

TECHNICAL DATA SHEET

Description: Wireless External Antenna for

2.4 GHz Applications

PART NUMBER: W1038x



Features:

- · High gain performance, 3.8dBi
- For WLAN devices using WiFi (802.11b/g), Bluetooth® and ZigBeeTM
- Omni-directional radiation pattern provides broad 360° coverage
- One-quarter wavelength dipole configuration, length 197.1mm
- Connection and color options easily integrate with OEM designs
- W1038 Black; W1038W White; W1038G Gray

Applications:

 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

Issue: 1736

In the effort to improve our products, we reserve the right to make changes judged to be necessary. CONFIDENTIAL AND PROPRIETARY INFORMATION

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For more information:

Pulse Worldwide Headquarters 15255 Innovation Drive #100 San Diego, CA 92128 USA Tel:1-858-674-8100 Pulse/Larsen Antennas 18110 SE 34th St Bldg 2 Suite 250 Vancouver, WA 98683 USA Tel: 1-360-944-7551

Europe Headquarters Pulse GmbH & Do, KG Zeppelinstrasse 15 Herrenberg, Germany Tel: 49 7032 7806 0 Pulse (Suzhou) Wireless Products Co, Inc. 99 Huo Ju Road(#29 Bldg,4th Phase Suzhou New District Jiangsu Province, Suzhou 215009 PR China Tel: 86 512 6807 9998



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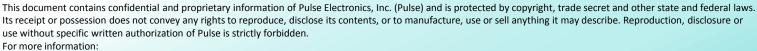
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This document covers all product variants of the following product family

Antennas	Color	Connector
W1038	Black	
W1038W	White	RP-SMA Male
W1038G	Gray	

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ELECTRICAL SPECIFICATIONS

Frequency 2400-2500MHz

 $\begin{array}{ccc} \text{Nominal Impedance} & & 50 \ \Omega \\ \text{Return Loss} & & -10 \text{dB} \\ \text{Radiation Pattern} & & \text{Omni} \end{array}$

Peak Gain 3.8dBi@straight, 4.7dBi@90°bent

Efficiency 74%@straight, 81%@90°bent

Polarization Vertical Power Withstanding 5W

MECHANICAL SPECIFICATIONS

Overall Length 7.76"/197.1mm

Weight 25.1g

Antenna Color Black P/N: W1038

White P/N: W1038W Gray P/N: W1038G

Cover material TPE

Connector type RP-SMA Male

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature -20~+65° C
Storage Temperature -30~+75° C

RoHS Compliant Yes

OTHER SPECIFICATIONS



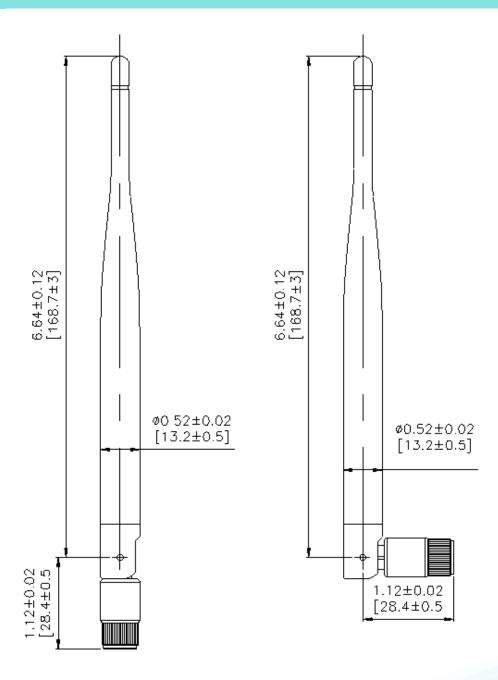
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MECHANICAL DRAWING









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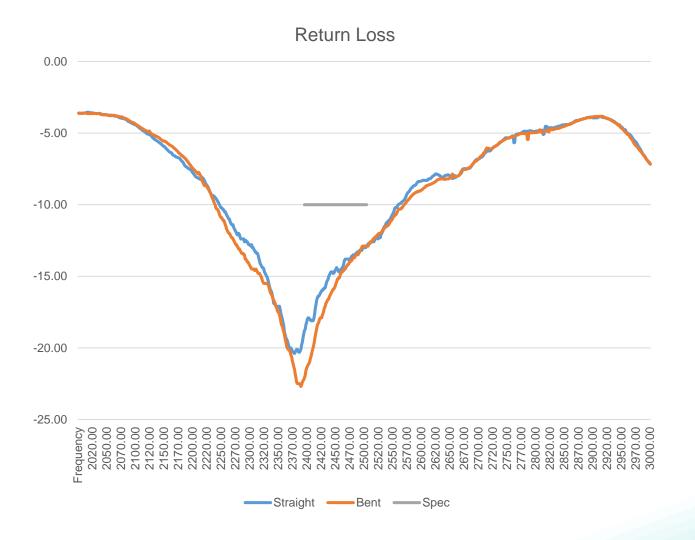
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CHARTS

