

MEA-1575

GPS Precision Antenna

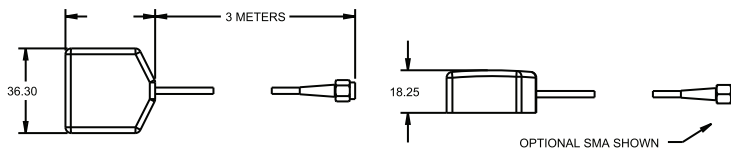
External Mount

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	70 grams (max)



dimensions are in mm



Image does not reflect the actual size of the antenna

Features

- GPS L1 frequency
- Active LNA circuitry
- Waterproof housing
- Custom connector options

Applications

- Vehicle & fleet tracking
- Public & government transportation
- Military & security
- Asset tracking
- Agriculture
- Oil & gas industries
- Mining & construction
- Law enforcement
- LBS & M2M applications

Electrical Specifications

Parameter	Design Specifications
Frequency	1575.42 MHz
Polarization	RHCP
DC voltage	2.5 to 5 V
DC current	6.6 mA
Bandwidth (-1dB)	5 MHz
Total system peak gain	28 dBic @ 2.5 V / 30 dBic @ 5 V
Axial ratio	2.5 dB (min)
VSWR	2 (max)
Impedance	50 Ohm
Operating temp.	from -40°C to 85°C

Realized gain plot

Measured at 1575.42 MHz on a 127X127mm ground plane (E plane, 2.5 V)

