

NANEA50X50PJG2C302A0F

1575 MHz GNSS & GLONASS Active External Antenna



Description

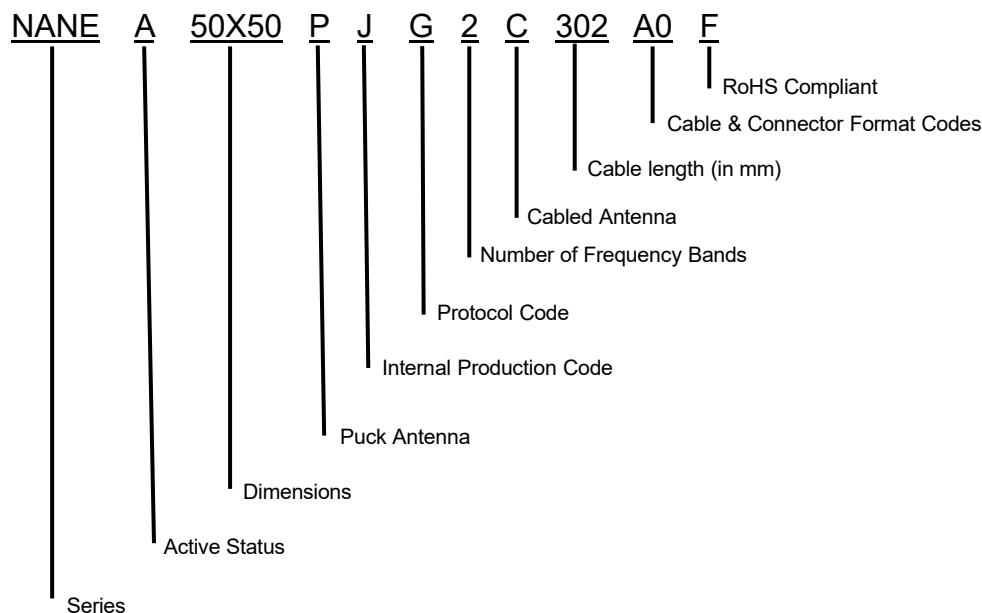
The NANEA50X50PJG2C302A0F is an External Active Antenna designed for GNSS + GLONASS applications. It operates within the frequency ranges of 1176~1207MHz and 1561.098 ~ 1602MHz making it perfect for Fleet Management & Tracking.



Features

- GNSS + GLONASS protocol
- High Accuracy
- Waterproof (IP67)
- Customizable Cable & Connectors
- RoHS Complaint

Part Number Breakdown



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

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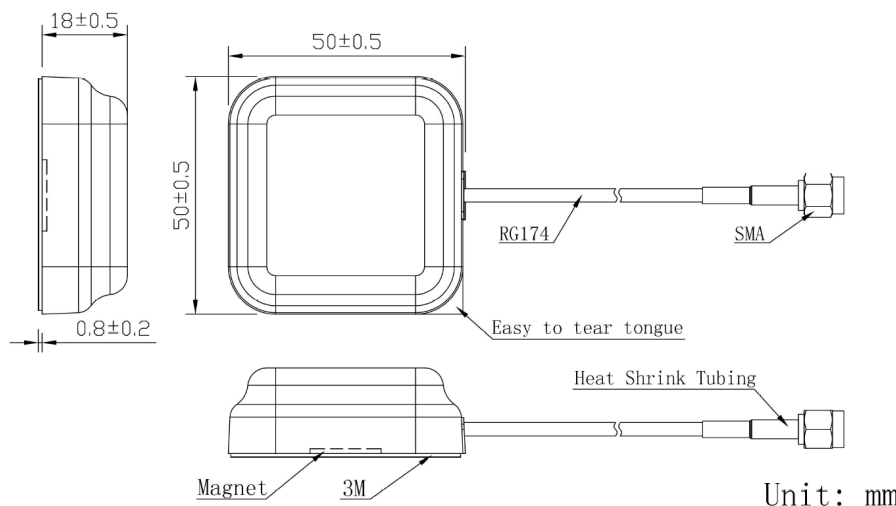
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Specifications

