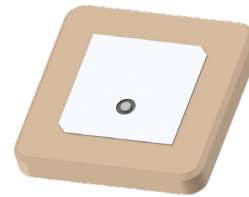




# MPA-406-1612

PASSIVE GPS IRIDIUM MICROSTRIP ANTENNA

Ordering Part #: 189-00050-01



## Description

The MPA-406-1612 is a high gain antenna customized for Iridium and GPS frequencies. This antenna is designed for embedded applications which feature Iridium and GPS such tracking devices and IOT solutions. The MPA-406-1612 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 Iridium antenna requirements. The interface connector is a through pin solution. This antenna has to be fully tuned and customized for Iridium applications and we encourage you to contact us here at Maxtena directly.

## Electrical Specifications

70x70 mm ground plane

Parameter	Design Specifications
Frequency	1565 MHz - 1640 MHz
Center Frequency	1612 MHz $\pm$ 4 MHz
Bandwidth	79 MHz min
VSWR	1.5 max
Polarization	RHCP
Axial ratio	3 dB max
Gain at Zenith	+2.0 dBi (typical)
Impedance	50 Ohm
Operating Temperature	from -40°C to 85°C

## Features

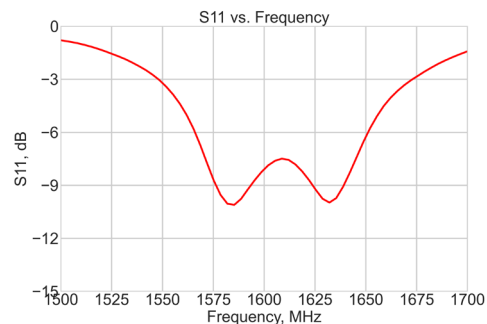
- Ultra High Performance
- Iridium & GPS Band Coverage
- Embedded Applications
- Pin Connector
- Custom Tuning and Matching

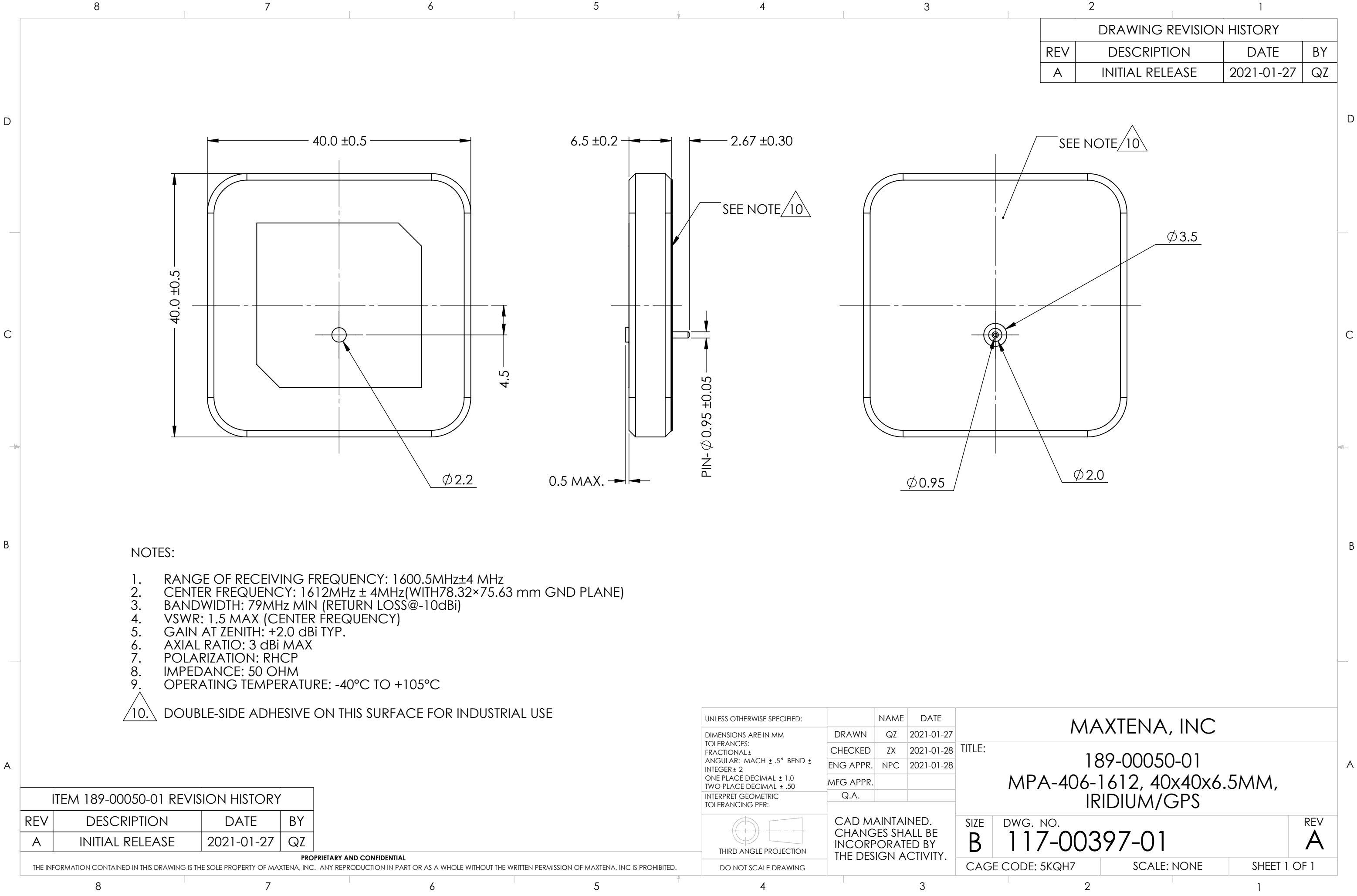
## Applications

- IOT
- Remote Monitoring
- Telematics
- Utilities
- Transportation

## S11 vs. Frequency plot

Measured at 1600.5 MHz on a 70x70 mm ground plane.





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