



Alpha 4A

GPS Antenna



Key Features

- Adhesive or magnetic mountable
- 26db LNA gain
- Waterproof
- Compact size

General Description

The Alpha 4A is a compact, self adhesive, waterproof, GPS antenna.

It comes with a strong self-adhesive base that provides a firm fix to most flat surfaces. The antenna is well suited to the harsher outdoor environment that GPS applications are often subject to.

The built in Low Noise Amplifier (LNA) provides a 26dB gain for superior GPS performance; necessary for strong signal reception from visible satellites as well as influencing a shorter time for satellite fixing.

Additional Considerations

- Waterproof design which makes it ideal for mounting outdoors
- Operates with GPS receivers with built in LNA circuit on board

GPS
Position

IP
67



Alpha 4A

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Dielectric Antenna

Centre Frequency:	1575.42+1MHz
Polarization:	RHCP
Impedance:	50 Ohm
VSWR:	<1.5
Axial Ratio:	3dB Max

Mechanical Specifications

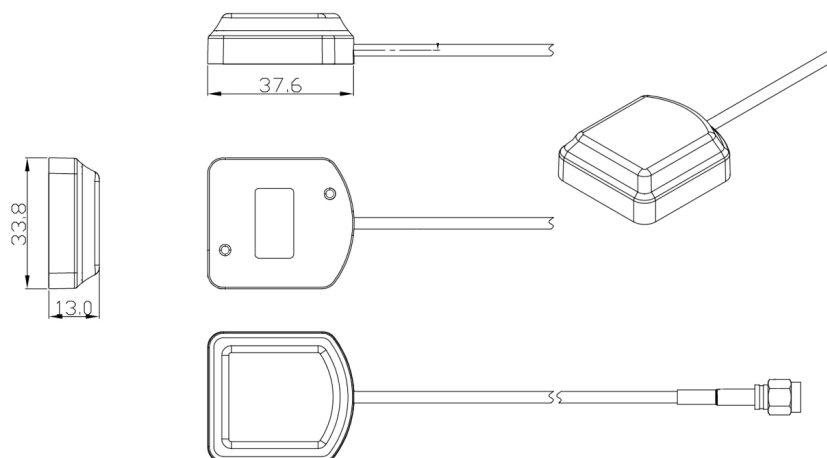
Dimensions:	L20 x W20 x H4mm
Cable:	RG174
Connector:	SMA Male
Material:	ABS
Mounting method:	Magnetic

GPS Antenna

LNA Gain:	26dB
Noise Figure:	<1.3
VSWR:	<2.0
Filter Insertion Loss:	<3dB
Supply Voltage:	2.5 - 5V DC
Current Consumption:	10 - 26mA

