



### Features:

- High gain performance, 3.8dBi
- For WLAN devices using WiFi (802.11b/g), Bluetooth® and ZigBee™
- Omni-directional radiation pattern provides broad 360° coverage
- One-quarter wavelength dipole configuration, length 196.2mm
- 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: 1821

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

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For more information:

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Herrenberg, Germany  
Tel: 49 7032 7806 0

Pulse (Suzhou) Wireless Products Co, Inc.  
99 Huo Ju Road(#29 Bldg,4<sup>th</sup> Phase  
Suzhou New District  
Jiangsu Province, Suzhou 215009 PR China  
Tel: 86 512 6807 9998



**Description:** Wireless External Antenna for 2.4 GHz Applications

**Series:** Stick Antenna

**PART NUMBER:** W1038x

This document covers all product variants of the following product family

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

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**Description:** Wireless External Antenna for  
2.4 GHz Applications

**Series: Stick Antenna**

**PART NUMBER: W1038x**

### ELECTRICAL SPECIFICATIONS

Frequency	2400-2500MHz
Nominal Impedance	50 Ω
Return Loss	-10dB
Radiation Pattern	Omni
Peak Gain	3.8dBi@straight, 4.7dBi@90°bent
Efficiency	74%@straight, 81%@90°bent
Polarization	Vertical
Power Withstanding	5W

### MECHANICAL SPECIFICATIONS

Overall Length	7.72"/196.2mm
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

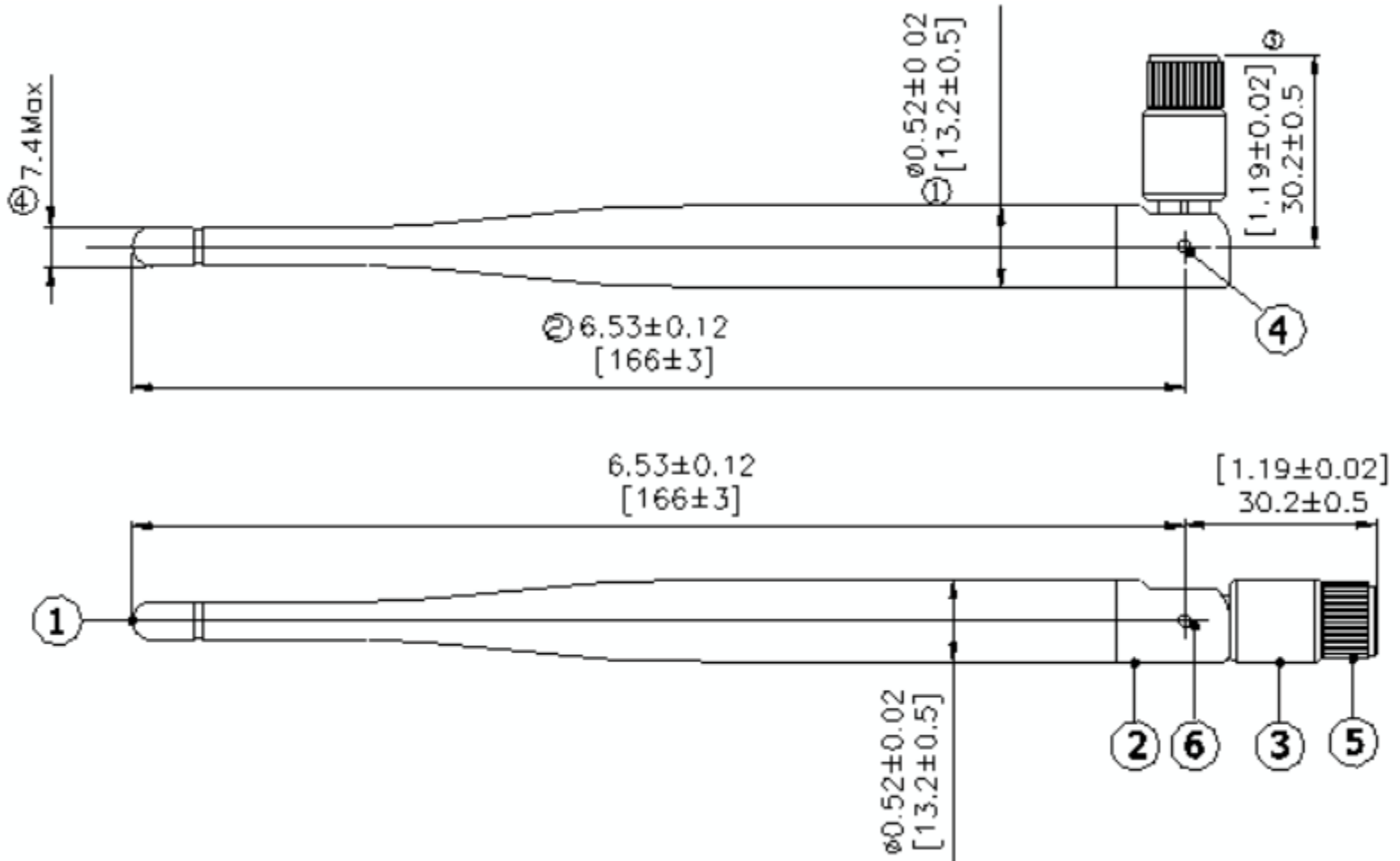
Operating Temperature	-20~+65° C
Storage Temperature	-30~+75° C
RoHS Compliant	Yes

