



## Alpha 6

Combined 2G/3G & GPS Puck Antenna



### Key Features

- Combined GPS and GSM/GPRS
- Adhesive pad mount
- Groundplane independent

### General Description

Combined quad band GSM/GPS adhesive pad mount antenna for use with tracking and location based applications.

It is a well specified design, which mounts on glass in vehicles and provides good performance.

Supplied as standard with either a 2m or 4m cable. The GPS cable has an SMA Male connector and the GSM cable has an FME female connector.

Alternative cable lengths or connector types can be specified for volume orders.

### Additional Considerations

- Dual antenna package saves cost on purchasing separate antennas
- Fast fit with the adhesive pad mount

2G  
GSM

3G  
UMTS

GPS  
Position



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### GPS Antenna - Dielectric Antenna

VSWR:	<1.5
Impedance:	50 Ohm
Axial Ratio:	3dB
Gain:	5dBic
Polarization:	RHCP
Center Frequency:	1575.42 + 1MHz

### GPS Antenna - LNA

Gain:	28 + 2dBi
Noise Figure:	<1.5
VSWR:	<2.0
Supply Voltage:	2.5 - 5V DC
Current Consumption:	5 - 15mA

### 2G/3G Antenna

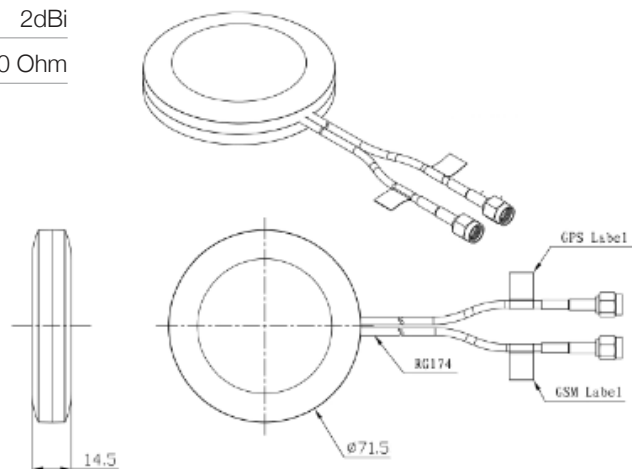
Frequency Range:	824 - 960MHz / 1710-2170MHz
VSWR:	<2.5
Polarization:	Linear
Gain:	2dBi
Impedance:	50 Ohm

### Mechanical Specifications

Connector:	L71.5 x H14.5mm Ø
Connector:	SMA Male GPS FME Female GSM
Cable:	RG174
Radome Material:	ABS
Mounting Method:	Magnet/Adhesive/Screw

