



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**

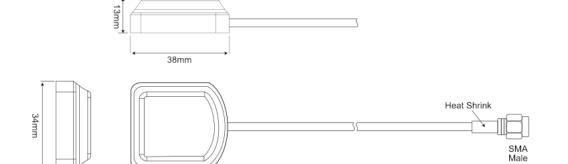
Dimensions:	L38 x W34 x H13 mm		
Cable:	RG174		
Connector:	SMA Male		
Material:	ABS		
Mounting method:	Magnetic		

#### **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 %





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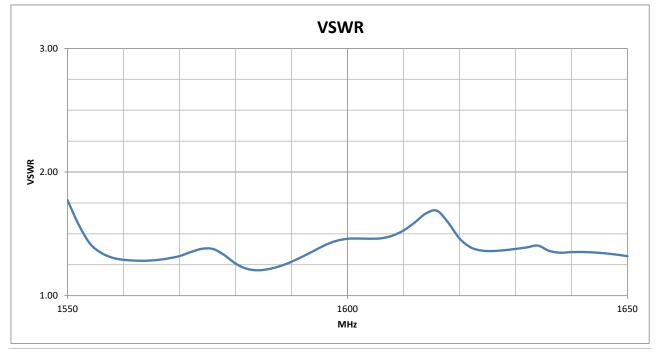


**GPS** Antenna



#### **Return Loss**

#### **VSWR**





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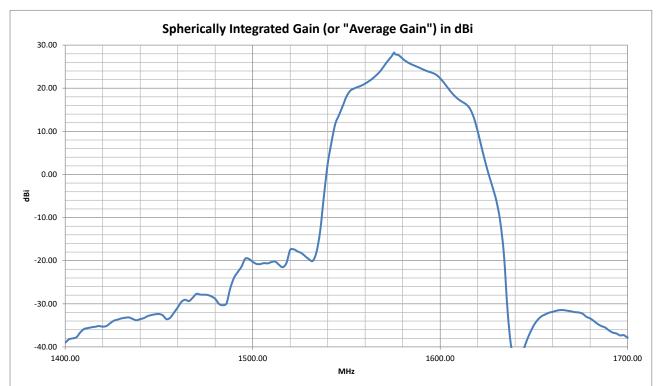
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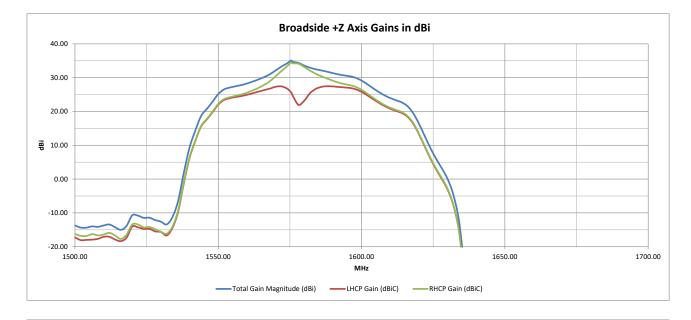




**GPS** Antenna



#### Gain



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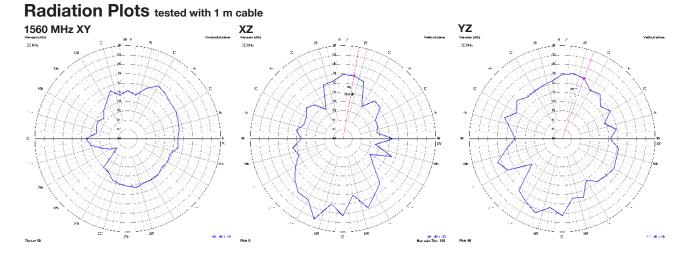
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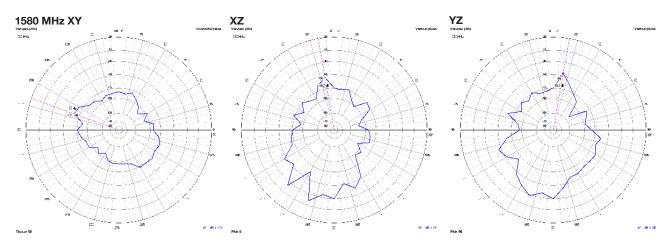
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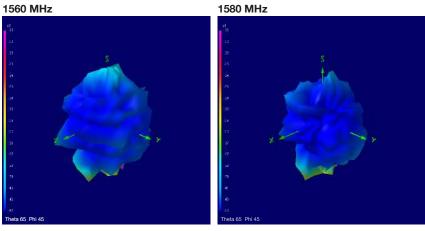




**GPS** Antenna

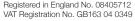
#### 3D Radiation Plots tested with 1 m cable

1560 MHz



#### **Ordering Details**

Part number	Description				
ALPHA4A/1M/SMAM/S/S/26	GPS ADHESIVE MOUNT ANTENNA SMA MALE CONNECTOR 1M CABLE				
ALPHA4A/5M/SMAM/S/S/26	6 GPS ADHESIVE MOUNT ANTENNA SMA MALE CONNECTOR 5M CABLE				
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