



## Alpha 4A

GPS Antenna



### Key Features

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

### General Description

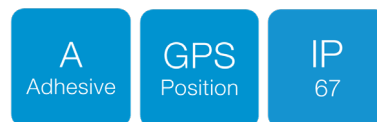
The Alpha 4A is a compact, self adhesive, waterproof, GPS antenna.

It comes with a strong self-adhesive base that provides a firm fix to most flat surfaces. The antenna is well suited to outdoor environments 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





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### Dielectric Antenna

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

### Mechanical Specifications

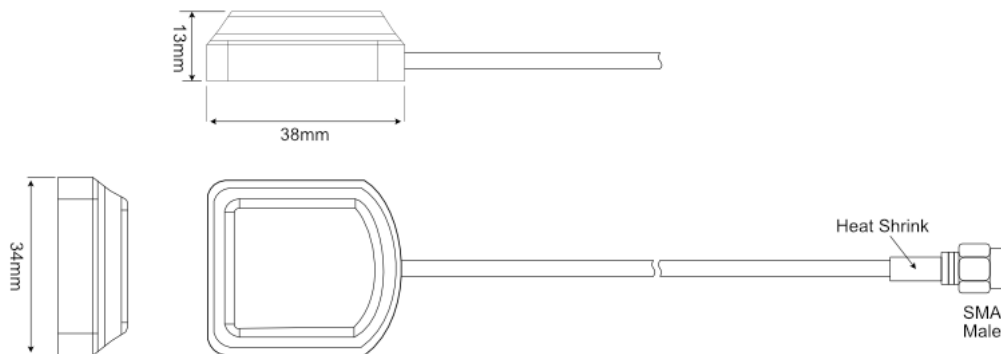
Dimensions:	L38 x W34 x H13 mm
Cable:	RG174
Connector:	SMA Male
Material:	ABS
Mounting method:	Magnetic

### GPS Antenna

LNA Gain:	26 dB +/-2 dB
Noise Figure:	<1.3
VSWR:	<2.0
Filter Insertion Loss:	<3 dB
Supply Voltage:	2.5 - 5 V DC
Current Consumption:	10 - 26 mA

