

Part No. X1005247-GNA1SA10A1

GNSS (active) External Antenna

(1561 / 1575 / 1602) MHz

Supports: Tracking, Smart Home, Agriculture, Automotive Aftermarket, Healthcare, Digital Signage, Logistics, Industrial Devices



GNSS (active) External Antenna

(1561 / 1575 / 1602) MHz

KEY BENEFITS

Reduced Costs and Time-to Market

Standard antennas eliminate design fees and cycle time associated with a custom solution, getting products to market faster.

High Performance

By optimizing antenna size, performance and emissions, customer and regulatory specifications are more easily met.

Reliability

Products are the latest RoHS & REACH version compliant.

APPLICATIONS

- Remote Monitoring
- Point of Sale
- IoT
- Gateway
- Telematics
- Tracking
- Healthcare
- M2M, Industrial devices
- Smart Grid
- Logistics
- Energy
- Retail

Electrical Specifications

Typical characteristics in free-space

| Frequency (GNSS) | 1561 MHz | 1575 MHz | 1602 MHz |
|-----------------------------|--------------------|----------|----------|
| Gain at Zenith | 2.0 dBi | 4.1 dBi | 2.0 dBi |
| VSWR | 2.0:1 max | | |
| Polarization | RHCP | | |
| LNA Electrical Properties | | | |
| Frequency (GNSS) | 1561 MHz | 1575 MHz | 1602 MHz |
| VSWR | 2.0:1 max | | |
| Impedance | 50 Ω | | |
| Antenna Gain (@3.3 V) | 28 dB / 25 dB min. | | |
| DC Power Input | 3~5 V | | |
| Noise Figure | 1.1 dB Typ. | | |
| Power Consumption (@ 3.3 v) | 9 mA Typ. | | |

Mechanical Specifications

| Ordering Part # | X1005247-GNA1SA10A1 |
|----------------------------|----------------------------|
| Dimensions (mm) | 44.0 x 35.2 x 14.5 |
| Mounting Type | Foam Adhesive |
| Weight (grams) | 68 |
| Operating Temperature (°C) | -40 ~ +85 |
| Housing Material & Color | PC + ABS (Black) |
| Cable | Length: 1M Type: RG-174 |
| Connector | GNSS SMA(M) |
| Waterproof | IPX7 |