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**MECHANICAL DRAWING**



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CHARTS

Return Loss



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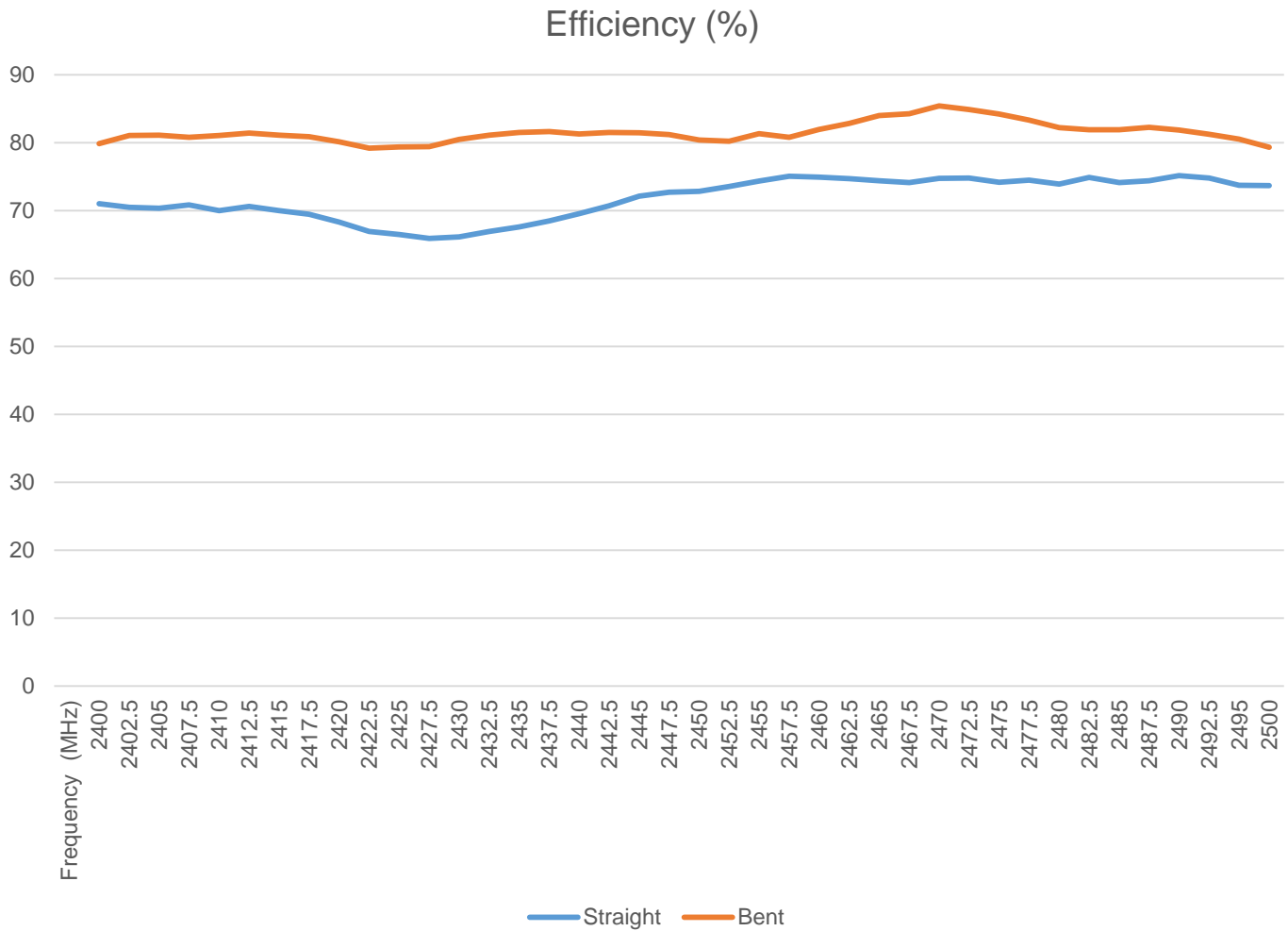
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CHARTS

