



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!



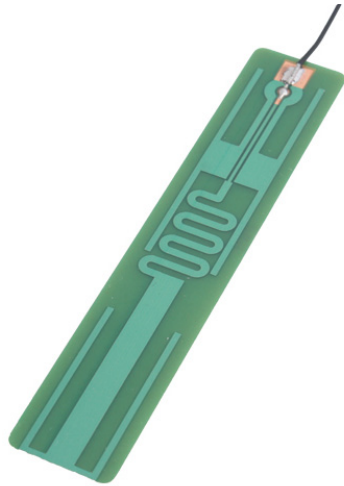
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## Key Features

- Flexible connector and cable options
- Groundplane independent
- Wide frequency range
- Compact size
- RoHS compliant

## General Description

Siretta multipurpose PCB antennas are based on an efficiently tuned element that is matched with a wide variety of RF & M2M modules operating on Cellular, 868 and 2.6GHz ISM band frequencies. It is designed for embedded applications.

We are proud to present our first 4G PCB antenna, the Echo 14, measuring just 20mm x 105mm, The Echo 14 represents the latest technology, and is designed now to cover all frequencies from 800Mhz, to 2.6Ghz (4G)

Already proven in many applications where space is at a premium, this product is ideal as it is ground plane independent and compact making it a popular choice where a small size combined with efficient performance is critical. Its wide ranging connector and cable options also makes it a viable antenna where a quick design in and fast time to market is important.

## Additional Considerations

- Allows easy selection and quick integration into target application
- Can be mounted on any surface
- Works with quad band GSM / GPRS devices, 3G and 4G modules
- 20 x 105mm allows easy integration into small devices
- Meets all EU compliance criteria for electronic goods

Rev 1.2

### Key Specifications - Electrical

Operating temperature range:	-20 to +60°C
Storage temperature range:	-30 to +70°C
Impedance:	50 ohm
VSWR:	3.2:1
Frequency:	800/900/1800/1900/ 2100MHz/ 2.6GHz
Polarization:	Vertical

### Key Specifications - Mechanical

Dimensions:	20mm x 105mm x 1mm
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### Gain

#### GSM

850MHz:	1.44dBi
900MHz:	0.72dBi
1800MHz:	1.73dBi
1900MHz:	2.79dBi

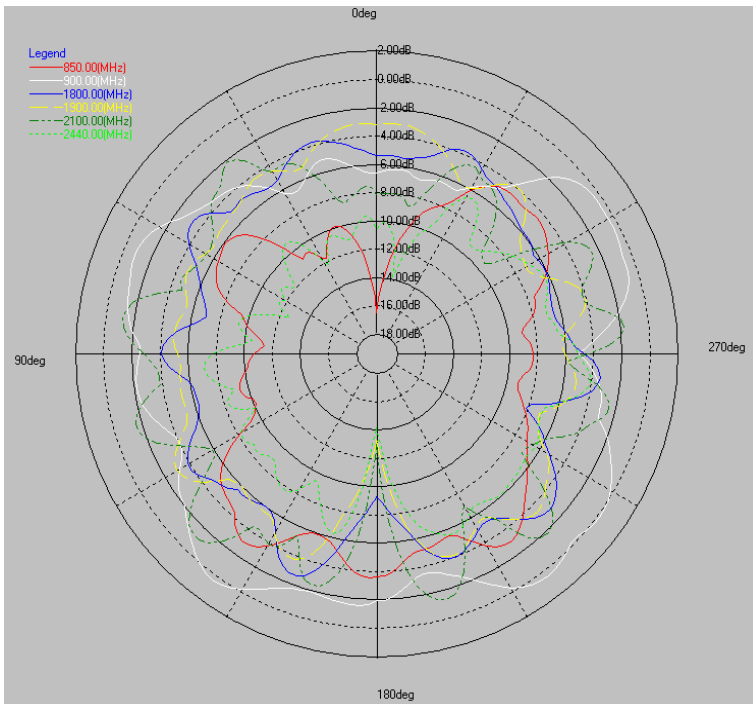
#### 3G

2100MHz:	2.84dBi
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#### 4G

2600MHz	2.44dBi
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### Gain vs. Frequency Graph



**UL Tested (Basingstoke, UK)**  
Part: ECHO14/200M/UFL/S/S/15

### Ordering Details:

Part Number	Description
ECHO14/200M/UFL/S/S/15	4G PCB Antenna, 200mm Cable, UFL Connector