



# MPA-0254-1621

## IRIDIUM PASSIVE MICROSTRIP ANTENNA

Ordering Part #: 100-00024-02

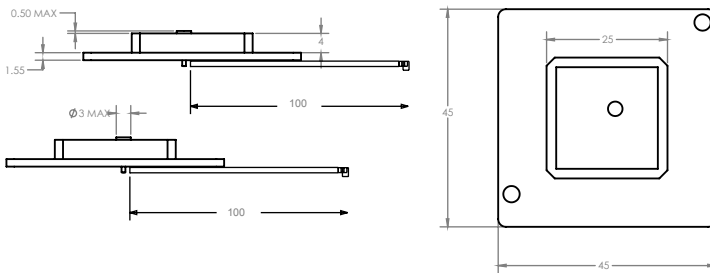


### Description

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 antenna product designed for Iridium-based embedded applications, and is used in GPS handheld units, mobile devices, and tracking devices. It features higher upper hemisphere efficiency and a lower axial ratio as compared to regular patch antennas. The antenna comes standard with a 100 mm cable and U.FL connector, custom alternatives can be requested.

### Mechanical Specifications

dimensions are in mm



### Electrical Specifications

45x45 mm ground plane

| Parameter        | Design Specifications |
|------------------|-----------------------|
| Frequency        | 1616-1626 MHz         |
| Polarization     | RHCP                  |
| Efficiency       | 80%                   |
| Realized gain    | 2.5 dBic              |
| Axial ratio      | 4 dB (typical)        |
| Bandwidth (-1dB) | 20 MHz                |
| Beamwidth (3dB)  | 100° (both axes)      |
| CP rejection     | 7 dB (typical)        |
| VSWR             | 1.3:1                 |
| Impedance        | 50 Ohm                |
| Operating temp.  | from -40°C to 85°C    |

### Features

- Iridium frequency band
- U.FL connector or other
- 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 1621 MHz on a 45x45 mm ground plane

