



Echo 18

WiFi / WLAN PCB Antenna

Key Features

- Compact size
- 2.4 - 2.5GHz operation
- WiFi, Bluetooth, Zigbee and ISM Band 2450MHz compatible



General Description

The Echo 18 is a WiFi / WLAN dedicated PCB antenna tuned between 2.4 and 2.5GHz. Achieving a peak gain of 0.8dBi.

It is suitable for applications where internal space for components is extremely limited or when using an external antenna is simply not appropriate. The small design allows this antenna to be simply fixed to the inside of an enclosure.

Echo 18 is therefore suitable for a host of wireless IoT applications that require a space conscious embedded antenna solution.

Additional Considerations

- Small size allow easy integration into devices
- Meets all EU compliance criteria for electronic goods





Echo 18

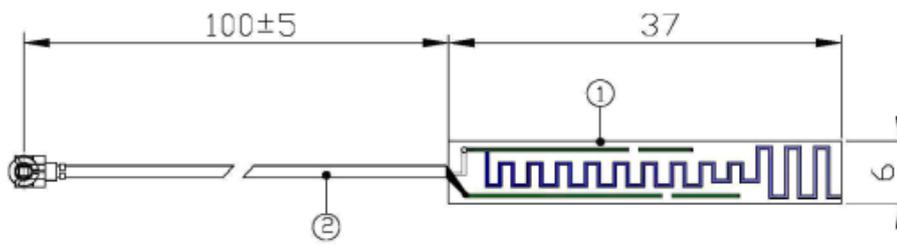
WiFi / WLAN PCB Antenna

Electrical Specifications

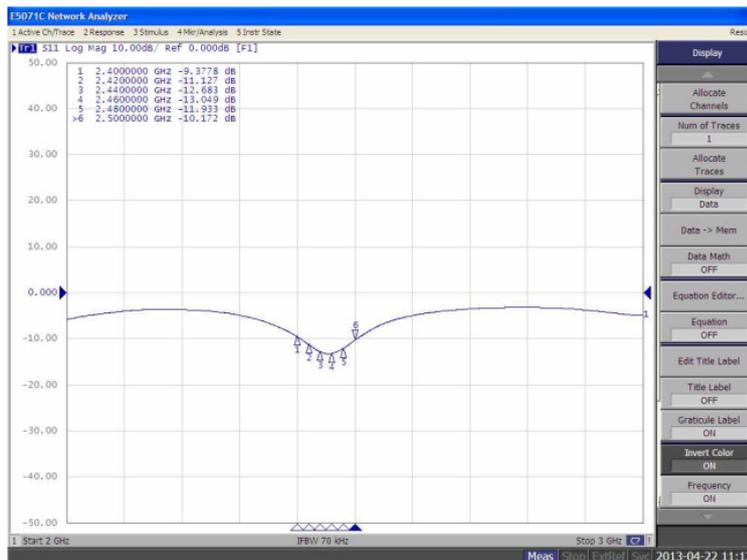
Operating Temperature range:	-30 - +30°C
Storage Temperature:	-35 - +75°C
Frequency Band:	2.4 GHz
Impedance:	50 Ohm
VSWR:	2.0:1
Peak Gain:	0.8 dBi
Polarization:	Vertical

Mechanical Specifications

Dimensions:	L37 x W6 x H0.7mm (without cable)
Cable Dimensions:	100 x 1.13mm
Connector:	UFL



