

# NANEA60X60PJG2CF

GNSS Active External Antenna; GPS L1, L2, L5



## Description

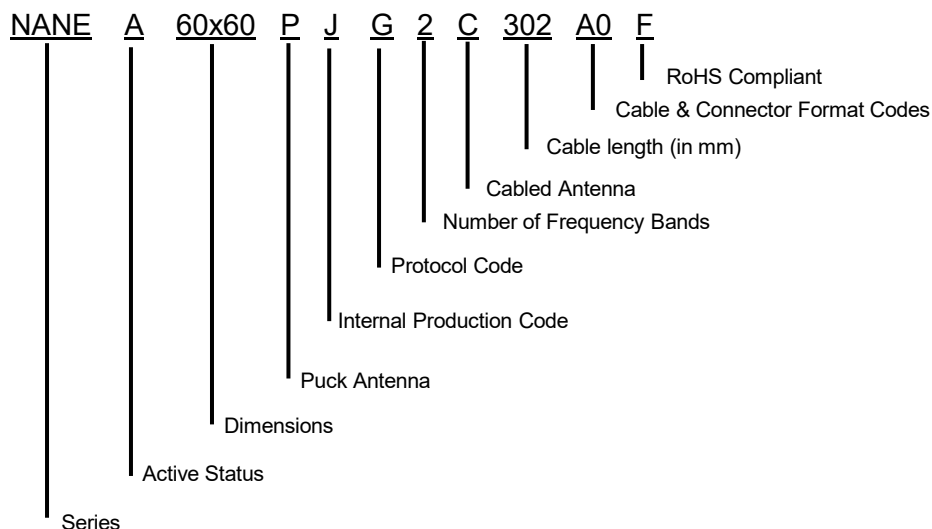
NANEA60X60PJG2CF is an External Active Antenna designed for GNSS L1, L2 & L5 applications. It operates within the frequency ranges of 1561 ~1602 MHz AND 1176~1227 MHz making it perfect for Fleet Management & Tracking.

## Features

- GNSS L1, L2 & L5 protocols
- Waterproof (IP66) Option Available
- Customizable Cable & Connectors
- RoHS Complaint



## Part Number Breakdown



## Part Number Options

| Part Number           | Protocol         | Connector | Cable Type | Cable Length |
|-----------------------|------------------|-----------|------------|--------------|
| NANEA60X60PJG2C302A0F | GNSS L1, L2 & L5 | SMA Male  | RG174      | 3000 mm      |
| NANEA60X60PJG2C502A0F | GNSS L1, L2 & L5 | SMA Male  | RG174      | 5000 mm      |

The table represents assembled part numbers available on [www.niccomp.com](http://www.niccomp.com). For options not listed above please contact NIC

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## Specifications

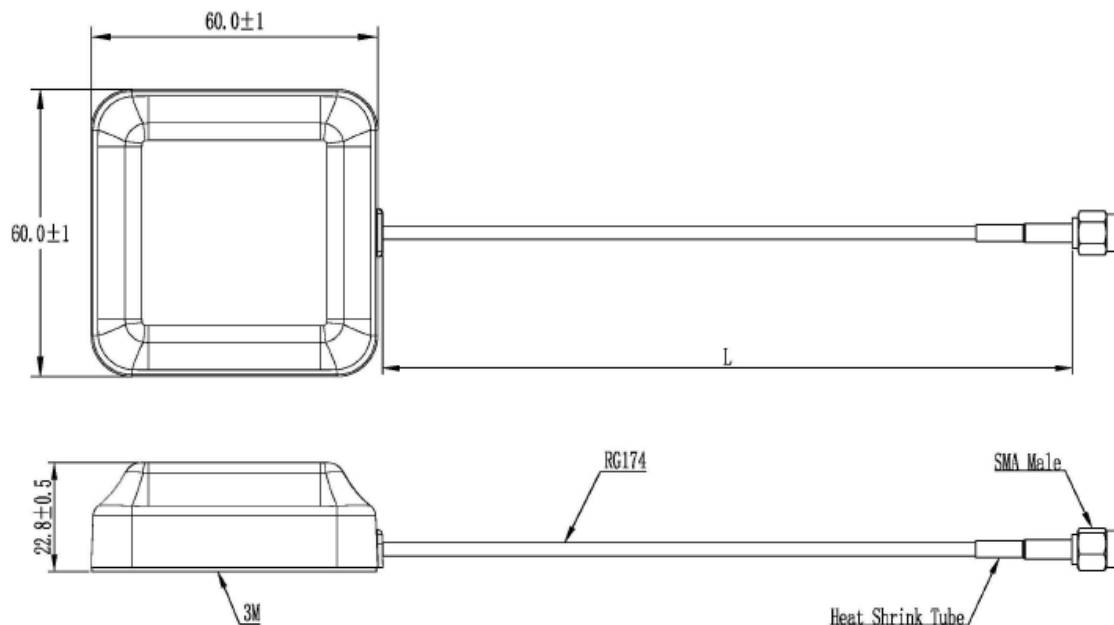
| Electrical            |                                                                               |
|-----------------------|-------------------------------------------------------------------------------|
| Frequency Bands       | GPS L1/L2/L5<br>GLONASS G1/G2/G3<br>COMPASS B1/B2<br>Galileo E1/L1/E2/E5a/E5b |
| Frequency Range       | 1561 ~1602 MHz<br>1176~1227 MHz                                               |
| Axial Ratio           | $\leq 3\text{dB}$                                                             |
| Peak Gain             | $\geq 2\text{dBic}$                                                           |
| VSWR                  | $\leq 2.0$                                                                    |
| Polarization          | RHCP                                                                          |
| Impedance             | $50\ \Omega$                                                                  |
| 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.              | $\leq 2.0$                                                                    |
| Environmental         |                                                                               |
| Operating Temperature | $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$                                |
| Relative Humidity     | Up to 95%                                                                     |
| Ingress Protection    | IP66                                                                          |
| Vibration             | 10 to 55Hz with 1.5mm amplitude 2hours                                        |
| ROHS Compliant        | Yes                                                                           |

