

NANEA189x182DJVCWM6CF

GNSS (L1), LTE MIMO & WIFI MIMO Active External Antenna



Description

NANEA189X182DJVCWM6CF is an External Antenna designed for Cellular applications. It operates within the frequency range of 1561.098 ~ 1606 MHz, 698~960 MHz, 1710~2690 MHz, 2900~3600MHz, 2400 ~2483.5 MHz, and 4900~5825 MHz making it perfect for use in Tracking, IoT, Gateways and Routers

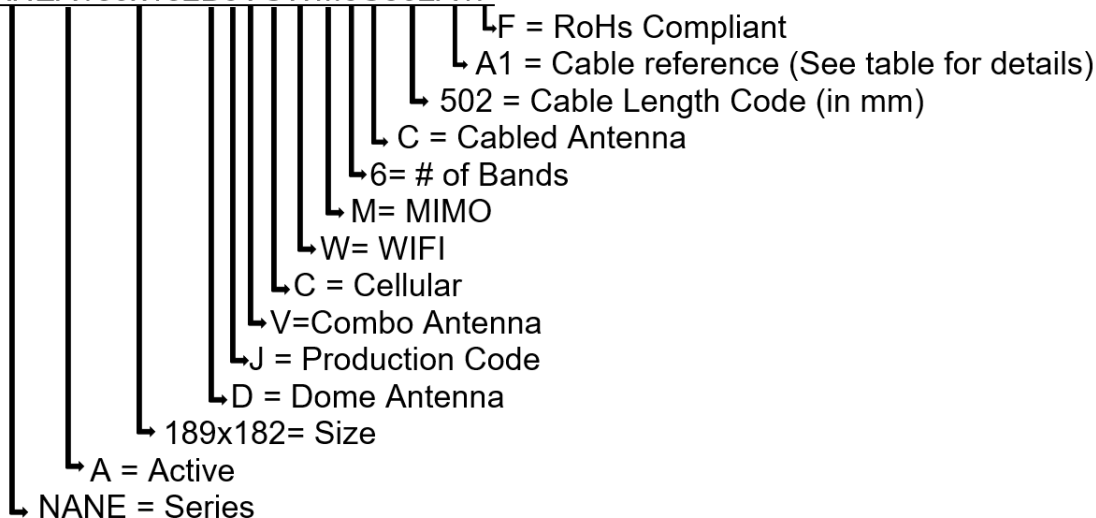
Features

- GPS L1 & Glonass G1
- LTE MIMO + WIFI MIMO
- Waterproof(IP67)
- Customizable Connector Options and Cable Lengths
- RoHs Complaint



Part Number Breakdown

NANEA189x182DJVCWM6C502A1F



Part Number Options

Part Number	Protocol	Connector	Cable Type	Cable Length
NANEA189x182DJVCWM6C302A0F	GPS, 2x LTE & 2x WIFI	SMA MALE	RF174	3000 mm
NANEA189x182DJVCWM6C302A1F	GPS, 2x LTE & 3x WIFI	SMA MALE	RF174	3000 mm
NANEA189x182DJVCWM6C502A0F	GPS, 2x LTE & 2x WIFI	SMA MALE	RF174	5000 mm
NANEA189x182DJVCWM6C502A1F	GPS	RP-SMA MALE	RG58	5000 mm
	2x LTE	SMA MALE	RG174	
	2x WIFI	SMA MALE	RG58	

