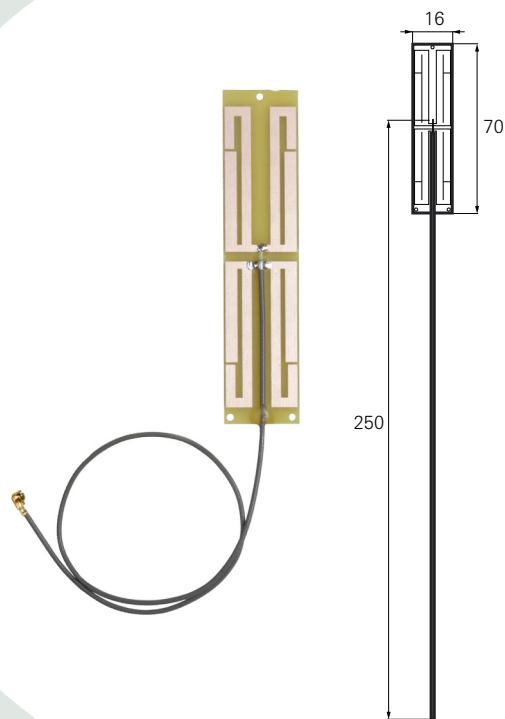


# Access Point Router 802.11n Antenna

PWB Antenna with feed cable. Pulse Part Number: W3513



## Features

- Low profile
- Omni directional gain in XY-plane
- Size W x L x H (16 x 70 x 0.9 mm)
- Antenna feed cable length: 250mm (total) / 212mm (from radiator edge)
- Antenna feed cable: 1.13mm OD with U.FL compatible connector
- Lead free materials
- RoHS Compliant Product

## Applications

- Access point routers 802.11n
- WLAN/WiFi 802.11a/b/g/n

## Electrical specifications @ +25 °C

*Note: Electrical characteristics are measured on free space.*

### 2.4 – 2.5 GHz

Typical free space performance

Frequency Range [GHz]	2.4 – 2.5
Linear Average Gain [dBi]	-3,5
3D Peak Gain [dBi]	2,0
Total 3D Efficiency [%] / [dB]	72 / -1,4 (peak) 69 / -1,6 (band edges)
Return loss min. [dB]	-10
Impedance [Ω]	50
Operating Temperature [°C]	-40 to +85

### 4.9 – 5.85 GHz

Typical free space performance

Frequency Range [GHz]	4.9 – 5.85
Linear Average Gain [dBi]	-4,5
3D Peak Gain [dBi]	2,0
Total 3D Efficiency [%] / [dB]	65 / -1,9 (peak) 50 / -3.0 (band edges)
Return loss min. [dB]	-10
Impedance [Ω]	50
Operating Temperature [°C]	-40 to +85

## Pulse Finland Oy

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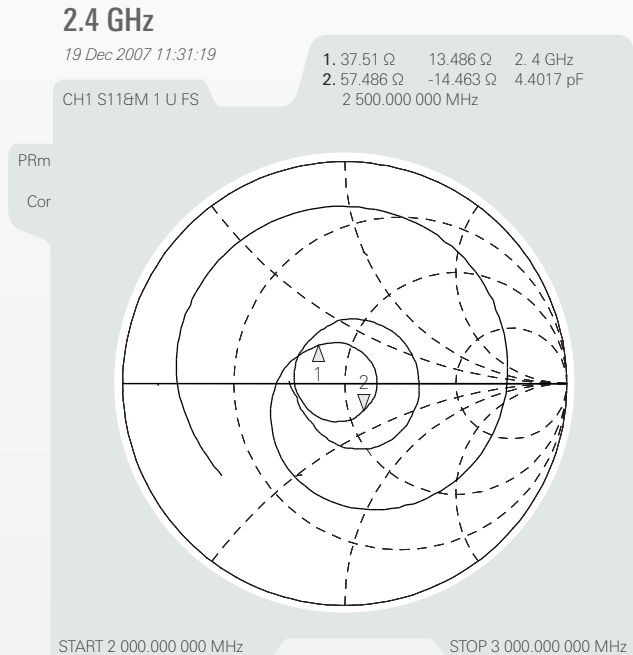
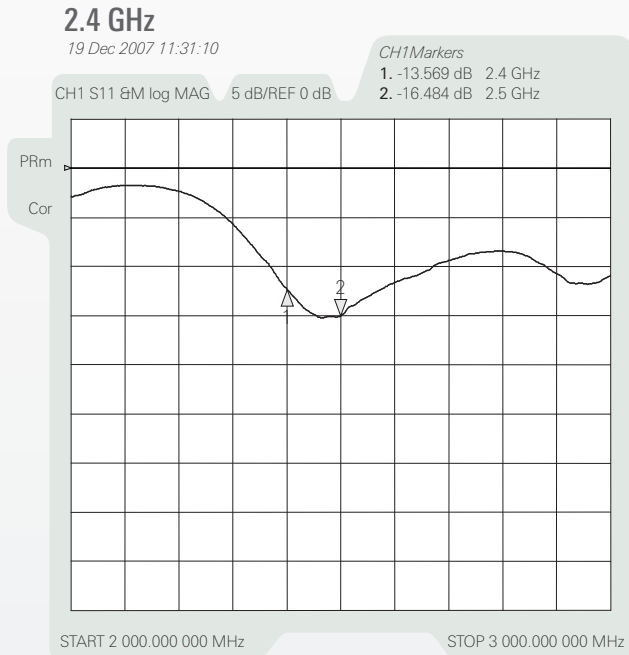


