

NANEA189X182DJVCGWM6C302A2F

GNSS, 5G MIMO & WIFI MIMO External Active Antenna



Description

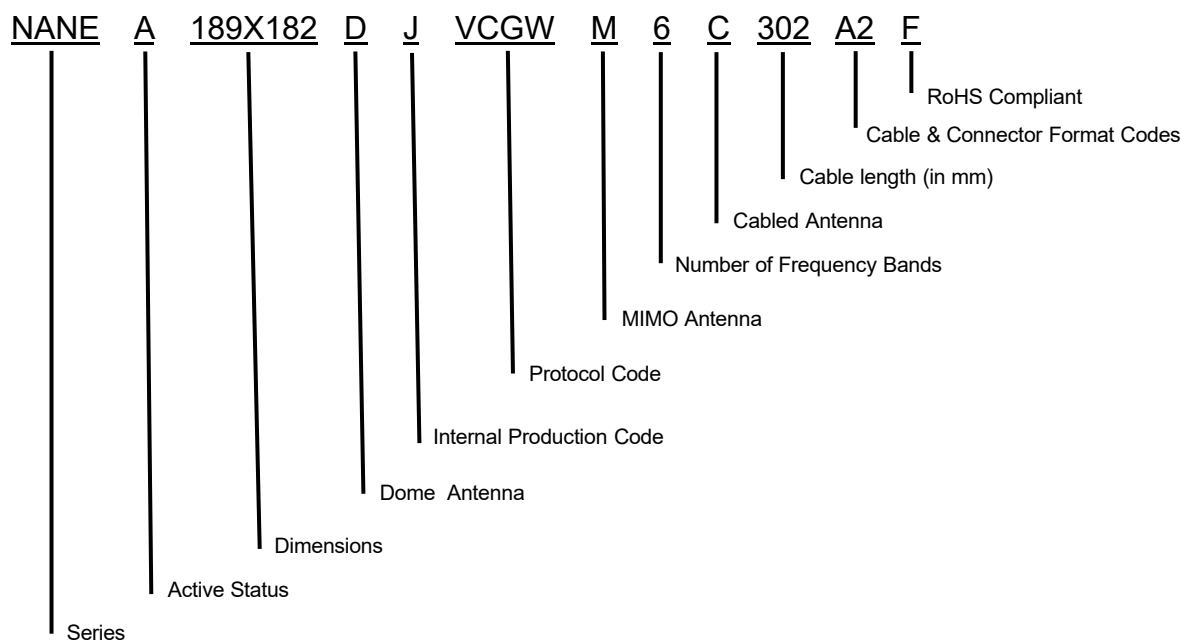
The NANEA189X182DJVCGWM6C302A2F is an External Active Antenna designed for GNSS, 5G MIMO and WIFI MIMO applications. It operates within the frequency ranges of 1561.098~1610MHz, 698~960MHz, 1710~2690MHz, 2900~3800MHz, 2400~2483.5 MHz and 4900~5925MHz making it perfect for Tracking, IoT, Gateways and Routers.



Features

- GNSS Protocol
- 5G MIMO + WIFI MIMO
- Waterproof(IP67)
- Customizable Connector Options and Cable Lengths
- RoHS Complaint

Part Number Breakdown



Part Number Options

Part Number	Protocol	Connector	Cable Type	Cable Length
NANEA189X182DJVCGWM6C302A2F	GNSS, 5G MIMO, WIFI MIMO	SMA MALE	LMR100	3000 mm

The table represents assembled part numbers available on www.niccomp.com. For options not listed above please contact NIC



