

# NANEA110X53DJVCGW5C302A0F

GNSS, LTE & WIFI Active External Antenna



## Description

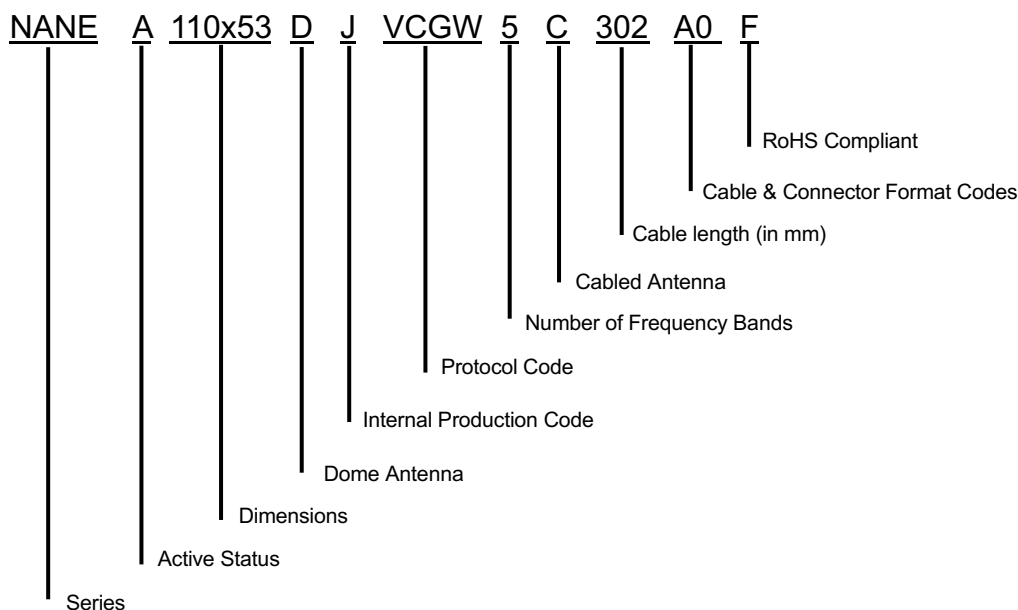
The NANEA110X53DJVCGW5C302A0F is an external dome antenna designed for GNSS, LTE and WIFI applications. It operates within the frequency ranges of 1575.42 ~ 1610 MHz making it perfect for tracking, IoT, gateways and routers.



## Features

- GNSS, LTE and WIFI protocol
- Waterproof (IP67)
- 5-band Frequency Coverage
- RoHS Compliant

## Part Number Breakdown



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

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## Specifications

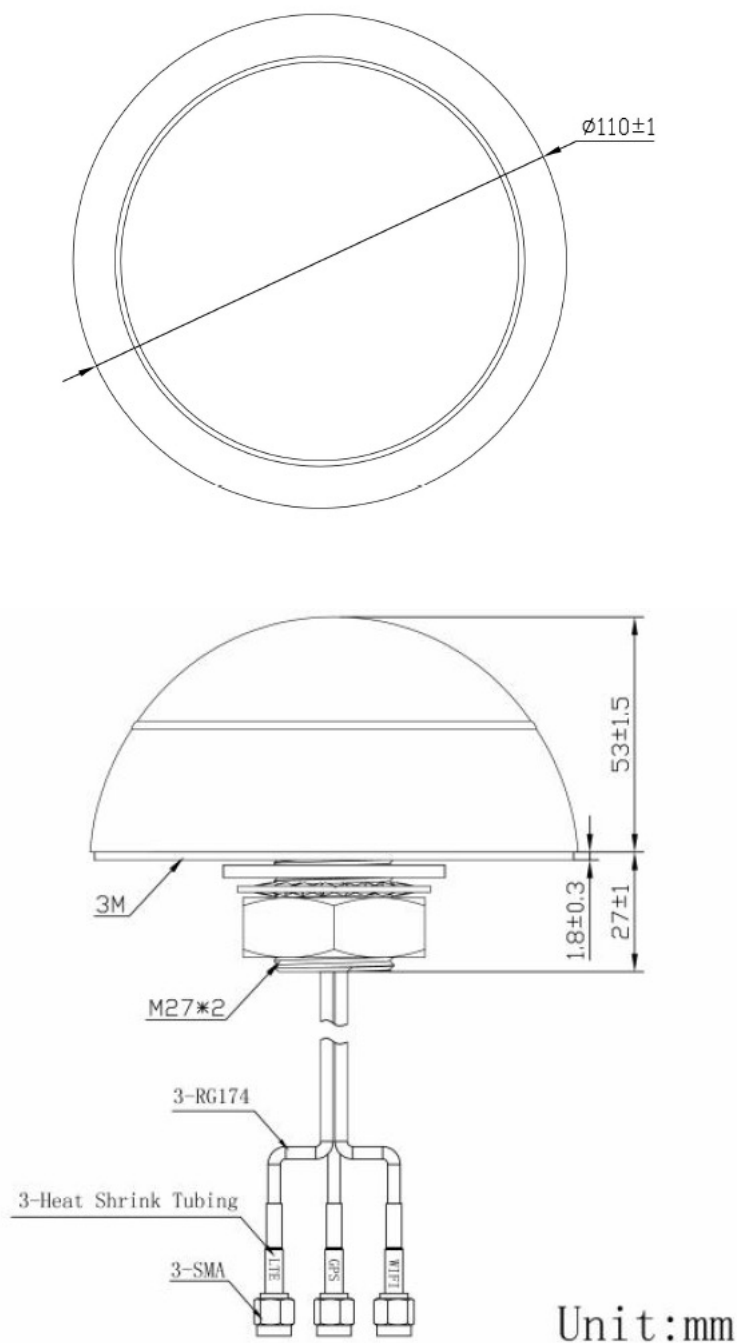
Electrical	
GPS & Glonass Antenna	
Frequency Range	1575.42 ~ 1610 MHz
Polarization	RHCP
Gain	28 ± 2dB
Noise Figure	≤ 1.5 dB
Supply Voltage	3 ~ 5V DC
Current Consumption	< 15mA
V.S.W.R.	< 2.0
Impedance	50 Ω
LTE Antenna	
Frequency Range	698 ~ 960 MHz 1710 ~ 2690 MHz
V.S.W.R	< 3.0
Gain	3 dBi
Polarization	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

