

AMP-CAV Amplifier Antenna

This antenna complies with FCC requirements per 15.203

Uses Reverse Polarity SMA Connector

Manufacture: Pulse

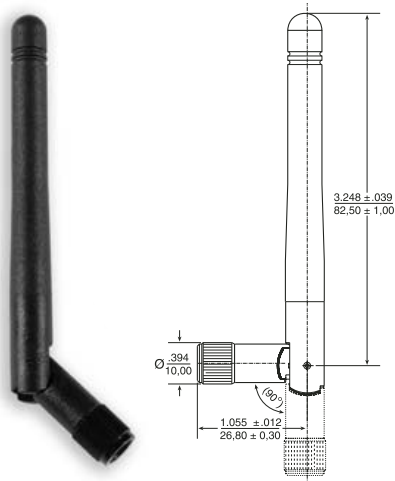
Model Number: W1030

Gain: 2.0 dBi

Description:  $\frac{1}{4}$  wavelength dipole configuration

# Wireless External Antenna for 2.4 GHz Applications

Pulse Part Number: W1030



## Features

- Shortest antennas in product line
- For WLAN devices using WiFi (802.11b/g), Bluetooth® and ZigBee™
- Omni-directional radiation pattern provides broad 360° coverage
- One-quarter wavelength dipole configuration
- Connection options easily integrate with OEM designs

## Connector Options

- Reverse SMA (Male)\*
- SMA (Male)

\* Default Configuration – Please contact Pulse Applications Engineering for assistance in ordering connectors

Weight.....6.3 grams  
 Carton.....20/bag; 500/carton

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

Unless otherwise specified, all tolerances are  $\pm \frac{.010}{0.25}$

## Electrical Specifications @ 25 °C

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

Antenna Part No.	Frequency [GHz]	Gain [dBi]	Impedance [Nom]	VSWR	Polarization	Electrical Length	Radiation
W1030	2.4 – 2.5	2.0	50 Ω	≤ 2.0	Vertical	1/4, dipole	Omni

### Pulse Antennas

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 90440 Kempele  
 Finland  
 Tel: +358 207 935 500  
[www.pulseeng.com/antennas](http://www.pulseeng.com/antennas)

### External Antennas Sales Contacts

USA 858 674 8100  
 UK 44 1483 401 700  
 France 33 3 84 35 04 04  
 Singapore 65 6287 8998

Shanghai 86 21 32181071  
 China 86 769 5538070  
 Taiwan 886 2 26980228



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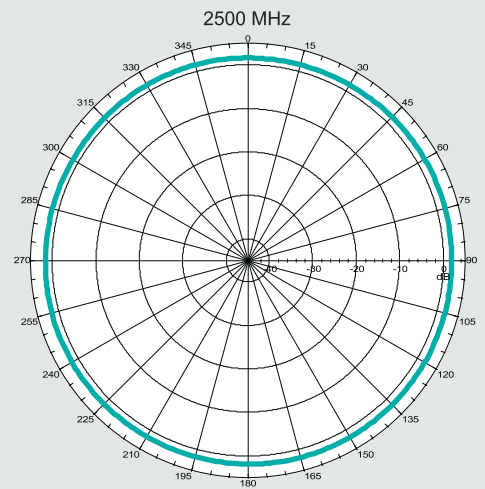
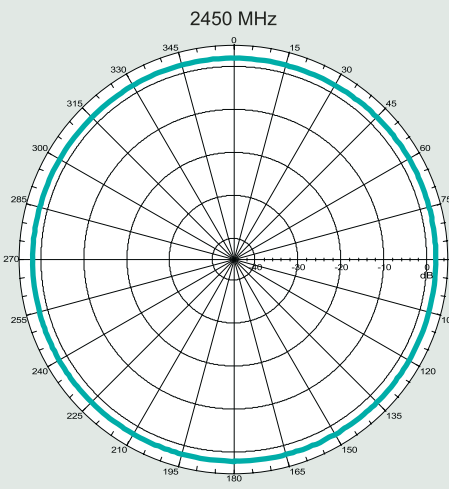
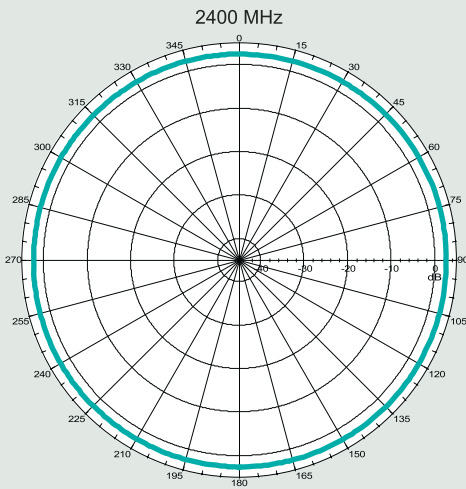
## Application Notes

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

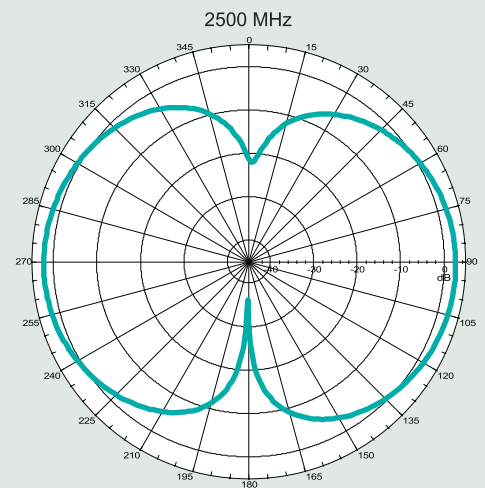
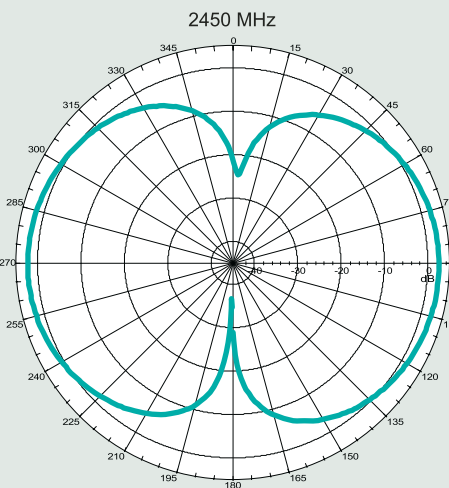
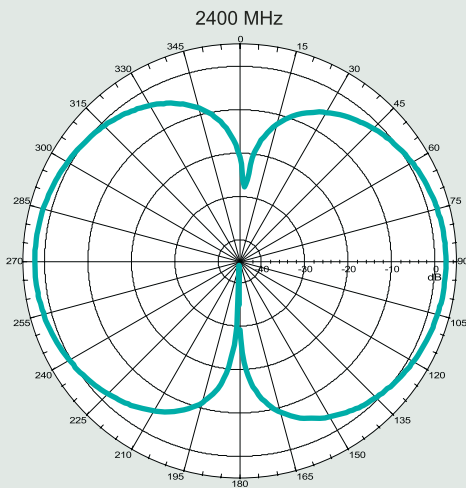
applications. However, it can also be used for a variety of other applications within the specified frequency range. When used as an access point, the antenna is ideally located at the center of the coverage area.

## Gain Performance W1030

### Horizontal Position



### Vertical Position



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