



Key Features

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

General Description

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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



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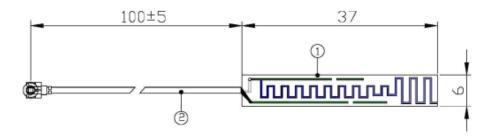


Electrical Specifications

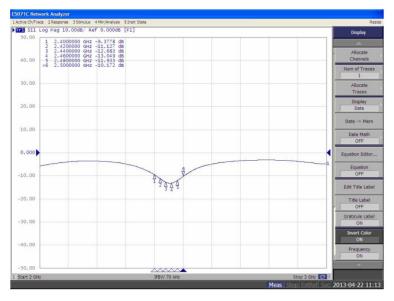
Operating Temperature range:	-30 - +30°C
Storage Temperature:	-35 - +75°C
Frequency Band:	2.4 GHz
Impedance:	50 Ohm
VSWR:	2.0:1
Peak Gain:	0.8 dBi
Polarization:	Vertical

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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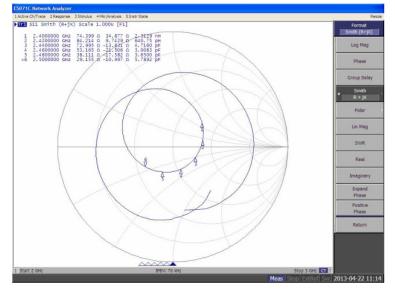




Active Ch/Trace 2 Response 3 Stimulus 4 Mir/Anal 11.00 1 2.4000000 GHZ 2.0056 2 2.4200000 GHZ 1.7510 3 2.4400000 GHZ 1.5864 4 2.4600000 GHZ 1.5862 5 2.4800000 GHZ 1.6630 >6 2.5000000 GHZ 1.8884 10.00 Phase 9.000 Group Delay Smith 8,000 Polar 7.000 Lin Mag 6.000 Real 5.000 Imaginary Expand Phase 4.000 3.000 Return 2.000 2999 1.0 Hz 📿 !

Smith Chart

VSWR



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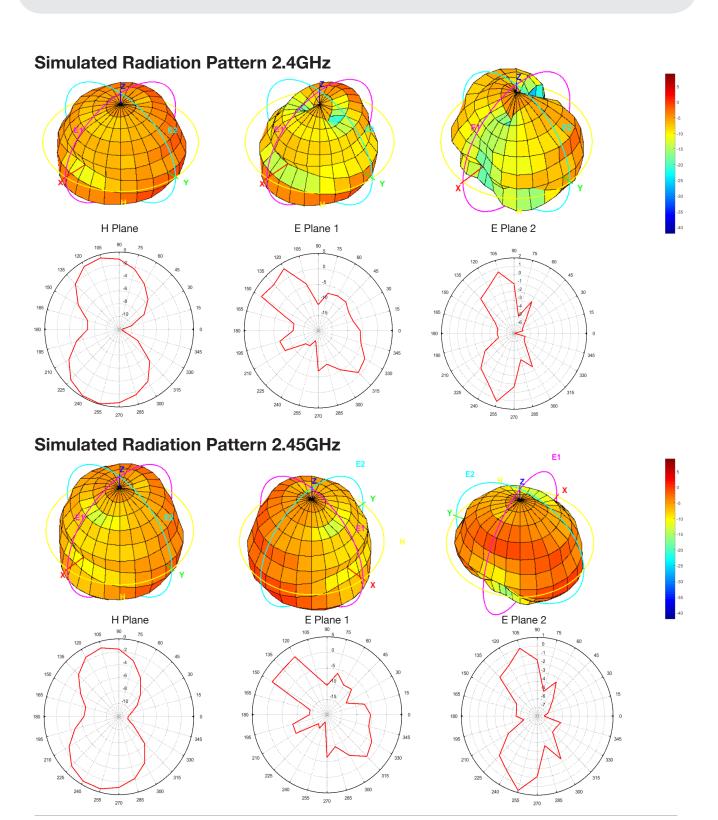
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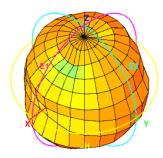


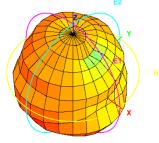
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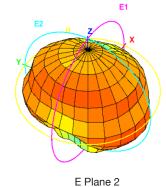
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Echo 18 WiFi / WLAN PCB Antenna

Simulated Radiation Pattern 2.5GHz

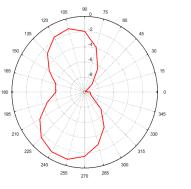


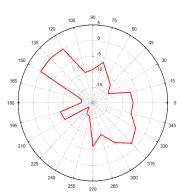


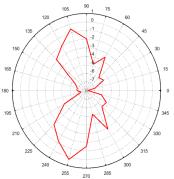


H Plane









105 90 75
120 0 60
135 45
165 15
180
195
210 330
225 315
240 300
255 ₂₇₀ 285

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

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