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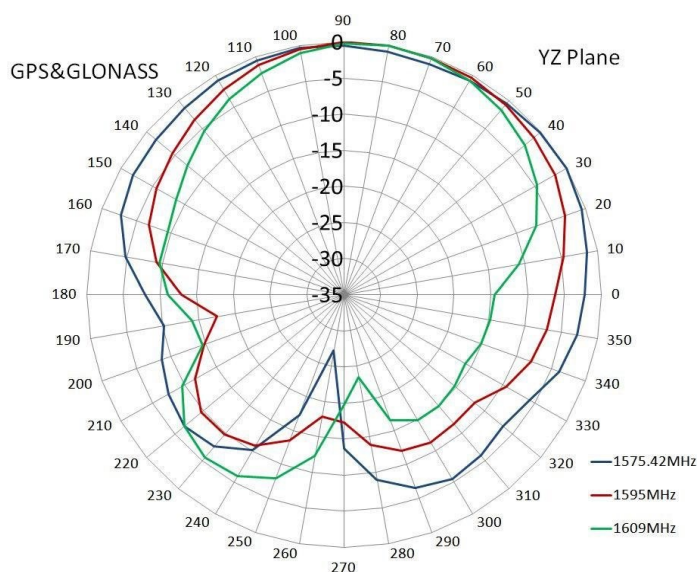
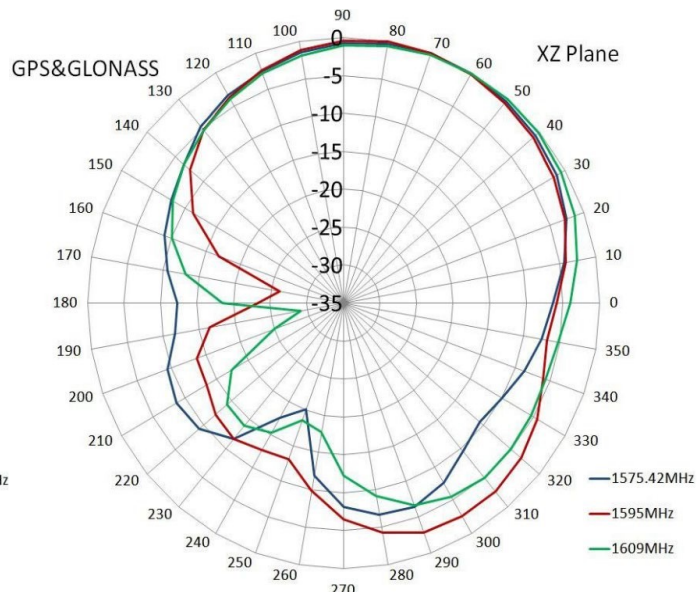
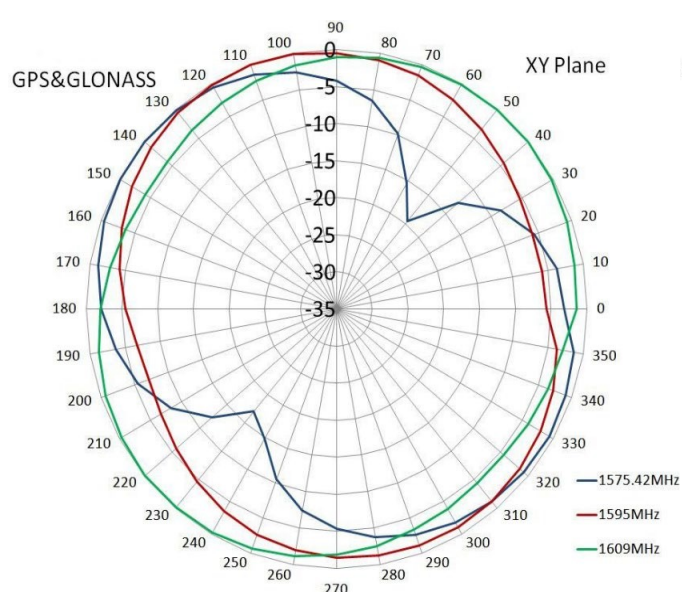