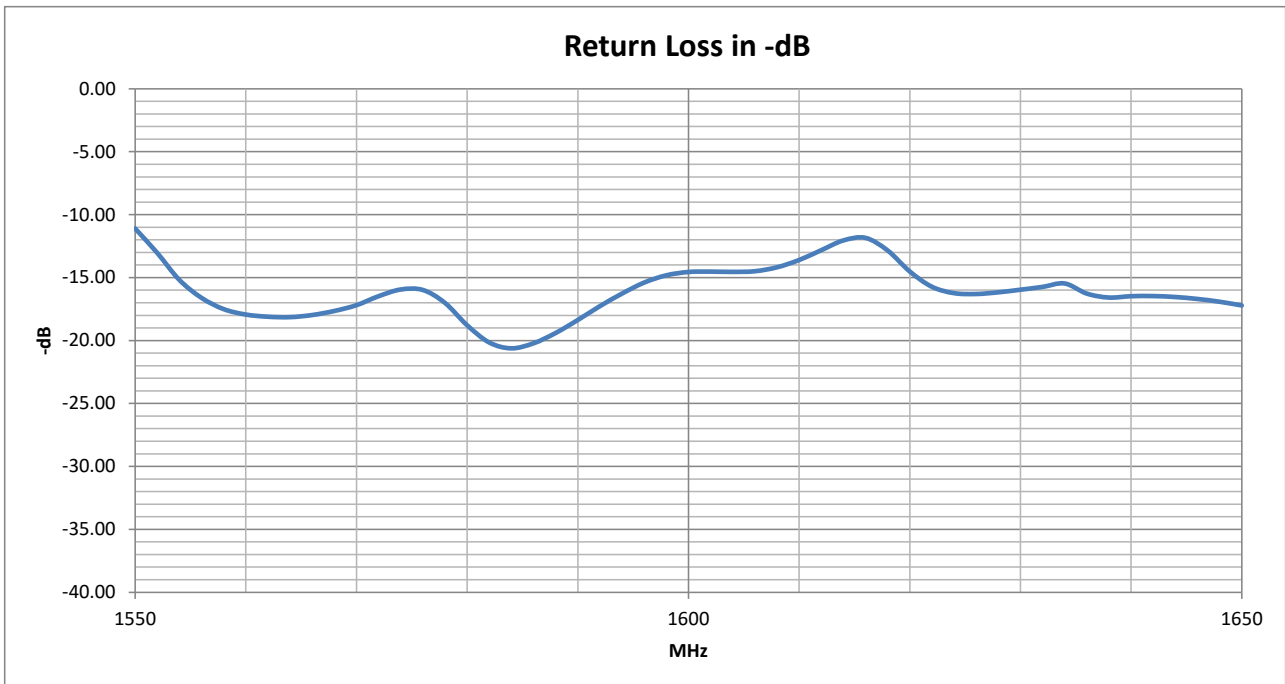
### Environmental Specifications

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

