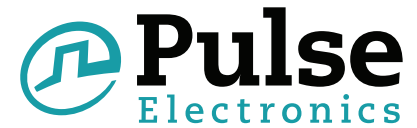


Wireless External Dual Band Antenna for 5.15 GHz and 5.85 GHz Applications

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
Power Rating [W]	3
Connector	SMA Male Reverse

Environmental Specifications

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

Mechanical Specifications

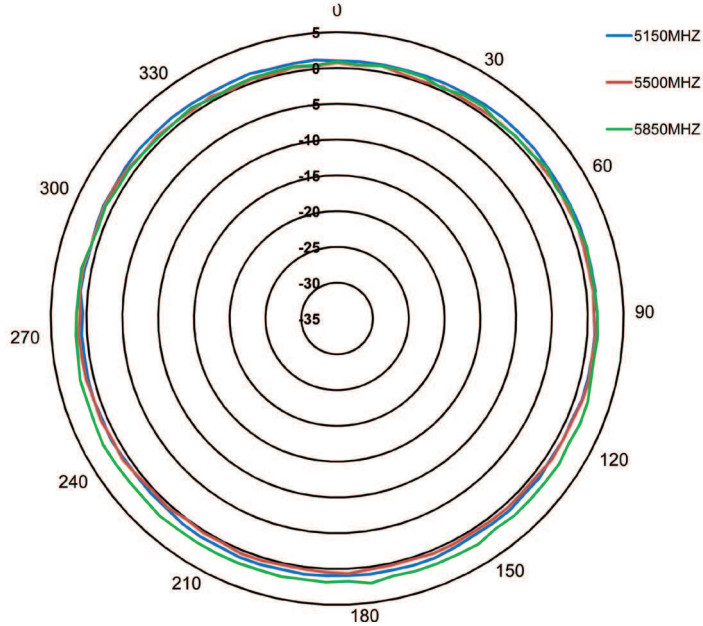
Color	Black
Overall Length [Inches/mm]	5.37 / 136.5

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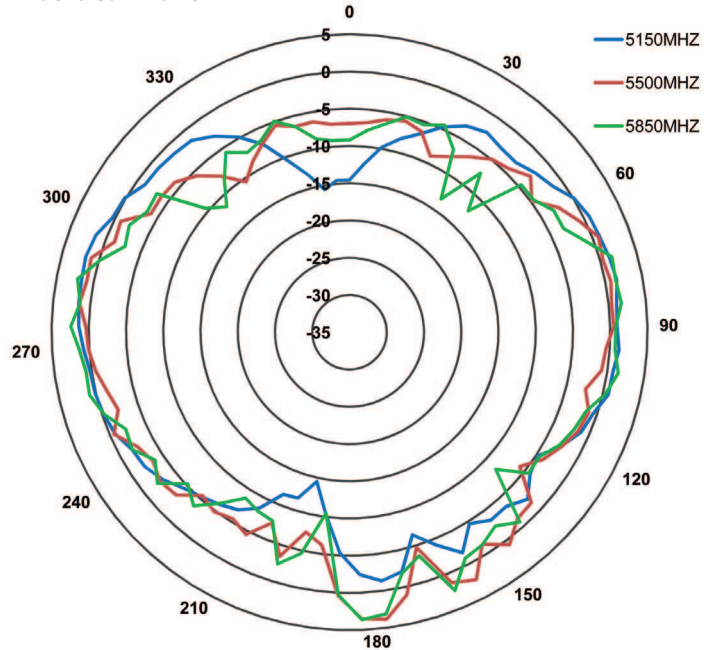
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Radiation Patterns

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

For More Information

Pulse Worldwide Headquarters

12220 World Trade Drive
San Diego, CA 92128
U.S.A.

Larsen Brand Antennas

3611 NE 112th Avenue
Vancouver, WA 98682
USA

Europe Headquarters

Pulse GmbH & Co. KG
Zeppelinstrasse 15
Herrenberg
Germany

Asia Headquarters

B402, Shenzhen Academy of
Aerospace Technology Bldg,
10th Kejian Road, High-Tech Zone
Nanshan District, Shenzhen, PR China 518057

Pulse North Asia

3F, No. 198, Zhongyuan Road
Zhongli City, Taoyuan County 320
Taiwan R. O. C.

Pulse (Suzhou) Wireless Products Co., Inc.

99 Huo Ju Road, (#29 Bldg, 4th Phase)
Suzhou New District
Science & Tech Industrial Park
Jiangsu Province, Suzhou 215009 PR China

Tel: 858 674 8100
Fax: 858 674 8262

Tel: 360 944 7551
Fax: 360 944 7556

Tel: 49 7032 7806 0
Fax: 49 7032 7806 135

Tel: 86 755 33966678
Fax: 86 755 33966700

Tel: 886 3 4356768
Fax: 886 3 4356823

Tel: 86 512 6807 9998
Fax: 86 512 6809 8023

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