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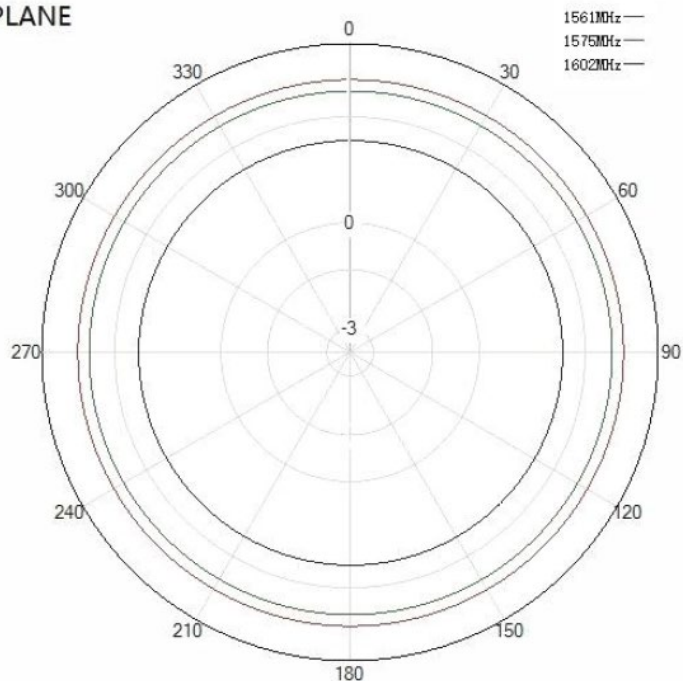
## Dimension Drawing



