Wireless External Antenna for 2.4 GHz Applications

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
- 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 [in / mm]

Unless otherwise specified, all tolerances are ± .010 / 0.25

Electrical Specifications @ 25 °C
Note: This part number is lead-free and RoHS compliant. No additional suffix or identifier is required

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Frequency [GHz]</th>
<th>Gain [dBI]</th>
<th>Impedance [Nom]</th>
<th>VSWR</th>
<th>Polarization</th>
<th>Electrical Length</th>
<th>Radiation</th>
</tr>
</thead>
<tbody>
<tr>
<td>W1030</td>
<td>2.4 - 2.5</td>
<td>2.0</td>
<td>50 Ω</td>
<td>≤2.0</td>
<td>Vertical</td>
<td>1/4, dipole</td>
<td>Omni</td>
</tr>
</tbody>
</table>
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Pulse Part Number W1030

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. The 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**

![Horizontal Performance Graphs](image)

**Vertical Position**

![Vertical Performance Graphs](image)