

# NANEA181X69SJVCGW4CF

GPS&GLONASS , LTE & WIFI Active External Antenna



## Description

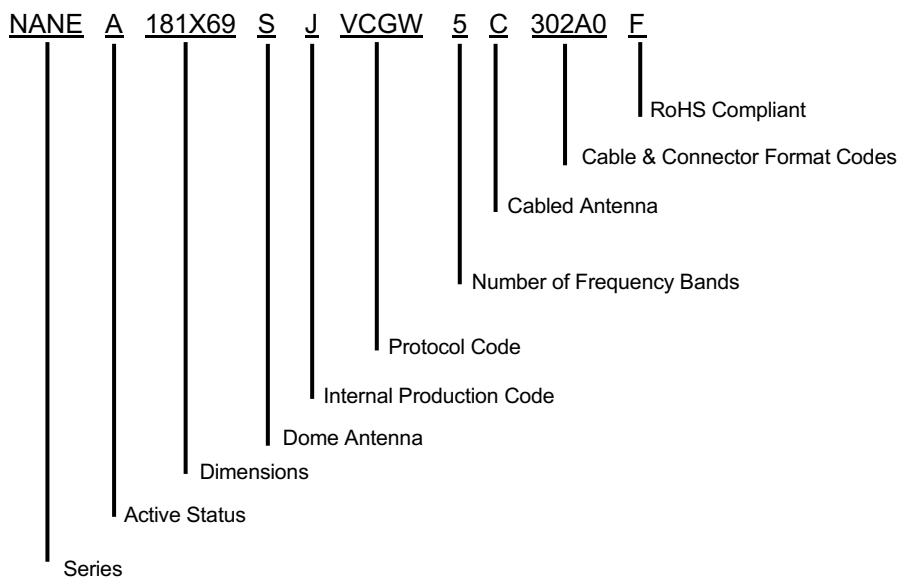
The NANEA181X69SJVCGW4CF is an external active antenna designed for dual-band cellular applications. It operates within the frequency ranges of 698~960MHz, 1575.42MHz, 1710~2690MHz and 2400~2483.5MHz making it perfect for use in Tracking and Fleet Management



## Features

- GPS, LTE & WIFI Combo Antenna
- Waterproof (IP67)
- Customizable Connector Options and Cable Lengths
- RoHS Complaint

## Part Number Breakdown



| Part Number               | Protocol                      | Connector | Cable Type | Cable Length |
|---------------------------|-------------------------------|-----------|------------|--------------|
| NANEA181X69SJVCGW4C302A0F | GNSS<br>WIFI MIMO<br>LTE MIMO | SMA MALE  | RF174      | 3000 mm      |
| NANEA181X69SJVCGW4C302A1F | GNSS<br>WIFI MIMO<br>LTE MIMO | FAKRA     | RF174      | 3000 mm      |

