

915MHz & 2.4GHz External Whip Antenna



AANE-WH-0223

Request Samples



Check Inventory



Ø13 x 195 mm

RoHS/RoHS II Compliant

MSL Level = N/A

Features

- 915 MHz and 2.4GHz Dual Band Antenna
- High Peak Gain 1.9dBi / 4.0dBi
- High Efficiency up to 79%
- Swivel Connector Design for Straight, Right-Angle and 45-Degree Positioning
- Weather-Proof and IP65 Rated
- Fully Customizable Connectors

Applications

- LPWA/LoRa/SigFox Applications
- Bluetooth/BLE/Matter/Thread
- Intelligent Lighting
- Smart Metering Solutions
- Smart Irrigation Systems
- Home Automation and Fire Prevention
- Agriculture/Environment Sensing

Product Image



12117 Bee Caves Rd, Bldg-3, Suite 200 Bee
Cave, TX 78738
Phone: 512-371-6159 | Fax: 512-351-8858
For terms and conditions of sales, please visit:
www.abracon.com

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Electrical Specification

Parameter	Specification		Unit
Operating Frequency	902-928	2400-2500	MHz
VSWR(Typ.)	2.0		
Peak Gain	1.9	4.0	dBi
Maximum Efficiency	79	79	%
Average Efficiency	78	73	%
Impedance	50		Ω
Polarization	Linear		
Radiation Pattern (Azimuth)	Omni-directional		
Max Power (Ambient 25°C)	5		W

Please note: All measurement data is based on the standard configuration (conducted in free space unless otherwise specified).

Mechanical Specification

Parameter	Specification
Dimensions	Ø13 x 195 mm
Material	UV Resistant TPEE+ABS (Optional)
Recommended Torque for Mounting	0.565 N·m
Color	Black
Antenna Type	Whip (Dipole)
RF Connector ⁽¹⁾	SMA(M)

(1): Fully Customizable RF Connectors

Environmental Specification

Parameter	Specification
Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +85°C
IP Rating	IP65 (Optional)
RoHS Complaint	Yes



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Ordering Information

Part Number	Description	Connector Option
AANE-WH-0223-1	915MHz & 2.4GHz External Whip Antenna with SMA(M) connector, IP65 & UV-Resistant Housing	SMA(M)
AANE-WH-0223-2	915MHz & 2.4GHz External Whip Antenna with RP-SMA(M) connector, IP65 & UV-Resistant Housing	RP-SMA(M)
AANE-WH-0223-3	915MHz & 2.4GHz External Whip Antenna with SMA(M) connector	SMA(M)
AANE-WH-0223-4	915MHz & 2.4GHz External Whip Antenna with RP-SMA(M) connector	RP-SMA(M)

Note: Different connector configurations that are not listed may be available upon request via [Abracon online support](#)



