## GNSS, LTE & WIFI Active External Antenna

### Description

The NANEA110X53DJVCGW5C302A0F is an external dome antenna designed for GNSS, LTE and WIFI applications. It operates within the frequency ranges of 1575.42 ~ 1610 MHz making it perfect for tracking, IoT, gateways and routers.

<u>A 110x53 D J</u>

### Features

- · GNSS, LTE and WIFI protocol
- Waterproof (IP67)
- 5-band Frequency Coverage
- **RoHS** Complaint ٠

### Part Number Breakdown

NANE

Assembly Ref Protocol Connector Type Cable Type Cable Length A0 GNSS SMA Male RG174 3000 mm

Protocol Code

Internal Production Code

Dome Antenna

Dimensions

Active Status

Series

<u>VCGW</u> 5

<u>302 A0</u>

Cabled Antenna Number of Frequency Bands

F

Cable length (in mm)

С

#### Performance Passives By Design

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RoHS Compliant Cable & Connector Format Codes





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### **Specifications**

Electrical	
GPS & Glonass Antenna	
Frequency Range	1575.42 ~ 1610 MHz
Polarization	RHCP
Gain	28 ± 2dB
Noise Figure	≤ 1.5 dB
Supply Voltage	3 ~ 5V DC
Current Consumption	< 15mA
V.S.W.R.	< 2.0
Impedance	50 Ω
LTE Antenna	
Frequency Range	698 ~ 960 MHz 1710 ~ 2690 MHz
V.S.W.R	< 3.0
Gain	3 dBi
Polarization	Linear
Impedance	50 Ω
WIFI Antenna	
Frequency Range	2400 ~ 2483.5 MHz 4900 ~ 5825 MHz
V.S.W.R	< 2.5
Polarization	Linear
Gain	2 dBi
Impedance	50 Ω
Environmental	
Operating Temperature	-40°C~+85°C
Relative Humidity	Up to 95%
Ingress Protection	IP67 (excludes cable outlet)
Vibration	10 to 55 Hz with 1.5mm amplitude 2 hours
Radome Material	ABS
Mounting Method	Screw
RoHS Compliant	Yes

Performance Passives By Design

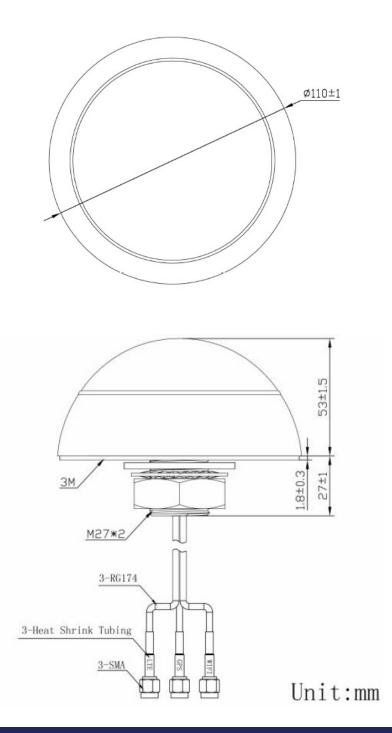
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#### Dimensions



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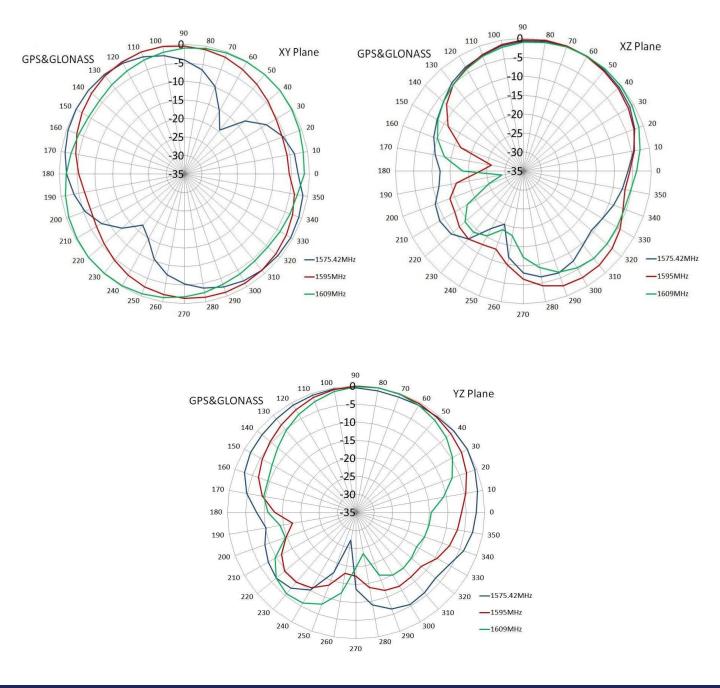
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### **Radiation Patterns**

