



# MEA-GPS-SM

GPS PRECISION EXTERNAL MICROSTRIP ANTENNA

Ordering Part #: 189-00017-01

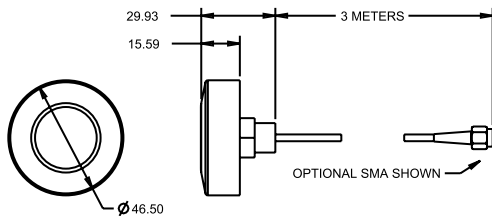


## Description

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 dual band GPS/GLONASS antenna is designed for various vehicle tracking, oil & gas and M2M applications though it is used for a variety of commercial and industrial applications. It features a low noise figure and high-linearity LNA. The interface connector is available in SMA, TNC, or other options.

## Mechanical Specifications

Parameter	Design Specifications
RF connector	SMA, TNC, or other
Cable	RG174 / 3 meters or other
Antenna weight	80 grams (max)
Mounting	Bulkhead screw mount



dimensions are in mm

## Electrical Specifications

Parameter	Design Specifications
Frequency	1575.42 MHz
Polarization	RHCP
DC voltage	2.5 to 5 V
DC current	5 to 15 mA
Total system peak gain	26 dB @ 2.5 V / 28 dB @ 5 V
Axial ratio	2 dB (min)
Bandwidth (-1db)	5 MHz
VSWR	2 (max)
Impedance	50 Ohm
Operating temp.	from -40°C to 85°C

## Features

- GPS L1 frequency
- Active LNA circuitry
- Waterproof housing
- 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 127X127mm ground plane (E plane, 2.5 V)

