

# Miniature magnetic mount active GPS antenna with 2.5m cable and SMA male connector

MIKE13/2.5M/SMAM/S/S/17



## Features

- Very small footprint
- 27.6 x 21 x 13.9mm
- GPS (1575.42MHz) - GLONASS version available
- 3.0 to 5.0v operation
- 11mA max current consumption

The Mike 13 GPS antenna is one of the smallest active GPS / GLONASS antennas available in a magnetic mount style. The Mike 13 can also be used as an adhesive mount antenna using a double sided adhesive pad. The Mike 13 has a typical LNA gain of 26dB (without cable) and can operate in temperature range of -40°C to + 85°C and is completely waterproof.

**Electrical characteristics - dielectric antenna:**

- Centre frequency: 1575.42MHz +/- 3MHz
- Bandwidth: +/- 5MHz
- VSWR: 1.5:1
- Peak gain: 1dBi based on a 7 x 7cm ground plane
- Gain coverage: -4dBic at -90° < 0 < +90° (over 75% Volume)

**Electrical characteristics - LNA / filter:**

- LNA gain (without cable): 26dB typ
- Noise figure: 1.5dB
- Filter out Band attenuation (f0=1575.42MHz)
  - 7dB min f0+/- 20MHz
  - 20dB min f0+/- 50MHz
  - 30dB min f0+/- 100MHz
- VSWR: <2.0
- DC supply voltage: 3.0 to 5.0V
- DC supply current: 11mA max

**Mechanical characteristics:**

- weight: <100 gms
- Size: 27.5 x 21 x 13.9mm (without cable)
- Cable: RG174
- Connector: SMA male
- Mounting: magnetic or adhesive

**Environmental Characteristics:**

- Operating temp: -40°C to +85°C
- Storage temp: -45°C to +100°C
- Humidity: 95% ~ 100% RH
- Weatherproofing: 100% waterproof