Wireless External Dual Band Antenna for 5.15 GHz and 5.85 GHz Applications

Pulse Part Number W1028B



The W1028B is a classically designed antenna optimized for environments ranging from residential to commercial. It offers near dipolar radiation properties for wireless access points and devices on a WLAN (Wireless Local Area Network).

Wireless networks, especially those located indoors, often have physical barriers which inhibit communication between wireless devices. These barriers cause blind spots, intermittent signal quality and interference. Selecting the correct external antenna can improve the range and reliability of wireless networks.

The W1028B antenna offers an economical solution for OEMs of wireless devices. These antennas are best suited for IEEE 802.11a applications.

Features

- High frequency and high gain antenna
- For WLAN devices using WiFi (802.11a) and ISM 5.8 GHz band
- Omni directional radiation pattern provides broad 360° coverage
- RoHS Compliant Product

Applications

- WLAN / WIFI Routers
- Wireless Repeaters
- 802.11a OEM replacements

Electrical Specifications

Frequency [MHz]	5150 - 5850
Nominal Impedance [Ω]	50
VSWR	2:1 Max
Gain [dBi]	2
Radiation Pattern	Omni
Polarization	Linear Vertical
Connector	SMA Male Reverse

Environmental Specifications

Operating Temperature [°C]	-20 to +65
Storage Temperature [°C]	-30 to +75

Mechanical Specifications

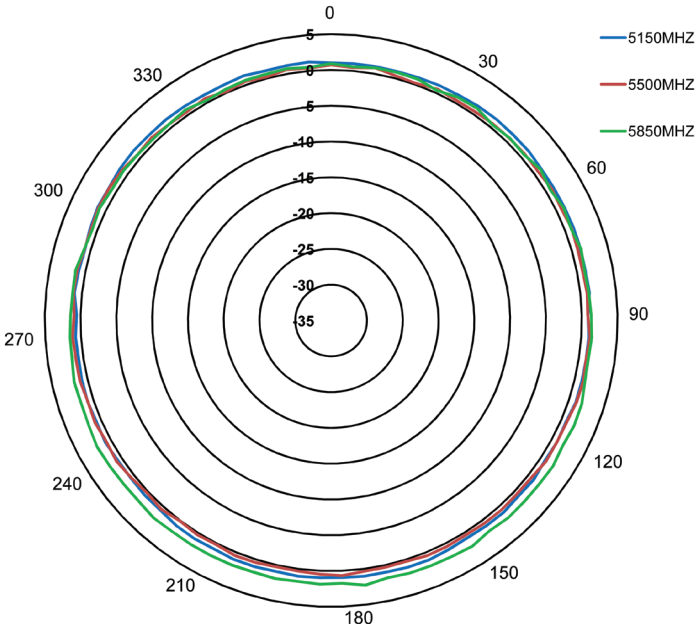
Color	Black
Overall Length [Inches/mm]	5.38 ± .12 / 136.8 ± 3

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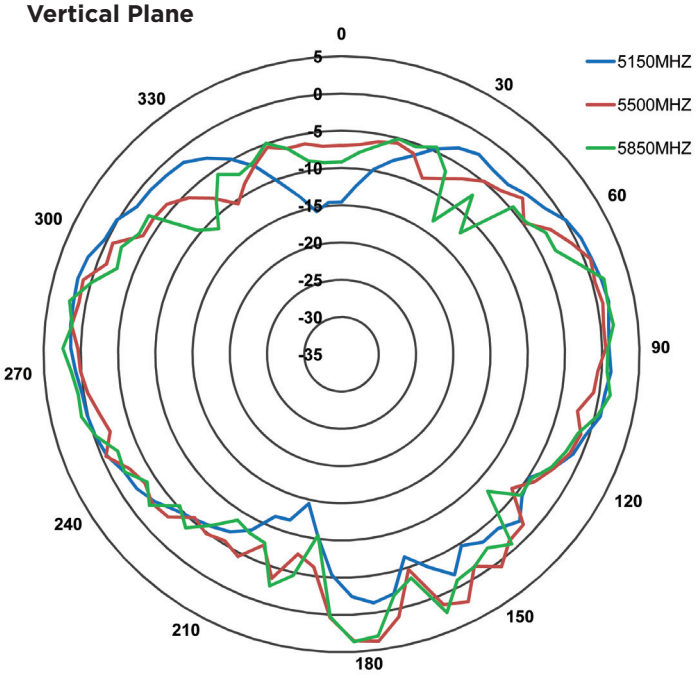
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Radiation Patterns

Horizontal Plane



Vertical Plane



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.

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