Return Loss

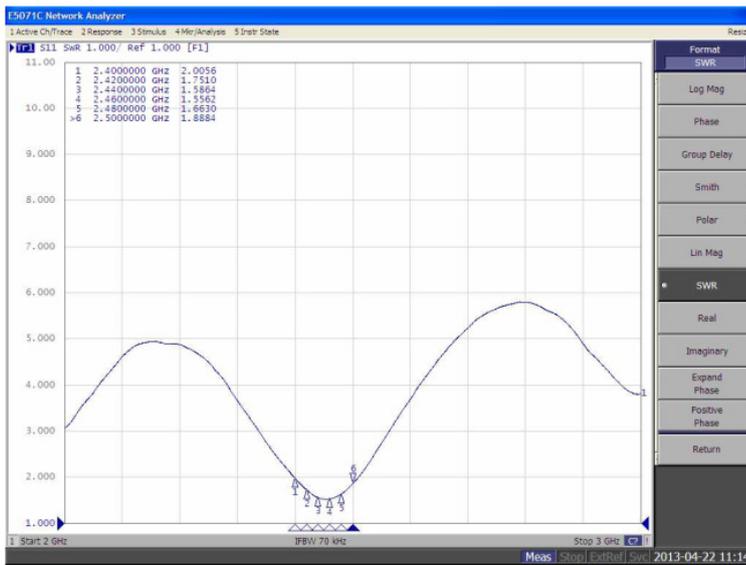




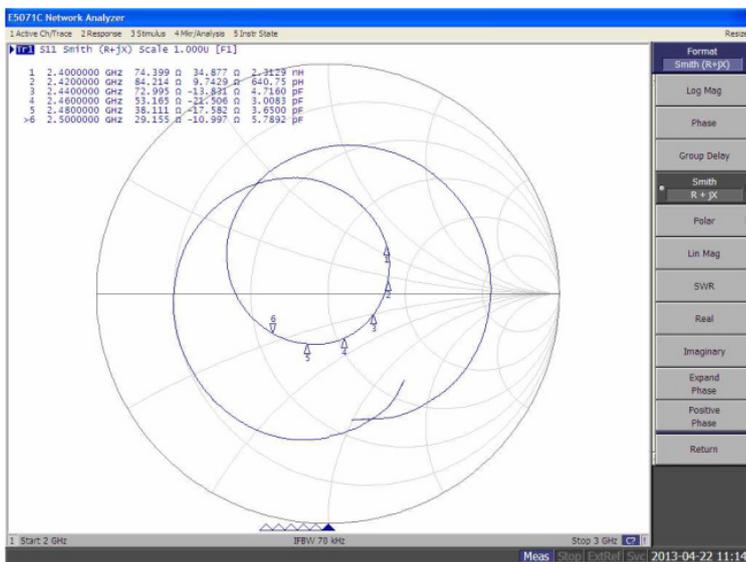
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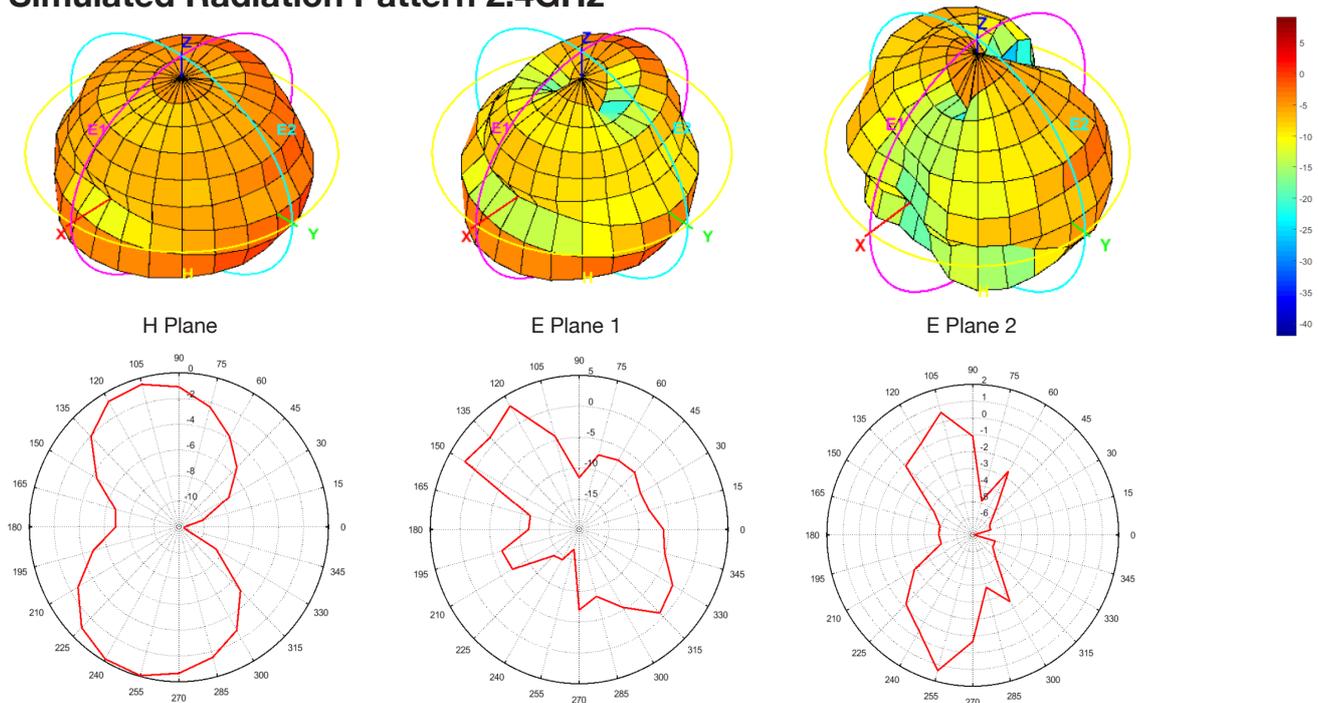
VSWR