Return Loss







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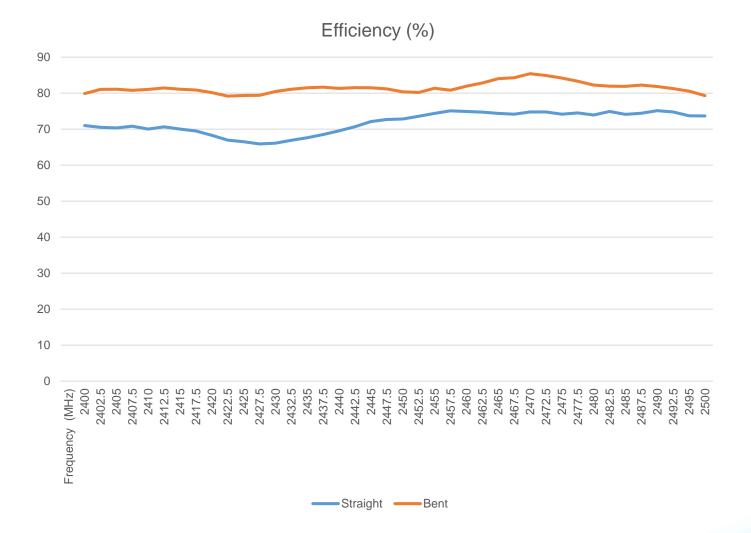
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CHARTS

Efficiency(%)







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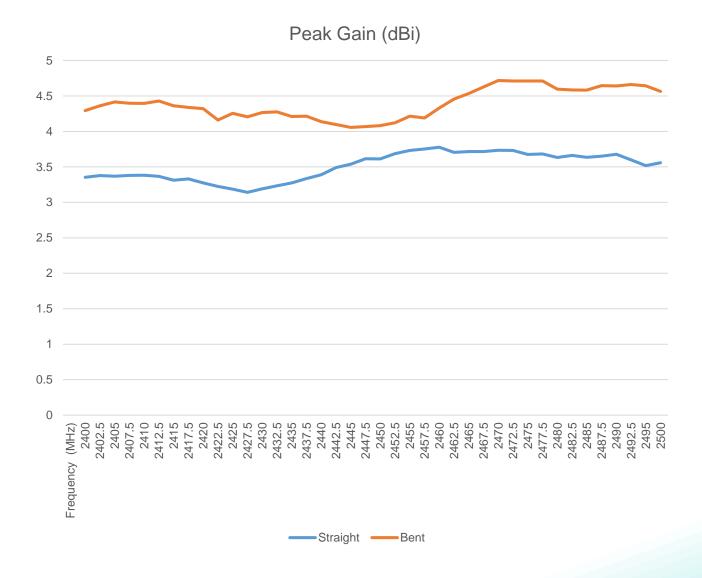
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CHARTS

Peak Gain (dBi)









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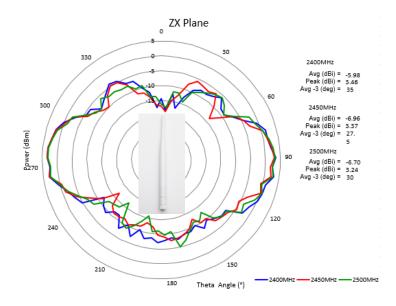
CHARTS

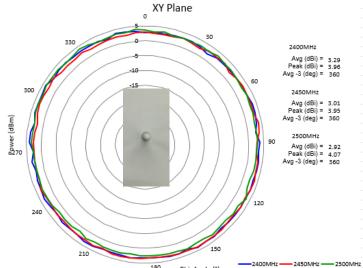
Free Space Radiation Pattern

Straight

Elevation Plane

Horizontal Plane







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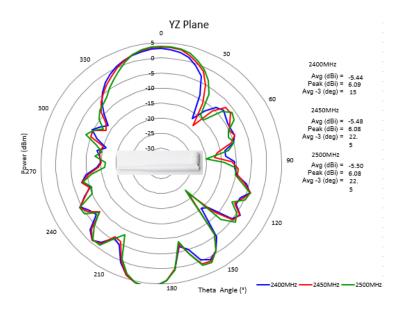
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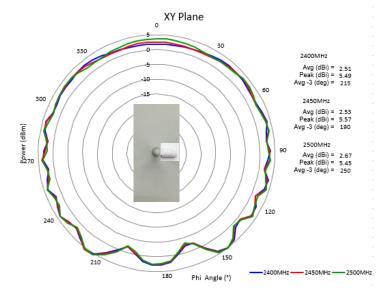
Free Space Radiation Pattern

Bent

Elevation Plane

Horizontal Plane







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PACKAGING

Pack 20pcs antenna in one PE bag, 25pcs PE bag (500pcs Antenna) in one carton