Siretta

Enabling Industrial IoT

Echo 28b

Flexible Printed Circuit Board Dual WiFi 2.4 and 5.8GHz Antenna

Key Features

- Flexible radiating element
- WiFi, Bluetooth & ZigBee compatible
- 2.4 to 2.5GHz and 5.1 to 5.8GHz operating frequencies

General Description

The Echo 28b in an improved dual band design for WiFi / WLAN Flexible Printed Circuit Board (FPC) antenna. It is tuned to both the 2.4 to 2.5GHz band and 5.1 to 5.8GHz band supporting: WiFi, Bluetooth, Zigbee and ISM based applications.

The FPC design means the Echo 28b is capable of bending around objects. Providing a unique way of integrating the antenna compared to a rigid PCB design.

Alternative cable lengths and connector types to the standard product can be specified for volume orders.

Additional Considerations

- Designed for embedded integration
- Thin lightweight design for small spaces
- Meets all EU compliance criteria for electronic goods

E Embedded | WLAN 2400 | ISM 2450 | BLE Bluetooth

ZB Zigbee | WLAN 5800

Registered in England No. 08405712
VAT Registration No. GB163 04 0349

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Rev 1.0

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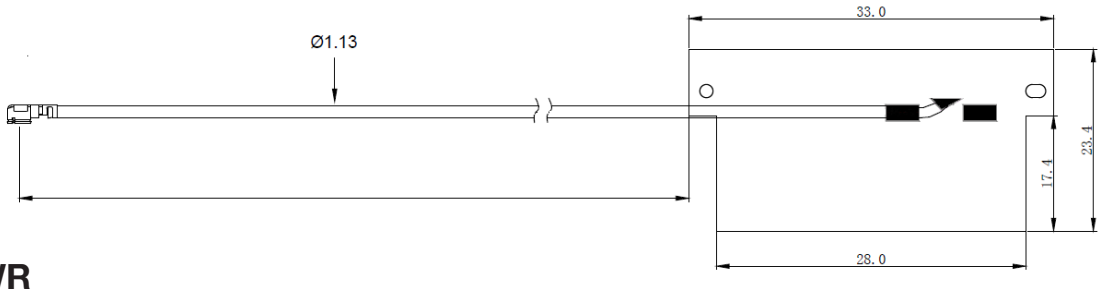
Electrical Specifications

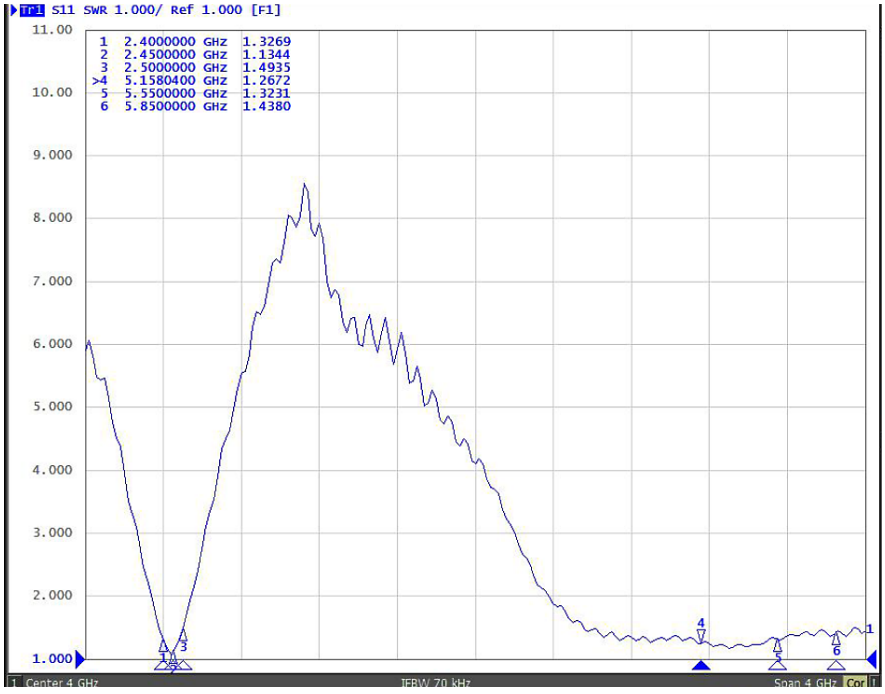
Operating temperature:	-10 - +60°C
Storage Temperature:	-10 - +70°C
Frequency Range:	2.4GHz - 2.5GHz 5.15GHz - 5.8GHz
Impedance:	50 Ohm
Peak Gain:	3.0dBi @2.47GHz (excluding cable loss)
VSWR:	1.5:1 max
Radiation:	Omni-directional
Polarization:	Vertical