Specifications

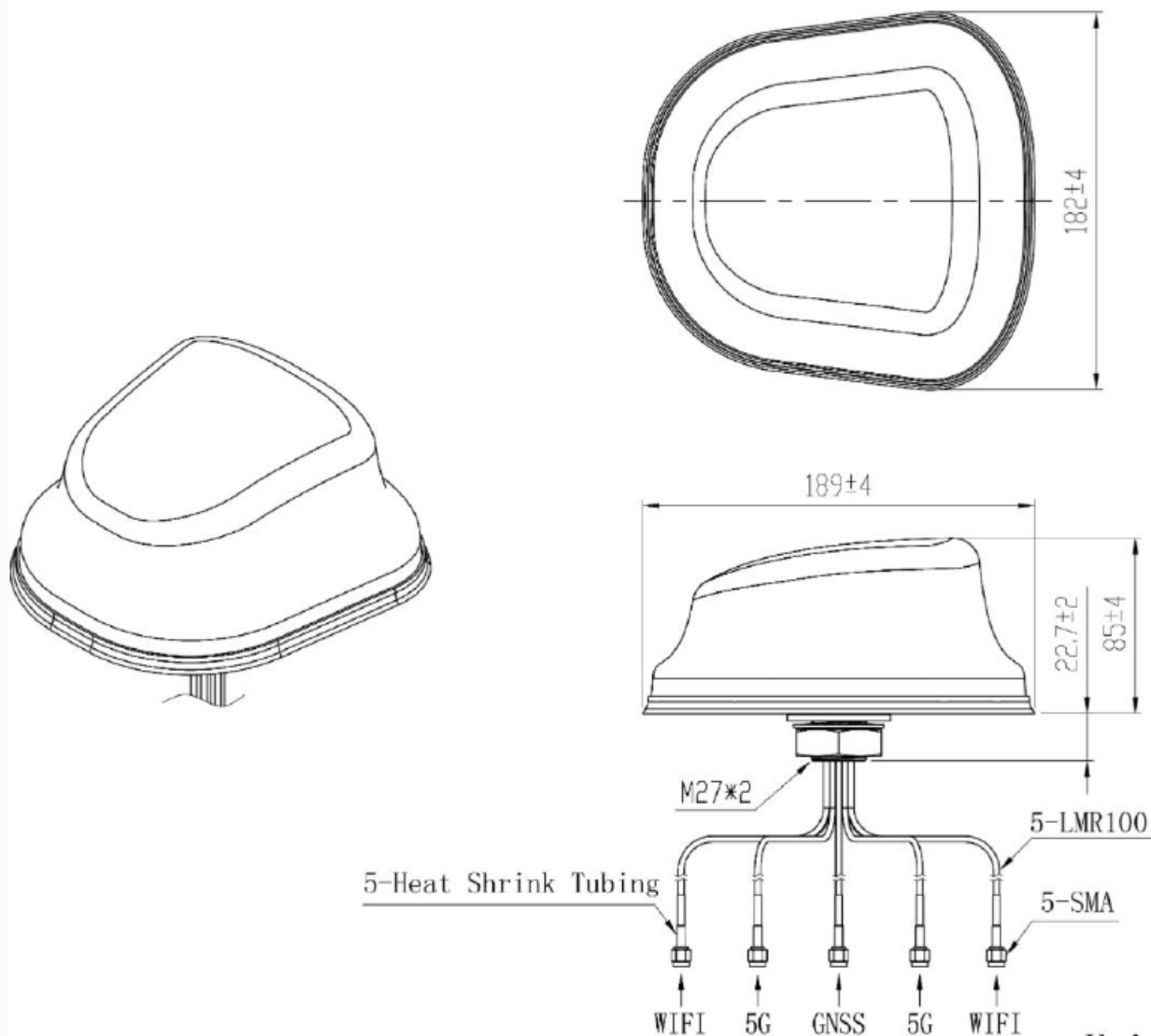
Electrical		
Antenna	GNSS	
Frequency Range	1561.098 ~ 1610 MHz	
Internal Patch Antenna Dimensions	25 x 25 x 4 mm*	
Gain	28 ± 2dB	
Noise Figure	≤ 1.5 dB	
Supply Voltage	3~5V DC	
Current Consumption	< 15mA	
V.S.W.R.	< 2.0	
Polarization	RHCP	
Impedance	50 Ω	
Antenna	5G MIMO	WiFi MIMO
Frequency Range	698~960 MHz 1710~2690 MHz 2900~3800MHz	2400 ~2483.5 MHz 4900~5925 MHz
V.S.W.R	<3.0	<2.5
Gain	4 dBi (typ.)	
Polarization	Linear	
Impedance	50 Ω	
Environmental		
Operating Temperature	-40°C~+85°C	
Relative Humidity	Up to 95%	
Ingress Protection	IP67 (exclude cable outlet)	
Vibration	10 to 55Hz with 1.5mm amplitude 2hours	
Material	PC / ABS	
Mounting method	Screw	
ROHS Compliant	Yes	