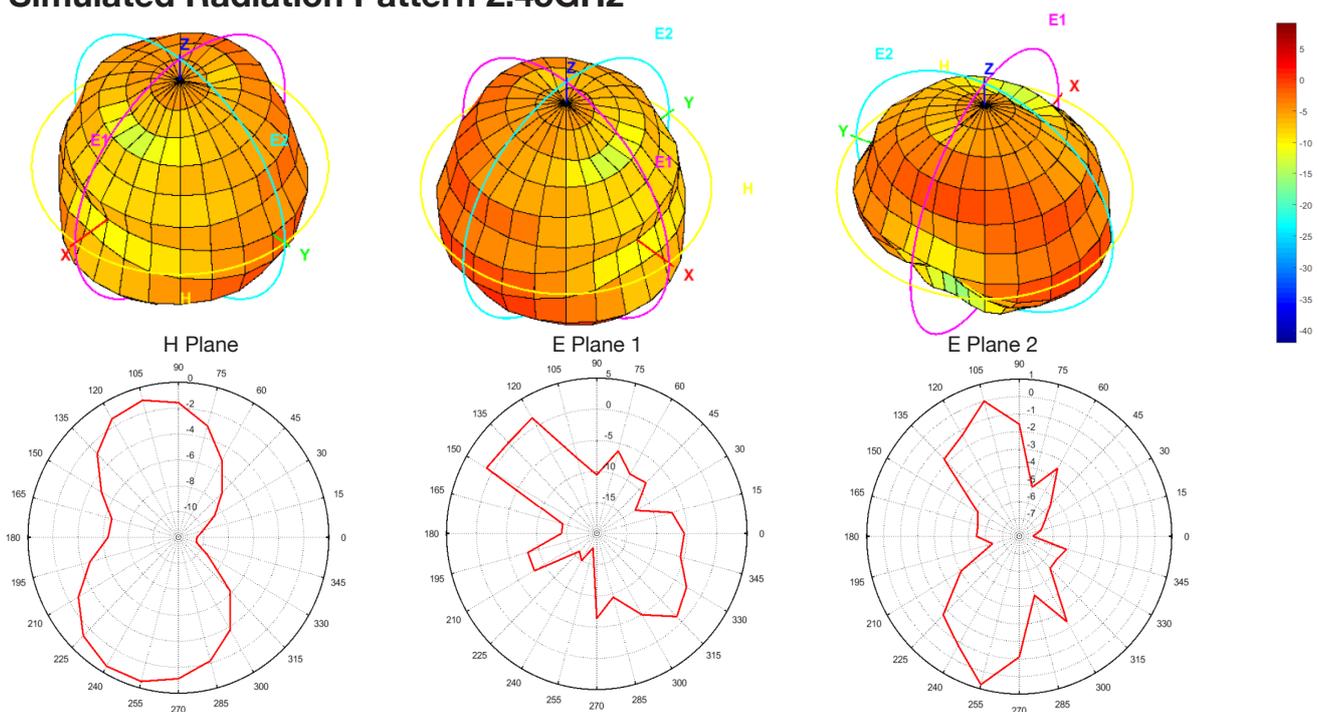
Smith Chart



Simulated Radiation Pattern 2.4GHz

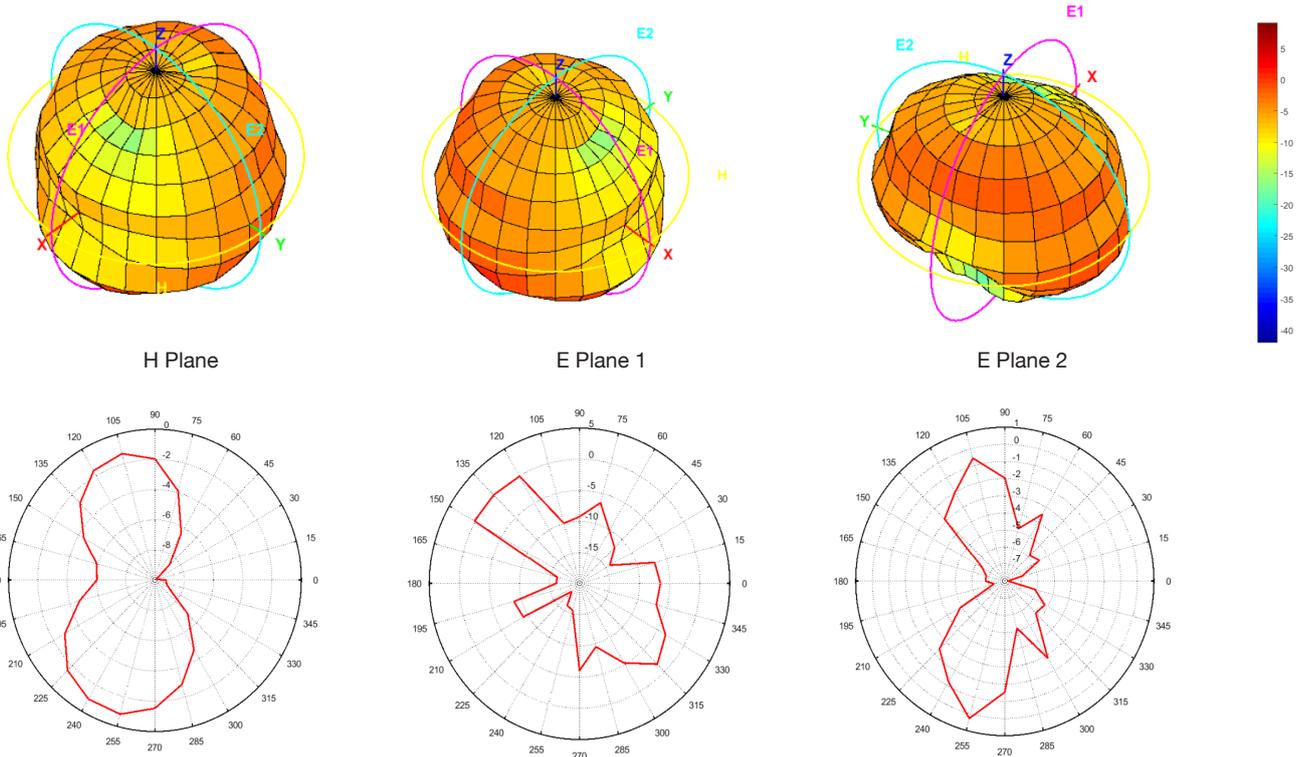


Simulated Radiation Pattern 2.45GHz





Simulated Radiation Pattern 2.5GHz



Ordering Details

Part Number	Description
ECHO18/0.1M/UFL/S/S/15	WiFi / WLAN PCB Antenna 100mm uFL