

NANEA110X53DJG2C302A0F

L1, L2 & L3 GPS Active External Antenna



Description

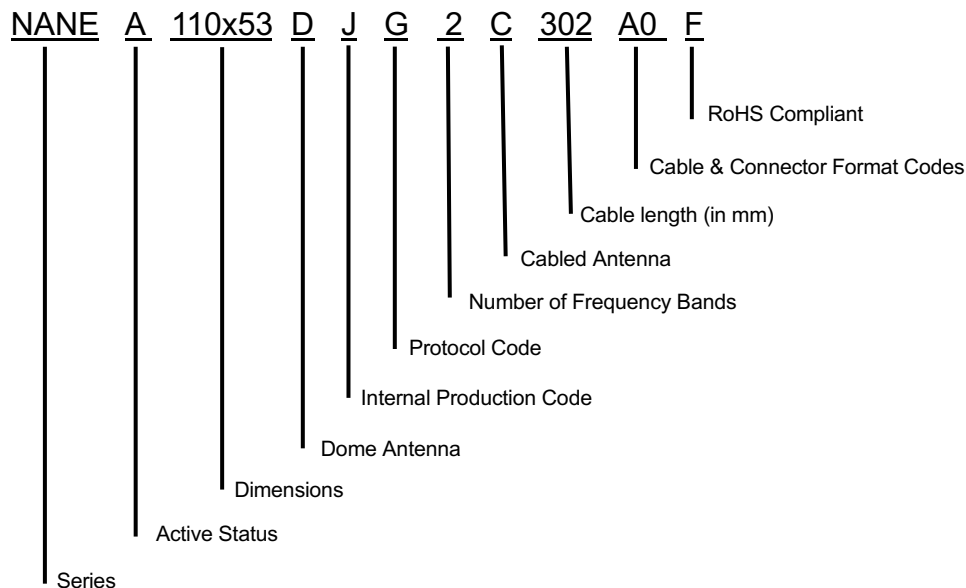
The NANEA110X53DJG2C302A0F is an External Active Antenna designed for GNSS applications. It operates within the frequency ranges of 1176 ~ 1278 MHz & 1535~1602 MHz making it perfect for Fleet Tracking, Autonomous Driving and Agriculture.



Features

- L1, L2 & L3 GPS protocols
- Waterproof (IP67)
- Dual-band Frequency
- Covers all Major GNSS Bands
- High Accuracy
- Customizable Cable & Connectors
- 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

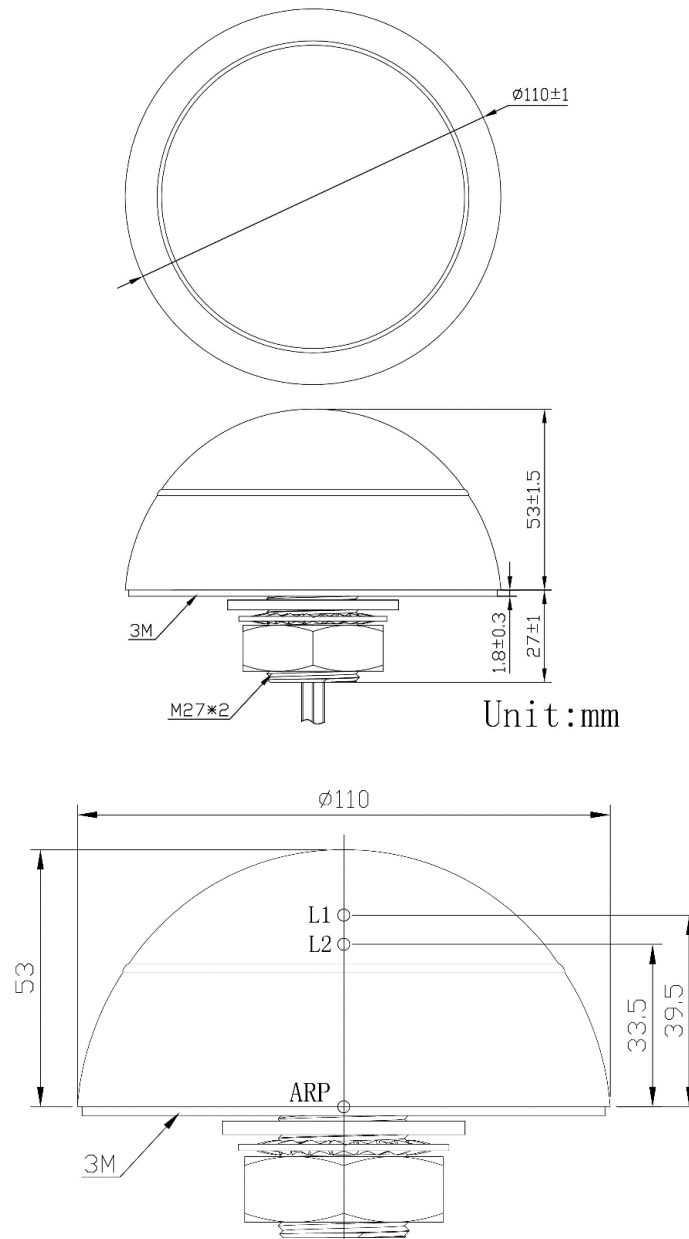
Electrical	
Frequency Range	1535~1602 MHz 1176 ~ 1278 MHz
Frequency Bands	GPS L1/L2/L5 GLONASS G1/G2/G3 COMPASS B1/B2/B3 Galileo E1/L1/E2/E5a/E5b/E6
Polarization	RHCP
Gain	≥ 4dBi
Axial Ration	≤ 3dB
V.S.W.R	≤1.5
Impedance	50Ω
Phase Center Error	± 2mm
Horizontal Coverage angle	360
LNA	
Gain	40 ± 2dB
Noise Figure	≤1.5 dB
Passband Fluctuation	±1.5 dB
Supply Voltage	3~12V DC
Current Consumption	≤ 60mA
V.S.W.R.	≤ 2.0
Radome Material	ASA
Mounting Method	Screw
Environmental	
Operating Temperature	-40°C~+85°C
Relative Humidity	Up to 95%
Ingress Protection	IP67 (excludes cable outlet)
RoHS Compliant	Yes

