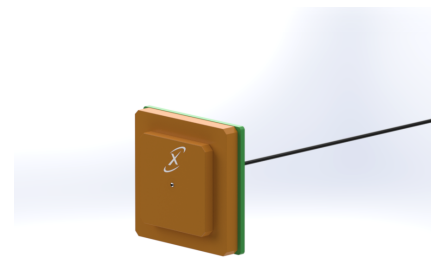




MIA-1227-1575A

L1/L2 GNSS ACTIVE ANTENNA

Part #: 100-00347-01



Description

The MIA-1227-1575A is an active multi-frequency, high accuracy, GNSS antenna for the L1/L2 GPS, Glonass, Galileo, and BeiDou bands. The antenna is designed for applications requiring greater accuracy than L1 only antennas can provide. The antenna has a cable with a SMA connector. This product is designed for applications requiring high-quality GNSS reception. The antenna provides outstanding performance for any precision navigation and fleet management application.

Electrical Specification

| Parameter | Specification |
|-----------------|--|
| Frequency Range | 1215 -1239 MHz (L2) 1558 -1590 MHz (L1) |
| Efficiency | 50% (L2) 50%(L1) |
| Total Gain | 32 dBiC(L2) 32 dBiC(L1) |
| VSWR | 1.5 (max) |
| Impedance | 50 Ω |
| Polarization | RHCP |
| Current drain | 24mA max |
| Voltage | 3-5 V |

Mechanical Specification

| Parameter | Specification |
|-----------------------|-------------------------------|
| Antenna Dimensions | 37.2 X 35.2 mm |
| Operating Temperature | -40 °C to 85 °C |
| Mounting Type | COAX CABLE WITH SMA CONNECTOR |
| Connector | SMA |

