



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Key Features

- Compact size: 35 x 6mm
- Flexible connector and cable options
- Quad band GSM and 3G
- ISM: 868 and 915MHz
- Ground plane independent
- RoHS compliant

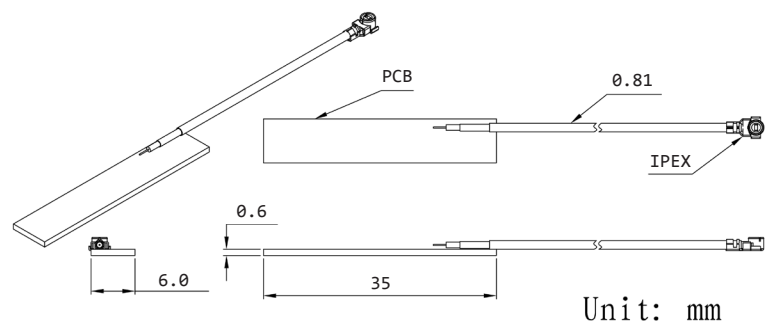
General Description

Siretta multi purpose PCB antennas are based on an efficiently tuned PCB Element that is matched and embedded to work with a wide variety of RF & M2M modules operating on quad band GSM, 3G and ISM frequencies.

Proven in many embedded applications, it is groundplane independent and compact making it a popular choice where a small size is important. Its wide ranging connector and cable options makes it a convenient antenna for a quick design in whilst the miniature design allows it to fix to the inside of an enclosure or side of PCB.

Additional Considerations

- 35mm x 6mm allows easy integration into small devices
- Allows easy selection and quick integration into target application
- Works with quad band GSM / GPRS devices, 3G and ISM
- Can be mounted on a wide range of surfaces or to float inside equipment
- Meets all EU compliance criteria for electronic goods.



Rev 1.5

Key Specifications - Electrical

Temperature range:	-40 to +85°C
Impedance:	50 ohm
VSWR:	<2.0
Operating frequency:	824 ~ 960MHz 1710 ~ 2170MHz
Polarization:	Linear
Radiating element:	¼ wave dipole

Key Specifications - Mechanical

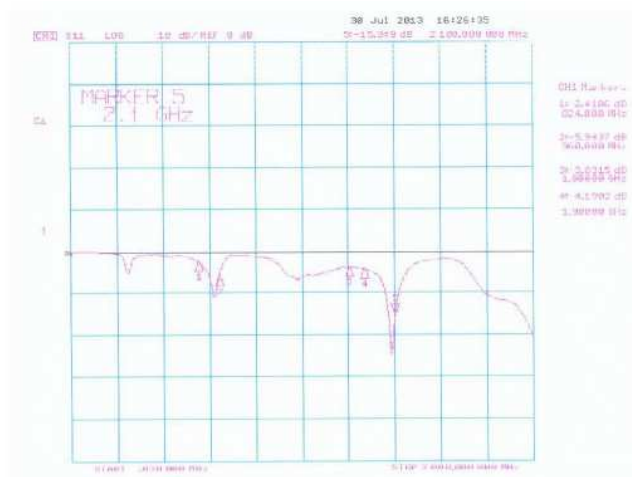
Dimensions:	35 x 6 x 0.6mm (without cable)
Cable:	100 - 150mm (RF 1.13mm)
Connector:	IPEX, GSC
Mounting method:	Adhesive
RoHS Compliant:	Yes

Gain

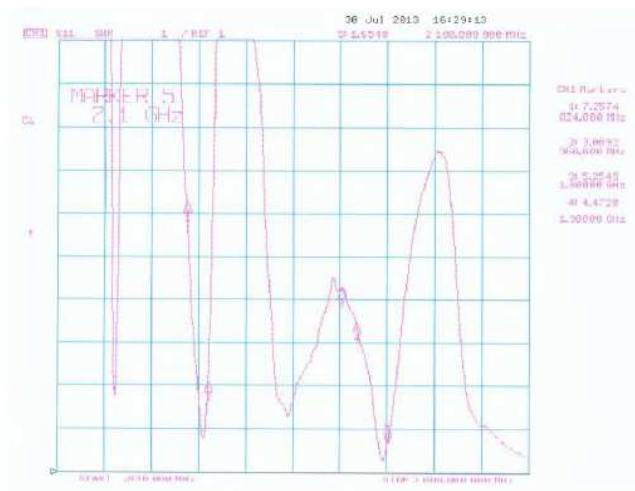
ISM	
868MHz:	-0.4dBi
915MHz:	-0.8dBi
GSM	
850MHz:	-1.95dBi
900MHz:	-0.92dBi
1800MHz:	0.78dBi
1900MHz:	1.13dBi
3G	
2100MHz:	3.66dBi

Test Results

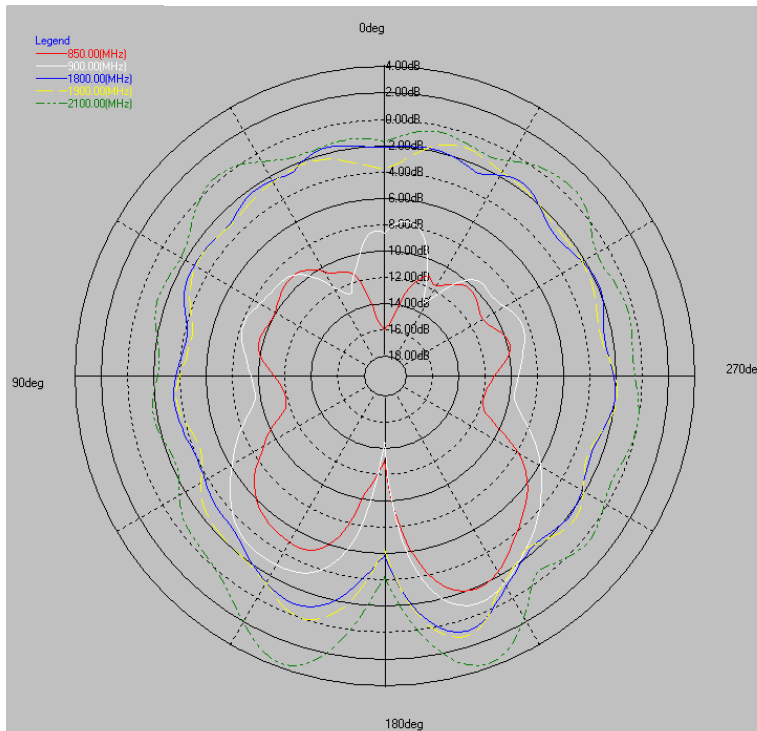
VSWR Graph



SWR Graph



Gain vs. Frequency Graph



UL Tested (Basingstoke, UK)
Part: ECHO 1A

Ordering Details

Part Number	Description
ECHO1A/0.1M/IPEX/S/S/11	Quad Band GSM, 3G and ISM PCB Antenna, 100mm Cable, IPEX Connector
ECHO1A/0.2M/IPEX/S/S/11	Quad Band GSM, 3G and ISM PCB Antenna, 200mm Cable, IPEX Connector
ECHO1A/0.1M/GSC/S/S/11	Quad Band GSM, 3G and ISM PCB Antenna, 100mm Cable, GSC Connector
ECHO1A/0.2M/GSC/S/S/11	Quad Band GSM, 3G and ISM PCB Antenna, 200mm Cable, GSC Connector

Other cables length and connector styles available on request.