

# MPA-124

## L1 PASSIVE GPS MICROSTRIP ANTENNA

Ordering Part #: 189-00007-01

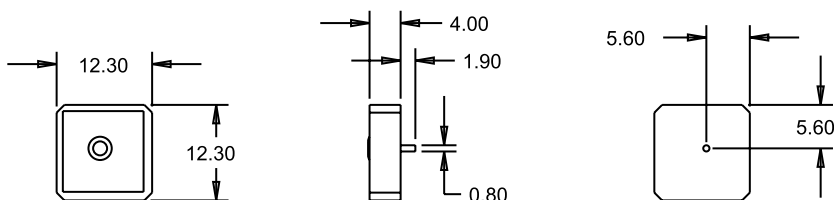


### Description

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 60%, 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.

### Mechanical Specifications

dimensions are in mm



### Electrical Specifications

76x76 mm ground plane

Parameter	Design Specifications
Frequency	1575.42 MHz
Polarization	RHCP
Efficiency	60%
Realized gain	3.5 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

### Features

- GPS L1 frequency
- Adhesive mounting
- Pin connector
- 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 76x76 mm ground plane