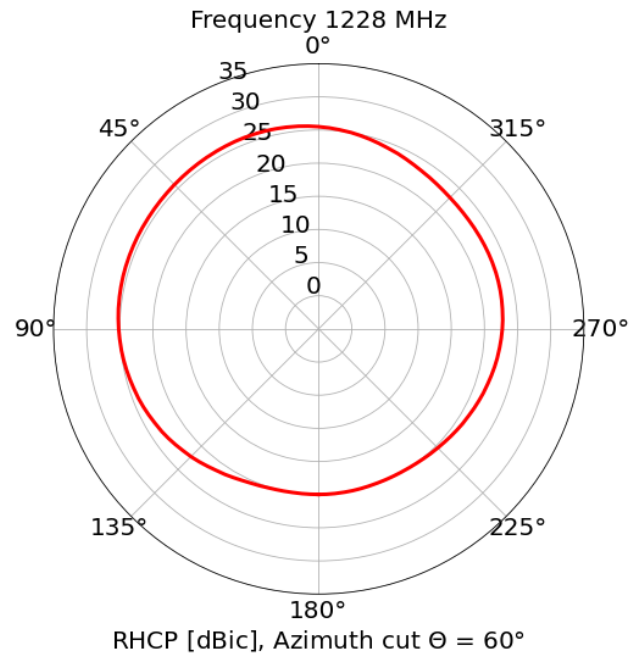
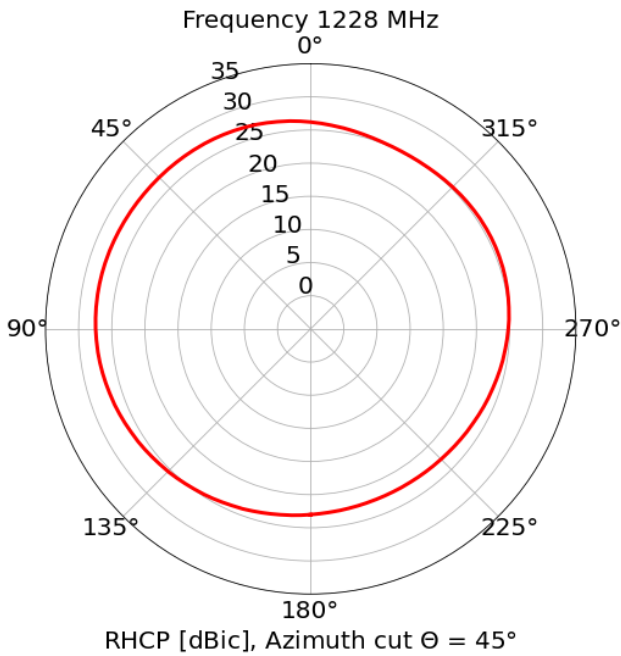
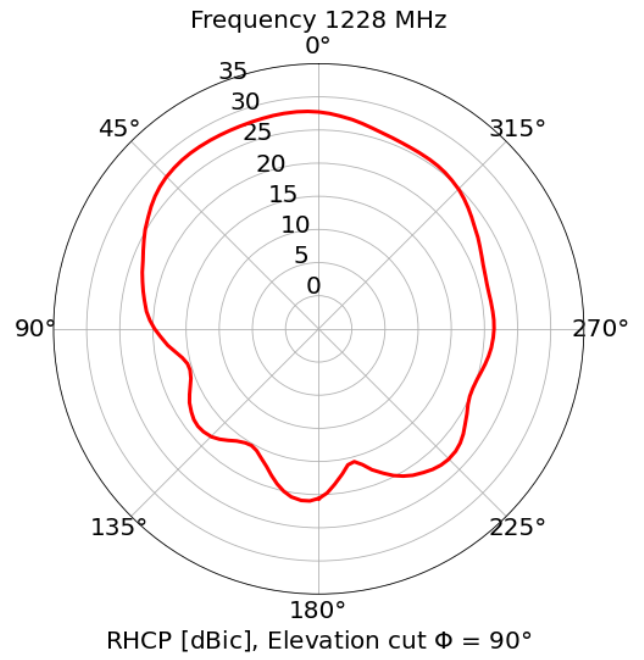
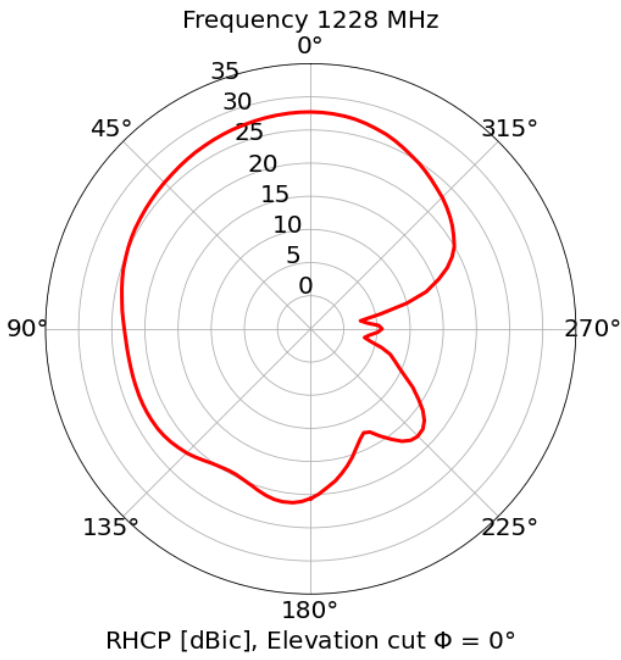
Features

- Small form factor
- Active GNSS antenna
- Low profile design
- GIS RTK applications
- Low power consumption

