

# MPA-258-L1-L5

GPS L1 L5 MICROSTRIP ANTENNA

Part #: 189-00057-01

## Description

The MPA-258-L1-L5 is a high gain antenna customized for GPS L1 L5 frequencies. The MPA-258-L1-L5 is a multiband high-performance antenna for high precision GPS and L1 L5 accuracy and positioning. MPA-258-L1-L5 designed for embedded applications which feature GPS L1+L5 such as asset tracking and IOT solutions. The MPA-258-L1-L5 utilizes a special advanced wide-band dual-stacked ceramic patch antenna 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 L1+L5 multiband/multifrequency antenna requirements.



## Electrical Specifications

| Parameter                    | Specification       |                  |
|------------------------------|---------------------|------------------|
| Range Of Receiving Frequency | 1575.42 ± 1.023 MHz | 1176.45 ± 12 MHz |
| Center Frequency             | 1575 ± 3 MHz        | 1175 ± 3 MHz     |
| Bandwidth                    | ≥ 22 MHz            | ≥ 3 MHz          |
| Gain at Zenith               | 1.8 dB i typ.       | 0.5 dB i typ.    |
| Return Loss                  | -10 dB              |                  |
| VSWR                         | ≤ 1.8               |                  |
| Polarization                 | RHCP                |                  |
| Impedance                    | 50 Ω                |                  |

## Features

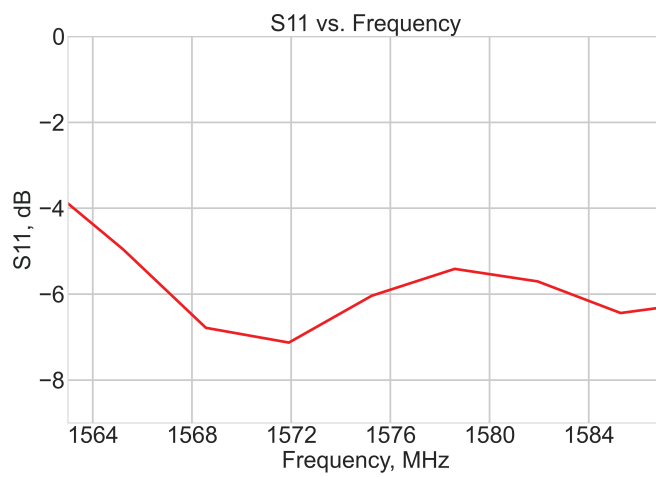
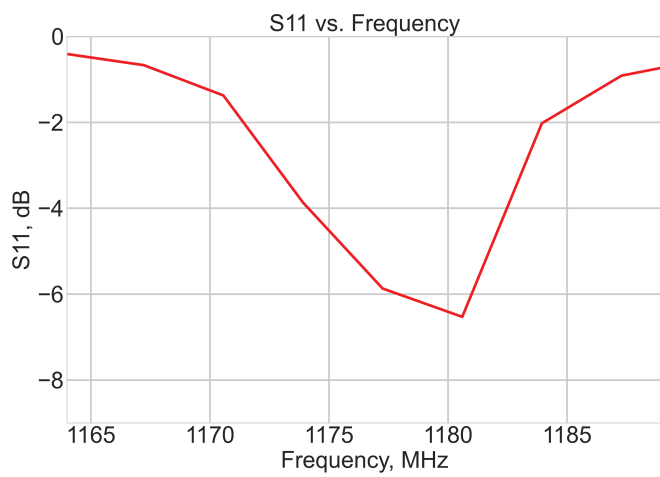
- GPS L1 L5 frequency
- Dual stacked patch
- Thru-Hole Mount
- Compact size
- Ceramic Material
- Advanced Ceramic Materials
- High Performance
- Dimensions 25 x 25 x 8 mm

## Mechanical Specification

| Parameter             | Specification  |
|-----------------------|----------------|
| Antenna Dimensions    | 25 x 25 x 8 mm |
| Operating Temperature | -40°C to 105°C |

## Applications

- IoT applications
- RTK
- Agriculture
- Navigation
- Security
- Autonomous Vehicles
- Transportation



Maxtena Inc.  
7361 Calhoun Place, Suite 102  
Rockville, MD 20855  
1-877-629-8362  
info@maxtena.com  
[www.maxtena.com](http://www.maxtena.com)



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