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Dimensions



Unit:mm

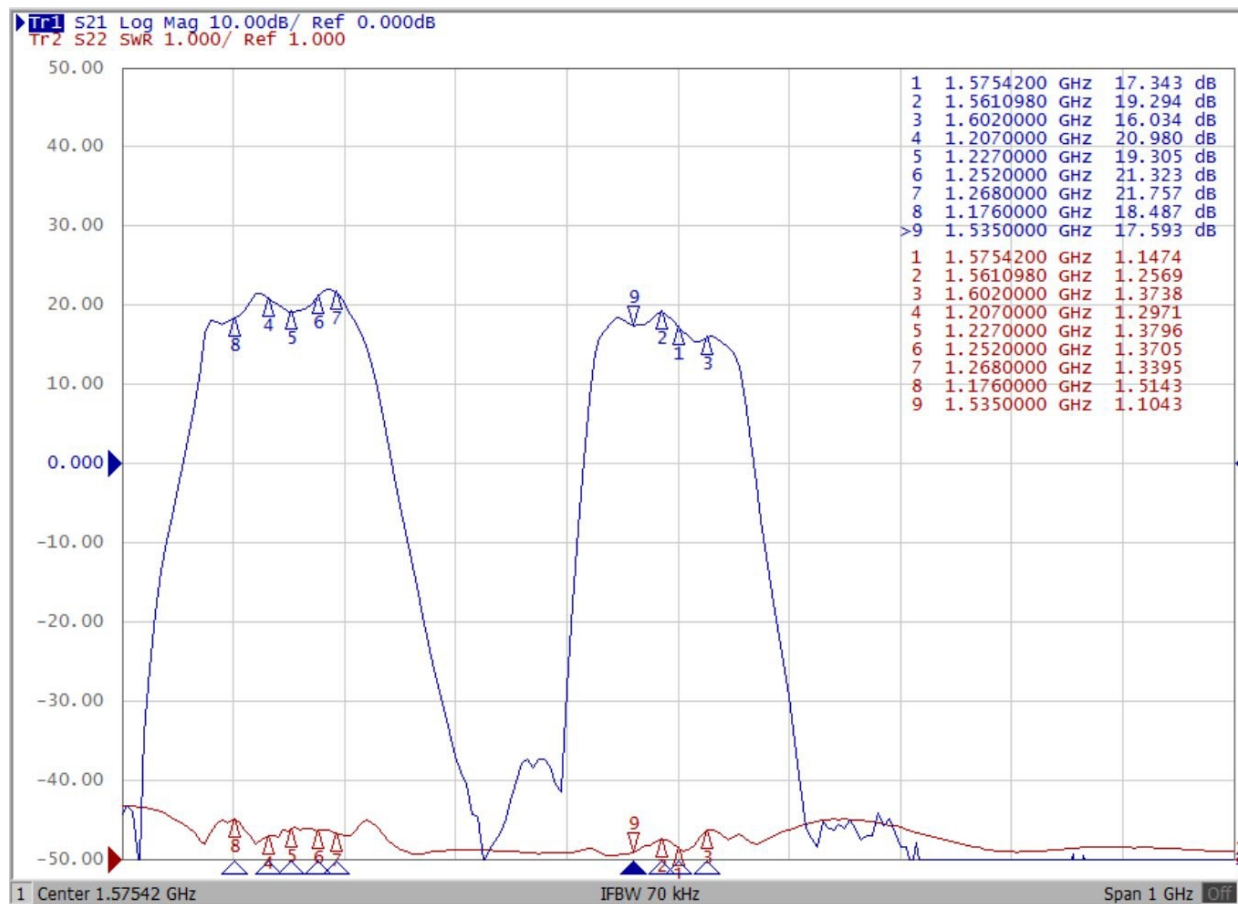
Mechanical Offsets Units in “mm”

