

NANEA110X18PJVCGWM5C302A0F

GNSS+ LTE MIMO + WIFI Active Antenna



Description

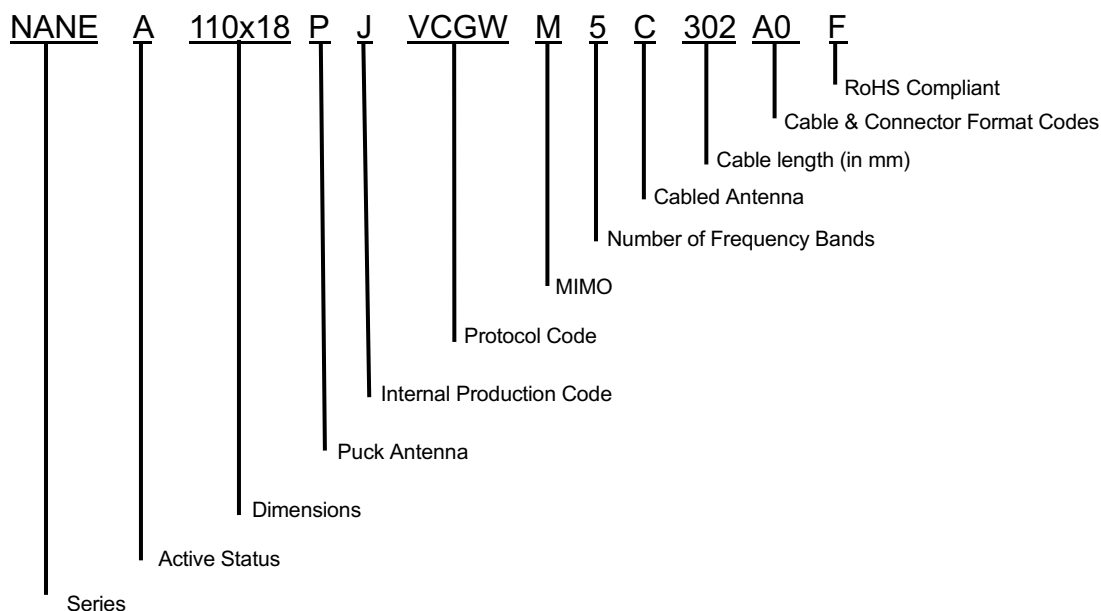
NANEA110X18PJVCGWM5C302A0F is an External Active Antenna designed for GNSS, LTE & WIFI applications. It operates within the frequency ranges of 1561 MHz, 698 ~960 MHz, 1710 ~2690 MHz, 2400~2483.5MHz & 4900~5825MHz making it perfect for IoT, Gateways and Routers



Features

- GNSS + LTE MIMO + WIFI protocol
- Waterproof (IP67)
- Customizable Cable & Connectors
- RoHS Compliant

Part Number Breakdown



Assembly Ref	Protocol	Connector Type	Cable Type	Cable Length
A0	GNSS, LTE & WIFI	SMA Male	RG174	3000 mm