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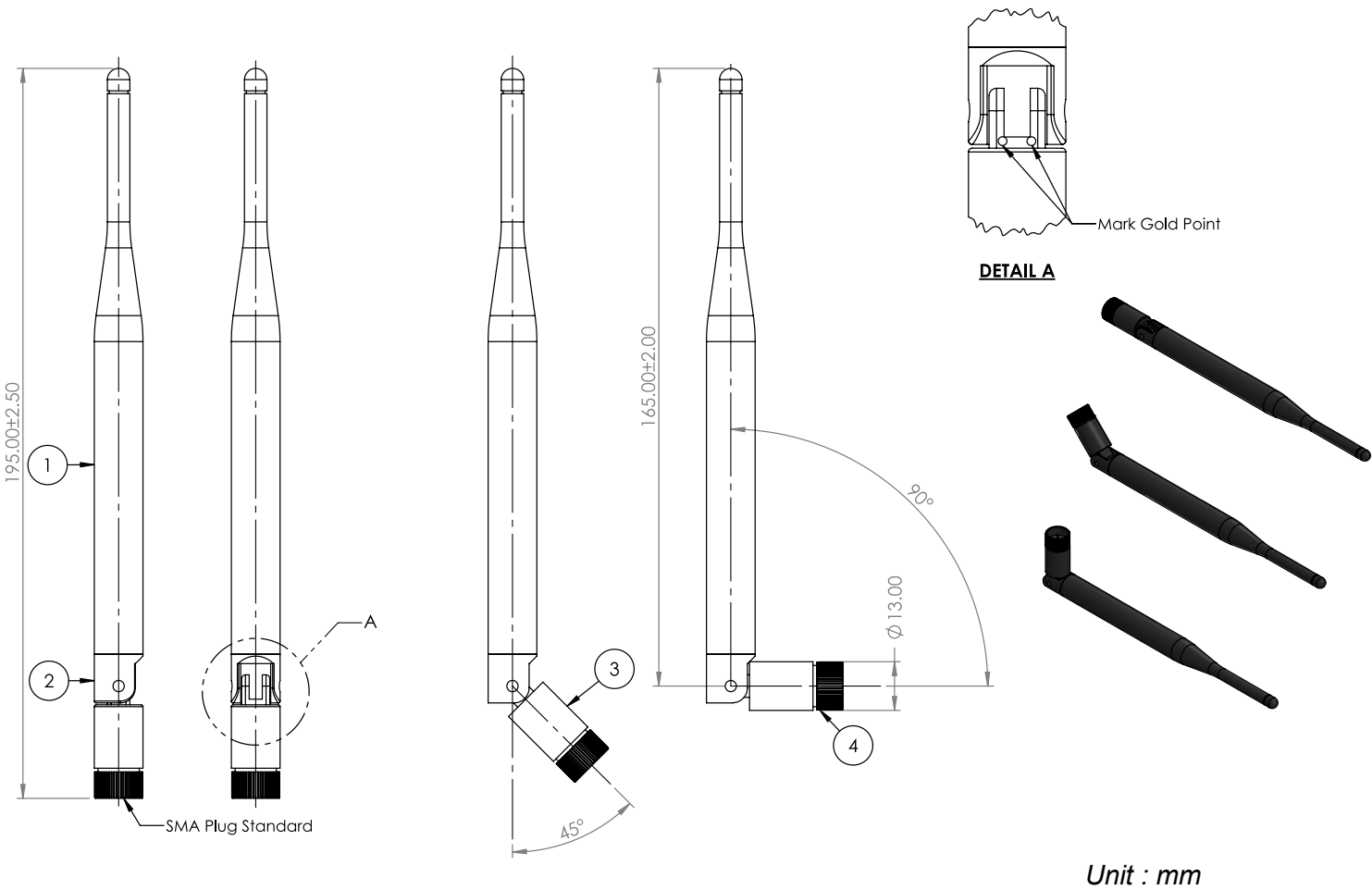


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Product Dimensions



	Name	Material	Finish	QTY
1	Antenna Housing	TPEE	Black	1
2	Hinge	ABS	Black	1
3	Housing	ABS	Black	1
4	RF Connector	Copper	Black	1

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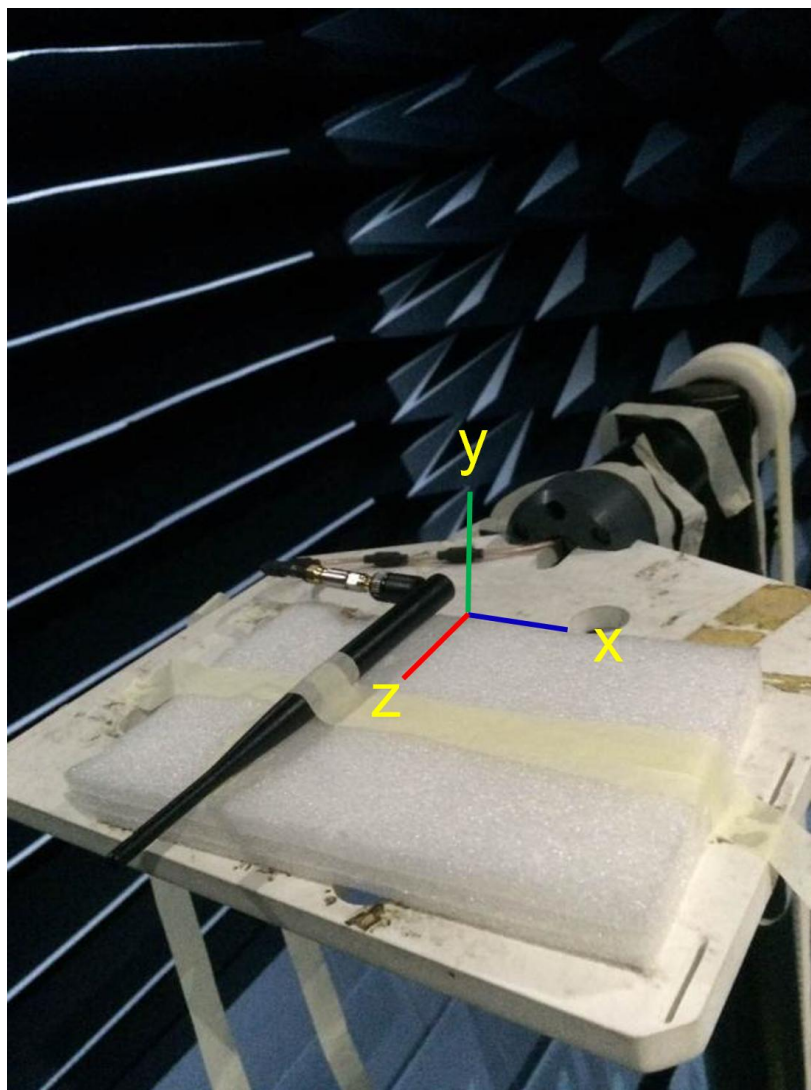