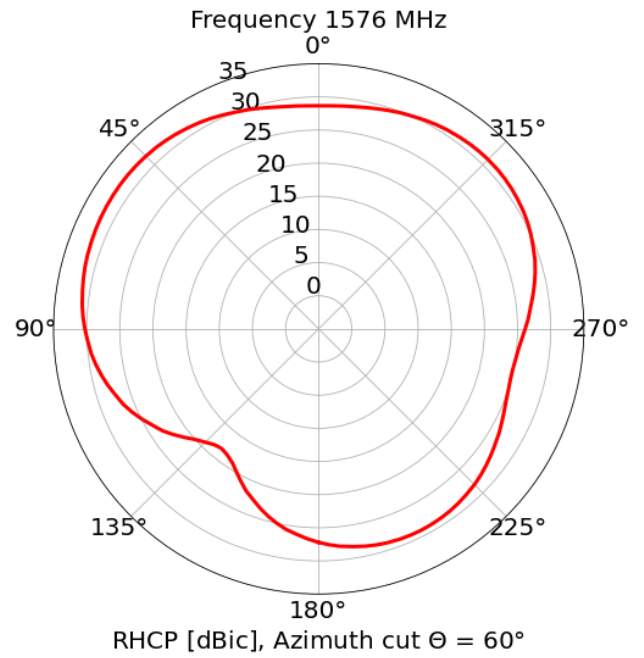
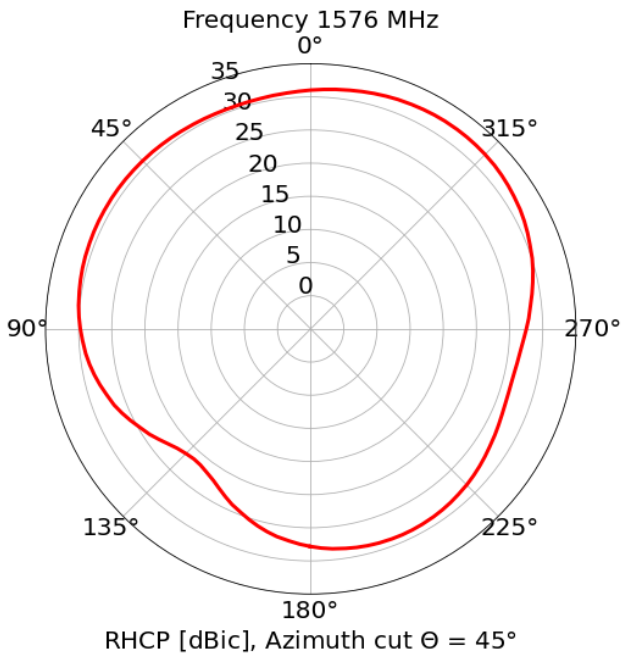
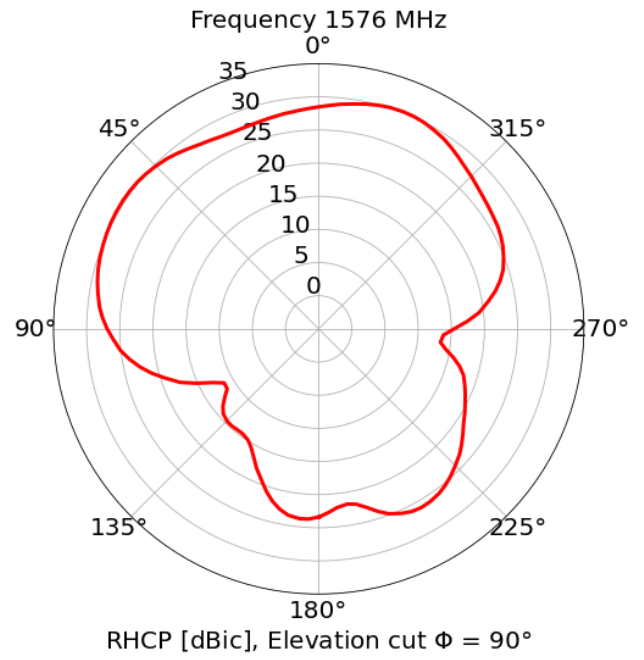
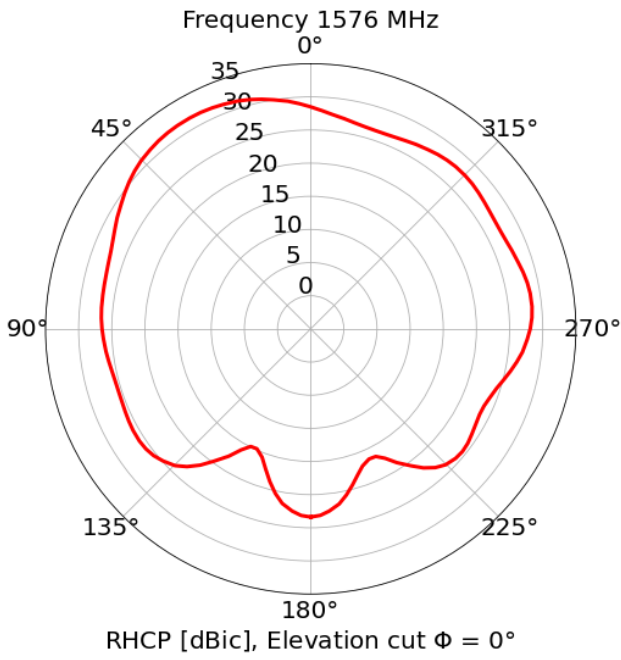
Applications

- Fleet Management/ Precision navigation
- Military & security
- Asset tracking
- Navigation devices
- Law enforcement