Efficiency(%)



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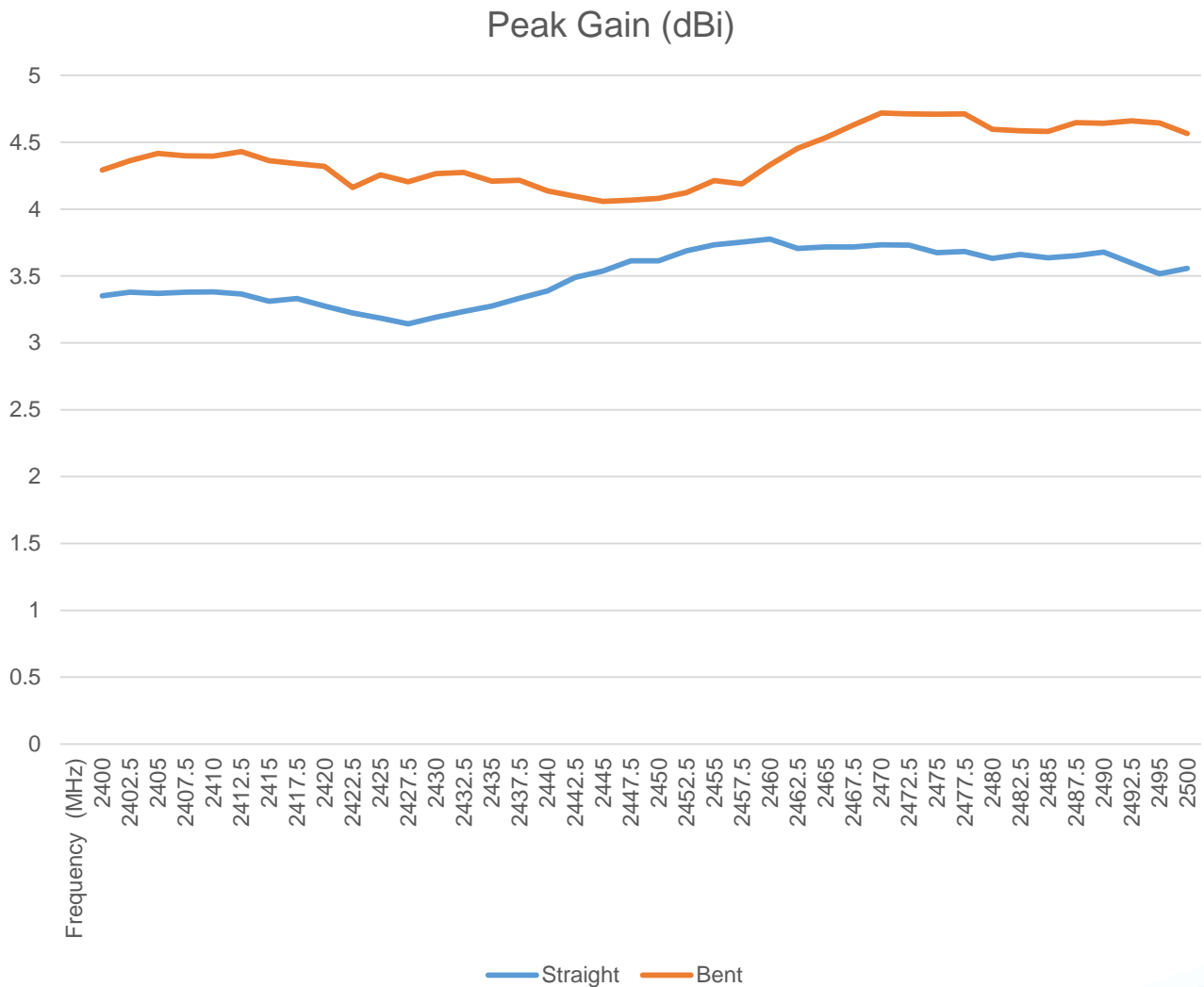
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CHARTS

Peak Gain (dBi)