Ø13 x 195 mm

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Measurement Setup (Free Space)



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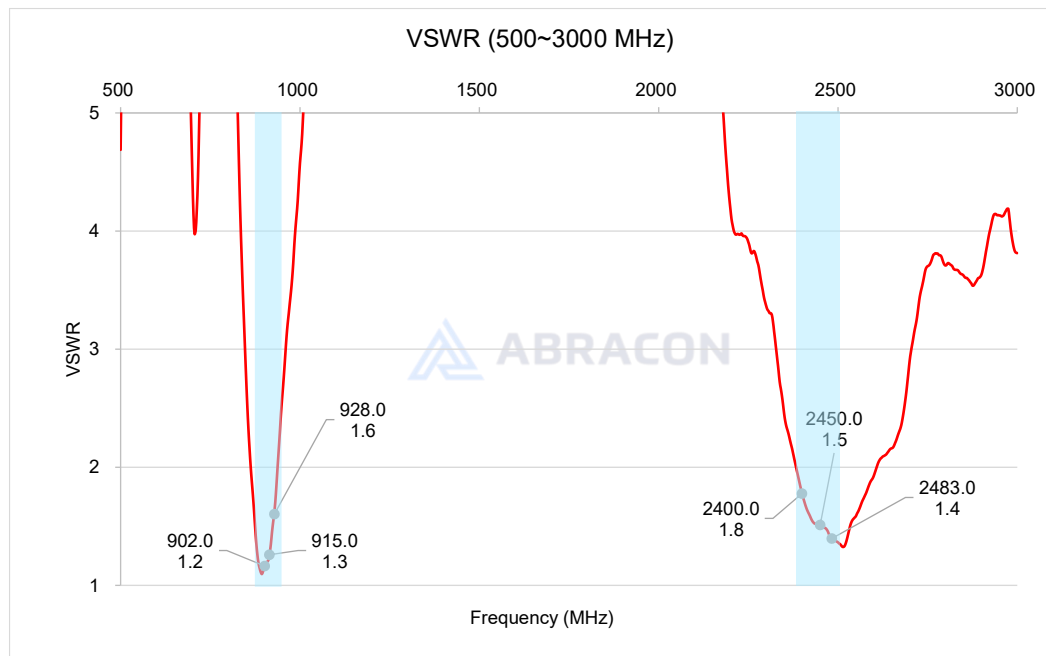
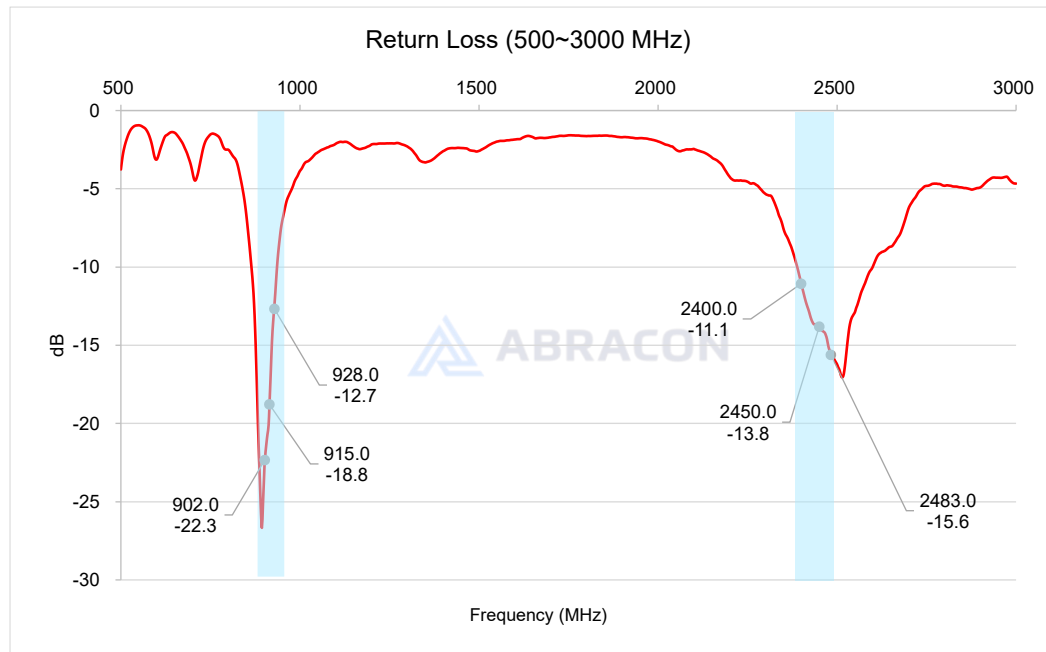


