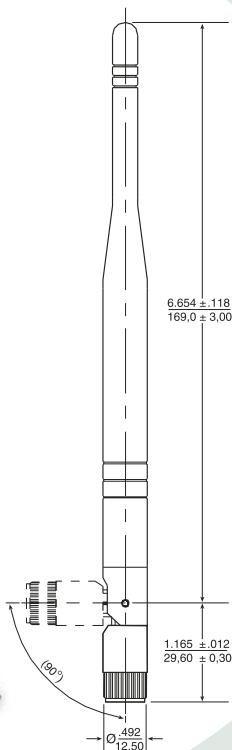


# Wireless External Antenna for 2.4 GHz Applications

Pulse Part Number: W1038



## Features

- High gain performance
- 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 and color options easily integrate with OEM designs

## Color Options

- Black\*
- Gray (Pantone cool gray 8C)
- Gray (Pantone 429C)
- Gray (Pantone cool gray 7C)

## Connector Options

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

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

Weight.....25.1 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	Color
W1038	2.4 – 2.5	4.9	50 Ω	≤ 2.0	Vertical	1/4, dipole	Omni	Black

### Pulse Antennas

Takatie 6  
 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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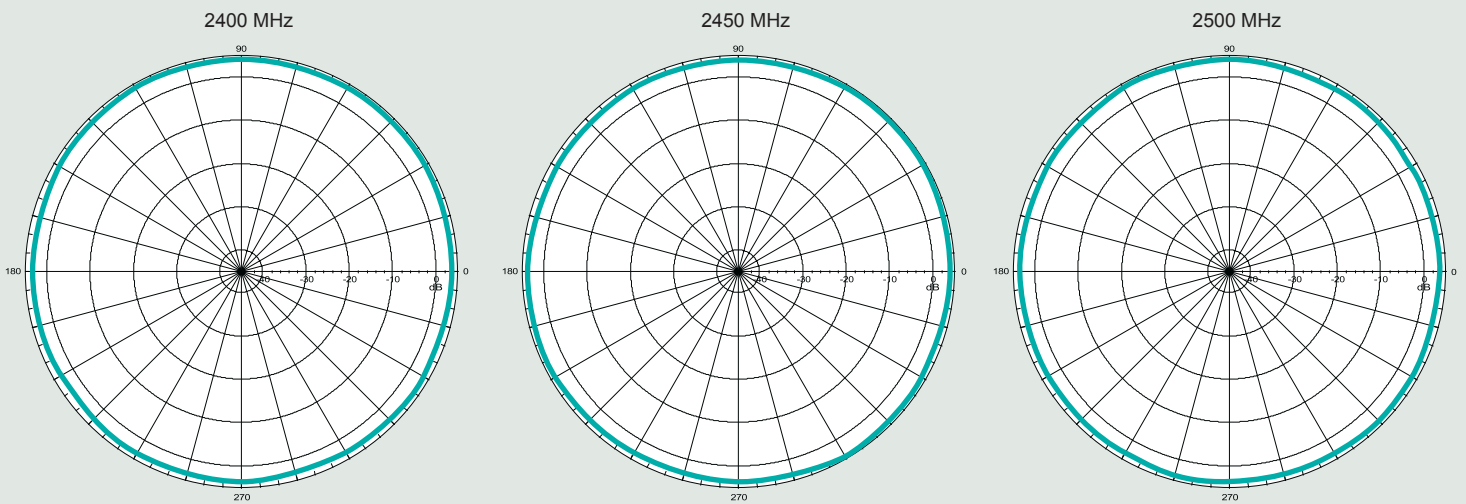
## Application Notes

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

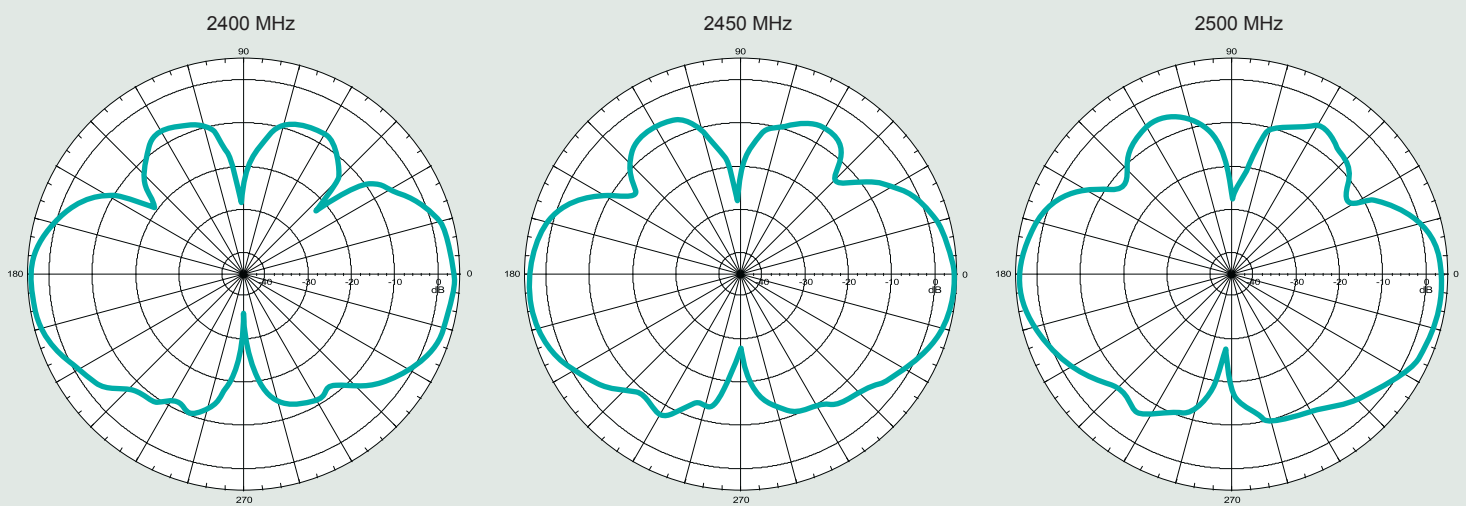
applications. However, it can also be used for a variety of other applications within the specified frequency range. When used as an access point, the antenna is ideally located at the center of the coverage area.

## Gain Performance W1038

### Horizontal Position



### Vertical Position



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