



The MIA-GPS-15-C is a high gain antenna customized for GPS frequencies. This advanced ceramic patch antenna includes an LNA and front-end SAW filter to reduce out of band noise with IPEX MHFI® (U.FL compatible) connector and 55mm cable length. This antenna is designed for embedded applications which feature high performance GPS applications such as GPS handheld units, mobile devices, and tracking devices.

The MIA-GPS-15-C utilizes a special semi ceramic based material which leads to higher upper hemisphere efficiency and a lower axial ratio as compared to regular patch antennas. This allows the antenna to be superior and a top choice for demanding GPS multi-band/multi-frequency antenna requirements.

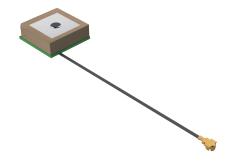
Our patch antenna offerings are perfect for projects with a smaller scope and budget for which high-performance and lower weight is not a primary factor for consideration for the antenna. It features a low noise figure and high-linearity LNA. The interface connector is available in U.FL or other. Cable length can also be customized.

Electrical Specifications

| Parameter | Specification |
|---------------------|----------------|
| Frequency Range | 1575.42 ± 3MHz |
| Band Width | CF ± 5MHz |
| Polarization | RHCP |
| Gain | 5dBic @ Zenith |
| VSWR | < 1.5 |
| Impendance | 50 Ω |
| Axial Ratio | ≤ 5dB |
| Current Consumption | 9mA |

Mechanical Specification

| Parameter | Specification |
|-----------------------|------------------|
| Antenna Dimensions | Ø 15x15x4 mm |
| Operating Temperature | -40°C to 85°C |
| Connector | IPEX or others |
| Cable | RF1.13 or others |
| Substance Compliance | RoHS |



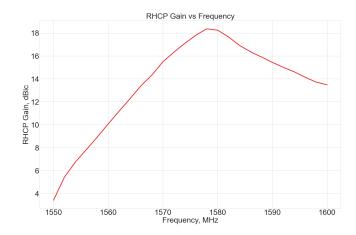
Features

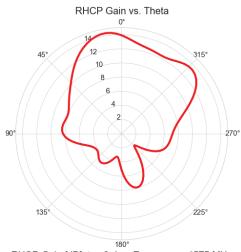
- GPS L1 frequency
- Active LNA circuitry
- Compact size
- Custom tuning
- · Custom connector/Cable size
- · Excellent out-of-band signal rejection
- Ideal antenna solution for RTK systems

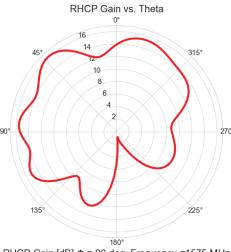
Applications

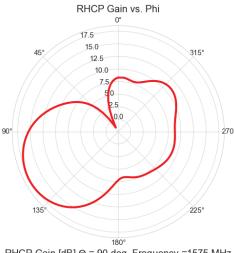
- · Vehicle and fleet tracking
- · Military & security
- Asset tracking
- · Embedded applications
- Oil & gas industries
- Navigation devices
- Mining equipment
- LBS & M2M applications
- · Handheld devices
- · Law enforcement











RHCP Gain [dB], Φ = 0 deg, Frequency =1575 MHz

RHCP Gain [dB], Φ = 90 deg, Frequency =1575 MHz

RHCP Gain [dB], Θ = 90 deg, Frequency =1575 MHz