Mechanical Specifications

Dimensions:	L33 x W23.4 x H1mm excludes cable and connector
Cable:	1.13mm Ø
Connector:	IPEX
Mounting Method:	Embedded



VSWR



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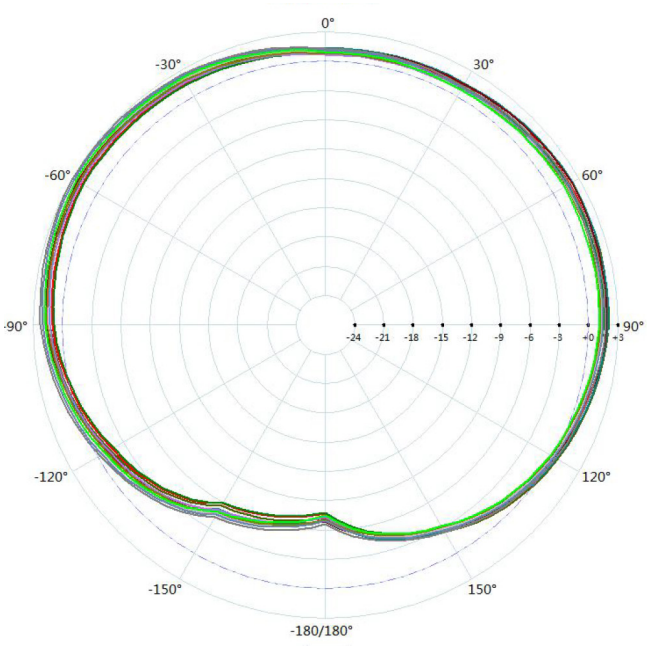
Gain & Efficiency

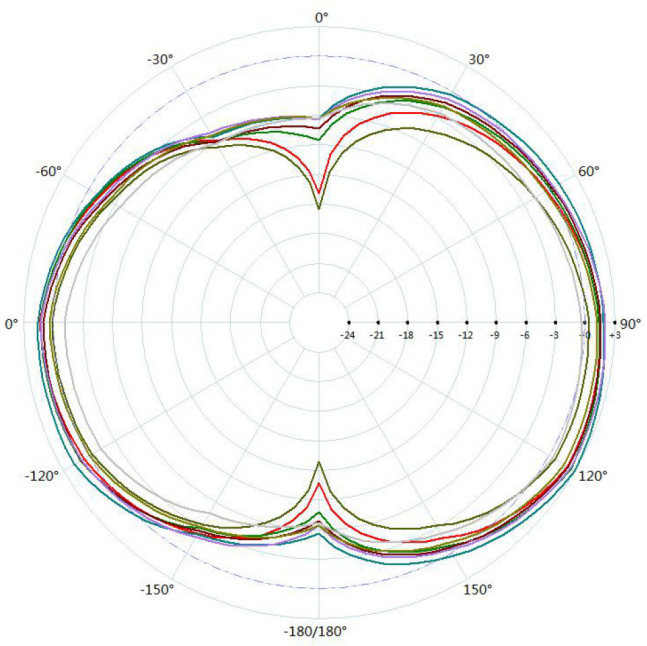
Frequency GHz	2.4	2.45	2.5	5.15	5.45	5.85
Peak Gain (dBi)	2.26	2.26	2.87	2.49	2.35	2.39
Efficiency %	73.79	72.44	77.09	73.05	69.77	70.98

Radiation Patterns - XY Plane

2.4GHz



5.8GHz



Ordering Details:

Part number	Description
ECHO28b/0.1M/IPEX/S/S/30	FLEXIBLE DUAL BAND 2.4GHz/5.8GHz WIFI ANTENNA 100MM 1.13MM COAX & IPEX CONNECTOR
ECHO28b/0.5M/IPEX/S/S/30	FLEXIBLE DUAL BAND 2.4GHz/5.8GHz WIFI ANTENNA 500MM 1.13MM COAX & IPEX CONNECTOR

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