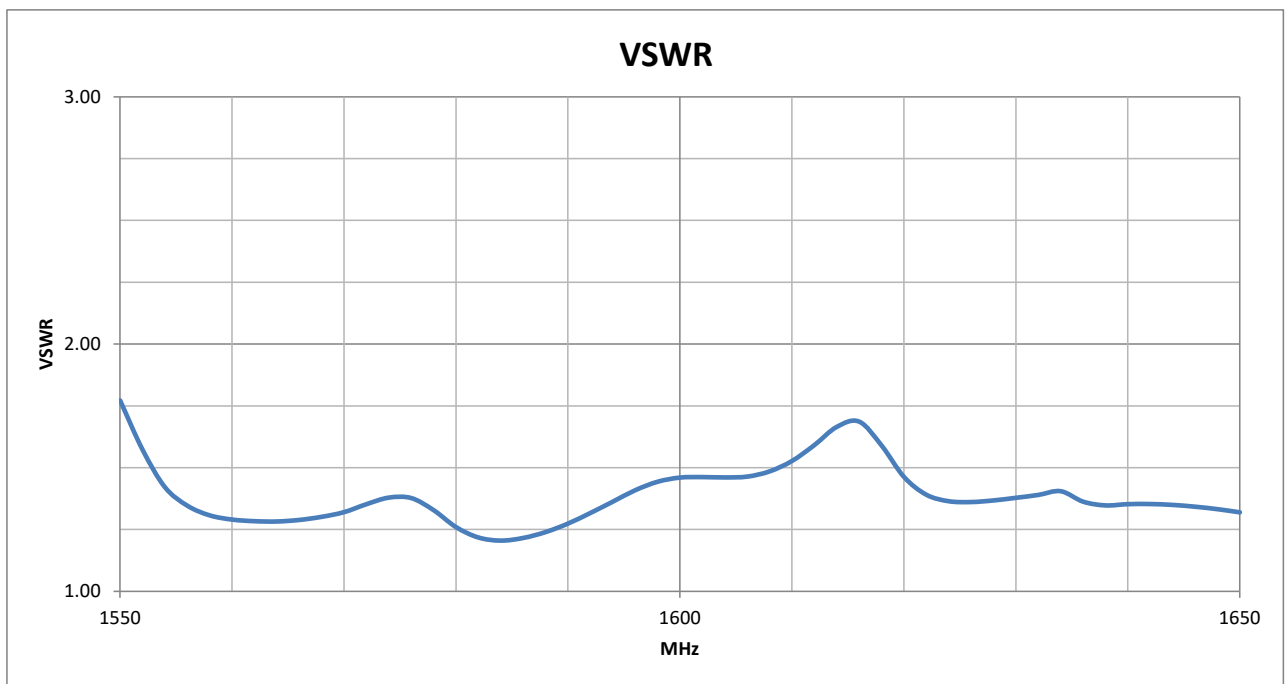




### Return Loss

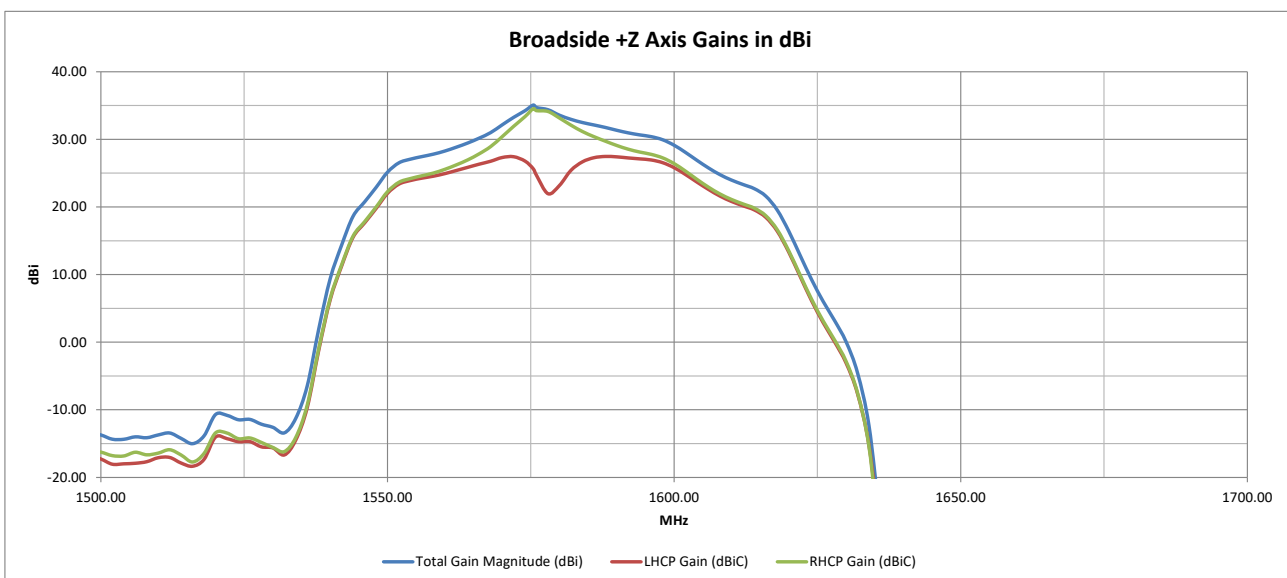
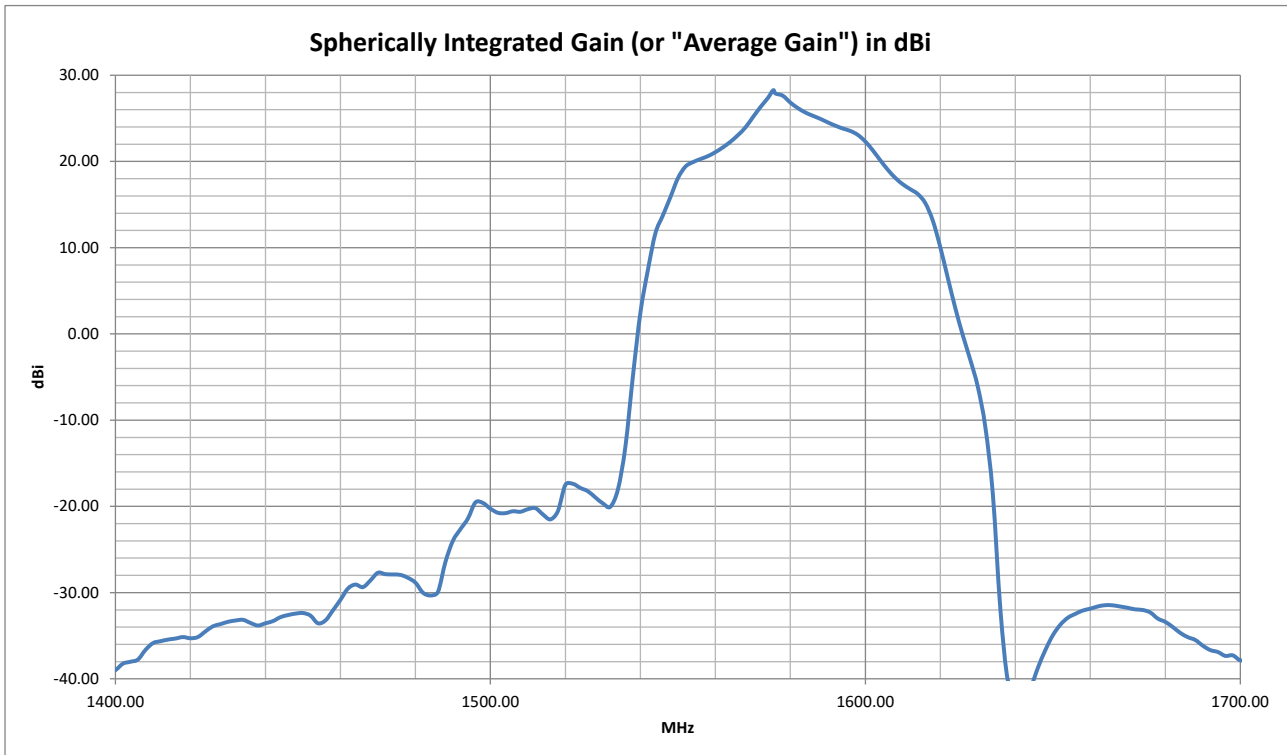


