

MPA-154

L1 Passive GPS

15 mm

Description

This is a high-performance, very low profile antenna product designed for embedded applications, ideal for GPS handhelds, PDAs and tracking devices. The very compact size and lightweight features make this GPS embedded antenna one of a kind in the market and perfect for various commercial and industrial applications. With a typical high efficiency of 70%, this antenna can operate in the most extreme and demanding applications giving maximum satellite reception and great accuracy. The interface connector is a through pin solution.

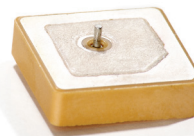
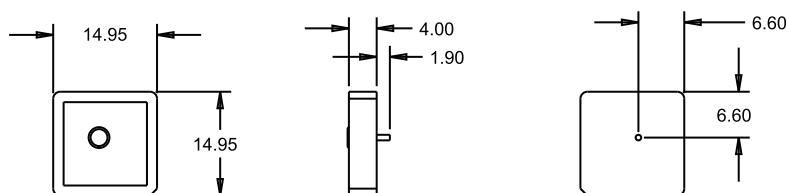


Image does not reflect the actual size of the antenna

Features

- GPS L1 frequency
- Adhesive mounting
- Pin connector
- Compact size
- Custom tuning

Mechanical Specifications



dimensions are in mm

Electrical Specifications

76X76 mm ground plane

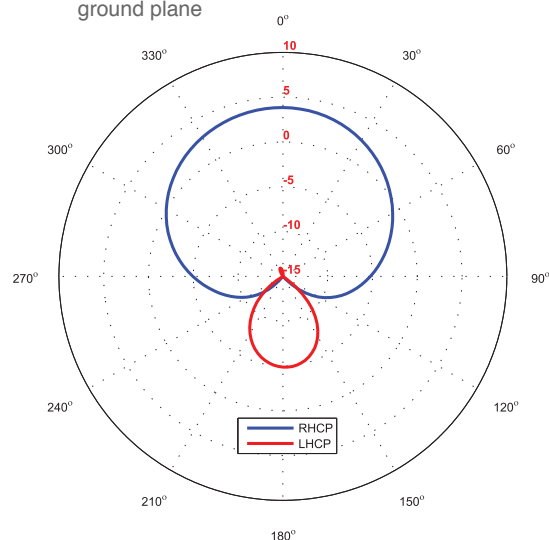
| Parameter | Design Specifications |
|------------------|---------------------------------|
| Frequency | 1575.42 MHz |
| Polarization | RHCP |
| Efficiency | 70% |
| Realized gain | 4 dBic |
| Axial ratio | 1.5 dB (typical) / 2.5 dB (max) |
| Bandwidth (-1dB) | 10 MHz |
| Beamwidth (3dB) | 100° (both axes) |
| CP rejection | 15 dB (typical) / 10 dB (min) |
| VSWR | 1.3:1 |
| Impedance | 50 Ohm |
| Operating temp. | from -40°C to 85°C |

Applications

- Vehicle & Fleet Tracking
- Embedded applications
- Handheld devices
- Military & Security
- Asset tracking
- PDAs/Laptops
- Oil & Gas industries
- Navigation devices
- Law Enforcement
- LBS & M2M Applications

Realized gain plot

Measured at 1575.42 MHz on a 76X76 mm ground plane



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