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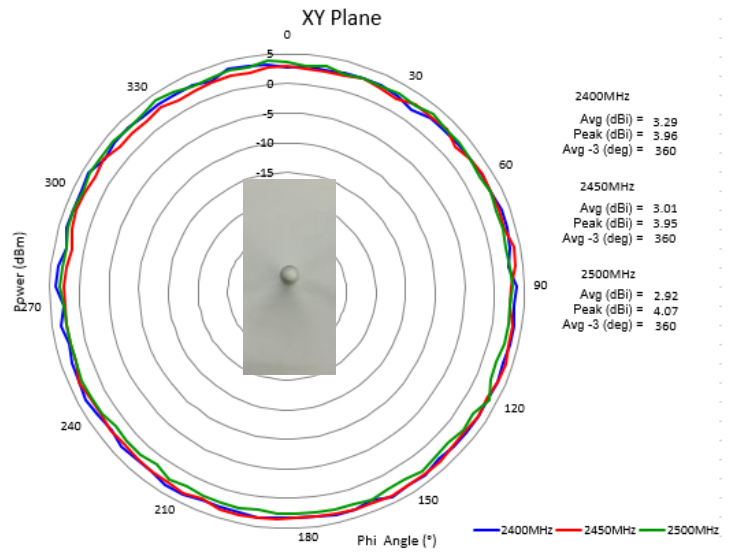
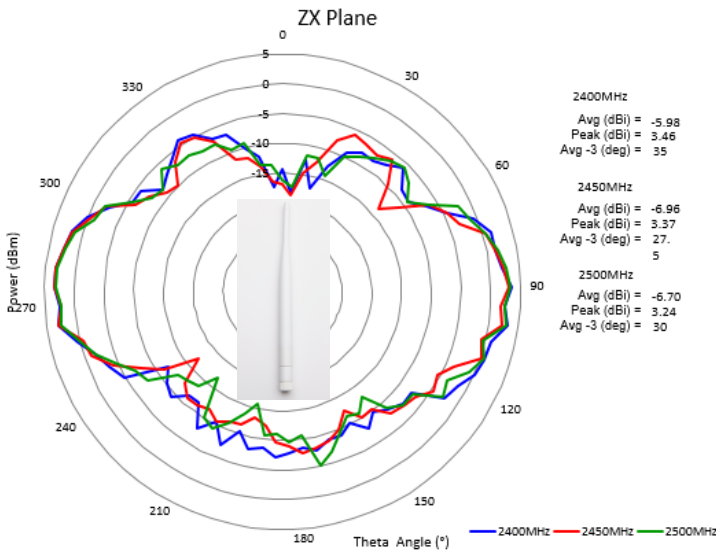
CHARTS

Free Space Radiation Pattern

Straight

Elevation Plane

Horizontal Plane



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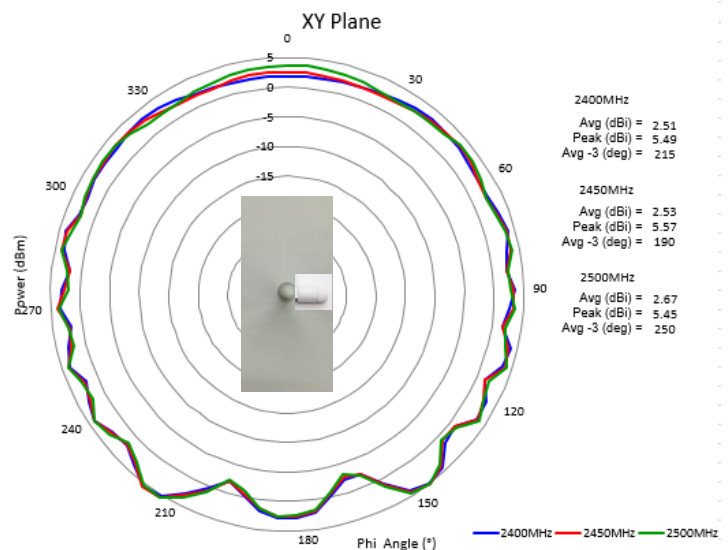
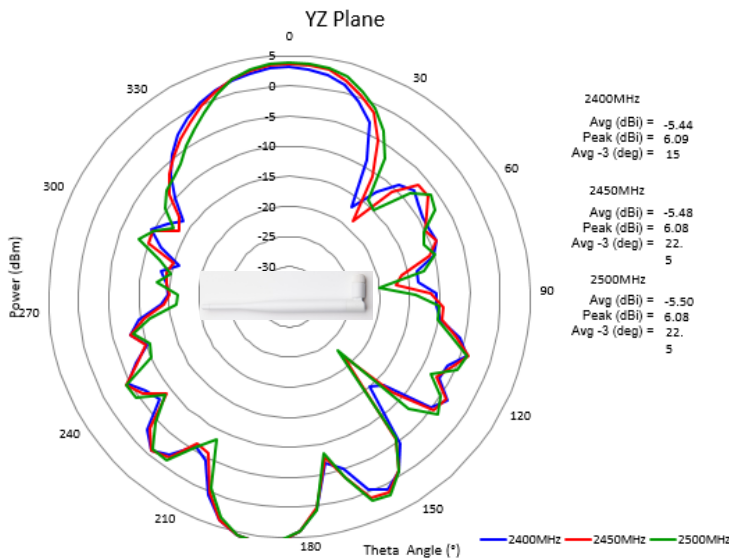
CHARTS

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