

## Delta 19

Wireless LAN and Bluetooth 'Mini-Stubby' Antenna

### Key Features

- Wireless LAN and Bluetooth frequencies
- Super Miniature Covert 19mm length
- SMA Male/SMA Male Reverse Polarity connector
- Groundplane Independent 5/8 wave design
- Wide operating temperature range



### General Description

The Delta 19 is the smallest available, direct connect 2.4GHz stubby antenna at 19mm long including the connector. This antenna is available with the SMA male and the Reverse polarity SMA male connectors. This range of very compact 2.4GHz direct connect antennas are likely to be dominant in the stubby antenna market given their performance and size.

The Delta 19 is commonly used with WiFi, Bluetooth and Zigbee applications. The antenna is ideally suited for covert situations where limiting antenna size is a critical consideration.

### Additional Considerations

- Ensures antenna can be discretely mounted
- Does not rely on mounting on metallic surface
- WiFi, Bluetooth and ZigBee compatible
- Direct device connection
- Omnidirectional radiation

## Delta 19

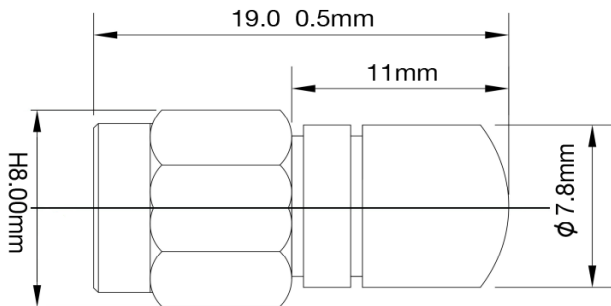
Wireless LAN and Bluetooth 'Mini-Stubby' Antenna

### Electrical Specification

Impedance:	50 ohm
Gain:	0dBi
VSWR:	<2
Frequency:	2.4GHz - 2.5GHz
Electric wave:	5/8 monopole antenna