# Access Point Router 802.11n Antenna

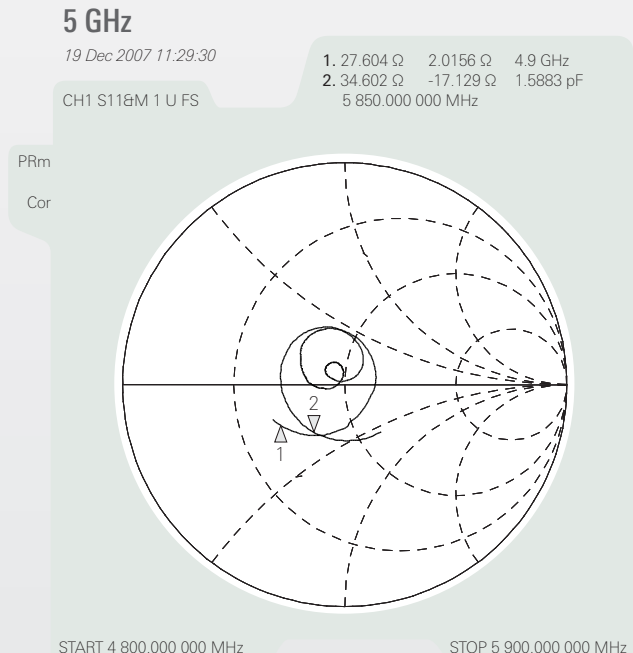
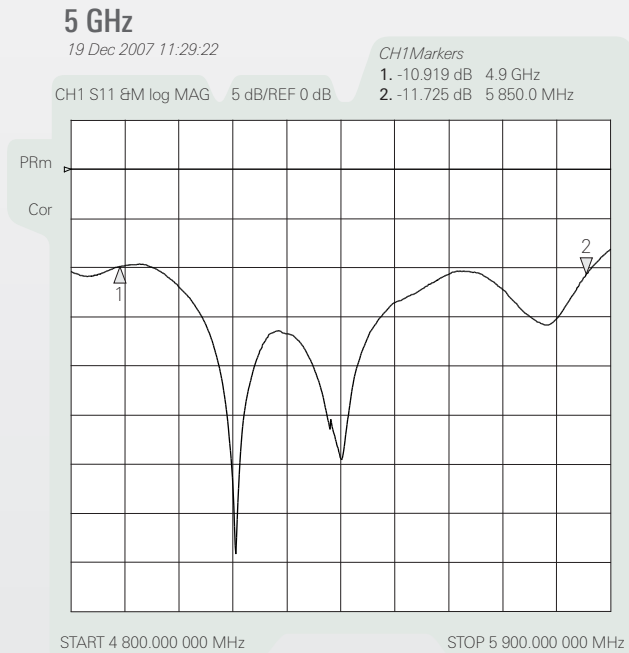
PWB Antenna with feed cable. Pulse Part Number: W3513

