

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 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. CONFIDENTIAL AND PROPRIETARY INFORMATION



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For more information:

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

Series: Stick Antenna

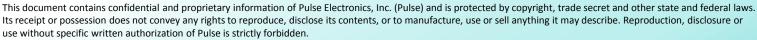
PART NUMBER: W1038x

This document covers all product variants of the following product family

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

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Yes

## 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	

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**RoHS** Compliant

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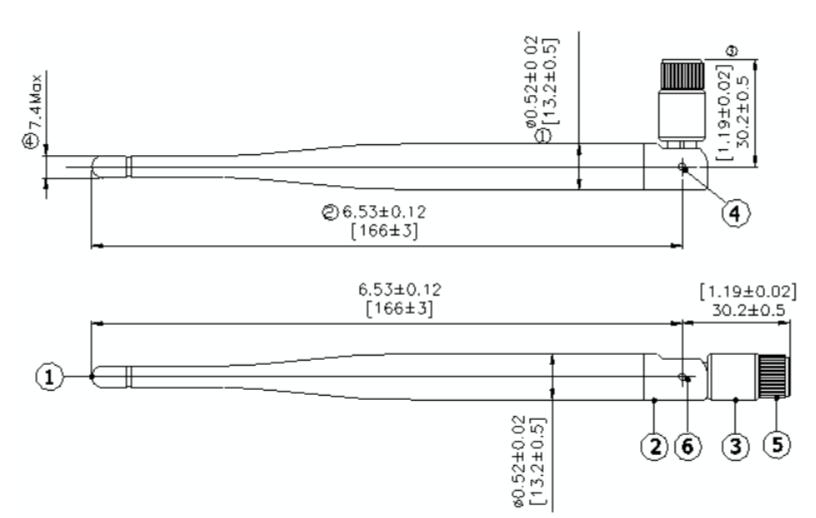


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#### **MECHANICAL DRAWING**



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# Series: Stick Antenna

#### CHARTS

## **Return Loss**



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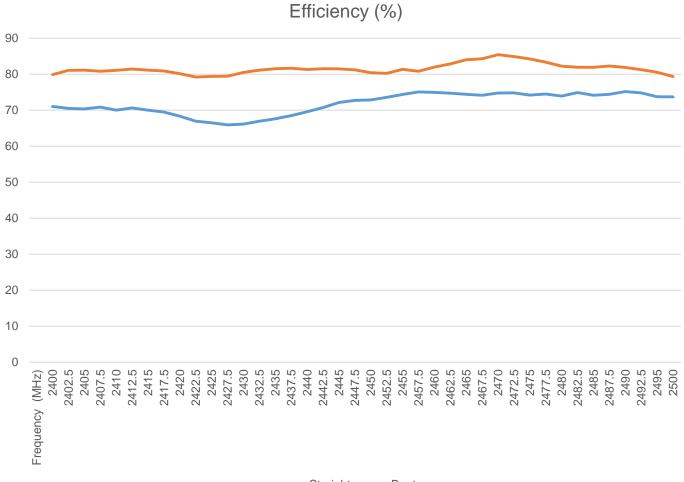
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### CHARTS

Efficiency(%)



Straight — Bent

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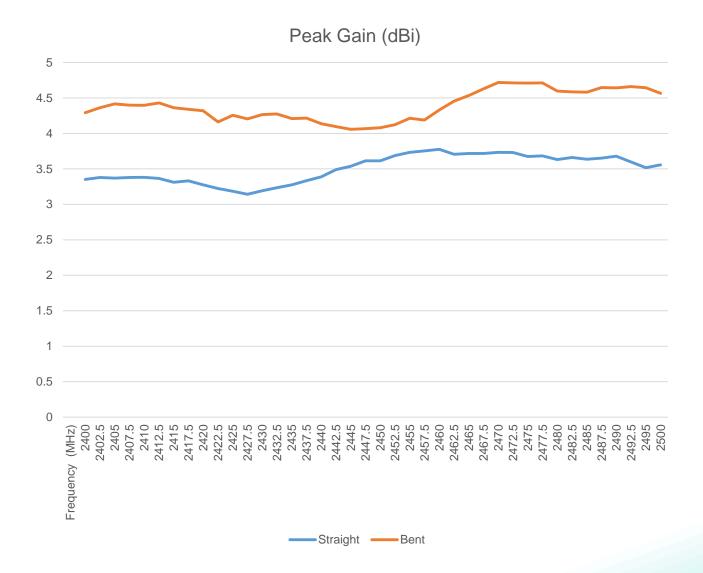


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#### CHARTS

# Peak Gain (dBi)



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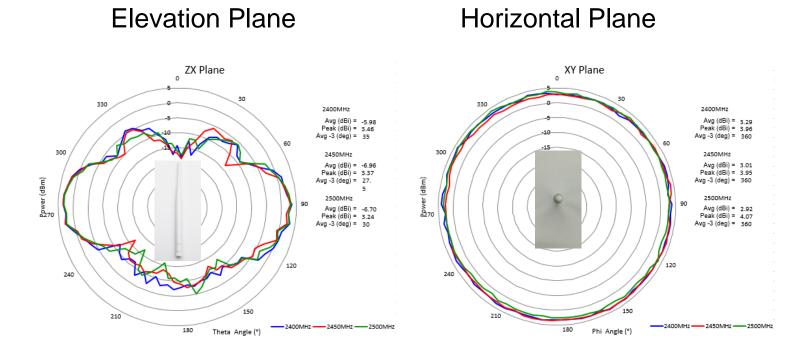


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#### CHARTS

# Free Space Radiation Pattern

Straight



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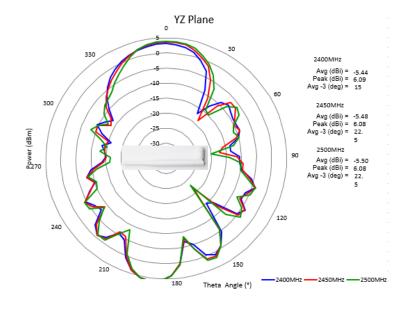
#### **CHARTS**

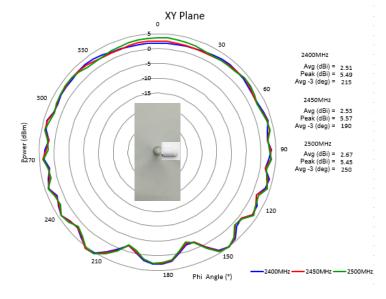
# Free Space Radiation Pattern

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

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