Specifications

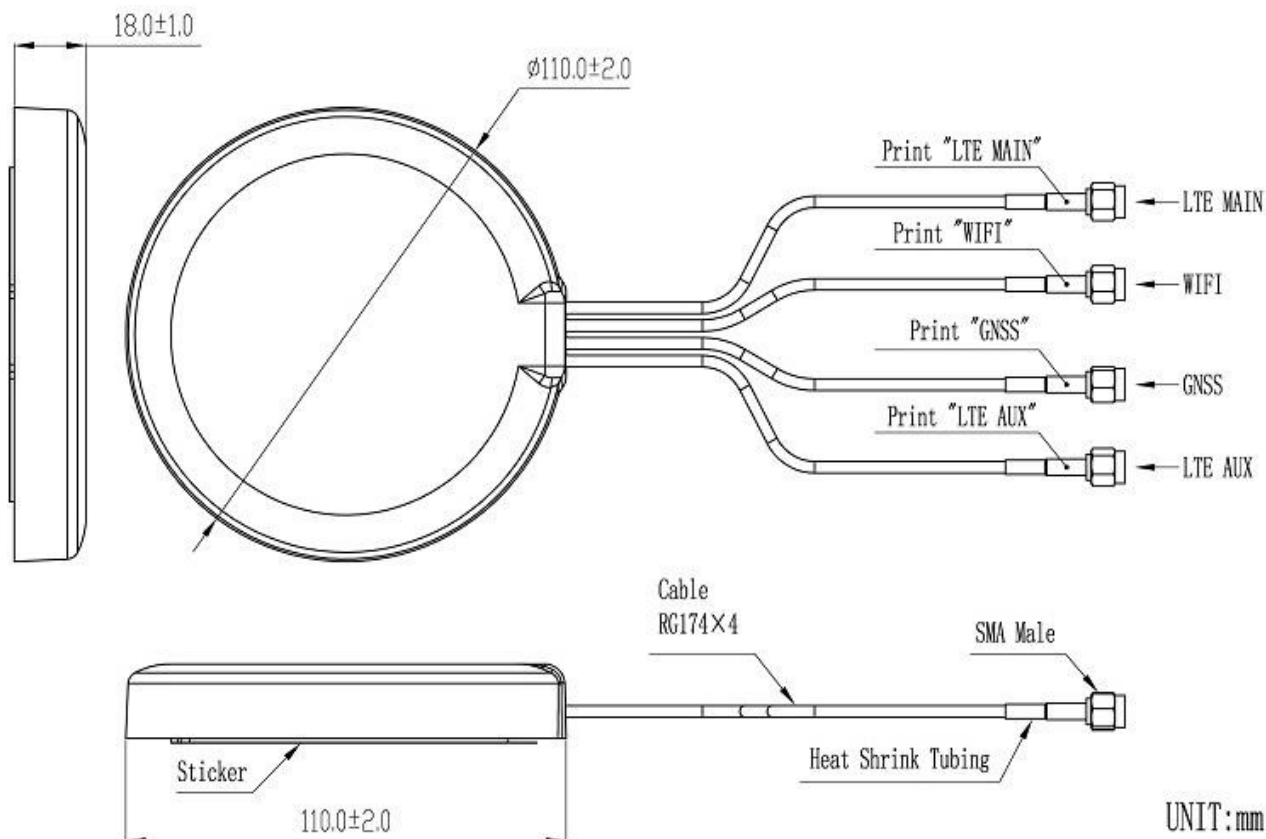
Electrical	
GNSS	
Frequency Range	1561.098 ~ 1602 MHz
Polarization	RHCP
Gain	5 dBic (max.)
Axial Ration	3 dB
V.S.W.R	<1.5
Impedance	50Ω
LNA	
Gain	28 ± 2dB
Noise Figure	≤ 1.5 dB
V.S.W.R.	< 2.0
Supply Voltage	3~5V DC
Current Consumption	< 20mA
LTE MIMO	
Frequency Range	698 ~960 MHz 1710 ~2690 MHz
V.S.W.R	< 3.0
Polarization	Linear
Gain	2 dBi
Impedance	50Ω
WIFI	
Frequency Range	2400~2483.5MHz 4900~5825MHz
V.S.W.R	< 2.0
Polarization	Linear
Gain	3 dBi
Impedance	50Ω
Material	ABS
Mounting Method	Adhesive / Magnet
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
RoHS Compliant	Yes

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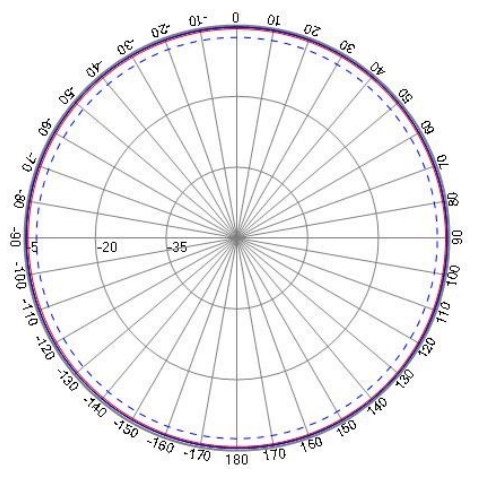