## Specifications

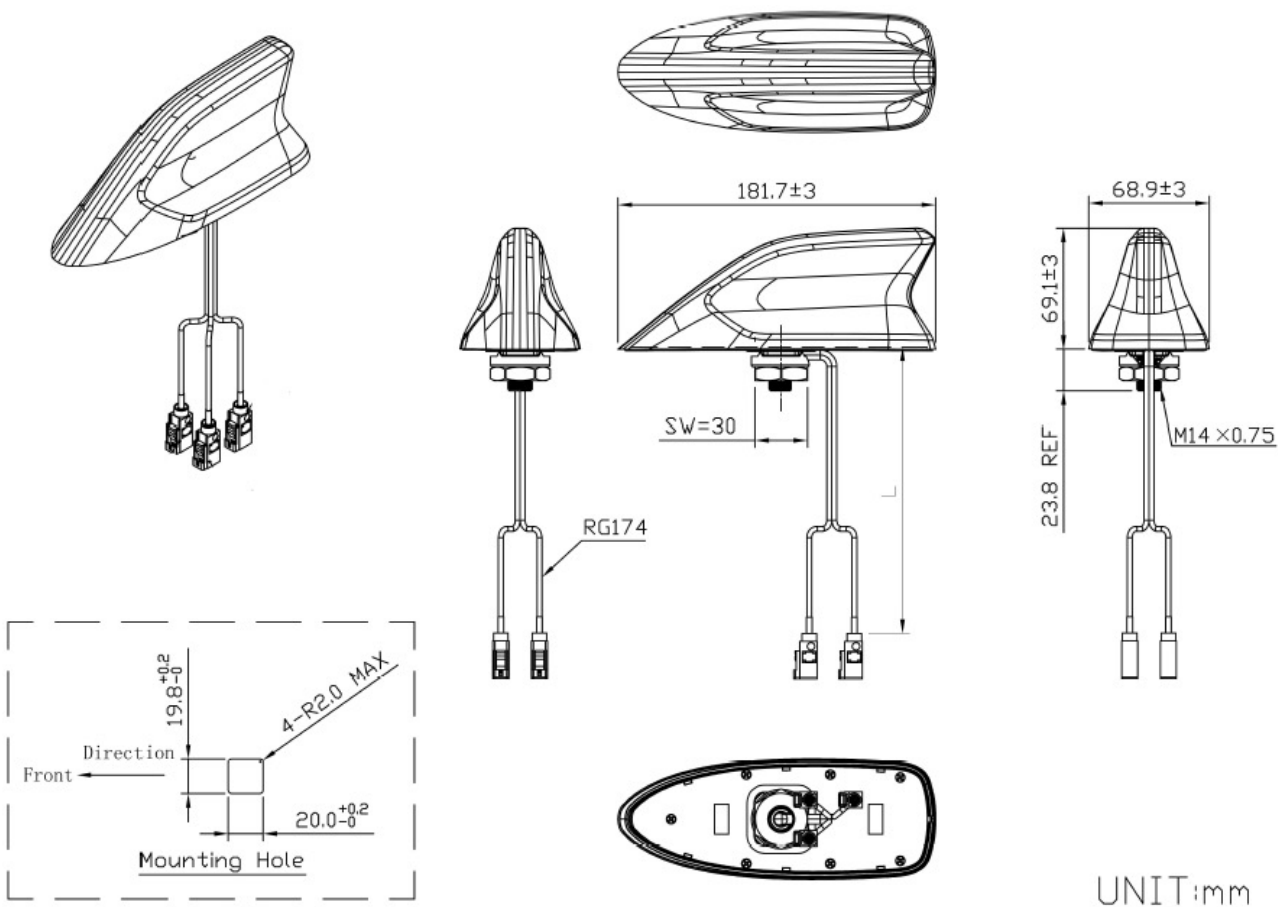
| Electrical            |                              |                  |
|-----------------------|------------------------------|------------------|
| Antenna               | GNSS                         |                  |
| Frequency Range       | 1575.42±3MHz                 |                  |
| Gain                  | 2 dBic                       |                  |
| VSWR                  | < 1.5                        |                  |
| Polarization          | RHCP                         |                  |
| Impedance             | 50 Ω                         |                  |
| LNA                   |                              |                  |
| Gain                  | 28 ± 2dB                     |                  |
| Noise Figure          | < 2.0 dB                     |                  |
| Supply Voltage        | 3~5V DC                      |                  |
| Current Consumption   | < 15mA                       |                  |
| V.S.W.R.              | < 2.0                        |                  |
| Antenna               | LTE                          | WiFi             |
| Frequency Range       | 698~960 MHz<br>1710~2690 MHz | 2400 ~2483.5 MHz |
| V.S.W.R               | < 3.0                        | < 2.0            |
| Gain                  | 3.5 dBi                      | 3.0 dBi          |
| Polarization          | Linear                       |                  |
| Impedance             | 50 Ω                         |                  |
| Mounting Method       | Screw                        |                  |
| Environmental         |                              |                  |
| Operating Temperature | -40°C~+85°C                  |                  |
| Relative Humidity     | Up to 95%                    |                  |
| Ingress Protection    | IP67 (exclude Cable outlet)  |                  |
| Vibration             | 10 to 1000Hz G=28.7m/s²      |                  |
| ROHS Compliant        | Yes                          |                  |