## Typical Electrical Characteristics (T=25 °C)

2,4 GHz typical Return Loss S11/ impedance



5 GHz typical Return Loss S11/ impedance



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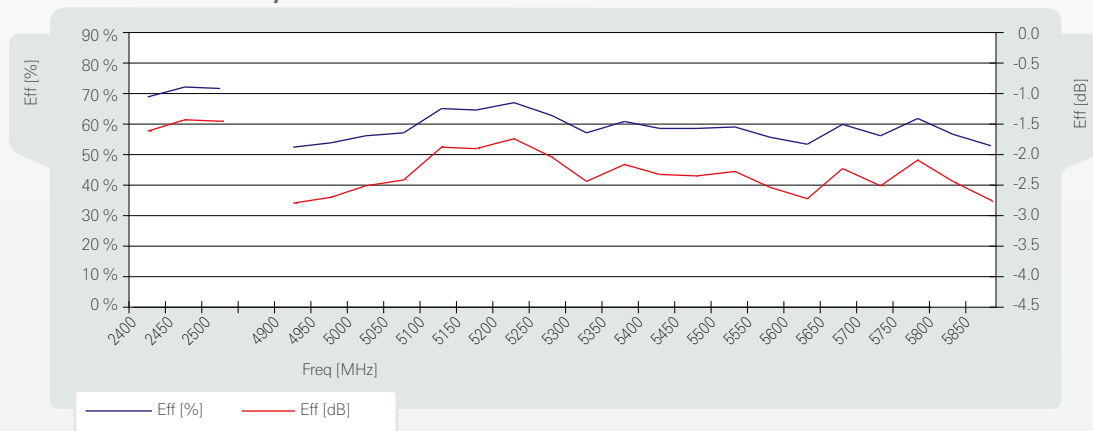


# Access Point Router 802.11n Antenna

PWB Antenna with feed cable. Pulse Part Number: W3513

## Free Space Efficiency, Average and Maximum Gain

### Total 3D Efficiency



### Average and Max Gain



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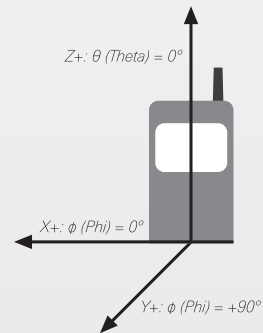
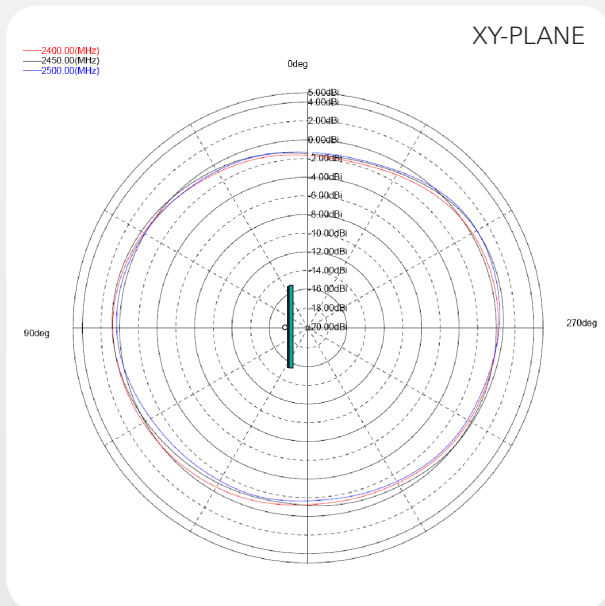
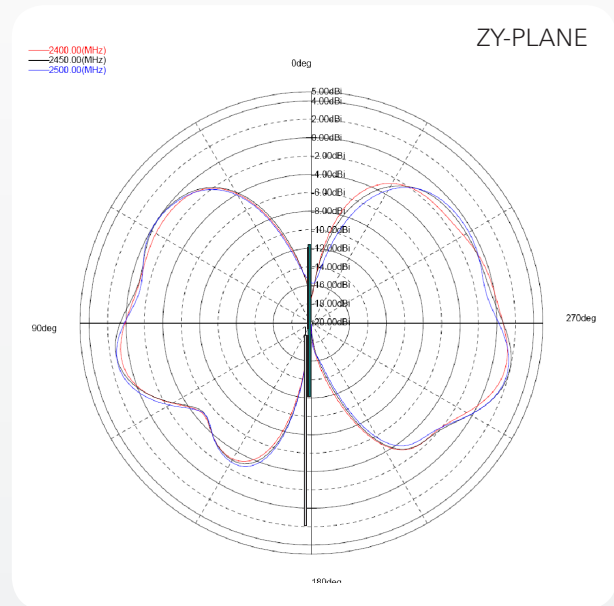
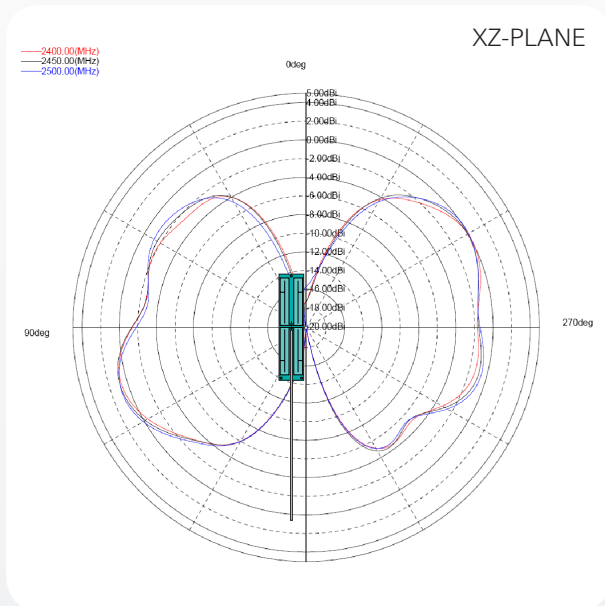
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# Access Point Router 802.11n Antenna