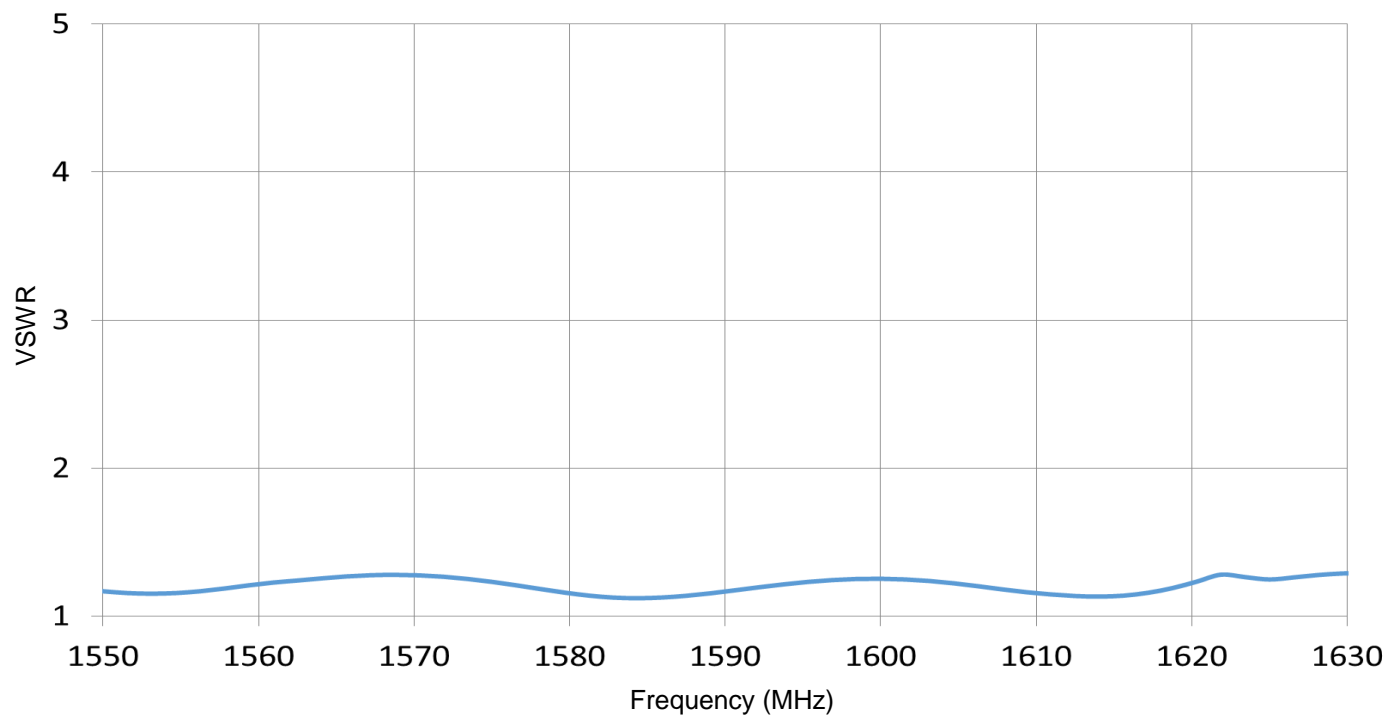


GNSS (active) External Antenna Specifications.
Ethertronics produces a wide variety of standard and custom antennas to meet user needs.

VSWR Plots (GNSS 1561 & 1575 & 1602 MHz)

Typical characteristics in free-space

VSWR:



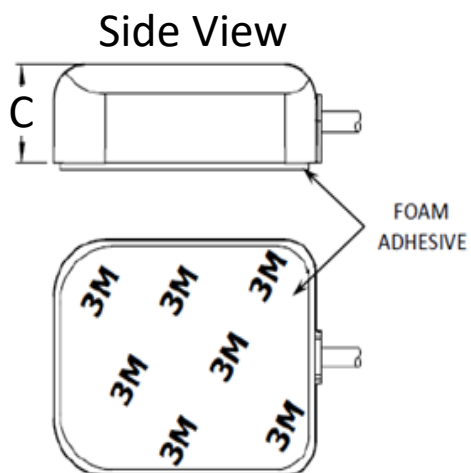
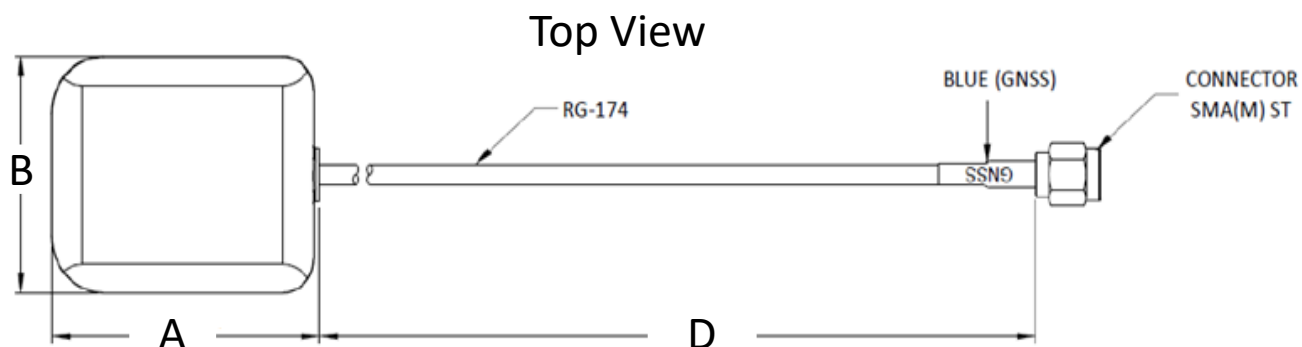


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Mechanical Dimensions

Typical antenna dimensions (mm)

| Part Number | A (mm) | B (mm) | C (mm) | D (mm) |
|---------------------|----------------|----------------|----------------|----------------|
| X1005247-GNA1SA10A1 | 44.0 ± 0.5 | 35.2 ± 0.5 | 14.5 ± 1.0 | 1000 ± 4.0 |



Bottom View

Mouser Electronics

Authorized Distributor

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[X1005247-GNA1SA10A1](#)