## Dimensions



### Radiation Patterns

#### GPS Antenna

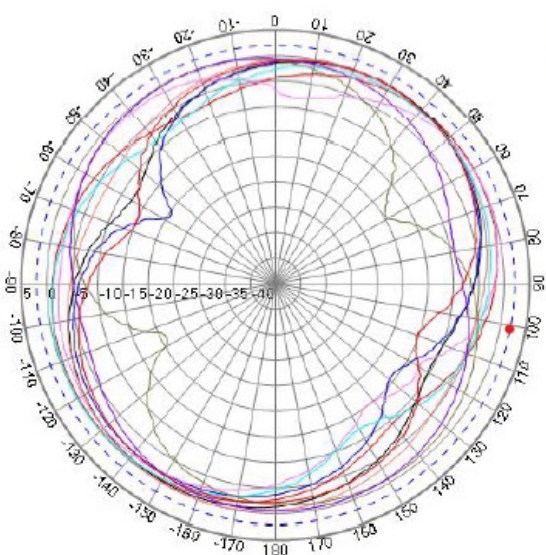


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## LTE Antenna



XY PLANE

Freq: 700

Freq: 824

Freq: 868

Freq: 960

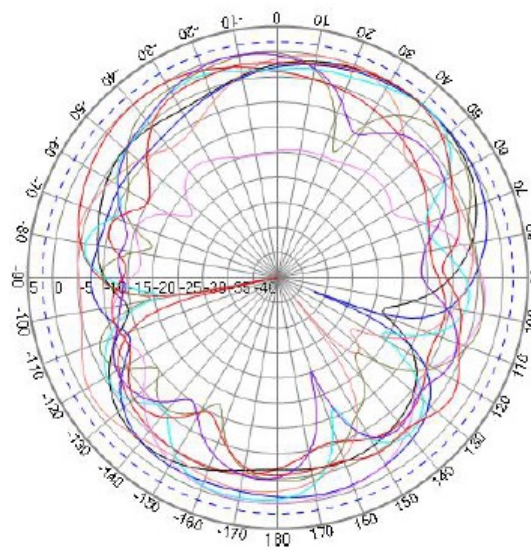
Freq: 1710

Freq: 1850

Freq: 1990

Freq: 2170

Freq: 2690



XZ PLANE

Freq: 700

Freq: 824

Freq: 868

Freq: 960

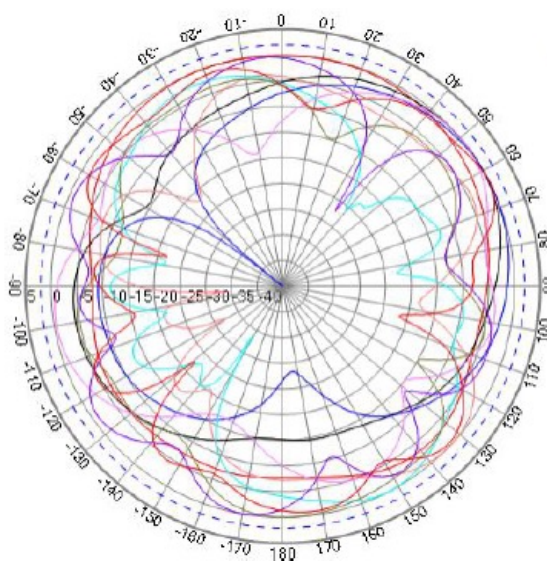
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Freq: 1850

Freq: 1990

Freq: 2170

Freq: 2690



YZ PLANE

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## WIFI Antenna