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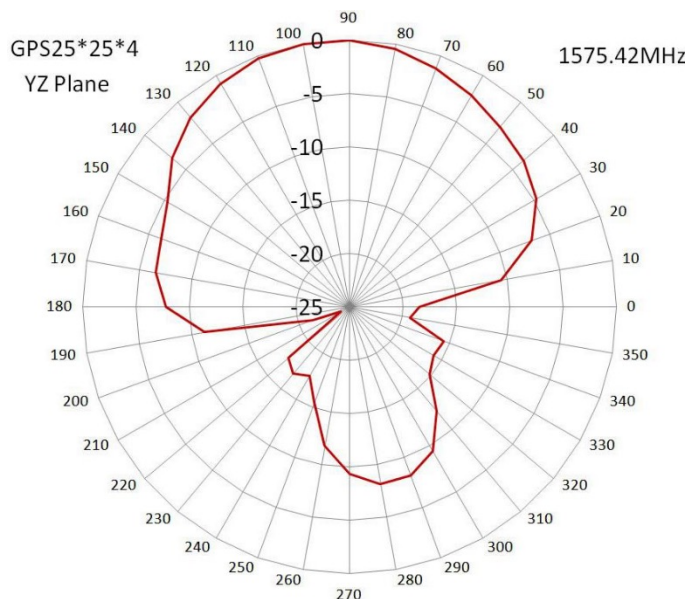
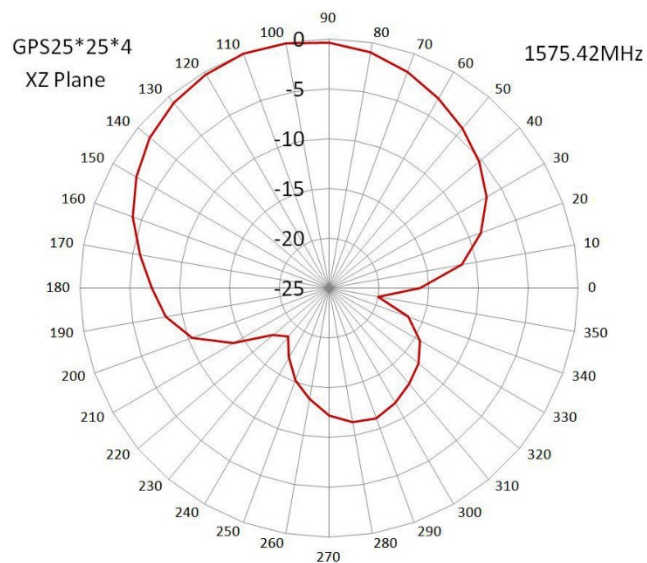
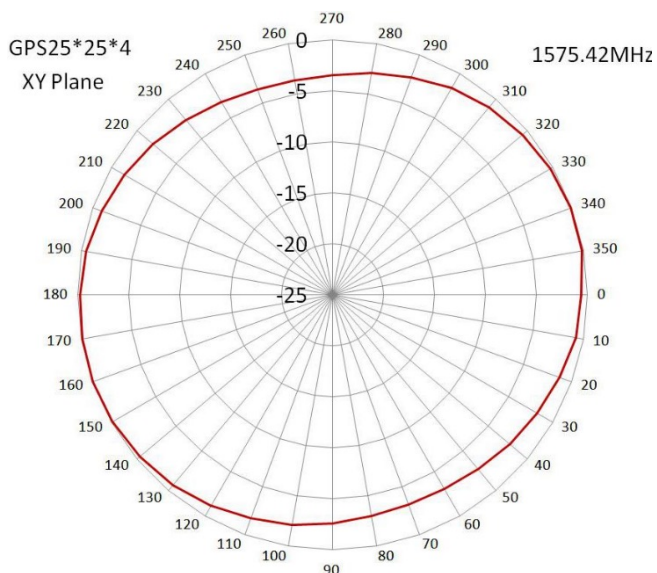
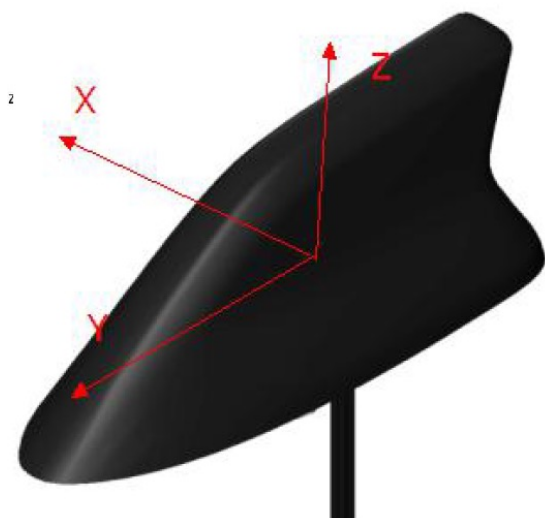