### VSWR





### Gain



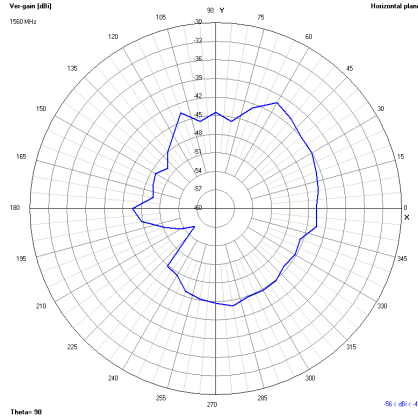


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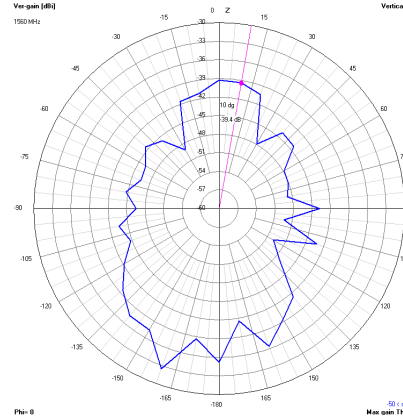
GPS Antenna

### Radiation Plots tested with 1 m cable

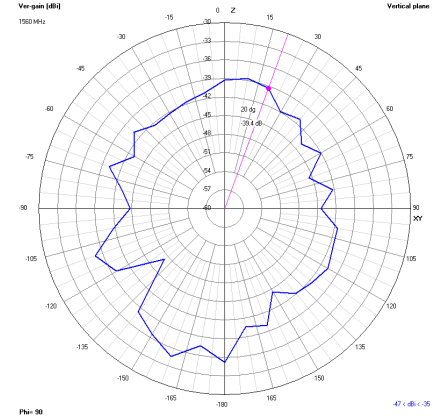
#### 1560 MHz XY



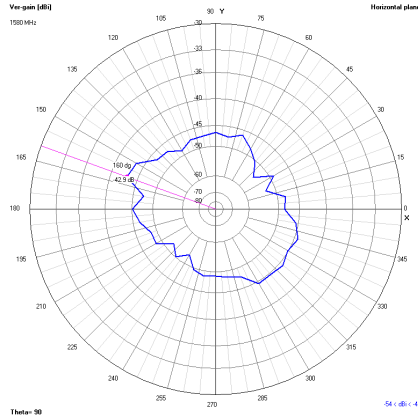
#### XZ



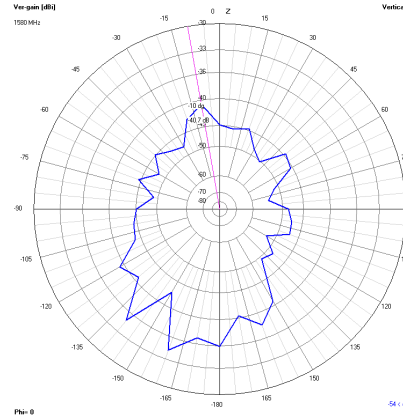
#### YZ



#### 1580 MHz XY



#### XZ



#### YZ

