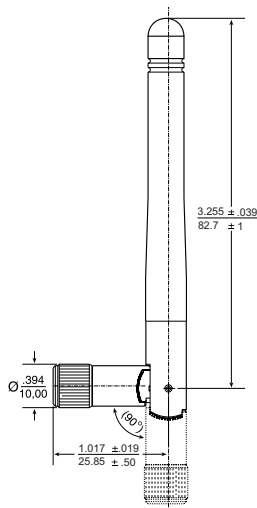


# Wireless External Antenna for 2.4 GHz Application

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 $\Omega$     | $\leq 2.0$ | Vertical     | 1/4, di-pole      | Omni      |

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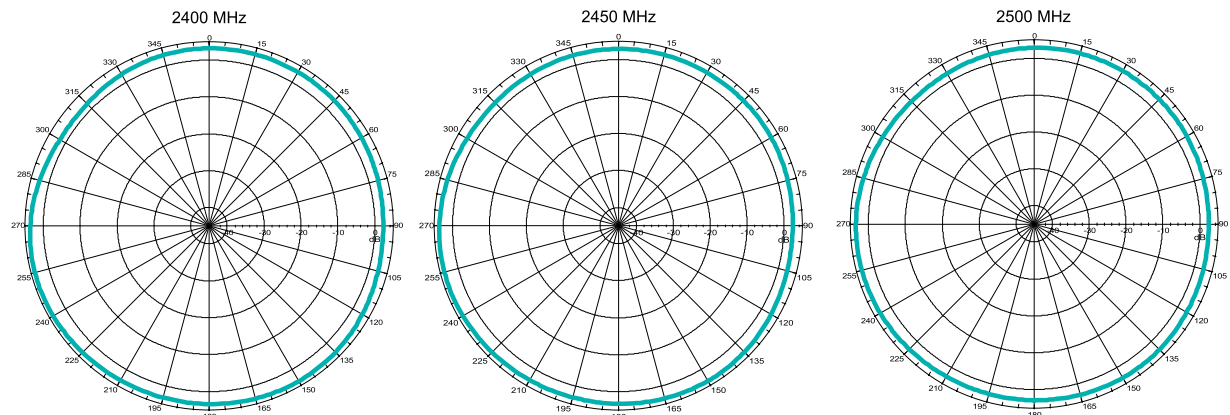
## Application Notes

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 W1010

### Horizontal Position



### Vertical Position