### Environmental Specifications

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

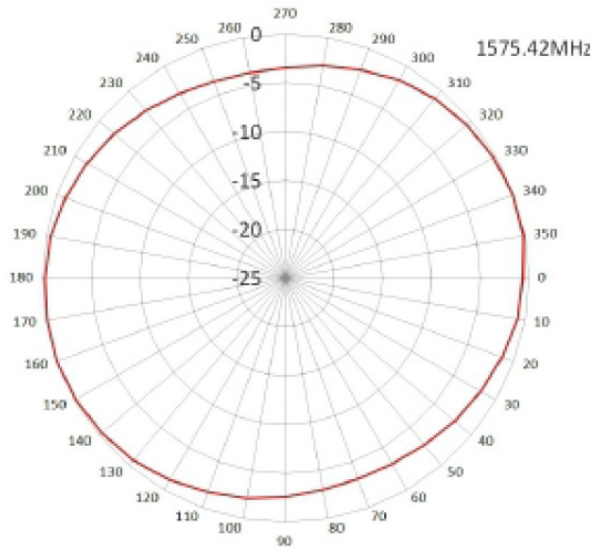




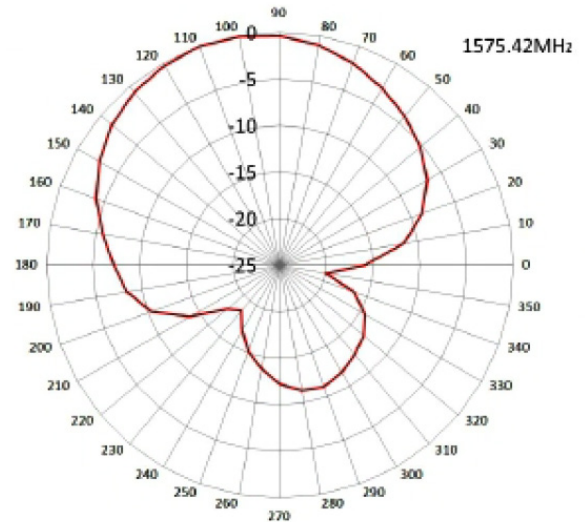
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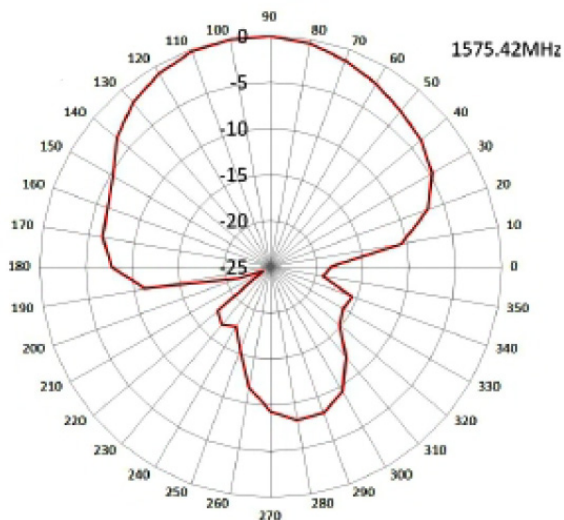
GPS Radiation plot XY Plane



GPS Radiation plot XZ Plane

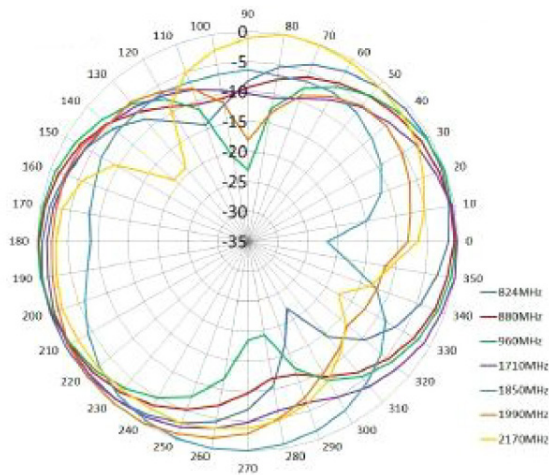


GPS Radiation plot YZ Plane

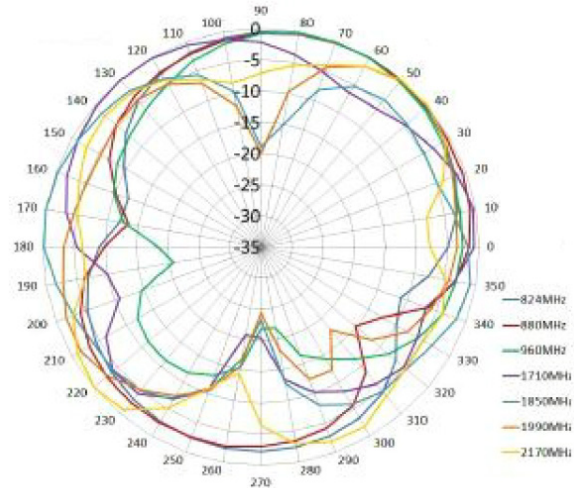




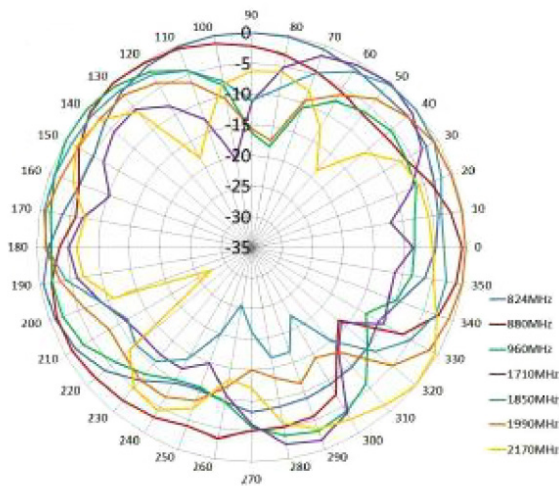
GSM Radiation plot XY Plane



GSM Radiation plot XZ Plane



GSM Radiation plot YZ Plane



## Ordering Details

Part Number	Description
ALPHA6/2M/SMAM/S/S/FMEF/S/S/7	Combined GSM / GPRS & GPS Puck Antenna 2M FME Female (GSM), SMA Male (GPS)