

### Key Features

- Compact size: 76 x 25 x 1.7mm
- Flexible connector and cable options
- Wide frequency range: 800MHz - 2.4GHz
- Ground plane independent
- RoHS compliant

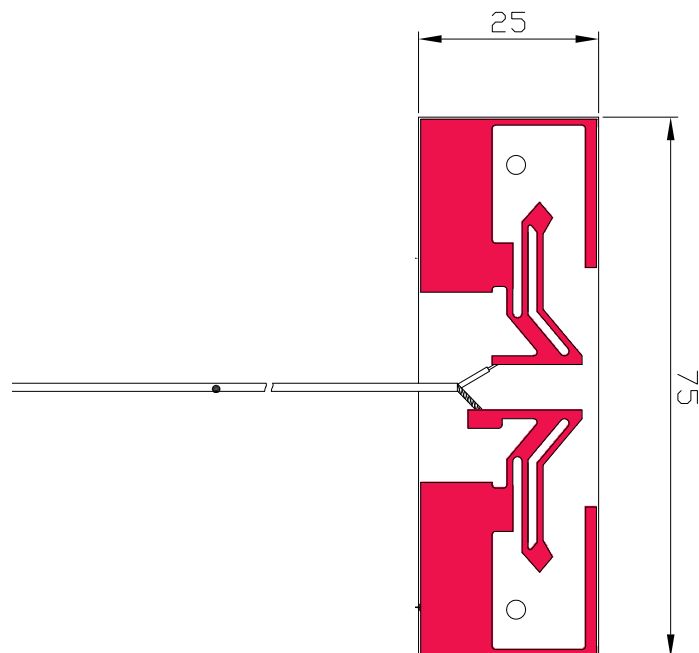
### General Description

Siretta multipurpose PCB antennas are based on an efficiently tuned element, matched with a wide variety of RF & M2M modules operating on Cellular, 868 and 2.4GHz ISM band frequencies. It is designed for embedded applications.

Proven in many applications where space is at a premium, Echo 2 is a complete 1/4 wave dipole and therefore ground plane independent. It is a compact PCB antenna and a good all round performer making it a popular choice where a small size combined with efficient performance is critical. 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

- Easy selection makes antenna suitable for many modules
- Operates on worldwide GSM / GPRS networks, plus many LTE frequencies, WiFi + Bluetooth and can be used for 868MHz ISM band



Rev 1.1

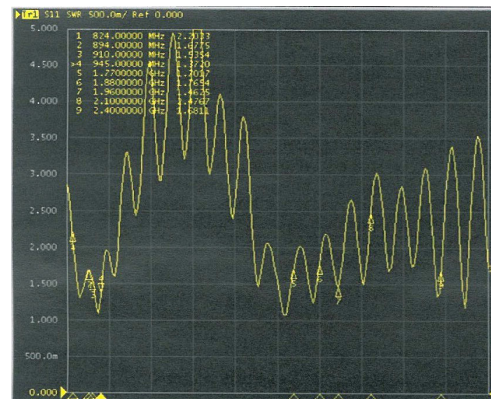
#### Key Specifications - Electrical

|                              |   |
|------------------------------|---|
| Operating temperature range: | -30 to +70°C  |
| Impedance:                   | 50 ohm  |
| Gain:                        | 2dBi  |
| VSWR:                        | 2:1   |
| Operating frequencies:       | GSM / GPRS - 850, 900,MHz<br>1.8, 1.9 GHz<br>3G - 1.9, 2.1GHz<br>4G - 900, 1.8GHz<br>ISM - 868MHz, 2.4GHz |
| Polarization:                | Vertical  |
| Radiating element:           | ¼ wave dipole   |

#### Key Specifications - Mechanical

|                  |  |
|------------------|--|
| Dimensions:      | 75mm x 25mm x 1.7mm (without cable)      |
| Cable:           | Please refer to options table below*     |
| Connector:       | Please refer to options table below      |
| Mounting method: | Adhesive or screw mount for internal use |

#### VSWR Test Report



#### Ordering Details

| Part Number             | Description  |
|-------------------------|--|
| ECHO2/0.1M/UFL/S/S/1    | Multi Band GSM/GPRS/3G/4G and WiFi PCB Antenna, 100mm Cable, UFL Connector                   |
| ECHO2/0.2M/UFL/S/S/1    | Multi Band GSM/GPRS/3G/4G and WiFi PCB Antenna, 200mm Cable, UFL Connector                   |
| ECHO2/0.1M/MMCX/S/RA/1  | Multi Band GSM/GPRS/3G/4G and WiFi PCB Antenna, 100mm Cable, MMCX Male Right Angle Connector |
| ECHO2/0.15M/MMCX/S/RA/1 | Multi Band GSM/GPRS/3G/4G and WiFi PCB Antenna, 150mm Cable, MMCX Male Right Angle Connector |
| ECHO2/0.2M/MMCX/S/RA/1  | Multi Band GSM/GPRS/3G/4G and WiFi PCB Antenna, 200mm Cable, MMCX Male Right Angle Connector |
| ECHO2/0.25M/MMCX/S/S/1  | Multi Band GSM/GPRS/3G/4G and WiFi PCB Antenna, 250mm Cable, MMCX Male Connector             |
| ECHO2/0.1M/GSC/1        | Multi Band GSM/GPRS/3G/4G and WiFi PCB Antenna, 100mm Cable, GSC Connector                   |
| ECHO2/0.15M/GSC/1       | Multi Band GSM/GPRS/3G/4G and WiFi PCB Antenna, 150mm Cable, GSC Connector                   |

\*Cable for UFL/GSC connectors is 1.13mm Coax. For large connectors RG174 cable is used.

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