Dimensions



Radiation Patterns

GNSS Antenna

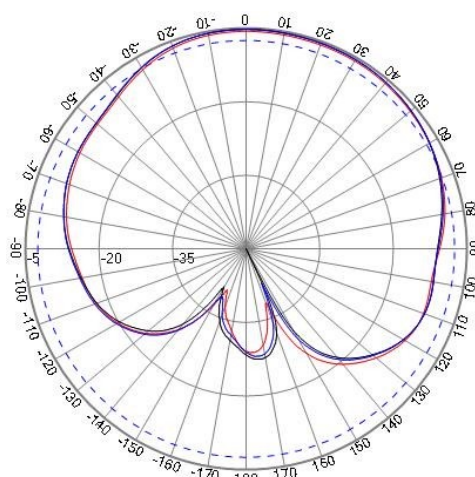


XY-PLANE

Freq: 1602

Freq: 1561

Freq: 1575

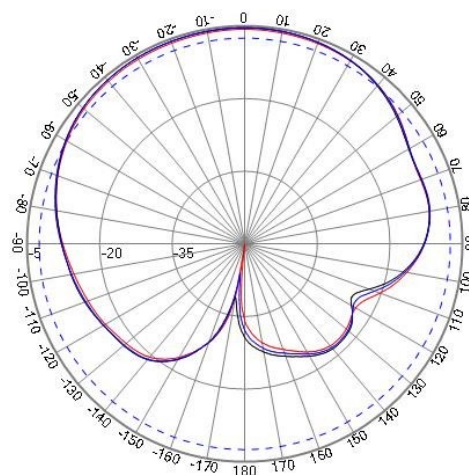


XZ-PLANE

Freq: 1602

Freq: 1561

Freq: 1575



YZ-PLANE

Freq: 1602

Freq: 1561

Freq: 1575

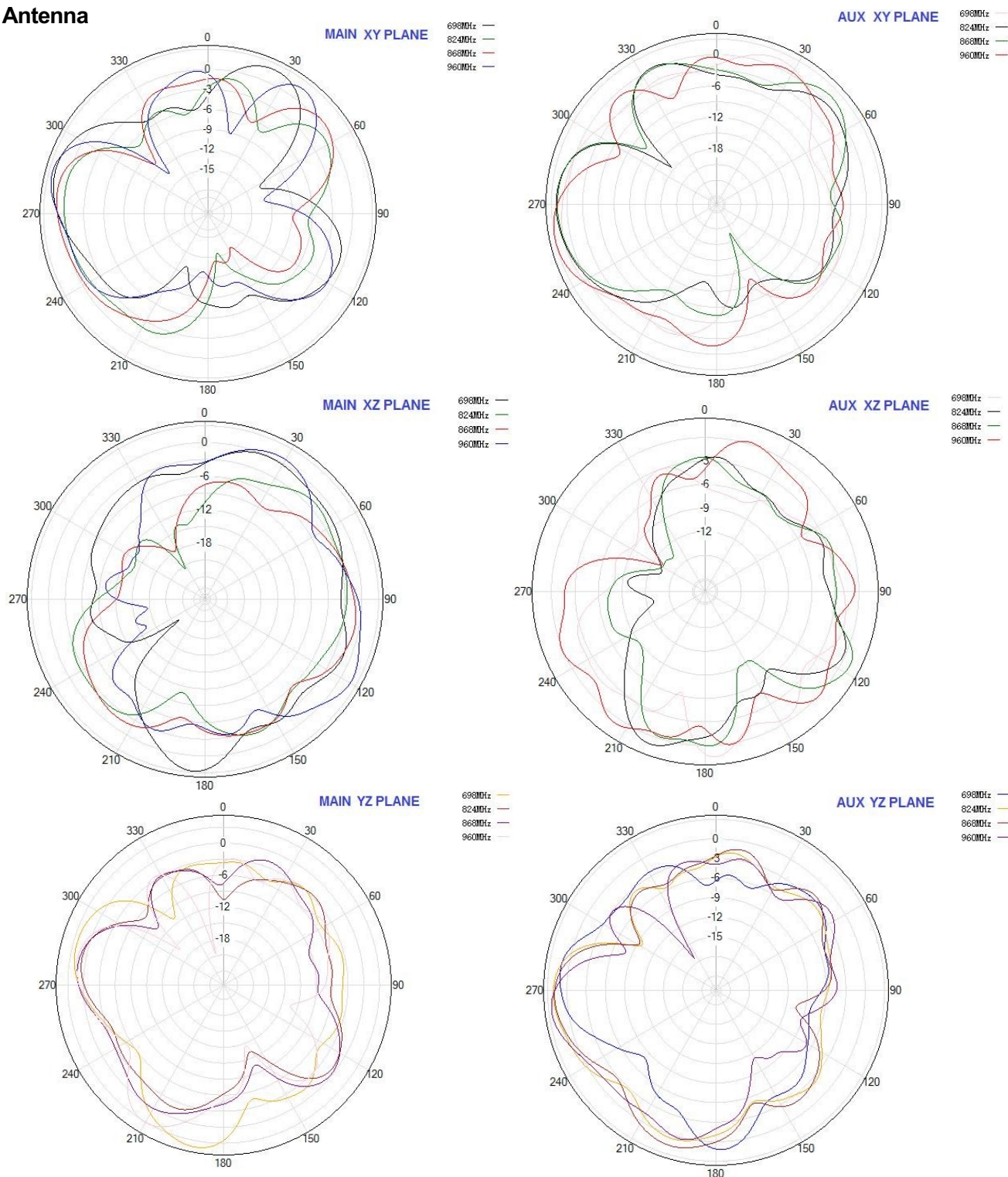


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LTE Antenna