Electrical		
Frequency Range	High Band BDS-B1/GPS-L1/GLONASS G1: 1561.098~1602MHz	Low Band BDS-B2/GPS-L5: 1176~1207MHz
Gain	3 dBic @ PCB (Zenith)	
V.S.W.R	<1.5	
Polarization	RHCP	
Impedance	50Ω	
LNA		
Gain	28 ± 2dB	
Noise Figure	≤ 1.0 dB	
Supply Voltage	3 – 5V DC	
Current Consumption	< 45mA	
V.S.W.R.	< 2.0	
Environmental		
Operating Temperature	-40°C~+85°C	
Relative Humidity	Up to 95%	
Ingress Protection	IP67	
Vibration	10 ~ 55Hz 1.5mm Amplitude 2 Hours	
Mounting Method	Magnet / Adhesive	
Radome Material	ABS	
RoHS Compliant	Yes	

Dimensions



Performance Passives By Design

NIC Components Corp.
100 Baylis Road. Melville, NY 11747

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www.niccomp.com

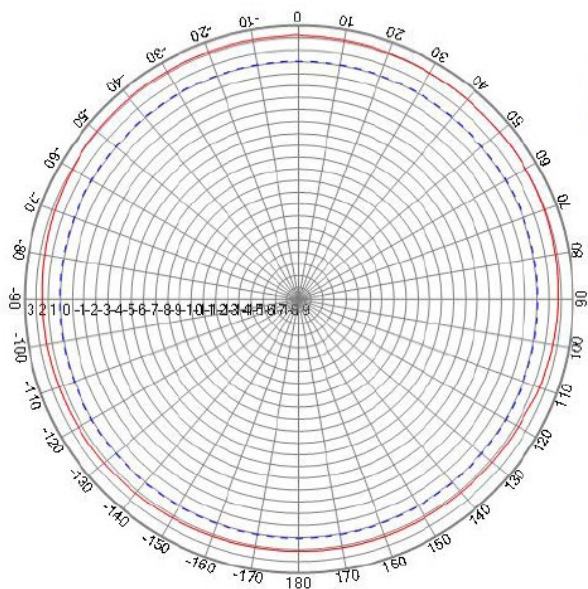
Last Updated 12/20/2023. Specification subject to change without notice. Please check web site or contact NIC for latest information

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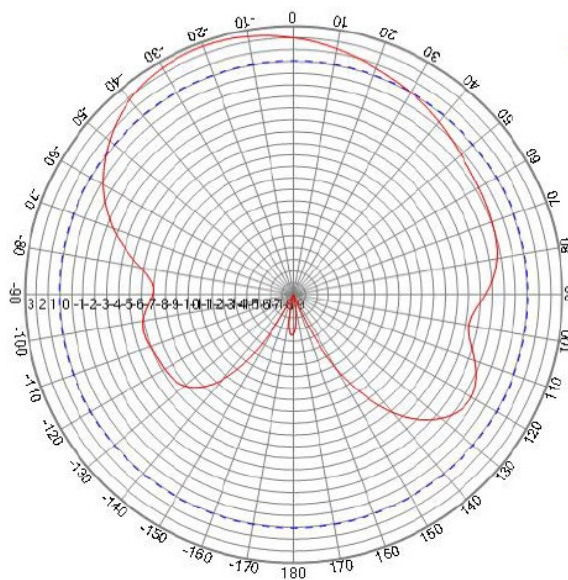