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

Performance Passives By Design

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Specifications

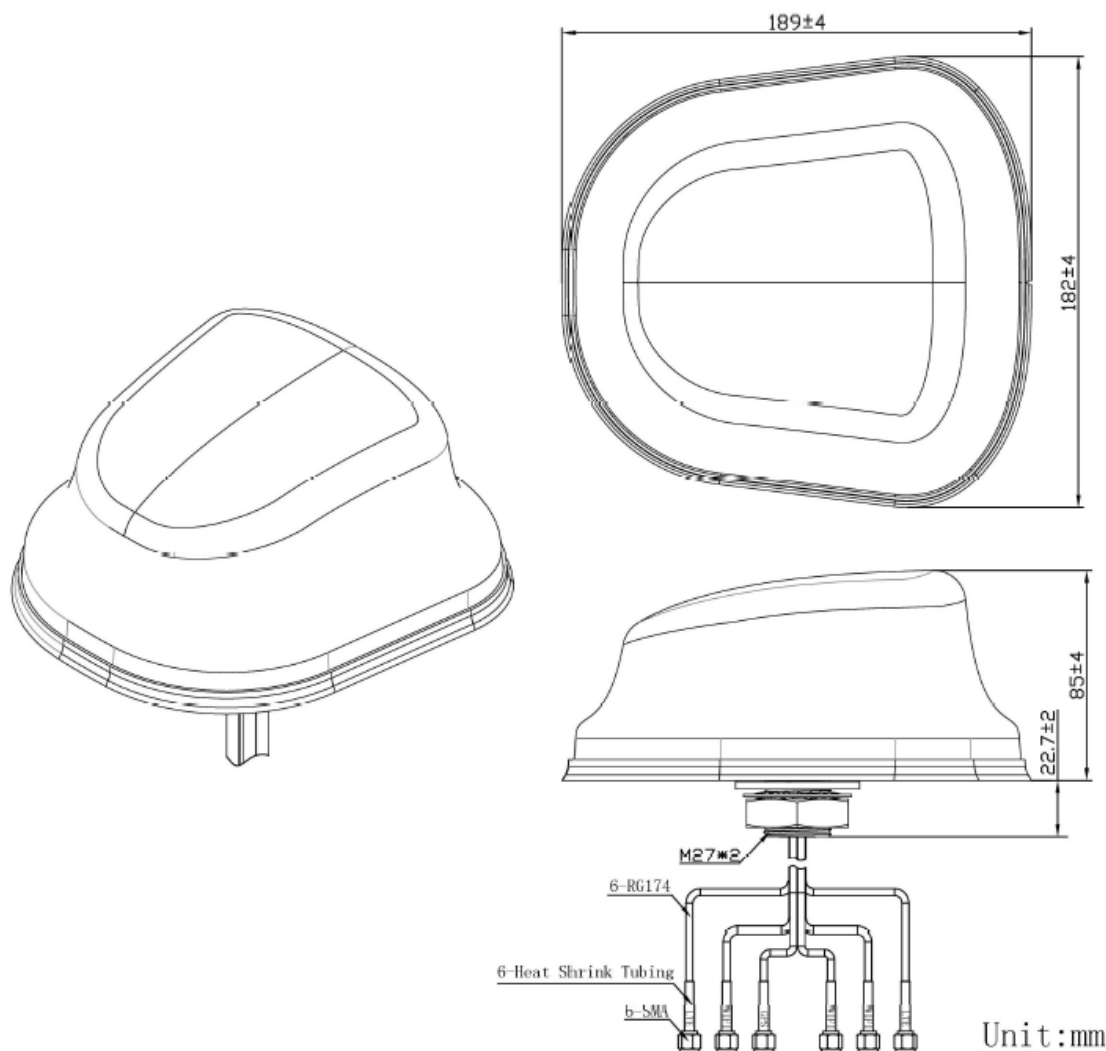
Electrical		
Antenna	GNSS	
Frequency Range	1561.098 ~ 1606 MHz	
Polarization	RHCP	
Impedance	50 Ω	
Dimension	25 x 25 x 4 mm*	
Gain	28 ± 2dB	
Noise Figure	≤ 1.5 dB	
Supply Voltage	3~5V DC	
Current Consumption	< 15mA	
V.S.W.R.	< 2.0	
Antenna	LTE MIMO	WiFi MIMO
Frequency Range	698~960 MHz 1710~2690 MHz 2900~3600MHz	2400 ~2483.5 MHz 4900~5825 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	
Mounting method	Screw	
ROHS Compliant	Yes	