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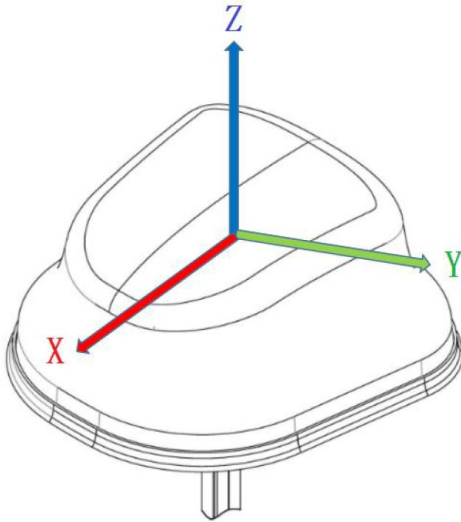


Dimensions



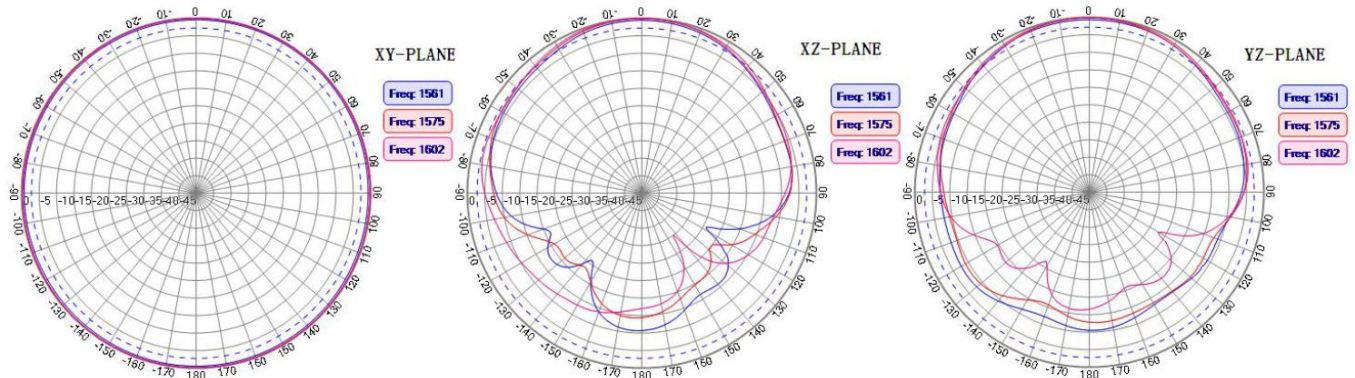
Unit:mm

Radiation Patterns

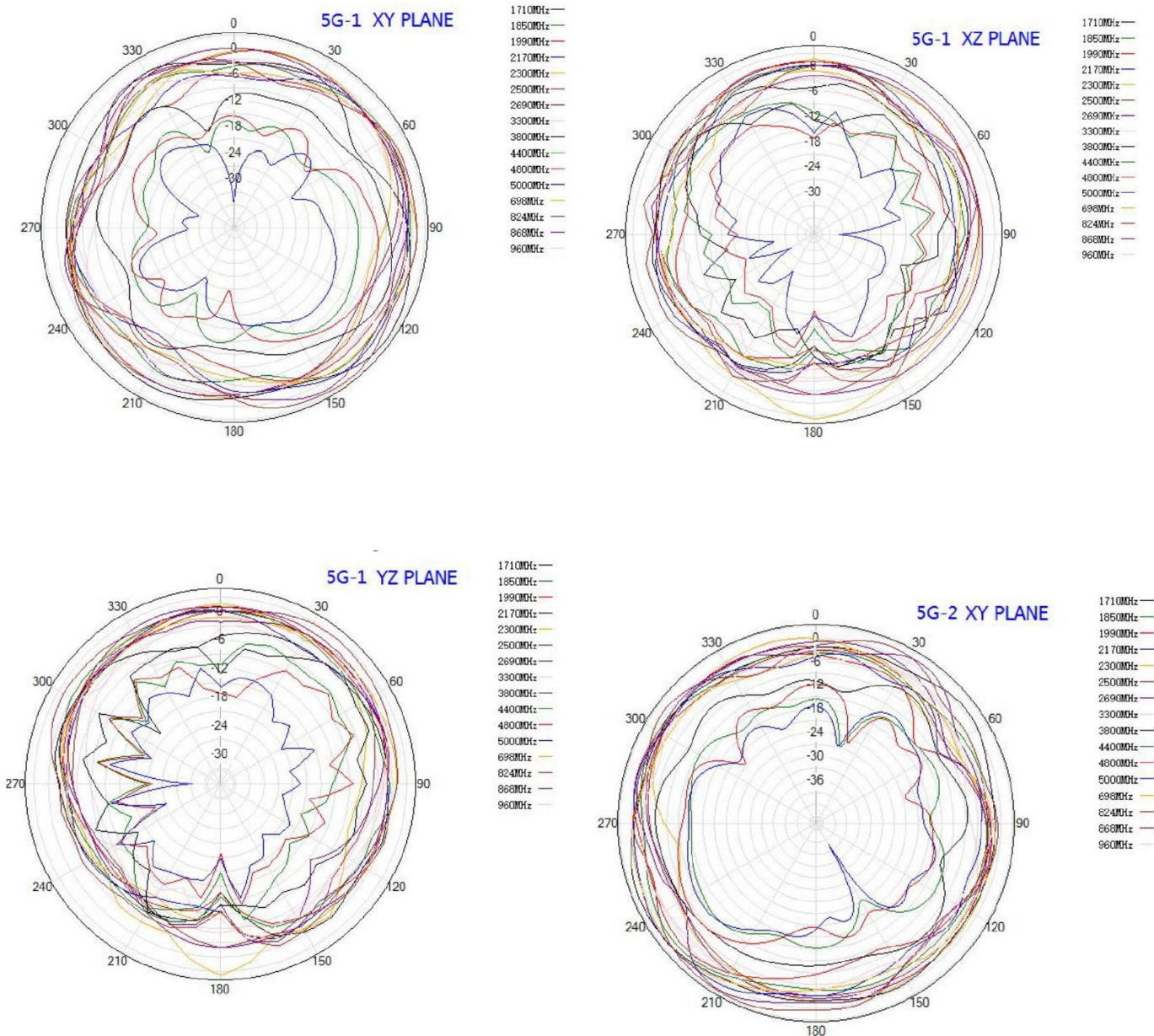


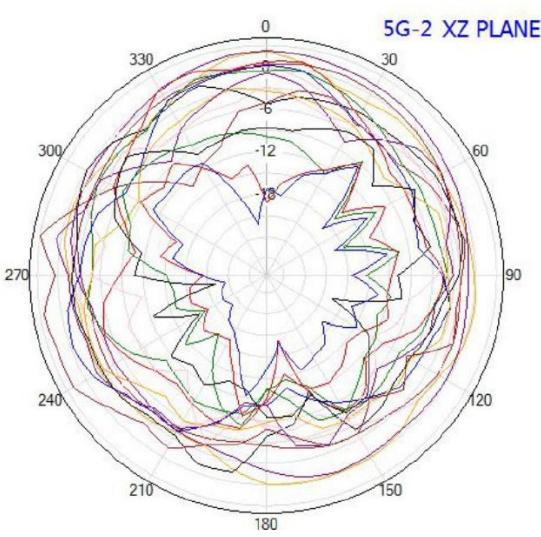
5G NR Antenna

GNSS Antenna