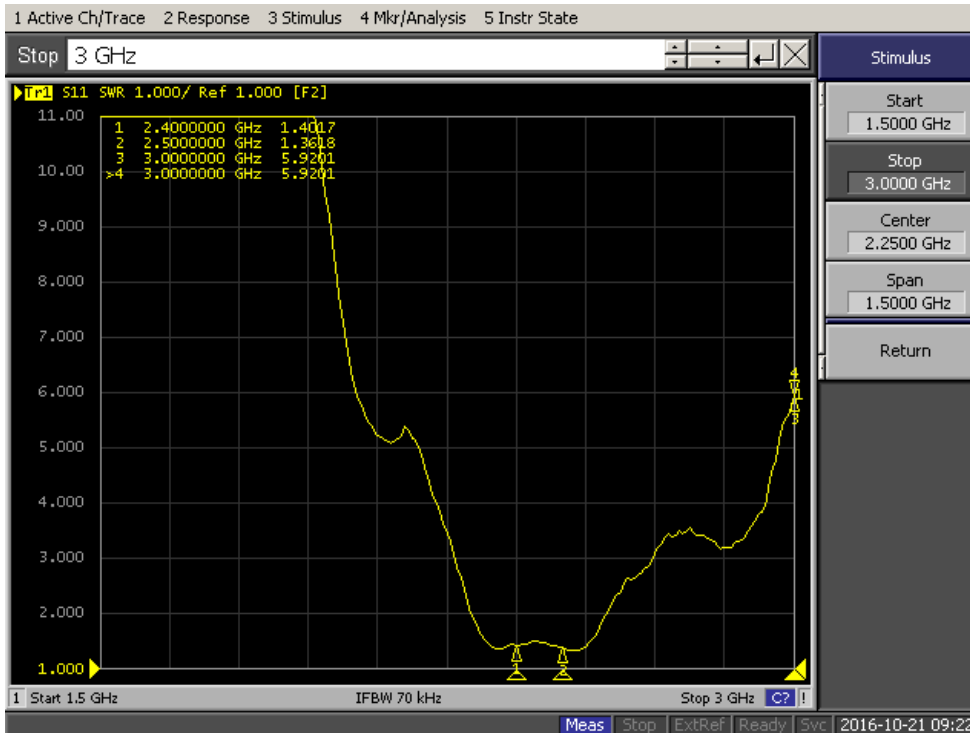
### Mechanical Specification

Dimensions:	19mm length
Operating temperature:	-25 to +75°C
Storage temperature:	-30 to +75°C
Connector:	SMA Male / SMA Male RP
Mounting method:	Direct connect



### Test Data

#### VSWR

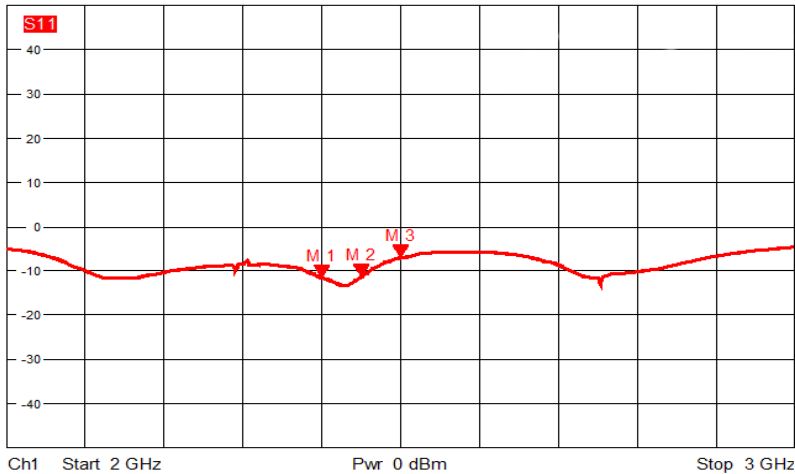


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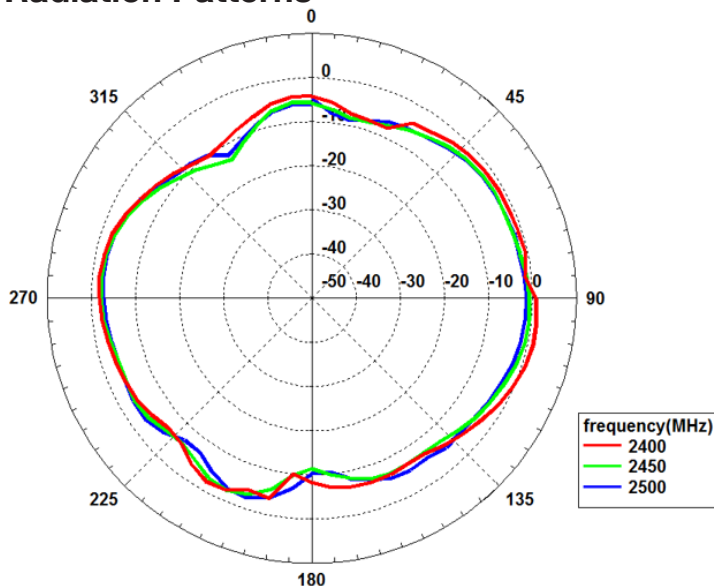
### Return Loss

Trc1 S11 dB Mag 10 dB / Ref 0 dB Cal int



M1: 2.4 GHz 11.512 dB  
M2: 2.45 GHz 11.375 dB  
M3: 2.5 GHz 7.000 dB

### Radiation Patterns



### Ordering Details

Part Number	Description
DELTA19/X/SMAM/S/S/35	Wireless LAN and Bluetooth 'Mini-Stubby' Antenna, SMA Male
DELTA19/X/SMAM/RP/S/35	Wireless LAN and Bluetooth 'Mini-Stubby' Antenna, SMA Male Reverse Polarity