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VSWR



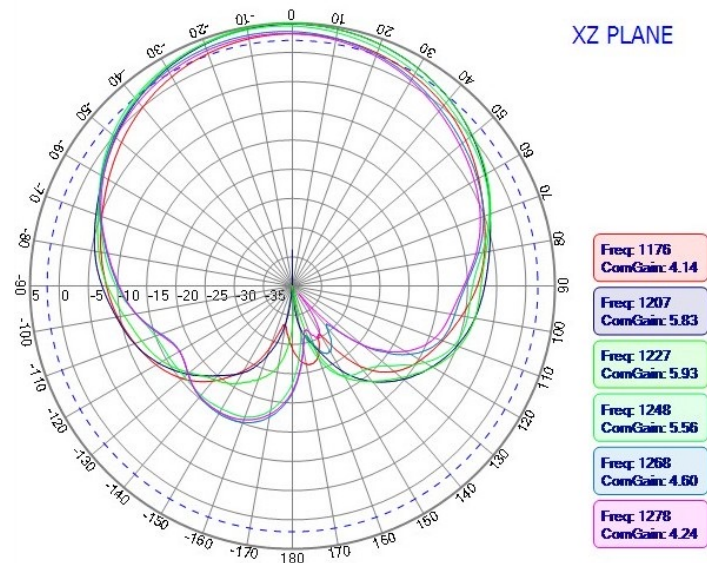
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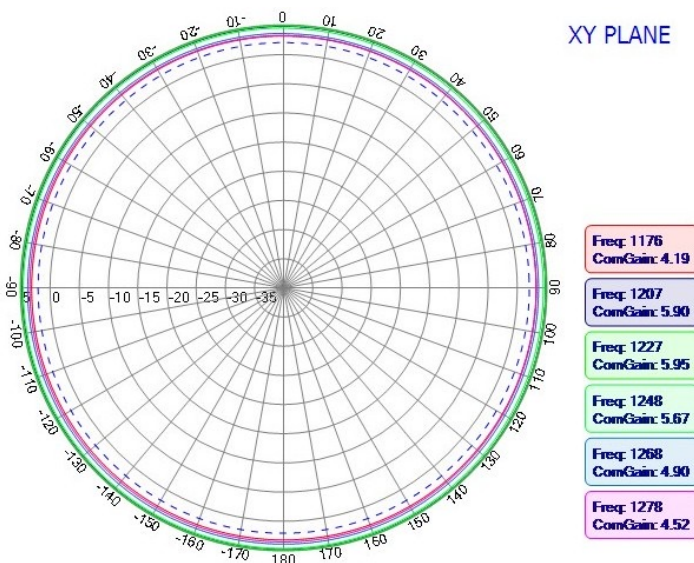


RADIATION PATTERN

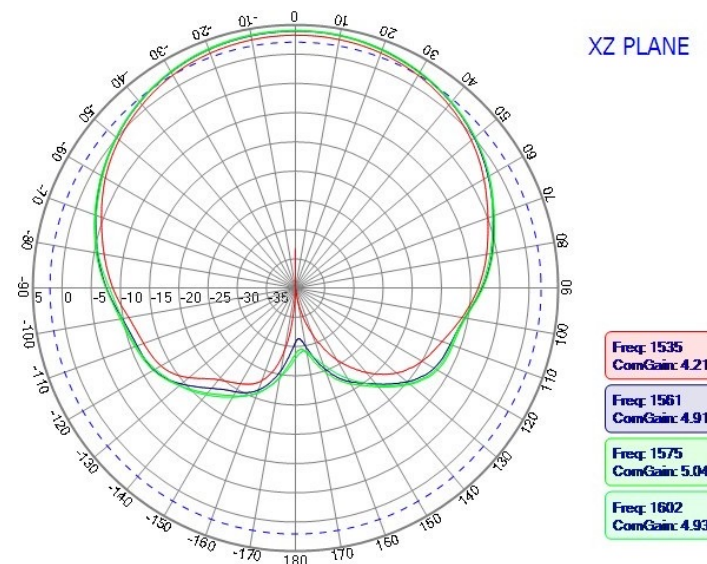
XZ PLANE



XY PLANE



XZ PLANE



XY PLANE