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Dimensions

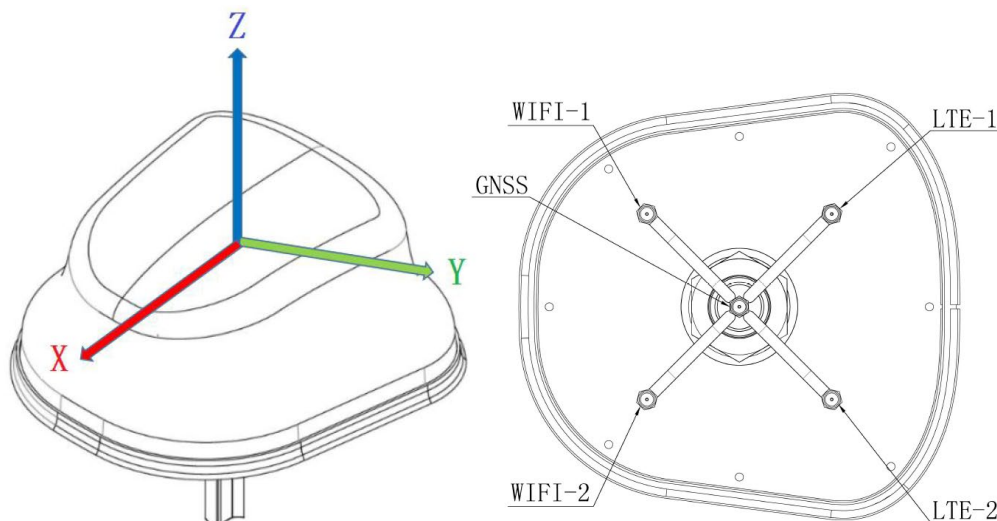


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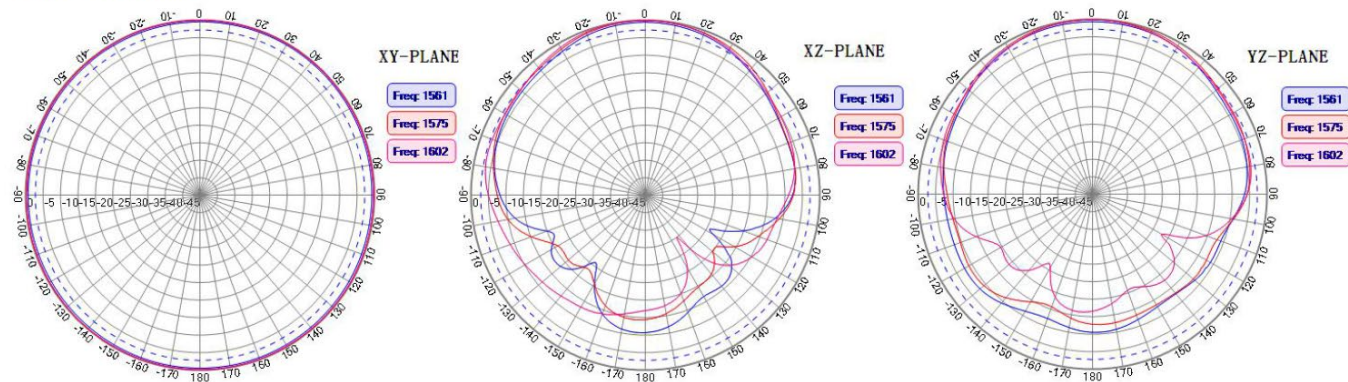
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Radiation Patterns



