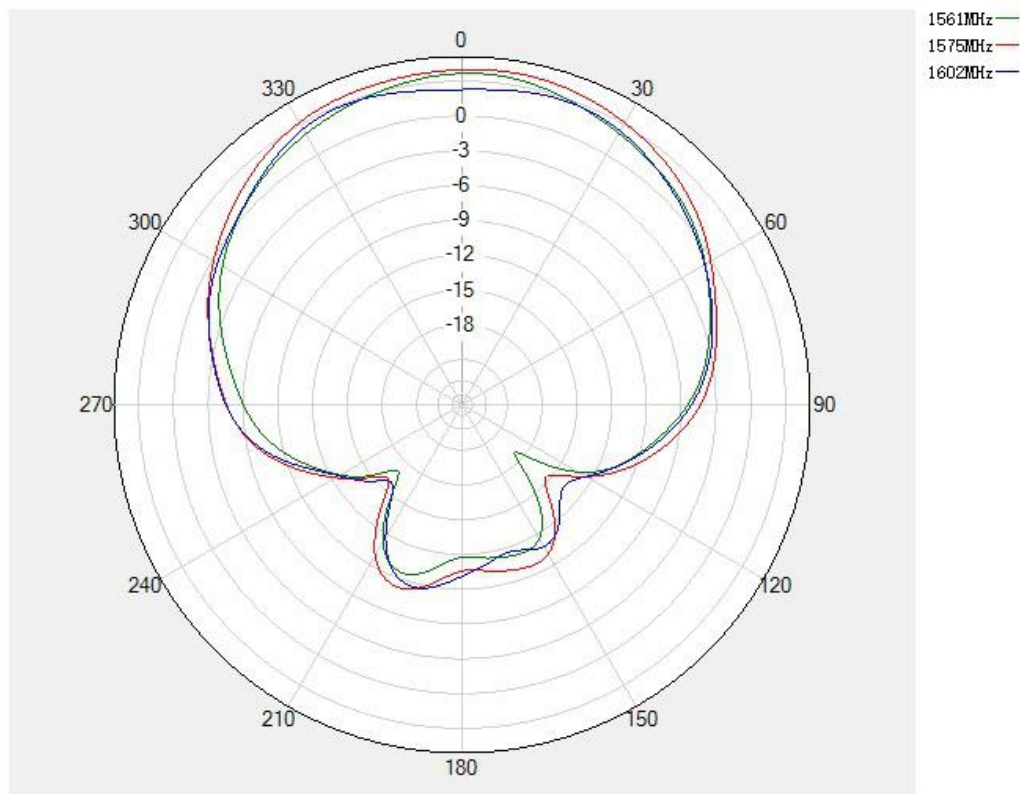
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XZ Plane



YZ Plane

