



Key Features

- 28dB LNA gain
- IP67 protection
- Dual mount
- Various cable lengths available
- Ground plane independent
- RoHS compliant

General Description

Siretta's range of latest generation GPS patch antennas offer excellent performance characteristics and flexibility when installing via its magnetic mount. The Mike 3A is also supplied with an adhesive pad for non IP67 applications.

The Mike 3A family are embedded with the latest generation, two stage, pre-amplifier circuit offering 28dB LNA gain. Capable at operating within 3-5V. Its low current draw of just 10mA at 3V helps keep the operating voltage to a minimum making it suitable for applications where power saving is important.

Measuring just 47mm x 35mm x 17mm $\pm$ 1mm, the Mike 3A can be supplied with a variety of connectors or cable lengths.

Additional Considerations

- Improves signal to noise ratio for mobile applications
- Extended mounting - choose from magnetic or adhesive pad
- Ideal for routing around vehicle interior
- Can be mounted on wide ranging surfaces
- Meets all EU compliance criteria for electronic goods

Rev 1.1

Key Specifications - Electrical

Temperature range:	-40 to +85°C
Impedance:	50 ohm
Gain:	28dB
VSWR:	2.0 max
Voltage / supply current and example:	3 - 5V DC / 8023mA (3V @ 10mA)
Centre frequency:	1.575.42MHz $\pm$ 1.023MHz (covered with random and measured on ground plane)
Polarization:	RHCP
Bandwidth:	10Mhz (10dB return loss)
Amplifier:	2 stage LNA with SAW filter for out of band attenuation
Noise figure:	1.4dB typical
Axial ratio:	1.0dB typical

Key Specifications - Mechanical

Dimensions:	47mm x 35mm x 17mm $\pm$ 1mm (without cable)
Cable:	RG174 (for lengths, please refer to options table below)
Connector:	SMAM, SMBm plug, MCXm, MMCXm
IP rating:	IP67 (magnetic mount only)
Mounting method:	Magnetic or adhesive (3M pad supplied loose in bag)

Ordering Details

Part Number	Description
MIKE3A/2.5M/SMAM/S/S/17	GPS, IP67 Mag Mount GPS Antenna, 2.5M Cable, SMAM Male Connector.
MIKE3A/3M/MCXM/S/S/17	Magnetic/Adhesive Mount GPS Antenna, 3m Cable, SMA Male Connector
MIKE3A/3M/MMCXM/S/S/17	Magnetic/Adhesive Mount GPS Antenna, 3m Cable, MMCX Male Connector

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