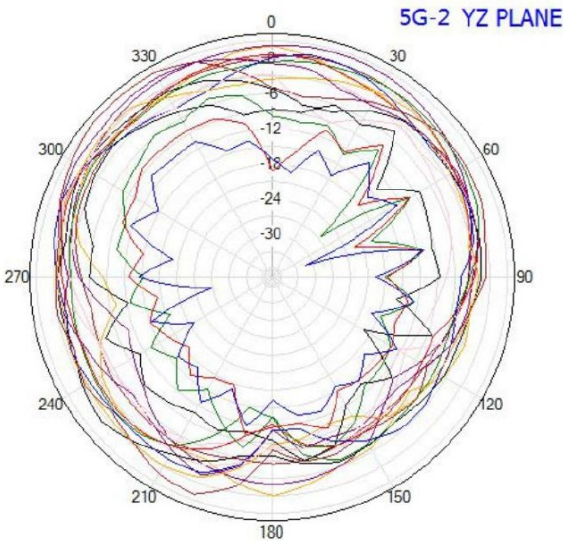


5G NR Antenna



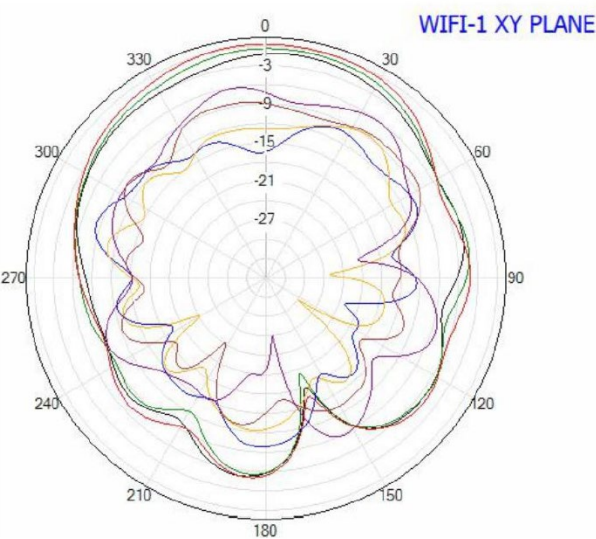


1710MHz
1850MHz
1990MHz
2170MHz
2300MHz
2500MHz
2690MHz
3300MHz
3800MHz
4400MHz
4800MHz
5000MHz
6980MHz
8240MHz
8680MHz
9600MHz

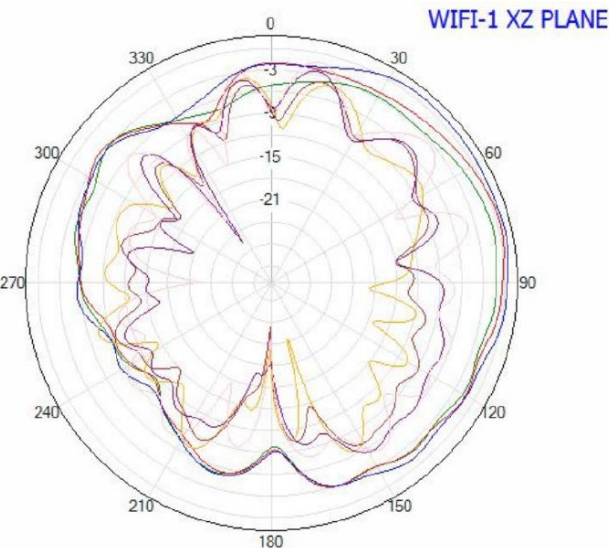


1710MHz
1850MHz
1990MHz
2170MHz
2300MHz
2500MHz
2690MHz
3300MHz
3800MHz
4400MHz
4800MHz
5000MHz
6980MHz
8240MHz
8680MHz
9600MHz

WIFI Antenna



2400MHz
2440MHz
2483MHz
4900MHz
5200MHz
5500MHz
5800MHz



2400MHz
2440MHz
2483MHz
4900MHz
5200MHz
5500MHz
5800MHz

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