



MEA-GPS-SM

GPS PRECISION EXTERNAL MICROSTRIP ANTENNA

Ordering Part #: 189-00017-01

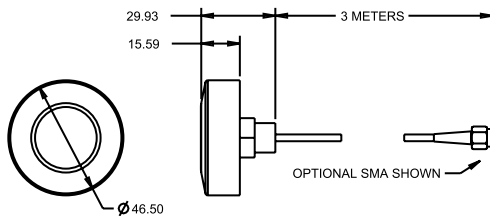


Description

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. They are ideal for less demanding applications where extreme performance and battery life can be sacrificed at the expense of device cost. This dual band GPS/GLONASS antenna is designed for various vehicle tracking, oil & gas and M2M applications though it is used for a variety of commercial and industrial applications. It features a low noise figure and high-linearity LNA. The interface connector is available in SMA, TNC, or other options.

Mechanical Specifications

| Parameter | Design Specifications |
|----------------|---------------------------|
| RF connector | SMA, TNC, or other |
| Cable | RG174 / 3 meters or other |
| Antenna weight | 80 grams (max) |
| Mounting | Bulkhead screw mount |



dimensions are in mm

Electrical Specifications

| Parameter | Design Specifications |
|------------------------|-----------------------------|
| Frequency | 1575.42 MHz |
| Polarization | RHCP |
| DC voltage | 2.5 to 5 V |
| DC current | 5 to 15 mA |
| Total system peak gain | 26 dB @ 2.5 V / 28 dB @ 5 V |
| Axial ratio | 2 dB (min) |
| Bandwidth (-1db) | 5 MHz |
| VSWR | 2 (max) |
| Impedance | 50 Ohm |
| Operating temp. | from -40°C to 85°C |

Features

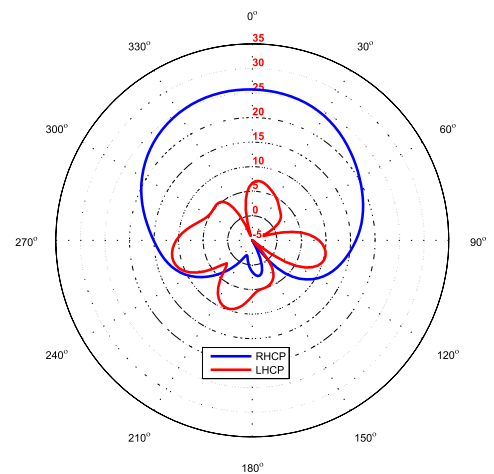
- GPS L1 frequency
- Active LNA circuitry
- Waterproof housing
- Compact size
- Custom tuning

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

Realized gain plot

measured at 1575.42 MHz on a 127X127mm ground plane (E plane, 2.5 V)



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