PulseLARSEN Antennas

TECHNICAL DATA SHEET

Series: Stick Antenna

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

RoHS COMPLIANT

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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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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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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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RoHS COMPLIANT

PulseLARSEN Antennas

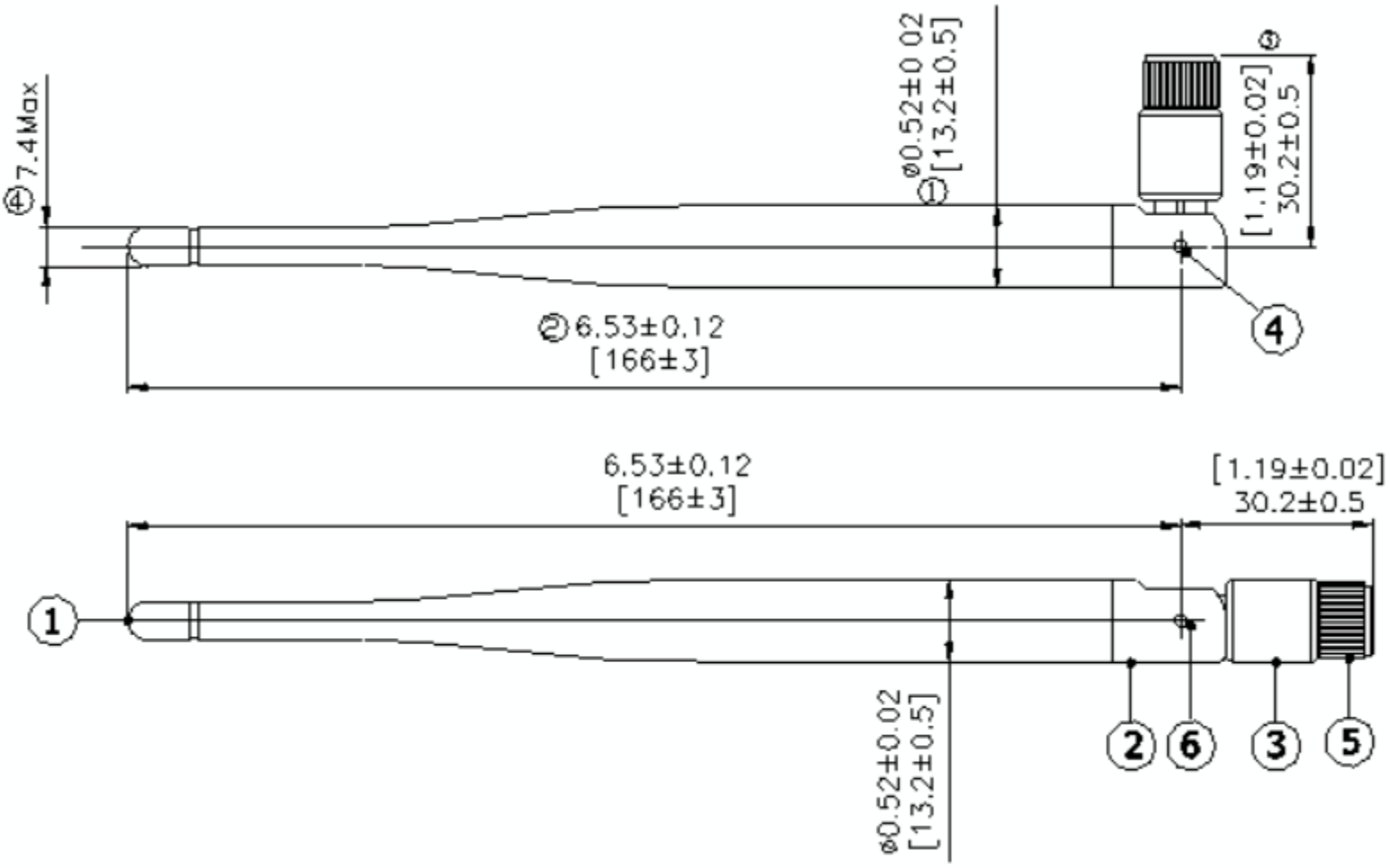
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MECHANICAL DRAWING