Environmental Specifications

Operating Temperature:	-40 to +85°C
Relative Humidity:	Up to 95%

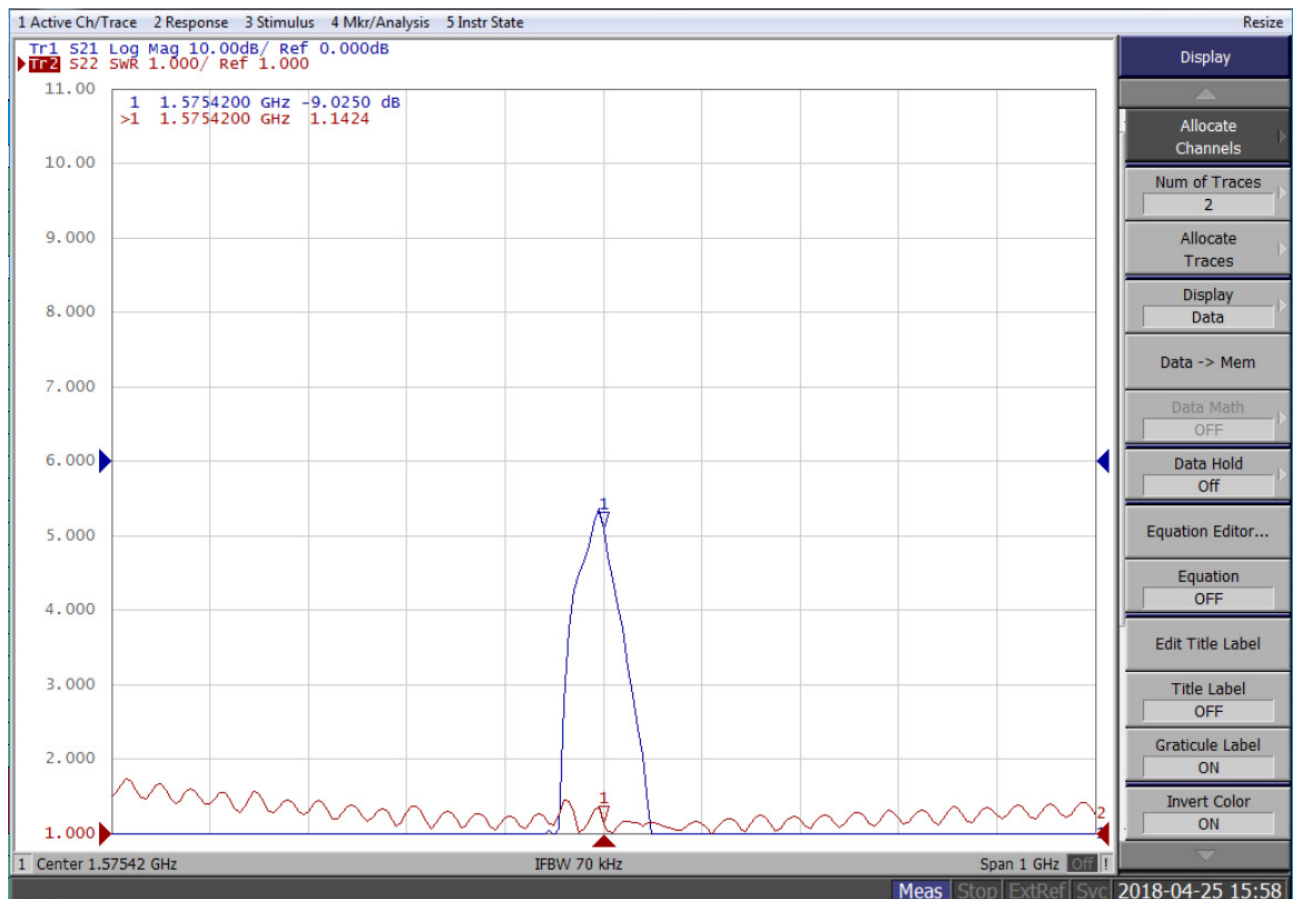




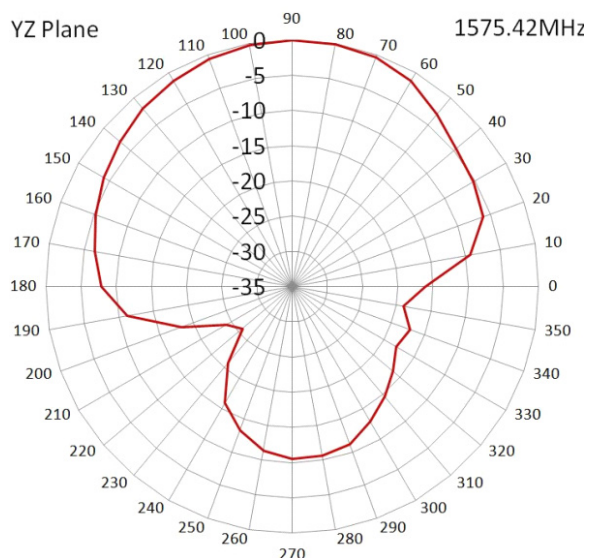
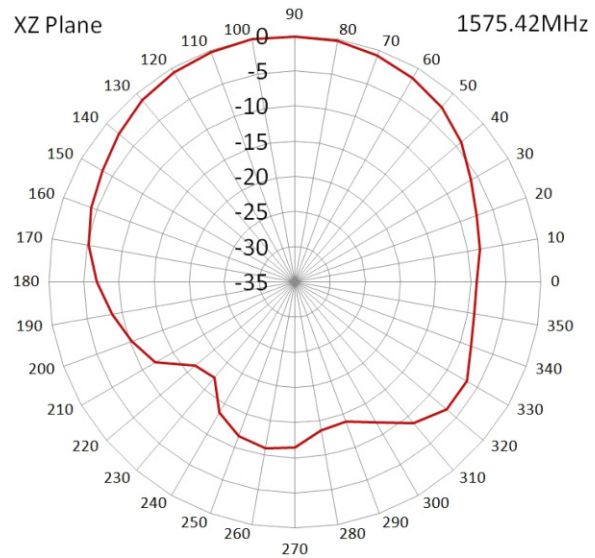
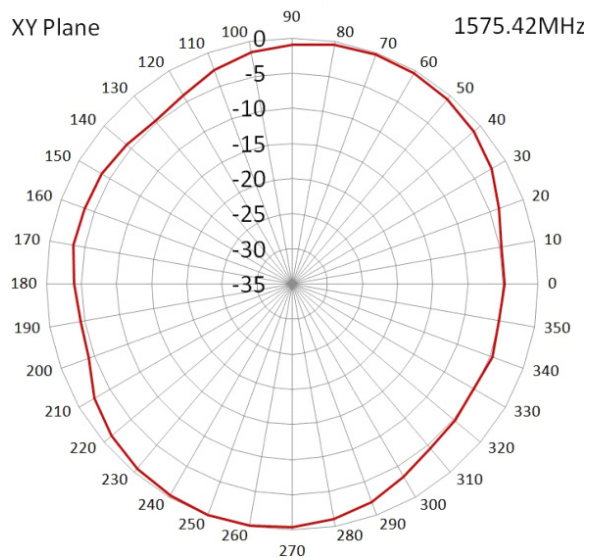
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Return Loss / VSWR



Radiation Patterns



Ordering Details

Part number	Description
ALPHA4A/1M/SMAM/S/S/26	GPS Antenna 1m Cable SMA Male Connector
ALPHA4A/5M/SMAM/S/S/26	GPS Antenna 5m Cable SMA Male Connector

Mouser Electronics

Authorized Distributor

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Siretta:

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