

October 12, 2012

### Antenna Information

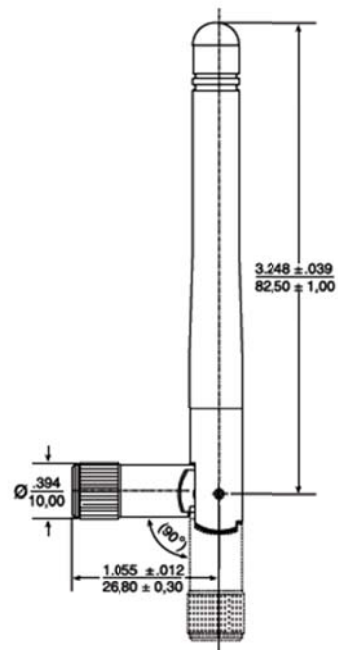
The **xBR V3** and **xBR V3x2** transmit antennas comply with paragraph 15.203 of the FCC rules due to being installed only by trained, professional installers within a controlled environment, not in any publicly accessible area.

Acceptable antennas must be omni-directional, with no more than 2.0 dBi gain.

Acceptable antennas are:

Pulse, Part Number W1010, Omni-directional, 2.0 dBi gain

Antenna Image:

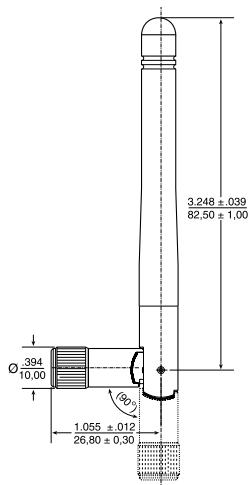


SYNAPSE PRODUCT DEVELOPMENT

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# Wireless External Antenna for 2.4 GHz Application

Pulse Part Number: W1010



## Features

- Shortest antennas in product line Omnidirectional radiation
- For WLAN devices using WiFi (802.11b/g), Bluetooth®, ZigBee™ and other applications in the ISM 2.4GHz band
- Omnidirectional radiation pattern provides broad 360° coverage
- One-quarter wavelength dipole configuration
- Connection and color options easily integrate with OEM designs

## Connector

- SMA (Male)

Weight 6.3 grams

Carton 20/bag; 500/carton

Dimensions:  $\frac{\text{Inches}}{\text{mm}}$

Unless otherwise specified, all tolerances are  $\pm \frac{0.10}{0.25}$

## Electrical Specifications @ +25 °C

Note: This part number is lead-free and RoHS compliant. No additional suffix or identifier is required.

Frequency [GHz]	Gain [dBi]	Impedance [Nom]	VSWR	Polarization	Electrical Length	Radiation
2.4 – 2.5	2.0	50 Ω	≤ 2.0	Vertical	¼, dipole	Omni

### Pulse Finland Oy

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 90440 Kempele, Finland  
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Pulse Part Number: W1010

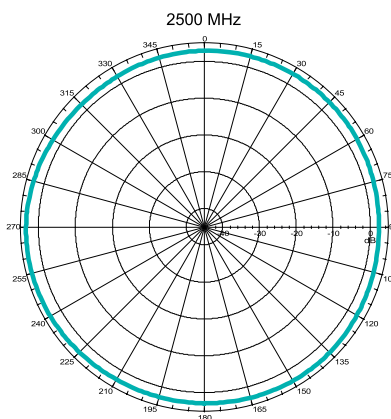
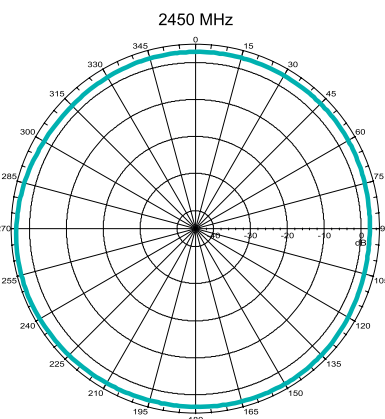
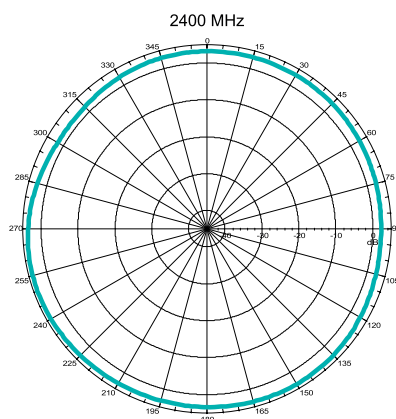
## Application Notes

Omni-directional antennas provide a uniform, donut-shaped, 360° radiation pattern. The omni-directional pattern is suitable for point-to-multipoint broadcasting in all directions. This antenna is primarily used for WLAN

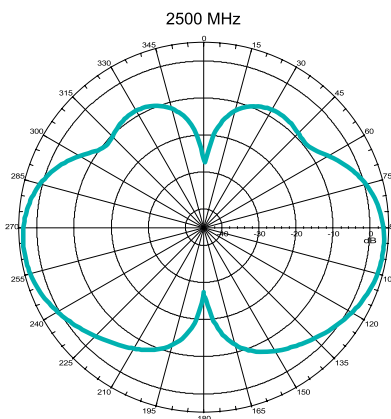
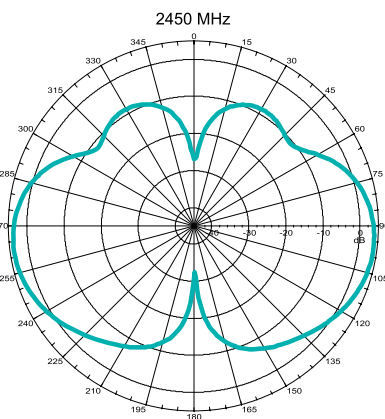
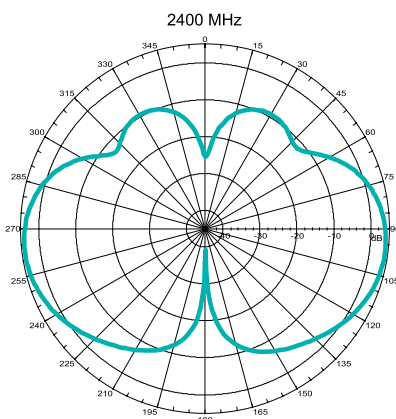
applications. However, it can also be used for a variety of other applications within the specified frequency range. When used as an access point, the antenna is ideally located at the center of the coverage area.

## Gain Performance W1010

### Horizontal Position



### Vertical Position



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