## Dimensions



## Radiation Patterns

### GPS

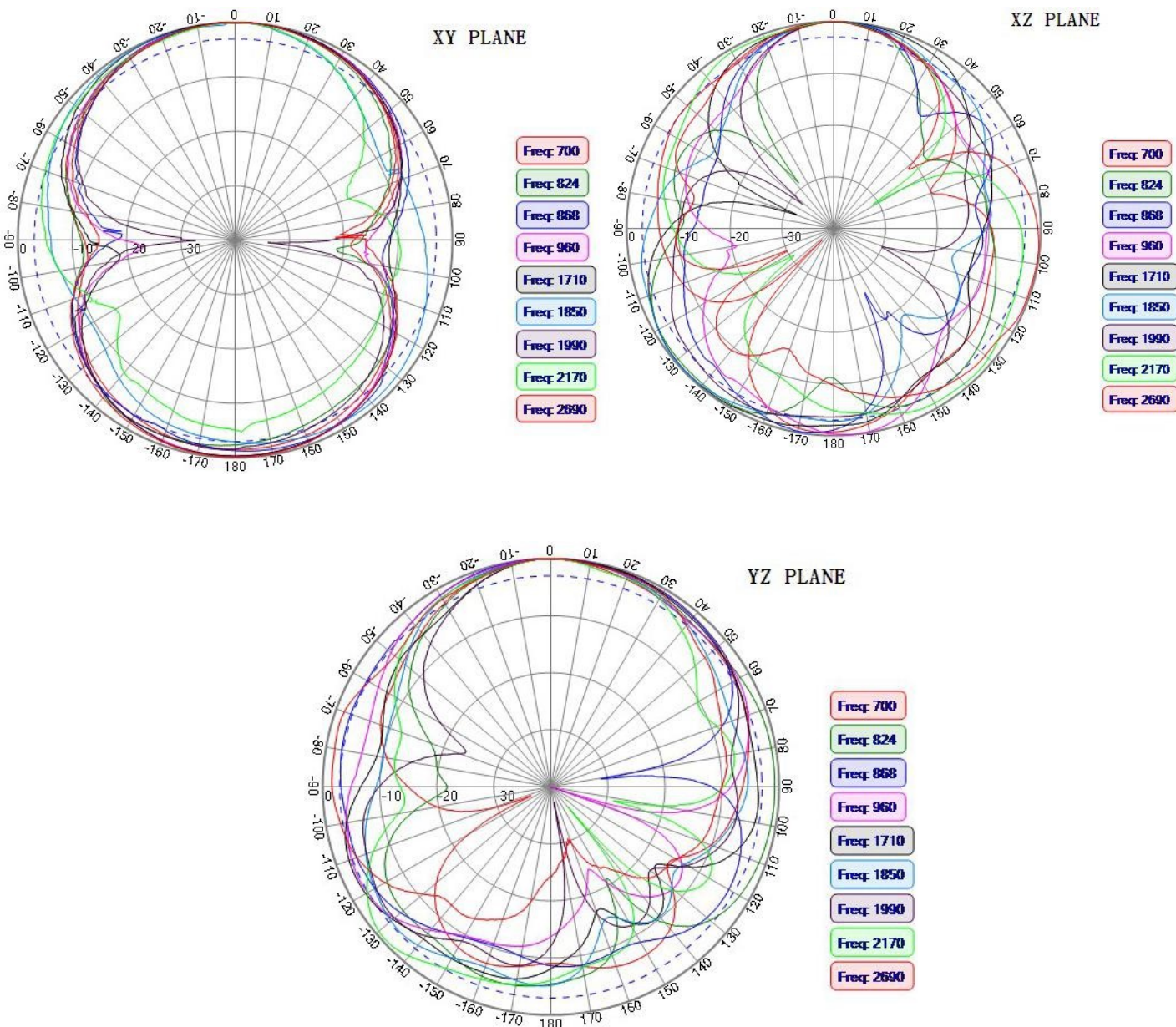


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LTE



Performance Passives By Design

NIC Components Corp.  
100 Baylis Road. Melville, NY 11747

Page 5  
www.niccomp.com