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Reflection Characteristics – Return Loss & VSWR



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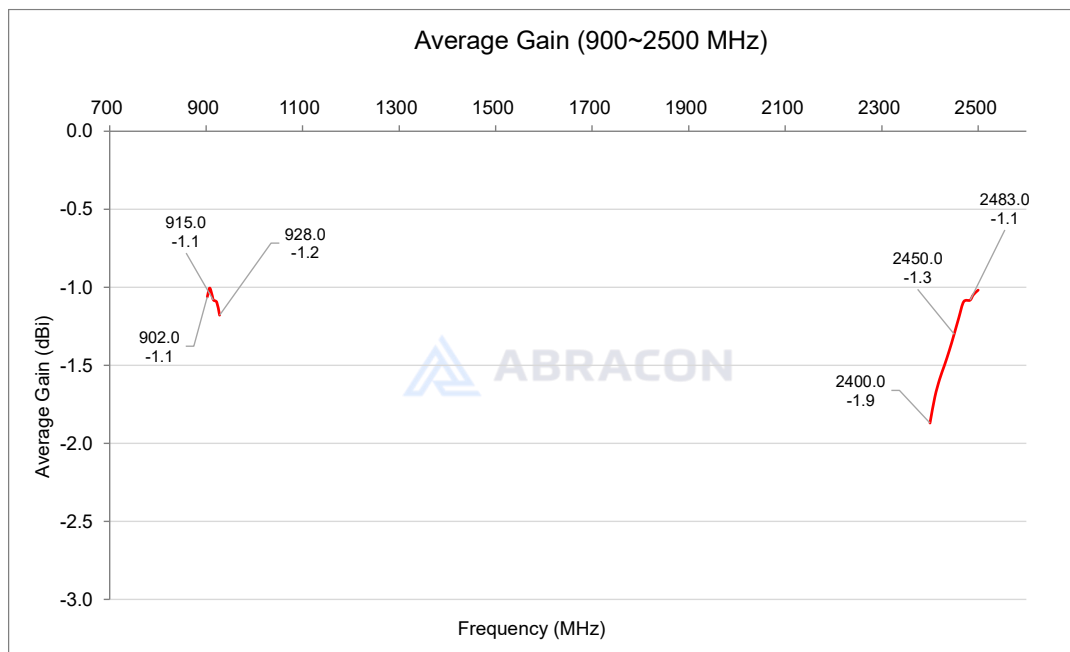
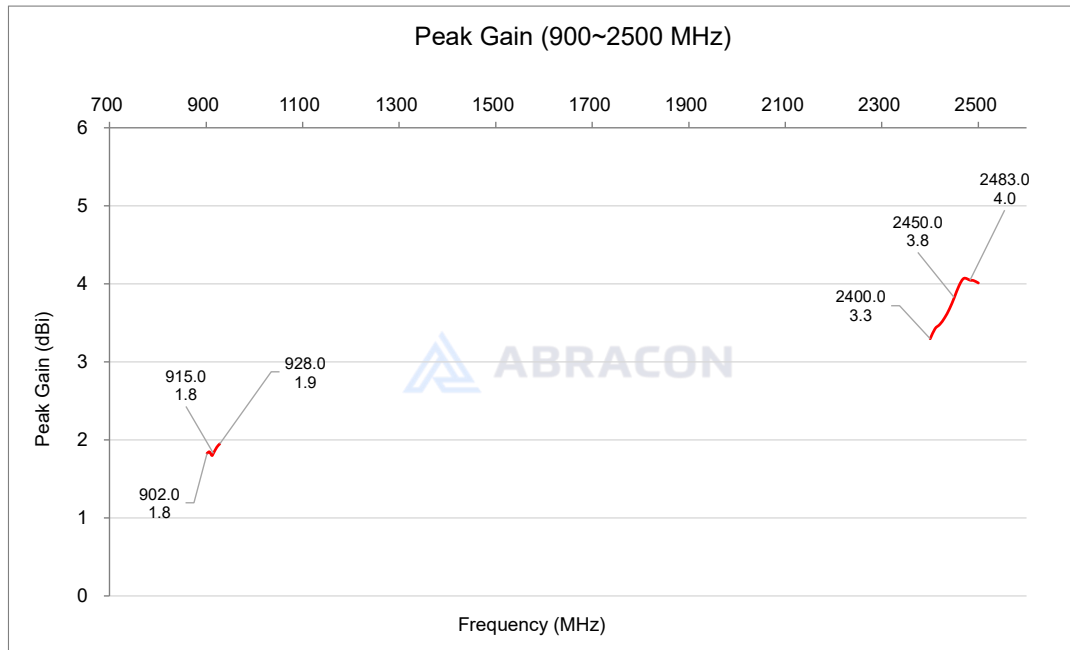