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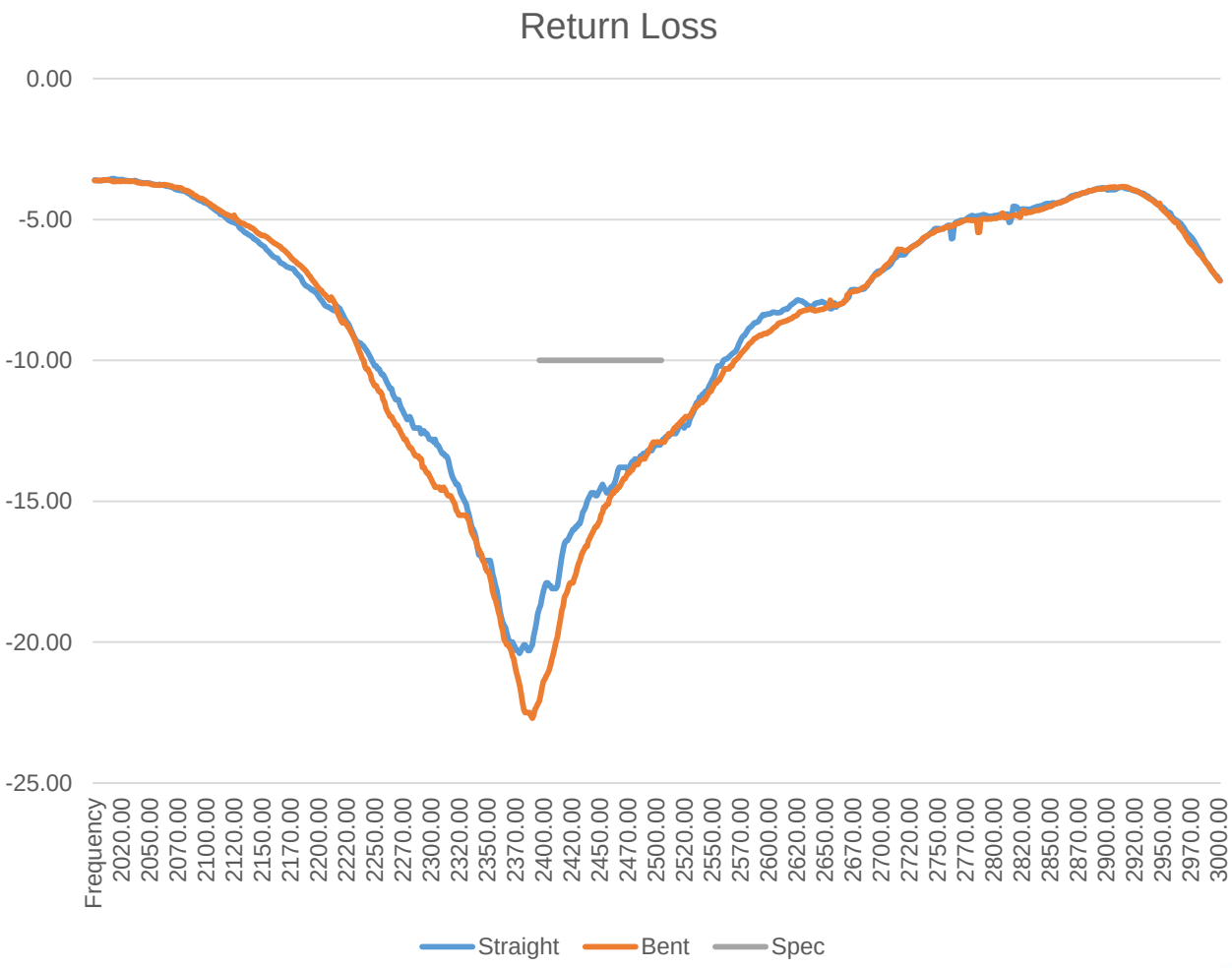
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CHARTS

