



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. Its 37 x 33mm footprint allows the Alpha 4A to fit onto most surface sizes quite comfortably, and with a modest height of only 13mm, it also provides an unobtrusive profile. The Alpha 4A comes with a strong self-adhesive base that provides a firm fixation to most flat surfaces, including: metal, glass, wood and plastic. The antenna is well suited to the harsher outdoor environment that GPS applications are often subject to. The Alpha 4A can be used for a host of different indoor or outdoor GPS applications or general positioning purposes.

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

# **Mechanical Specifications**

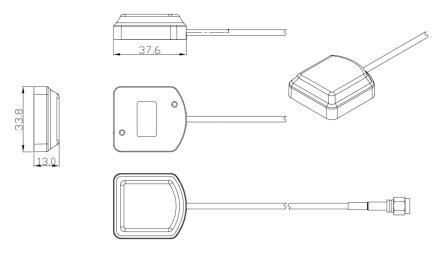
Dimensions:	L20 x W20 x H4mm
Cable:	RG174
Connector:	SMA Male
Material:	ABS
Mounting method:	Magnetic

## **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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#### 1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State Resize Tr1 S21 Log Mag 10.00dB/ Ref 0.000dB Tr2 S22 SWR 1.000/ Ref 1.000 Display 11.00 1 1.5754200 GHZ -9.0250 dB >1 1.5754200 GHZ 1.1424 Allocate Channels 10.00 Num of Traces 2 9.000 Allocate Traces Display 8.000 Data Data -> Mem 7.000 6.000 Data Hold Off 5.000 Equation Editor... Equation OFF 4.000 Edit Title Label 3.000 Title Label OFF Graticule Label 2.000 ON Invert Color ON 1.000 1 Center 1.57542 GHz IFBW 70 kHz Span 1 GHz Off ! Stop ExtRef Svc 2018-04-25 15:58 Meas

# Return Loss / VSWR

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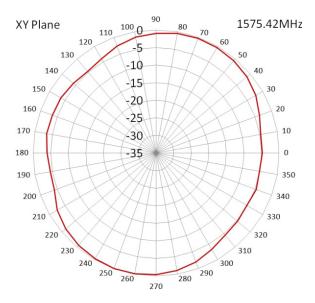
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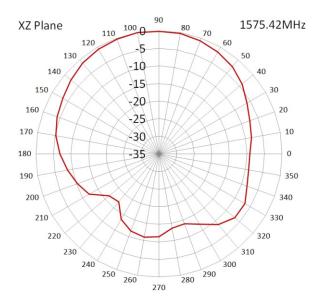


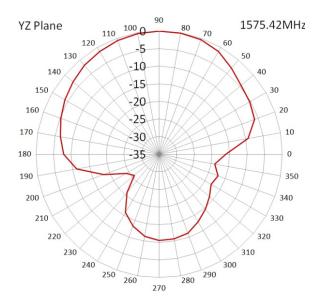


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## **Radiation Patterns**





# **Ordering Details**

Part number

Description

ALPHA4A/1M/SMAM/S/S/26 GPS Antenna

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