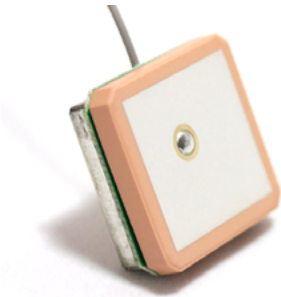




MIA-1516

GPS/GLONASS ACTIVE EMBEDDED ANTENNA

Ordering Part #: 189-00031-01

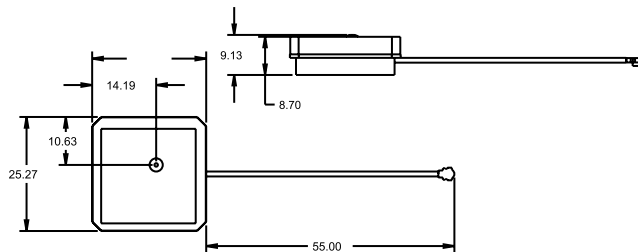


Description

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 active antenna is designed for various vehicle tracking, oil & gas and M2M applications. It features a low noise figure and high-linearity LNA. The interface connector is available in U.FL, or other options.

Mechanical Specifications

Parameter	Design Specifications
RF connector	U.FL or other
Antenna weight	14 grams



dimensions are in mm

Electrical Specifications

127x127 mm ground plane

Parameter	Design Specifications
Frequency	1590 MHz
Polarization	RHCP
DC voltage	2.5 to 5V
DC current	11 mA (max)
Bandwidth (-1dB)	15 MHz
Total system peak gain	30 dB @ 2.5 V / 32 dB @ 5 V
Axial ratio	1 dB (min)
VSWR	1.5:1
Impedance	50 Ohm
Operating temp.	from -40°C to 85°C

Features

- GPS & GLONASS coverage
- Active LNA circuitry
- Custom cable/connector options
- 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 1590 MHz on a 127x127mm ground plane (E plane, 2.5 V)