Return Loss



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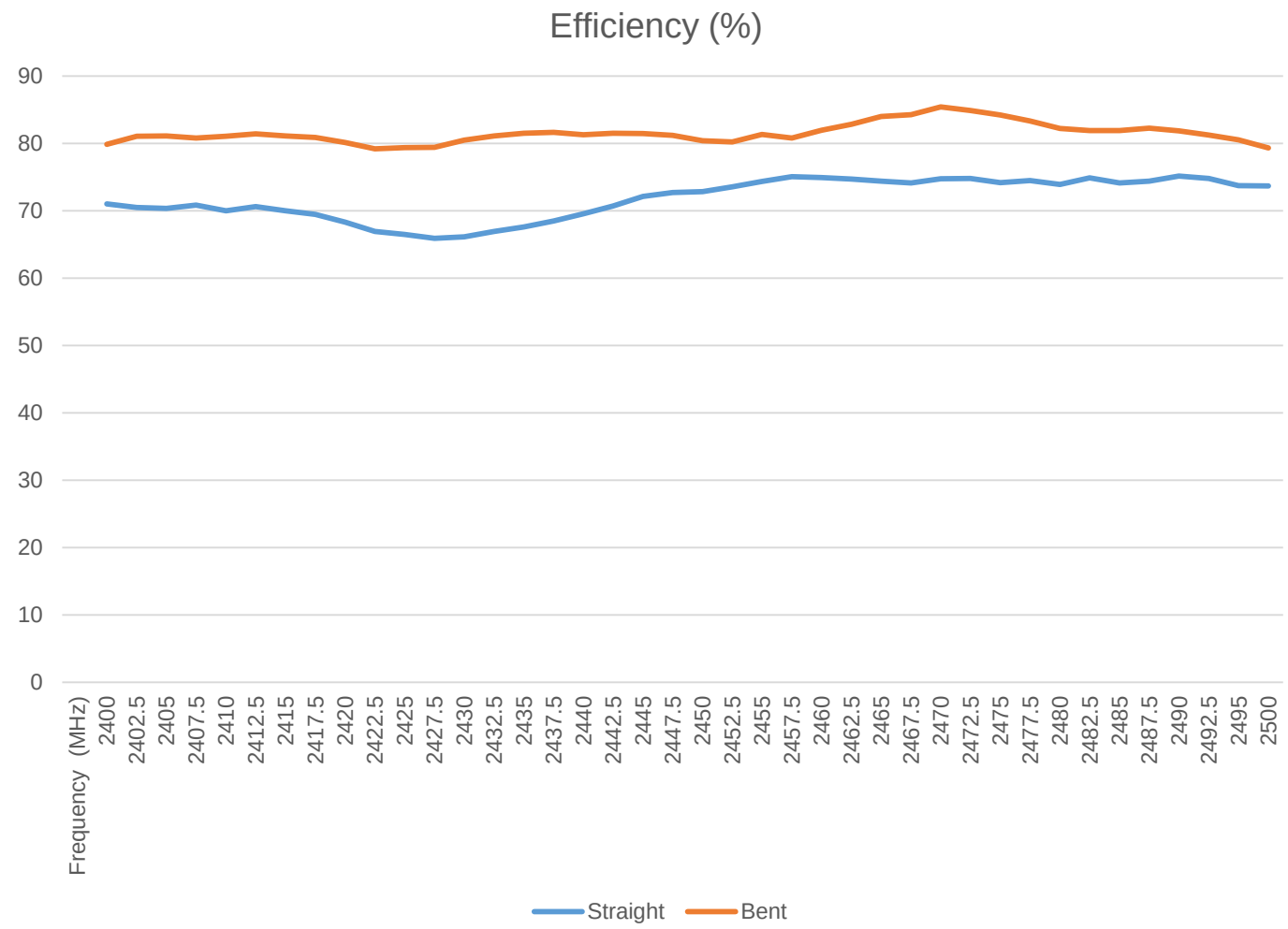
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CHARTS

Efficiency(%)