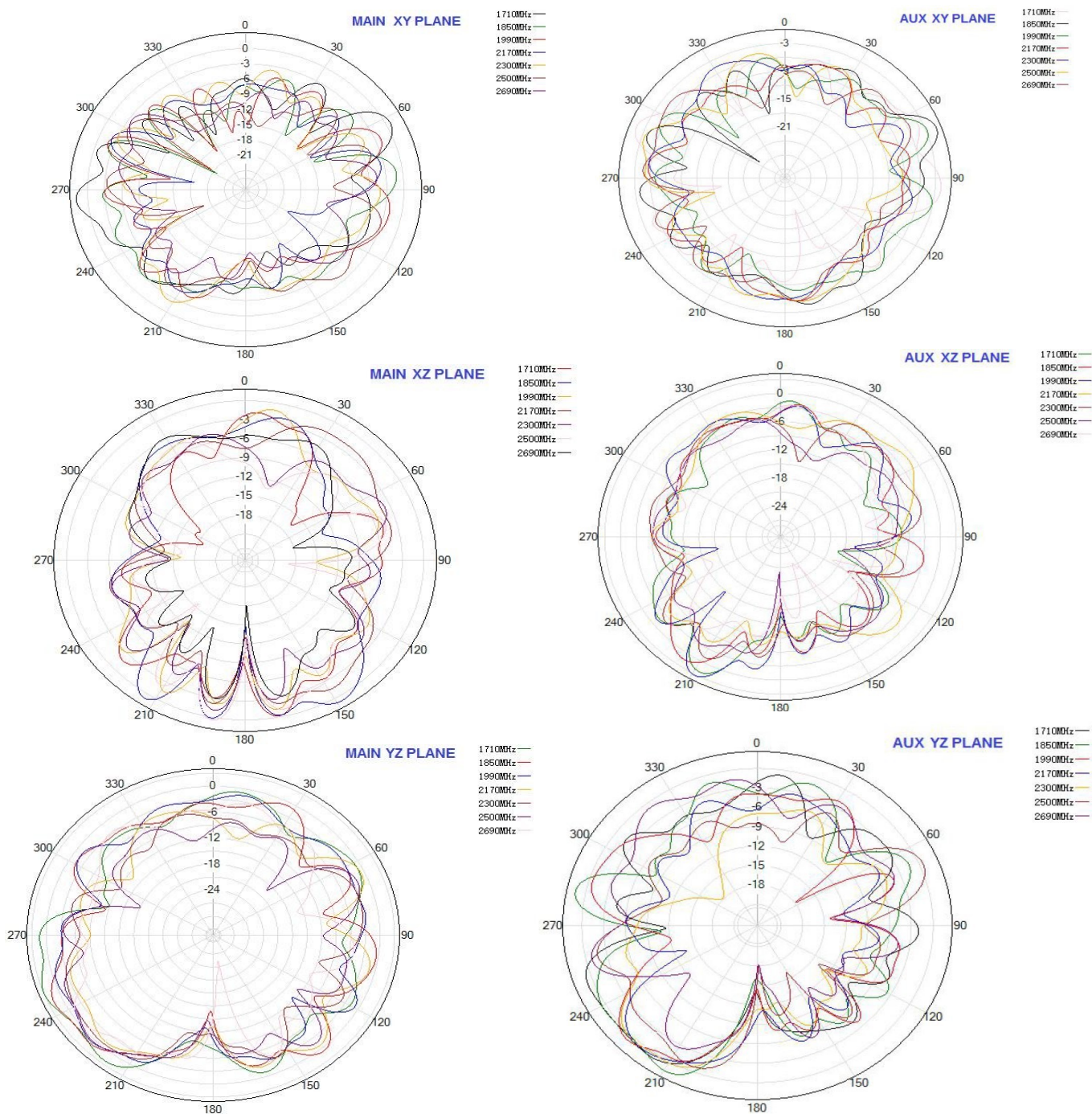
Performance Passives By Design

NIC Components Corp.
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Page 5
www.niccomp.com

Last Updated 12/13/23. Specification subject to change without notice. Please check web site or contact NIC for latest information

LTE Antenna Cont'd



WIFI Antenna