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Radiation Characteristics – Peak Gain & Average Gain



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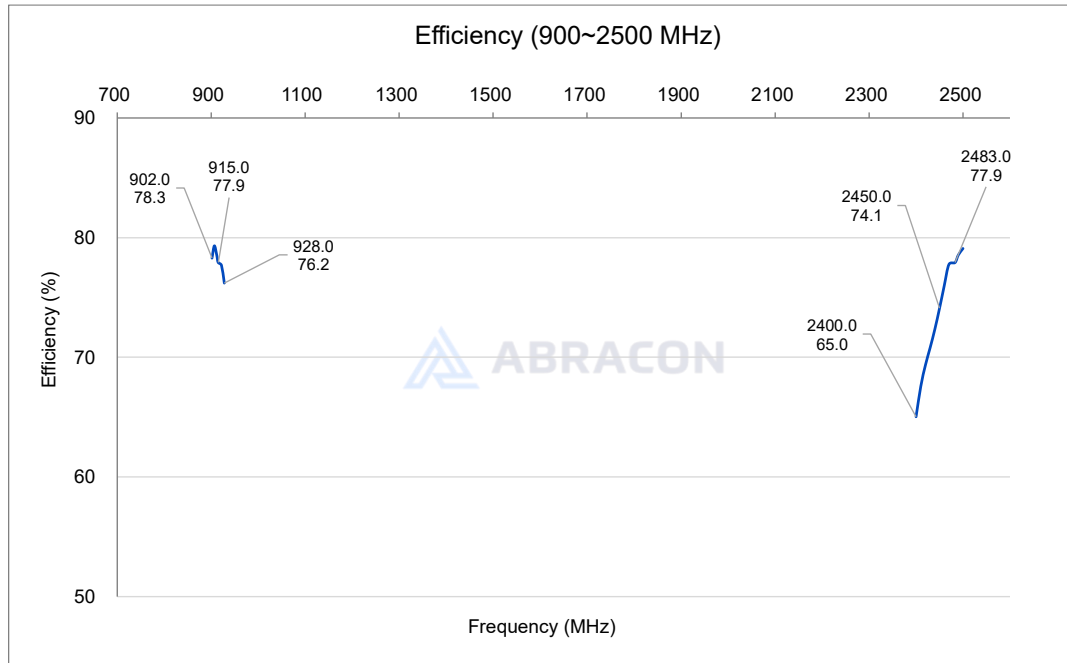


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Radiation Characteristics – Total Efficiency (%)