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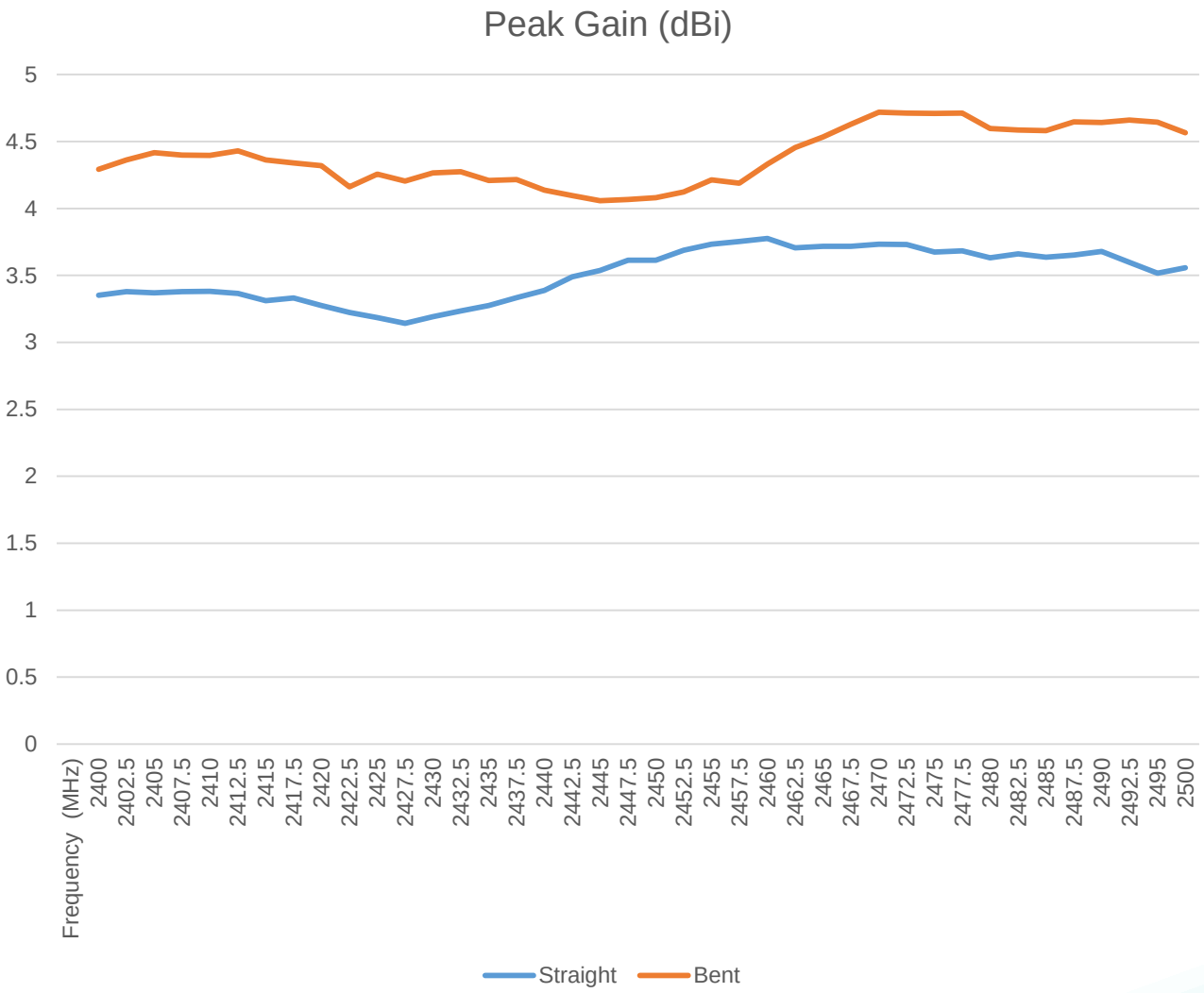
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CHARTS

Peak Gain (dBi)



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RoHS COMPLIANT

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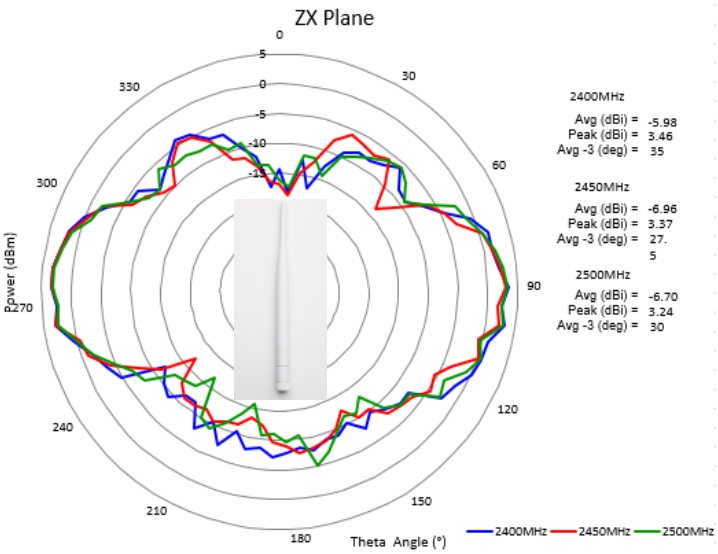
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CHARTS