GNSS Antenna



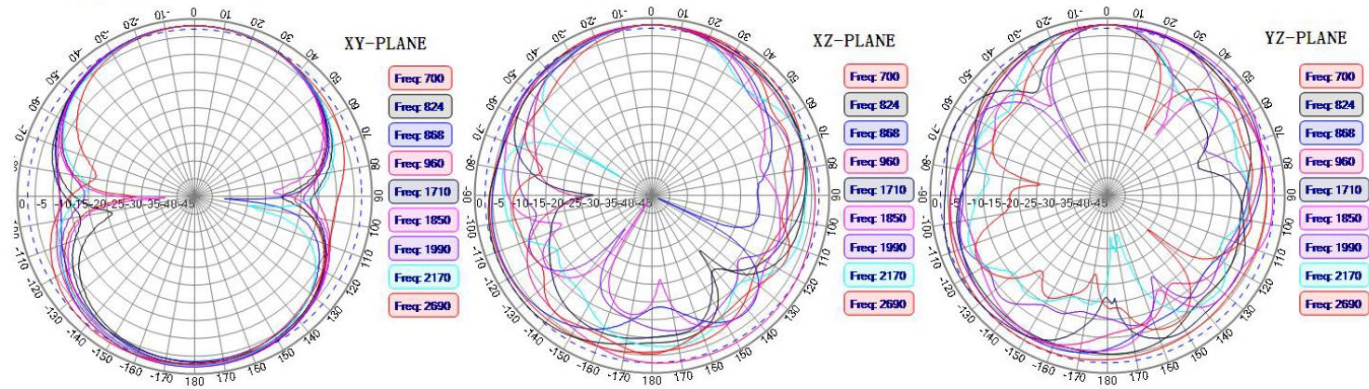
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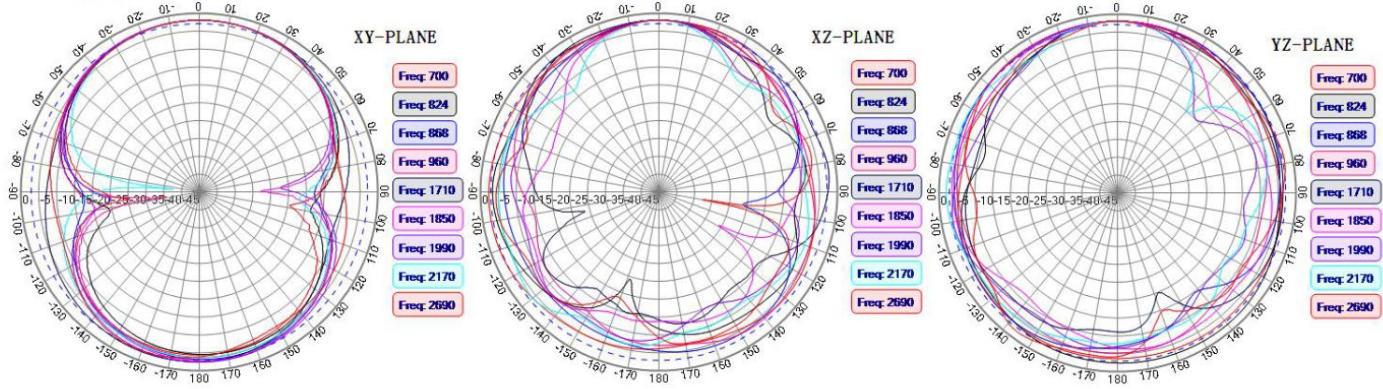


LTE Antenna

LTE -1



LTE -2



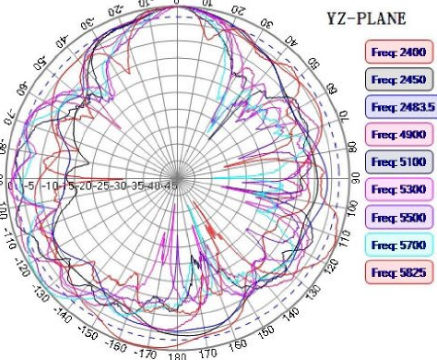
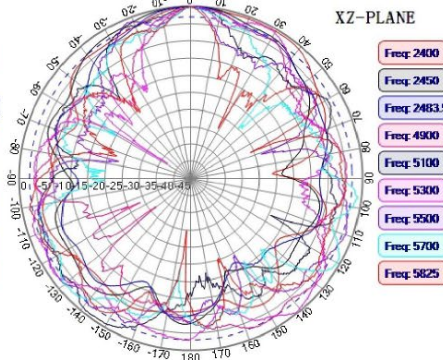
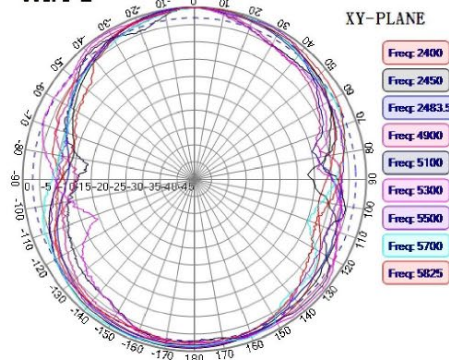
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WIFI Antenna

WIFI-1



WIFI-2