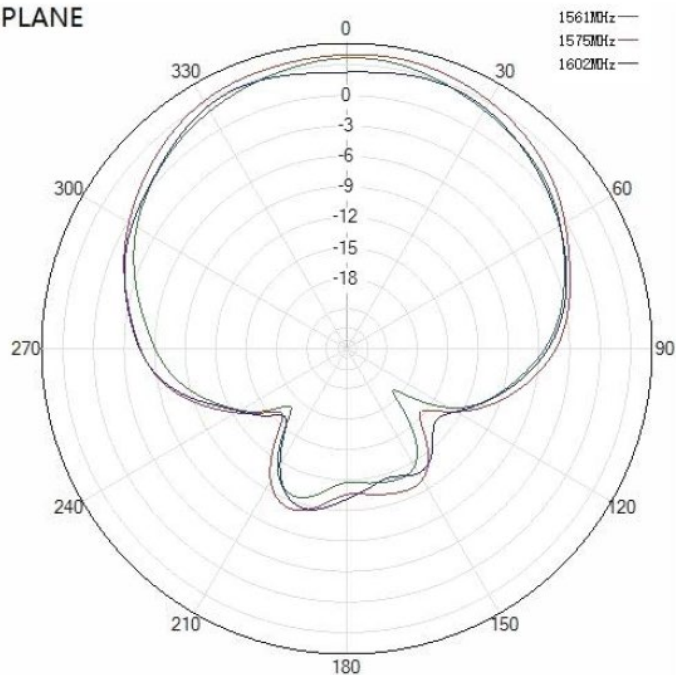
Unit: mm

### Radiation Patterns

XY-PLANE

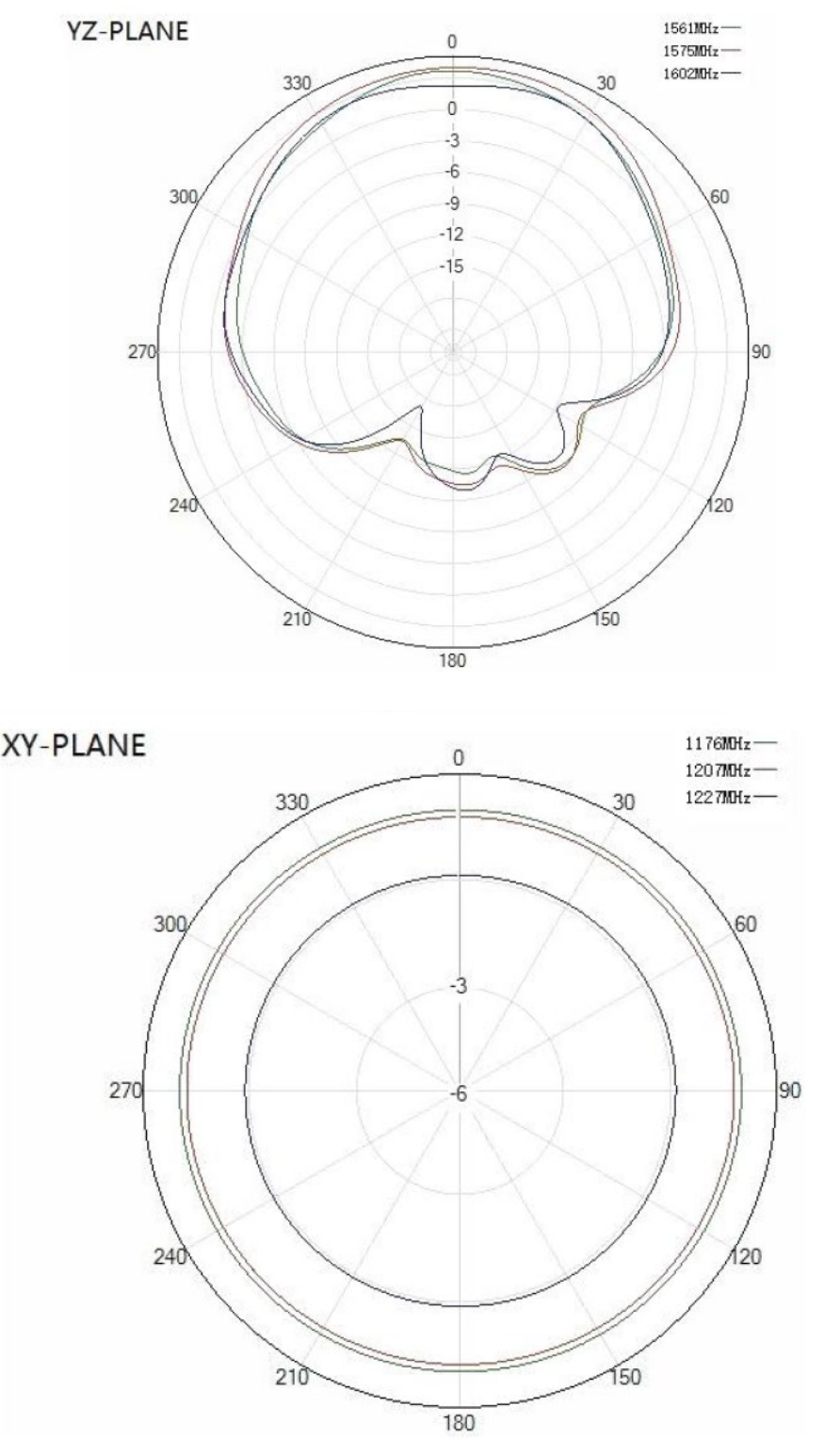


XZ-PLANE



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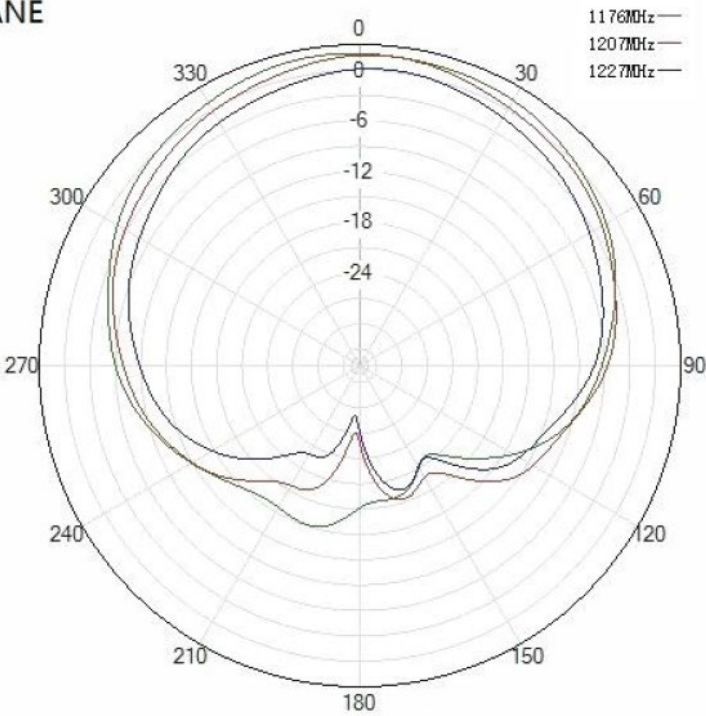


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XZ-PLANE



YZ-PLANE