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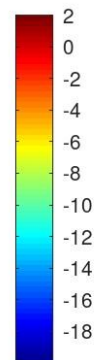
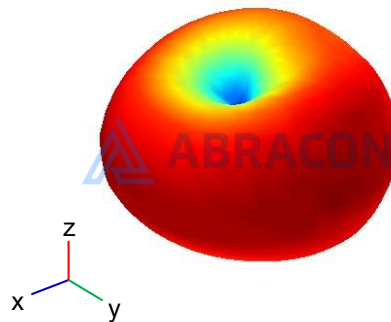
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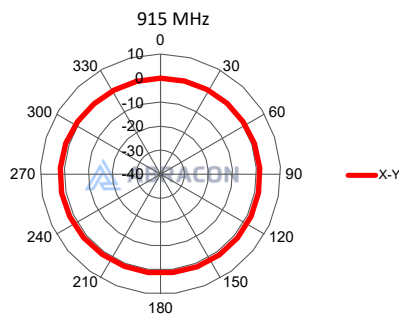
MSL Level = N/A

Radiation Characteristics – 3D & 2D Pattern (Free Space)

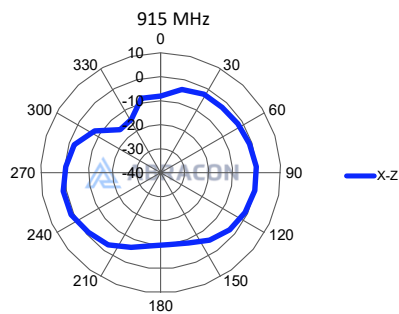
915MHz



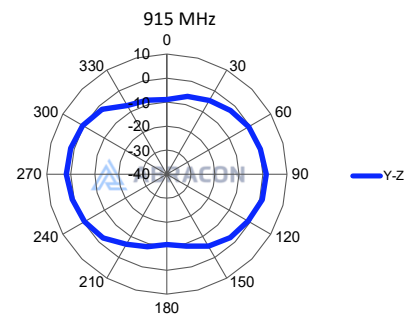
XY plane



XZ plane



YZ plane



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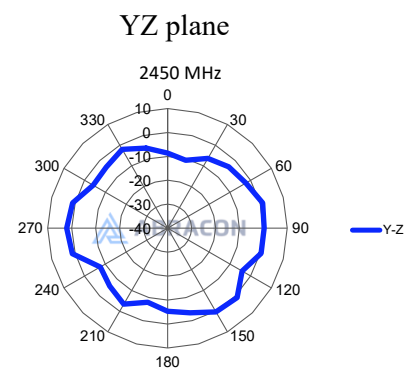
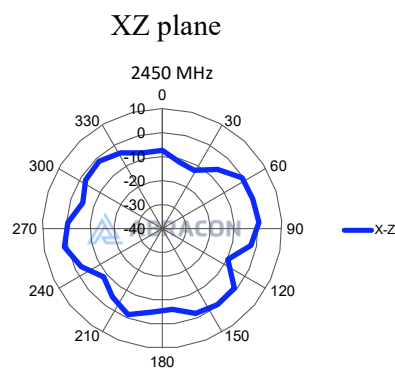
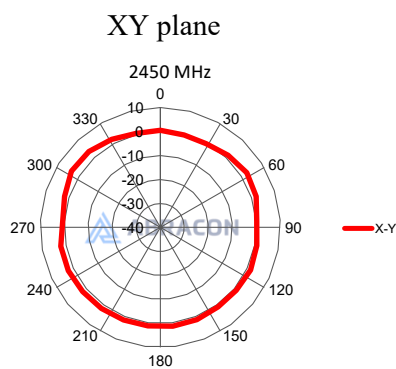
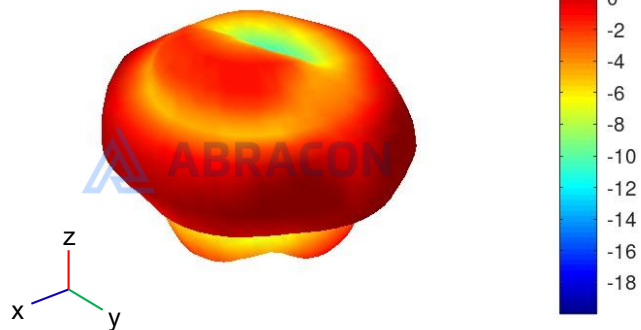


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2450MHz



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Packaging

Number of antennas / PE bag: 40 pcs

Number of PE bags / carton: 10

Total antennas / carton: 400 pcs

ATTENTION: Abracon LLC's products are Commercial-Off-The-Shelf ('COTS'), which are designed, intended, and validated for use in commercial, industrial, and automotive applications. The customer is responsible for testing and verifying the performance of an Abracon solution to meet their system-level requirements.



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