Radiation Patterns L2

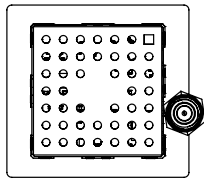
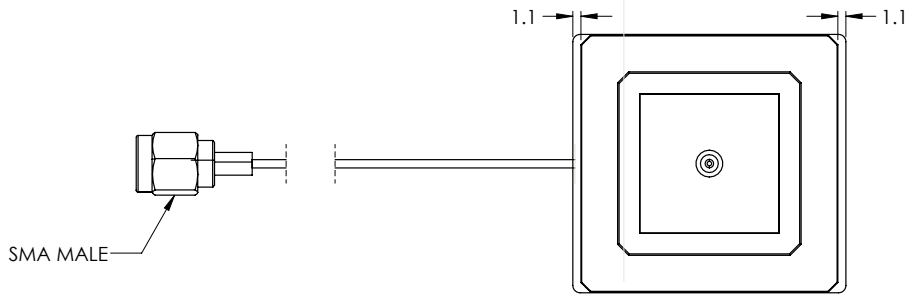
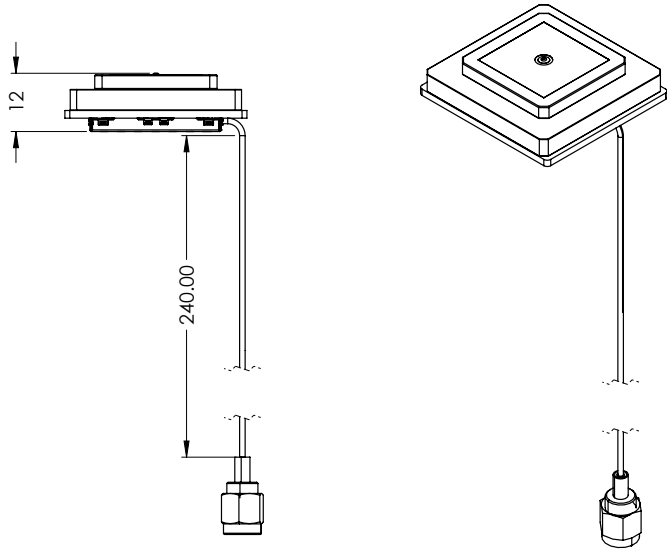
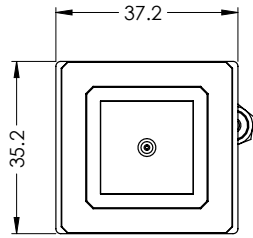


Radiation Patterns L1



8 7 6 5 4 3 2 1

| DRAWING REVISION HISTORY | | | |
|--------------------------|-----------------|------------|----|
| REV | DESCRIPTION | DATE | BY |
| A | INITIAL RELEASE | 2024-07-26 | MP |



- NOTES:
- FREQUENCY RANGE: 1215-1239 MHz (L2)
1558-1590 MHz (L1)
 - VSWR: 1.5 (MAX)
 - IMPEDANCE: 50 OHM
 - CONNECTOR: SMA MALE
 - CABLE: COAX
 - OPERATING TEMPERATURE: -40 °C TO 85 °C

| ITEM 100-00347-01 REVISION HISTORY | | | |
|------------------------------------|-----------------|------------|----|
| REV | DESCRIPTION | DATE | BY |
| A | INITIAL RELEASE | 2024-07-26 | MP |

PROPRIETARY AND CONFIDENTIAL

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| UNLESS OTHERWISE SPECIFIED: | NAME | DATE |
| DIMENSIONS ARE IN MM | DRAWN SP | 2024-07-26 |
| TOLERANCES: | CHECKED AH | 2024-07-26 |
| FRACTIONAL ± | ENG APPR. AV | 2024-07-26 |
| ANGULAR: MACH ± .5° BEND ± | MFG APPR. | |
| ONE PLACE DECIMAL ± .5 | Q.A. | |
| TWO PLACE DECIMAL ± 1.0 | | |
| INTERPRET GEOMETRIC TOLERANCING PER: | | |
| | | |
| THIRD ANGLE PROJECTION | | |
| DO NOT SCALE DRAWING | | |

| | | |
|---------------------|-----------------------|--------------|
| MAXTENA, INC | | REV |
| TITLE: 100-00347-01 | | A |
| MIA-1227-1575A | | |
| SIZE B | DWG. NO. 117-00805-01 | |
| CAGE CODE: 5KQH7 | SCALE: NONE | SHEET 1 OF 1 |

8 7 6 5 4 3 2 1