Last Updated 11/14/23. Specification subject to change without notice. Please check web site or contact NIC for latest information

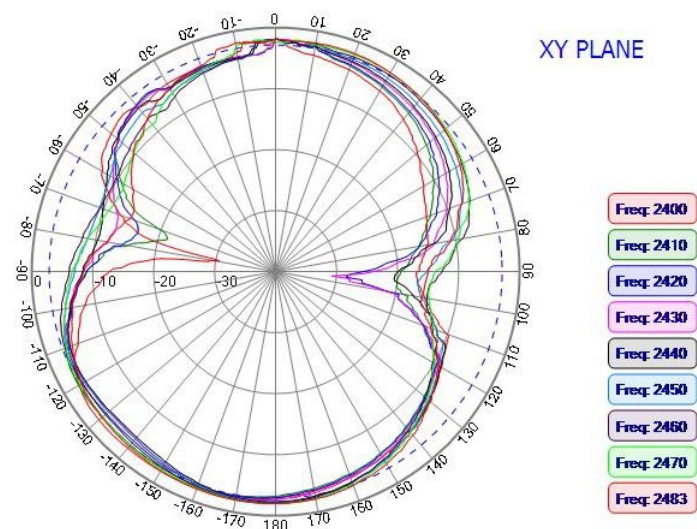
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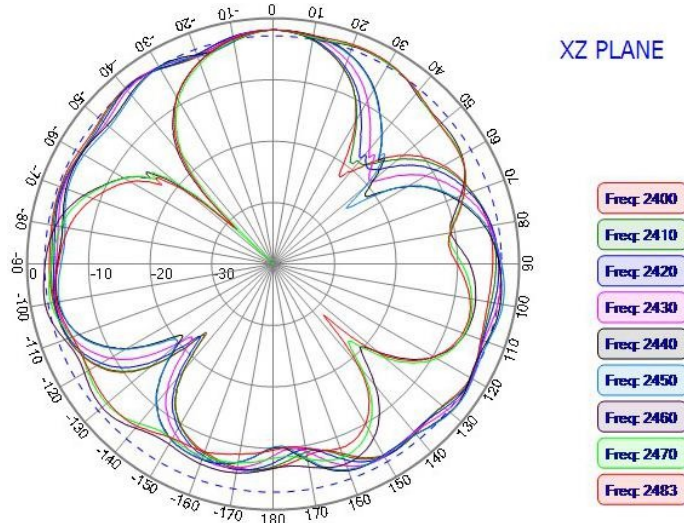


## WIFI

XY PLANE



XZ PLANE



YZ PLANE

