

NANEA59X52PJG1C302A0F

1575.42 MHz GPS & GLONASS External Antenna



Features

- GNSS L1 Band
- High Accuracy Antenna
- RoHs Complaint

Applications

- Tracking
- Fleet Management



Specifications

Electrical

Frequency Range	1575.42 ~1602 MHz
Bandwidth	CF $\pm$ 5 MHz
Peak Gain	2 dBic
VSWR	< 1.5
Polarization	RHCP
Impedance	50 Ω
Patch Dimension	25 x 25 x 4 mm

LNA

Gain	40 $\pm$ 2dB
Noise Figure	< 1.5
Filter Insertion Loss	< 2 dB
Ex-band Attenuation	45dB@CF+50MHz 30dB@CF-50MHz
Supply Voltage	2.2 ~ 5V DC
Current Consumption	20 ~ 40 mA
V.S.W.R.	< 2.0

Environmental

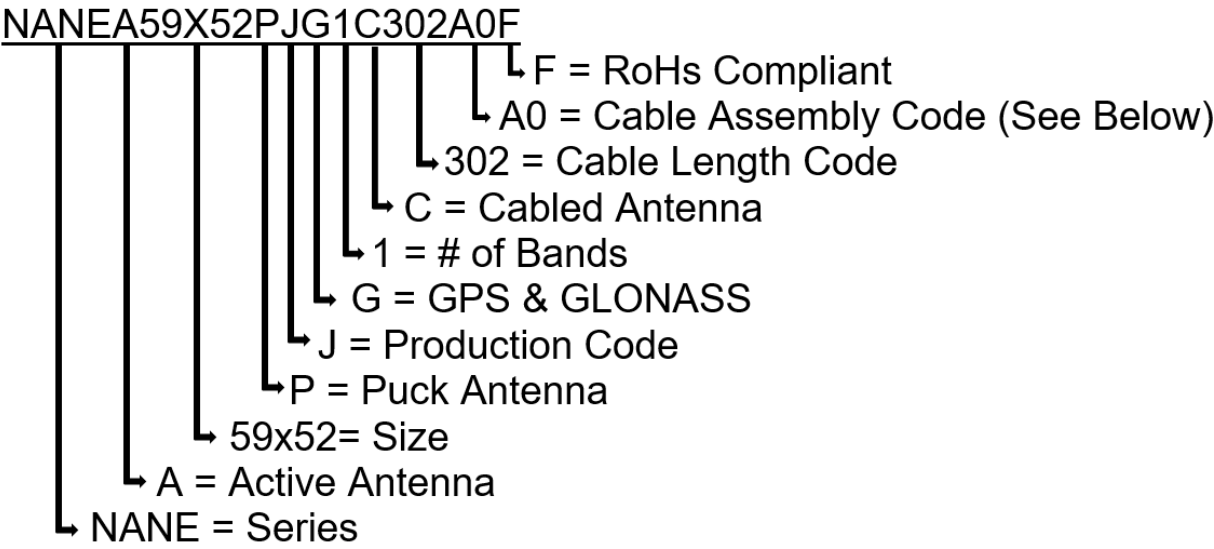
Operating Temperature	-40°C~+85°C
Relative Humidity	Up to 95%
Ingress Protection	IP65 ~ IP67
Vibration	10 to 55Hz with 1.5mm amplitude 2hours
ROHS Compliant	Yes

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Part Number Breakdown



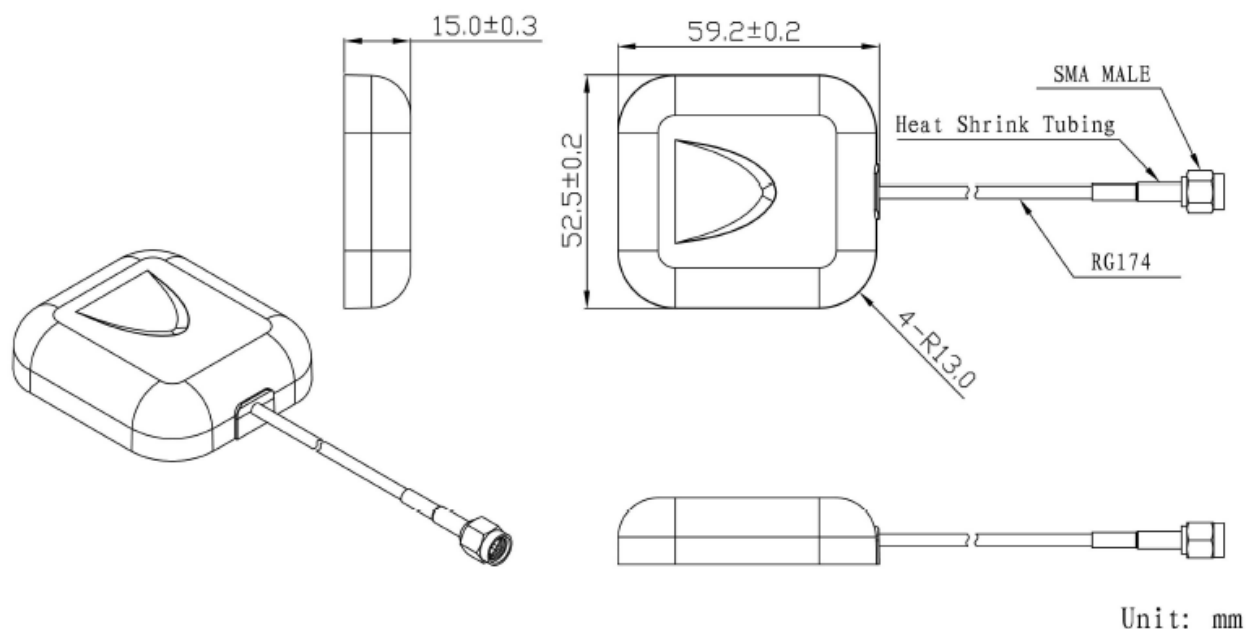
Assembly Ref	Protocol	Connector Type	Cable Type
A0	GPS&GLONASS	SMA Male	RG174

