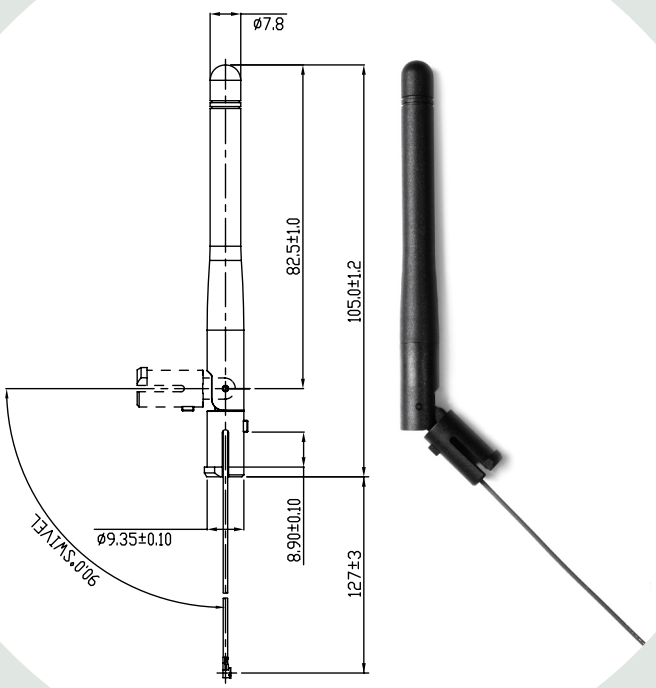
Wireless External Antenna for 2.4 GHz Application

Single-Band Antenna with I-PEX Cable Assembly. Pulse Part Number: W1049B



Features

- Shortest antennas in product line
  Omni-directional 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
- Various cable length from 3 to 12 inch (76-305mm)

Connector

- I-PEX

Pansize 20/bag; 500/carton

Dimensions: Inches / mm

Unless otherwise specified, all tolerances are ± 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.

Part Number	Frequency [GHz]	Max Gain [dBi]	Impedance [Ω]	Mechanical Length (in/mm)	Cable Length (in/mm)
W1049B030	2.4	2.0	50	3.25/82.5	3/76
W1049B050	2.4	2.0	50	3.25/82.5	5/127
W1049B070	2.4	2.0	50	3.25/82.5	7/178
W1049B090	2.4	2.0	50	3.25/82.5	9/229
W1049B120	2.4	2.0	50	3.25/82.5	12/305

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www.pulseeng.com/antennas

Pulse
A TECHNITROL COMPANY

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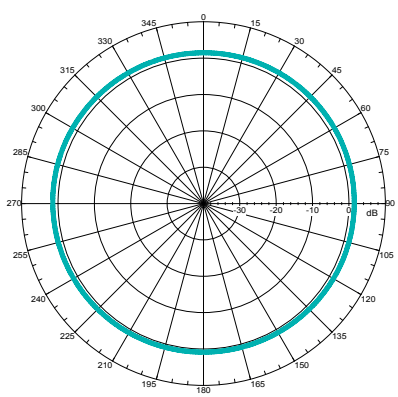
Application Notes

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 withing the spec ified frequency range. When used as an access point, the antenna is ideally located at the center of the coverage area.

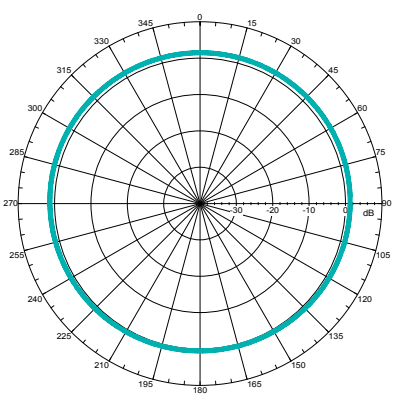
Gain Performance W1049B030

H-PLANE

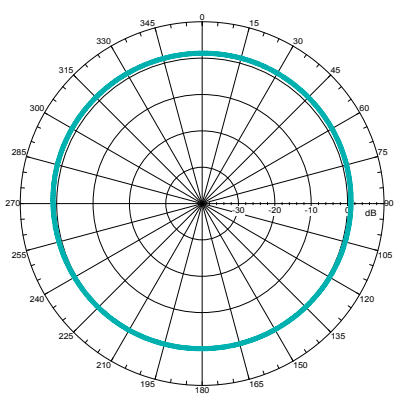
2.4GHz 1.55524dBi



2.45GHz 1.51154dBi

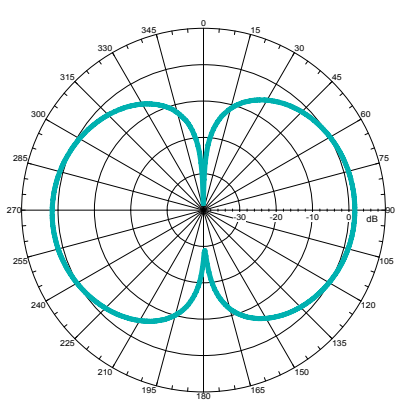


2.5GHz 1.38176dBi

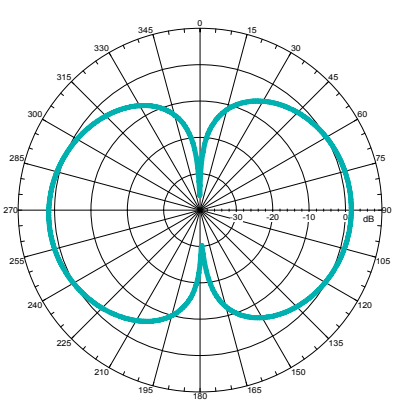


E-PLANE

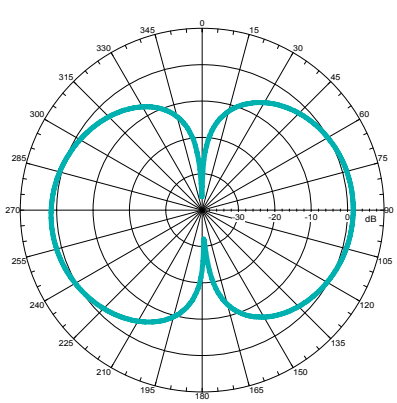
2.4GHz 1.61476dBi



2.45GHz 1.6233dBi



2.5GHz 1.59034dBi



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