RADIATION PATTERN



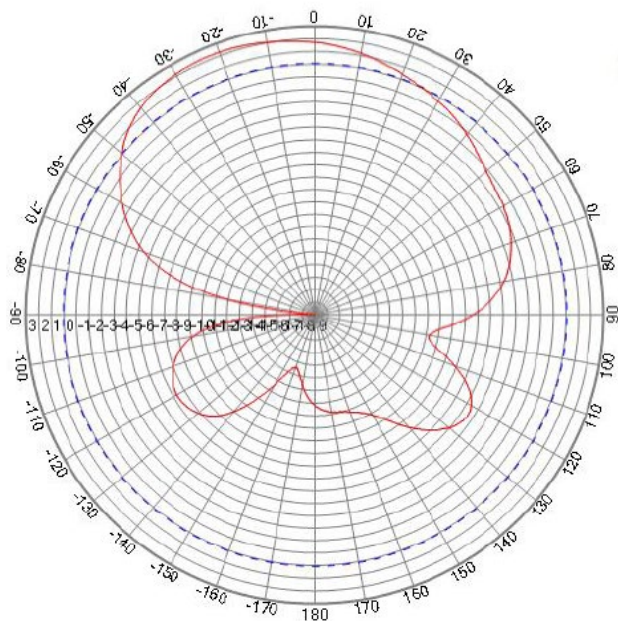
XY-Plane

Freq: 1575



XZ-Plane

Freq: 1575

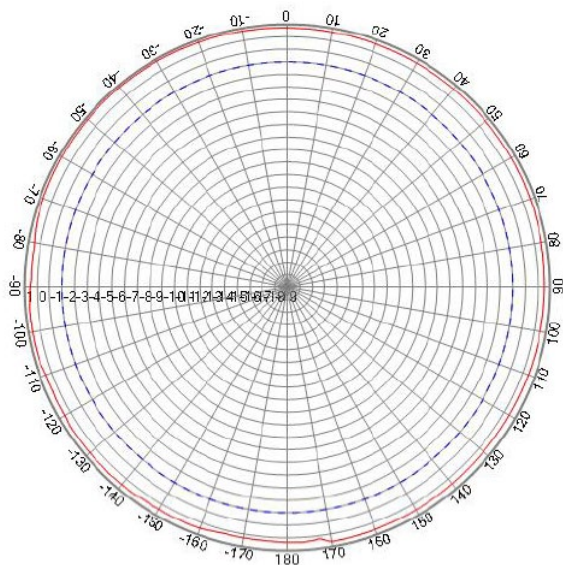


YZ-Plane

Freq: 1575

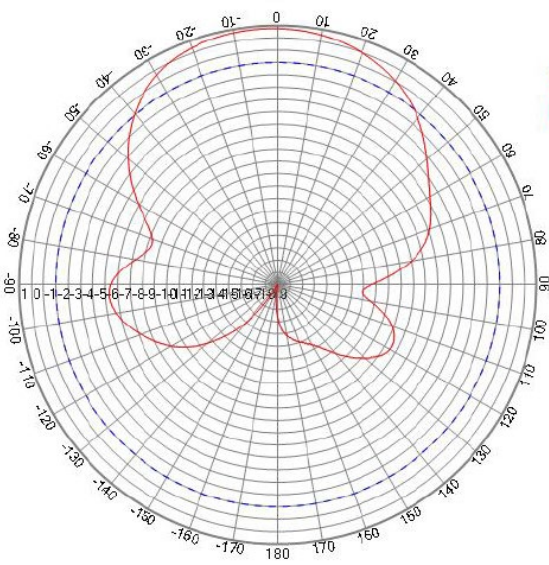
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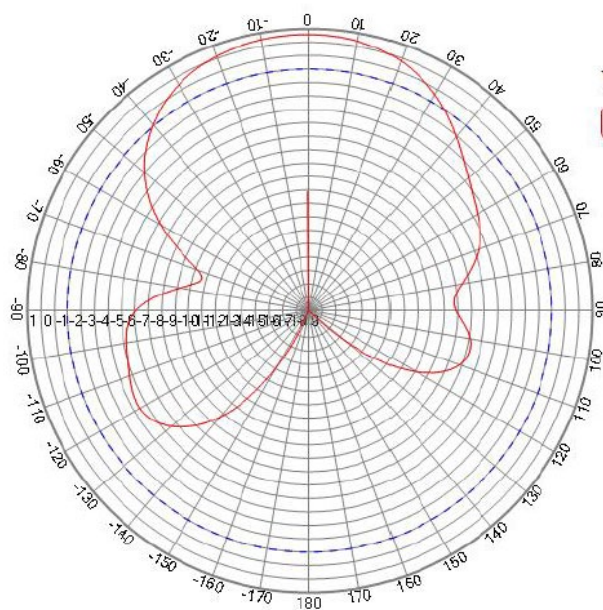
XY-Plane

Freq: 1176



XZ-Plane

Freq: 1176



YZ-Plane

Freq: 1176