PWB Antenna with feed cable. Pulse Part Number: W3513

824 – 894 MHz Typical Free Space Radiation Patterns



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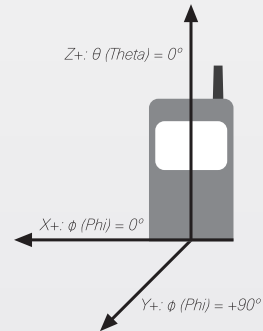
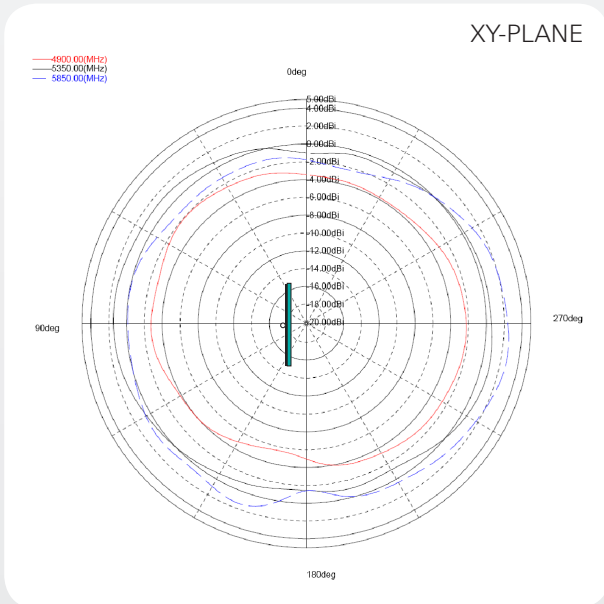
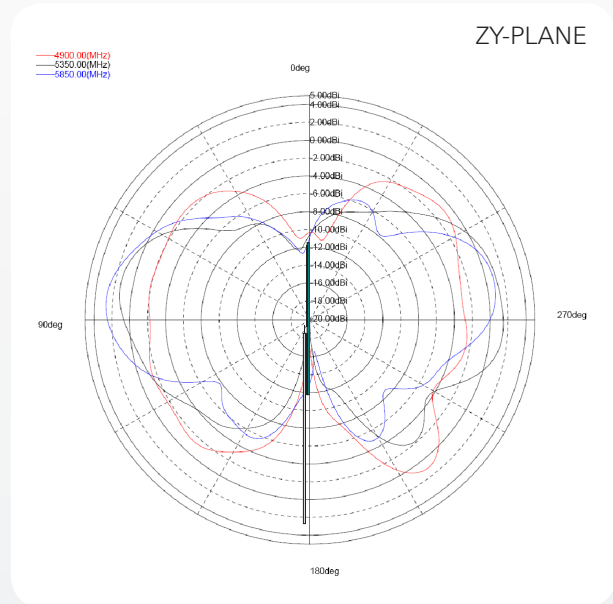
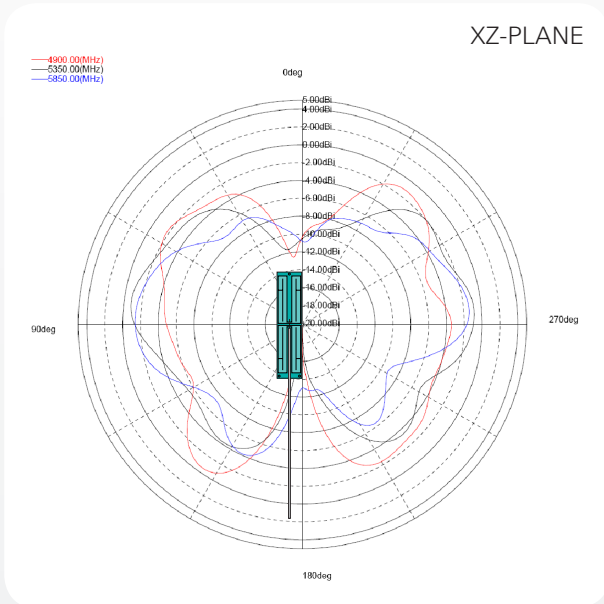
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# Access Point Router 802.11n Antenna

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880 – 960 MHz Typical Free Space Radiation Patterns



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