

MEGA-GPS-SM

GPS PRECISION EXTERNAL MICROSTRIP ANTENNA

Ordering Part #: 189-00017-01

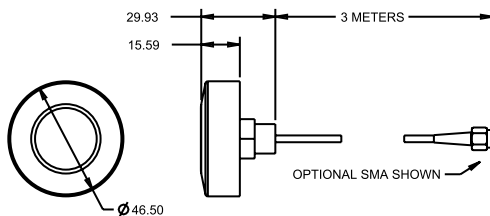


Description

This high-performance antenna is designed for vehicle and fleet tracking applications. The very small size and lightweight make this GPS antenna unique in the market and perfect for various commercial and industrial applications. With a low noise figure and high-linearity LNA, this antenna is the ideal solution for the most extreme and demanding applications where reliable satellite reception and high accuracy are required. 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)

