





### **Key Features**

- Balanced dipole design ground plane independent
- Low Loss PRO100 cable
- Flexible antenna construction suitable for fitting to largeradius, curved surfaces

### **General Description**

The Alpha 40 has been tuned to give maximum gain at 4G (2600MHz) frequency but only slightly lower gain at 2G (1700-1900MHz) and 3G (2100MHz) frequencies.

The antenna has two sticky pads to mount it wherever it is required. The pads ensure there is a small gap between the antenna and the surface it is to be mounted on.

The Alpha 40 is supplied with different length cables and SMA Male connectors. Alternative cable lengths and connectors can be supplied for volume orders.

### **Additional Considerations**

- Simple installation with adhesive pads
- Reduced attenuation from Low Loss cable
- Meets all EU compliance criteria for electronic goods



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Registered in England No. 08405712 VAT Registration No. GB163 04 0349 Siretta Ltd Basingstoke Road Spencers Wood Reading Berkshire RG7 1PW +44(0)118 976 9014 +44(0)118 976 9020 sales@siretta.com www.siretta.com



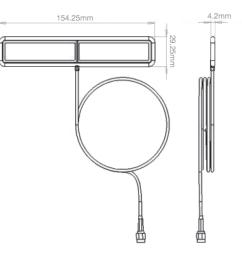


### **Electrical Specifications**

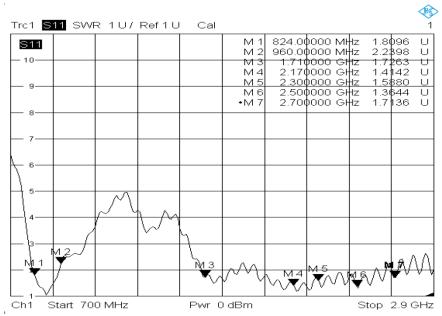
Operating Temperature range:	-30 - +60°C
Impedance:	50 Ohm
Peak Freq Band Gain:	0.5 / 1 / 2dBi
VSWR:	≤3:1
Beamwidth:	H-PLANE: 820~960MHz: 75° 1710~2170MHz: 47° 2300~2700MHz: 55°
Max Input Power:	1 Watt
Frequency:	824~960 / 1710 ~ 2170 / 2300 ~ 2700MHz
Polarization:	Vertical

### **Mechanical Specifications**

Dimensions:	154.25 x 29.25 x 4.2mm
Cable:	PRO100 low loss
Connector:	SMA Male
Radome Material:	PVC
Mounting Method:	Adhesive



### **VSWR**



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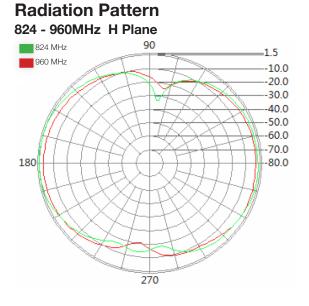
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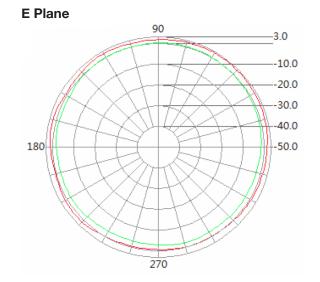




### Trc1 S11 dB Mag 10 dB / Ref 0 dB Cal 1 824.00000 MHz -10.877 dB 960.00000 MHz -8.4405 dB 1.710000 GHz -11.483 dB 2.170000 GHz -15.508 dB 2.300000 GHz -13.035 dB 2.500000 GHz -16.865 dB 2.700000 GHz -11.005 dB M 1 S11 M 2 10 M 3 M 4 <u>M 5</u> 0 М6 •М7 12 M 1 1₩ ъŊ -20 -30 -40 -50--60--70 Ch1 Start 700 MHz Pwr 0 dBm Stop 2.9 GHz

### **Return Loss**





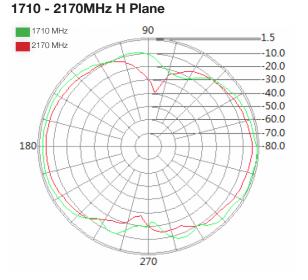
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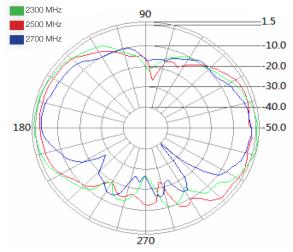




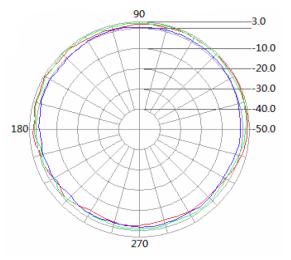


# E Plane

### 2300 - 2700MHz H Plane



E Plane



## **Ordering Details**

Part Number	Description	
ALPHA40/1.5M/SMAM/S/S29	T-bar 2G/3G/4G Antenna, 1.5m PRO 100 Cable, SMA Male Connector	
ALPHA40/2.5M/SMAM/S/S29	T-bar 2G/3G/4G Antenna, 2.5m PRO 100 Cable, SMA Male Connector	
ALPHA40/5M/SMAM/S/S29	T-bar 2G/3G/4G Antenna, 5m PRO 100 Cable, SMA Male Connector	
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