



Mike 13

Miniature magnetic mount active GPS antenna



Key Features

- Very small footprint
- GPS (1575.42MHz)
- Low current consumption

General Description

The Mike 13 GPS antenna is one of the smallest active GPS 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 boosting the dielectric antenna gain. With a low current consumption the antenna is ideal for IoT small devices applications.

Supplied as standard with a 2.5m cable and SMA Male connector. Alternative cable lengths or connectors can be specified for volume orders

Additional Considerations

- Smallest GPS antenna
- GLONASS version available
- Meets all EU compliance criteria for electronic goods





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Electrical Specifications

Impedance:	50 ohm
VSWR:	1.5:1
Peak Gain:	>1dBic (based on 7 x 7cm ground plane)
Center Frequency:	1575.42MHz
Bandwidth:	5MHz
Polarization:	RHCP

LNA/Filter

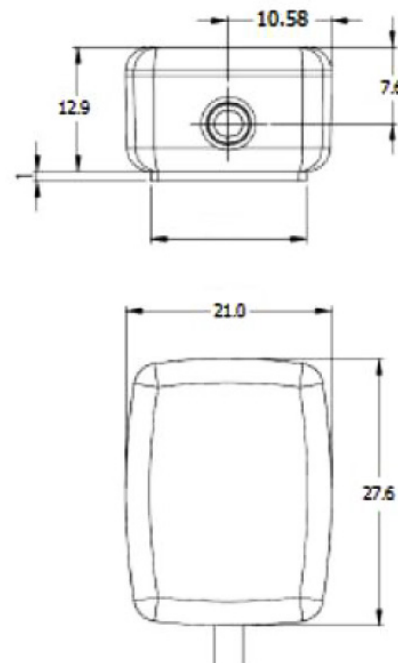
LNA Gain: (without cable)	26dB Typical
Noise Figure:	1.5dB
Filter Out Band Attenuation:	$f_0 = 1575.42\text{MHz}$ 7dB Min $f_0 \pm 20\text{MHz}$ 20dB Min $f_0 \pm 50\text{MHz}$ 30dB Min $f_0 \pm 100\text{MHz}$
VSWR:	<2.0
DC Voltage:	3.0V to 5.0V
DC Current:	11mA Max

Mechanical Specifications

Dimensions:	27.6 x 21 x 12.9mm
Cable:	RG174

Environmental Specifications

Working Temperature:	-40°C - +85°C
Storage Temperature:	-45°C - +100°C
Humidity:	95% - 100% RH

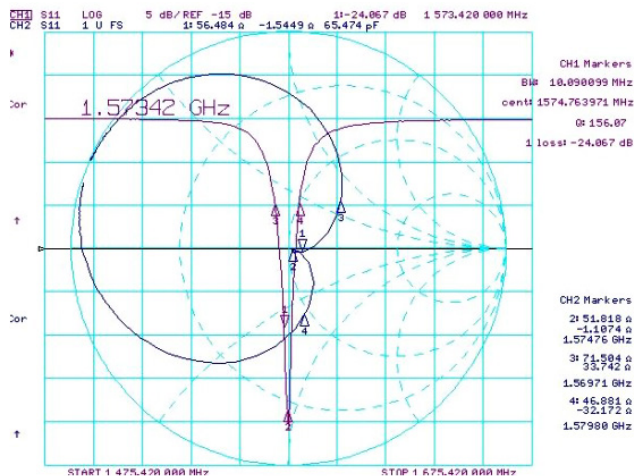




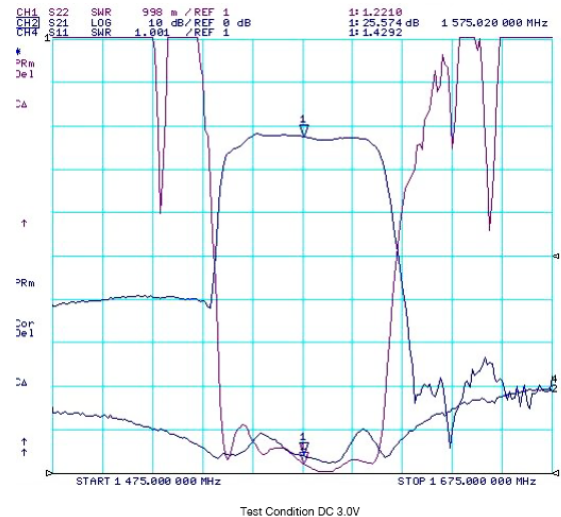
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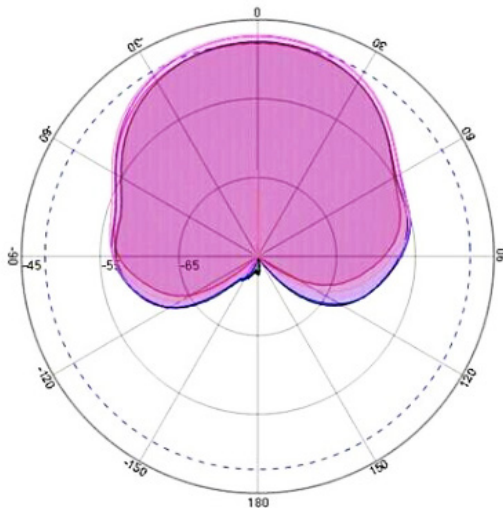
Impedance



Return Loss / VSWR



Radiation Plot



Ordering Details

Part Number	Description
MIKE13/2.5M/SMAM/S/S/17	Miniature magnetic mount active GPS antenna