#### **GPS** Antenna



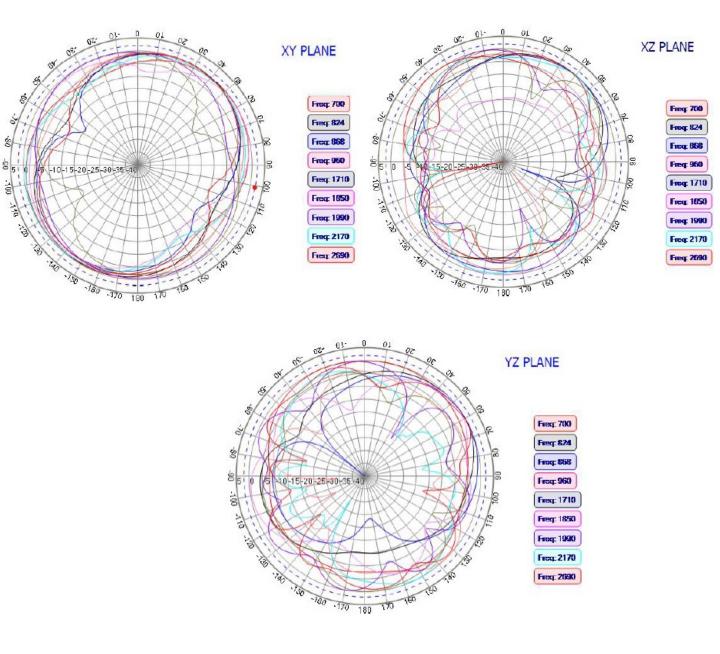
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#### LTE Antenna



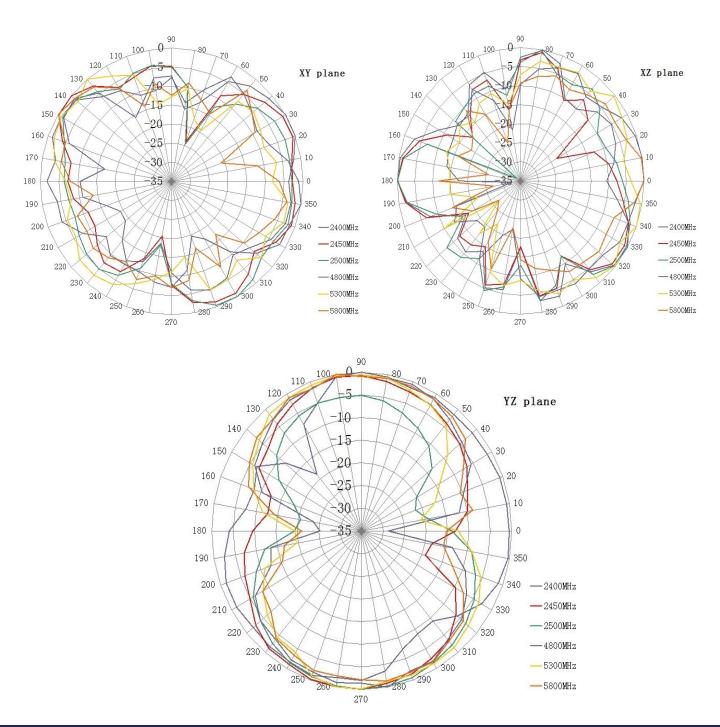
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#### **WIFI Antenna**



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