

ECHO 1A Quad Band GSM / GPRS, 3G & ISM PCB Antenna



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.

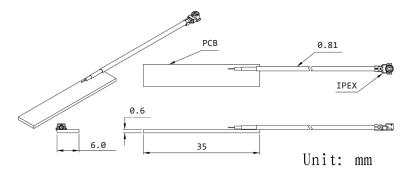
Proven in many embedded applications, it is groundplane independent and compact making it a popular choice where a small size is important. Its wide ranging connector and cable options makes it a convenient antenna for a guick design in whilst the miniature design allows it to fix to the inside of an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

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

Additional Considerations

- 35mm x 6mm allows easy integration into small devices
- Allows easy selection and quick integration into target application
- Works with guad 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.



fax

web



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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:	1/4 wave dipole

Key Specifications - Mechanical

Dimensions:	35 x 6 x 0.6mm (without cable)

Mounting method:	Adhesive
RoHS Compliant:	Yes

Gain

ISM		
868MHz:	-0.4dBi	
915MHz:	-0.8dBi	

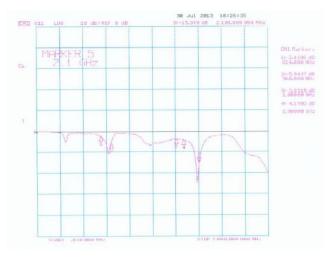
GSM

850MHz:	-1.95dBi
900MHz:	-0.92dBi
1800MHz:	0.78dBi
1900MHz:	1.13dBi

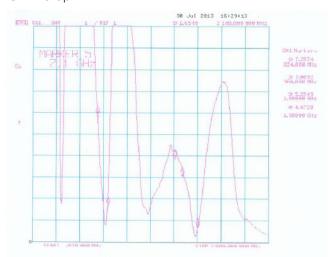
3G

Test Results

VSWR Graph



SWR Graph



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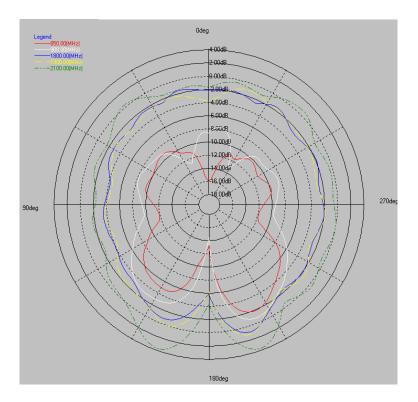
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Gain vs. Frequency Graph



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

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