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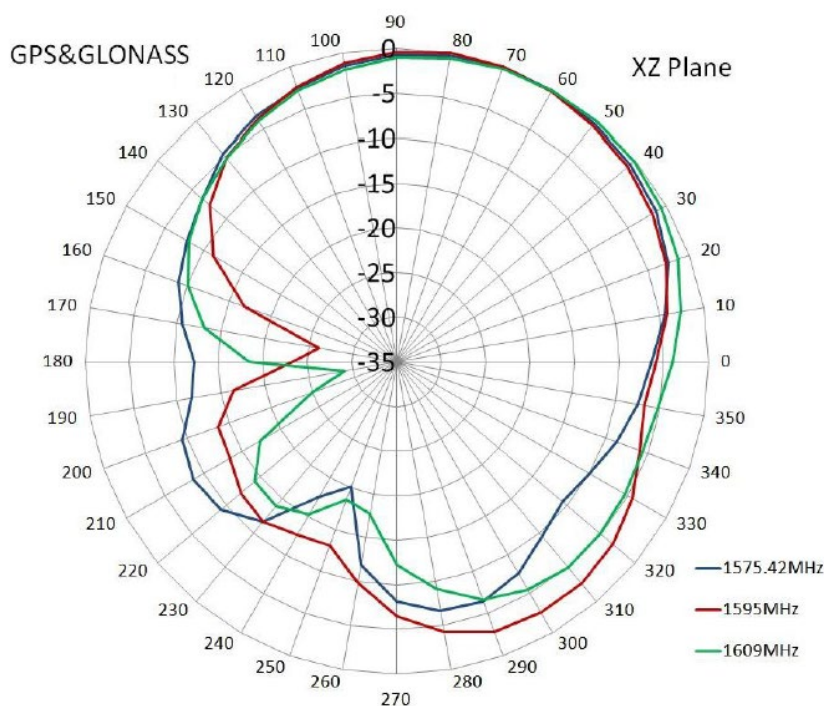
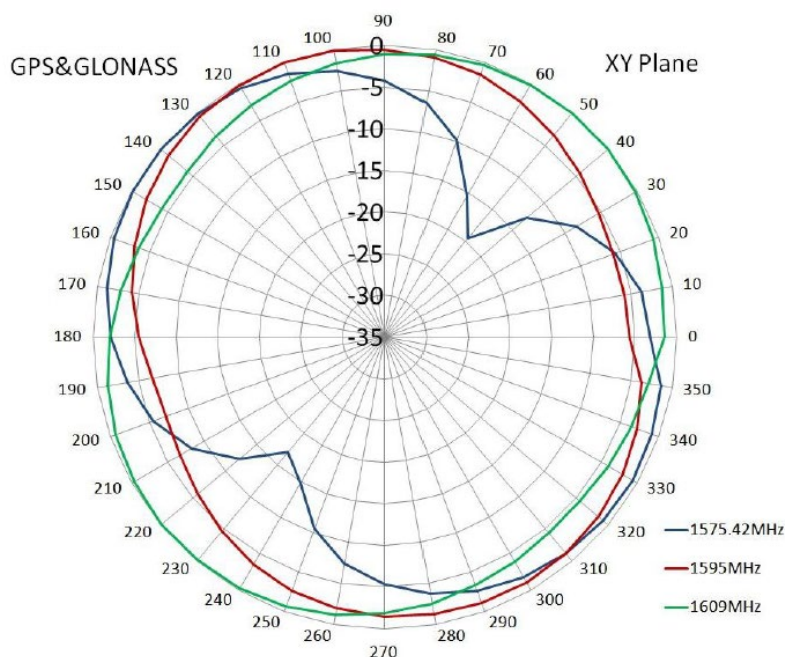
Dimension Drawing



Dimensions (mm) & Mechanical

Diameter	59.2 ± 0.2
Width	52.5 ± 0.2
Height	15 ± 0.3
Cable Length	3000mm (3M)
Radome Material	ABS
Mounting Method	Magnet

Radiation Patterns



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