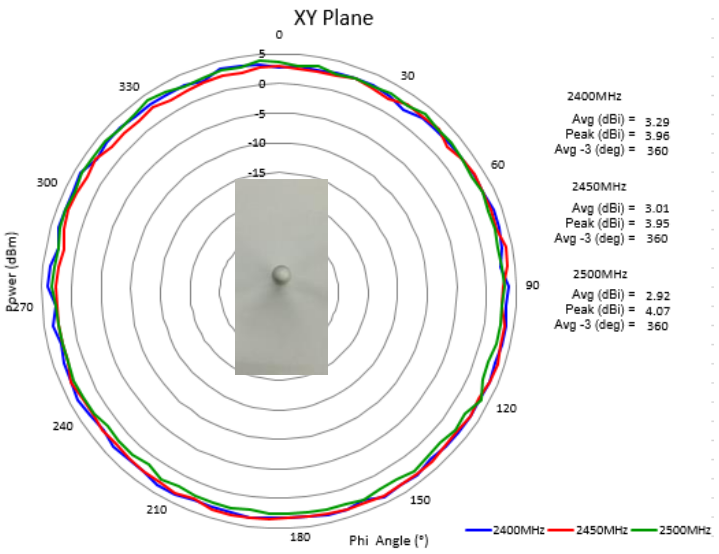
Free Space Radiation Pattern

Straight

Elevation Plane



Horizontal Plane



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RoHS COMPLIANT

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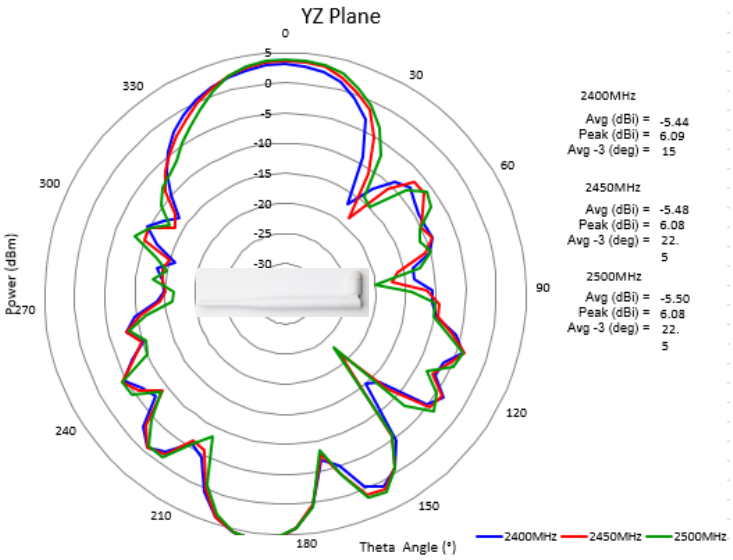
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CHARTS

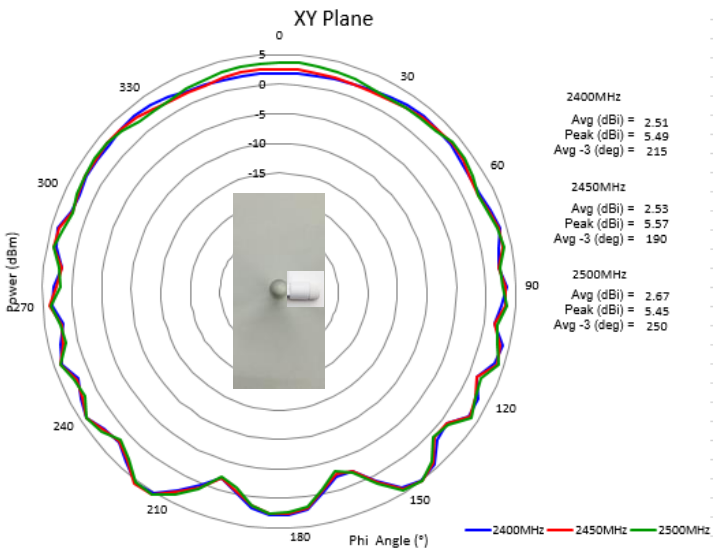
Free Space Radiation Pattern

Bent

Elevation Plane



Horizontal Plane



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RoHS COMPLIANT

PACKAGING

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

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