

# 915MHz Weather-Proof Whip Antenna



**AANE-WH-0033**

Request Samples



Check Inventory



Ø8.0 x 44.4 mm

RoHS/RoHS II Compliant

MSL = N/A

## Features

- 915 MHz Monopole Antenna
- Peak Gain: 2.5 dBi
- High Efficiency up to 73%
- Weather-Proof and IP66 Rated
- Fully Customizable Connectors

## Applications

- LPWA/LoRa/SigFox Applications
- 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](http://www.abracon.com)

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## Electrical Specification

Parameter	Specification			Unit
	Min	Typ	Max	
Operating Frequency	902 - 928			MHz
VSWR (Typ.)	< 2.0			
Peak Gain	2.5			dBi
Maximum Efficiency	73			%
Average Efficiency	69.3			%
Impedance	50			Ω
Polarization	Linear			
Radiation Pattern (Azimuth)	Omni-directional			
Input Power (Ambient 25°C)	5			W

## Mechanical Specification

Parameter	Specification
Dimensions	Ø8.0 x 44.4 mm
Material	UV Resistant TPEE
Recommended Torque for Mounting	0.565 N·m
Color	Black
Antenna Type	Whip (Monopole)
RF Connector <sup>(1)</sup>	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	IP66
ROHS Complaint	Yes



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## Ordering Information

Part Number	Description	Connector Option
AANE-WH-0033-1	915MHz Weather-Proof Whip Antenna with SMA(M) Connector, IP66 & UV-Resistant Housing	SMA(M)
AANE-WH-0033-2	915MHz Weather-Proof Whip Antenna with RP-SMA(M) Connector, IP66 & UV-Resistant Housing	RP-SMA(M)



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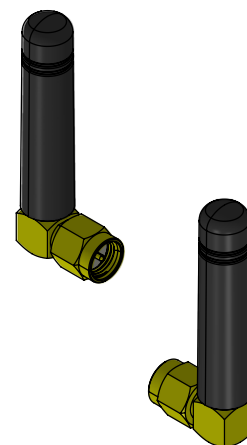
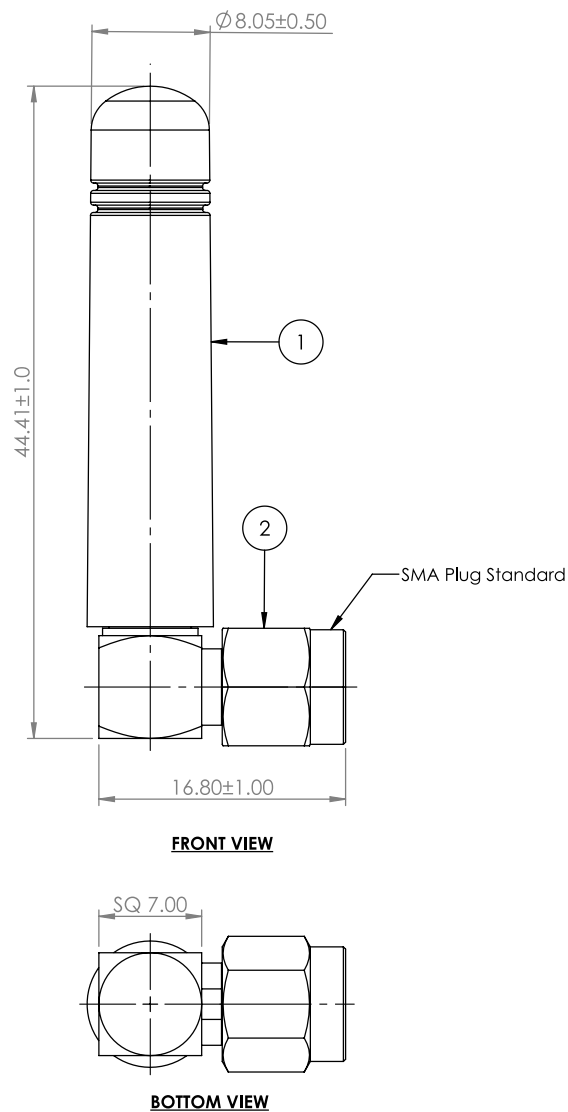


Ø8.0 x 44.4 mm

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## Product Dimensions



Unit : mm

No.	Name	Meterial	Finish
1	Body	TPEE	Black
2	Connector	SMA(M)	Au-Plated

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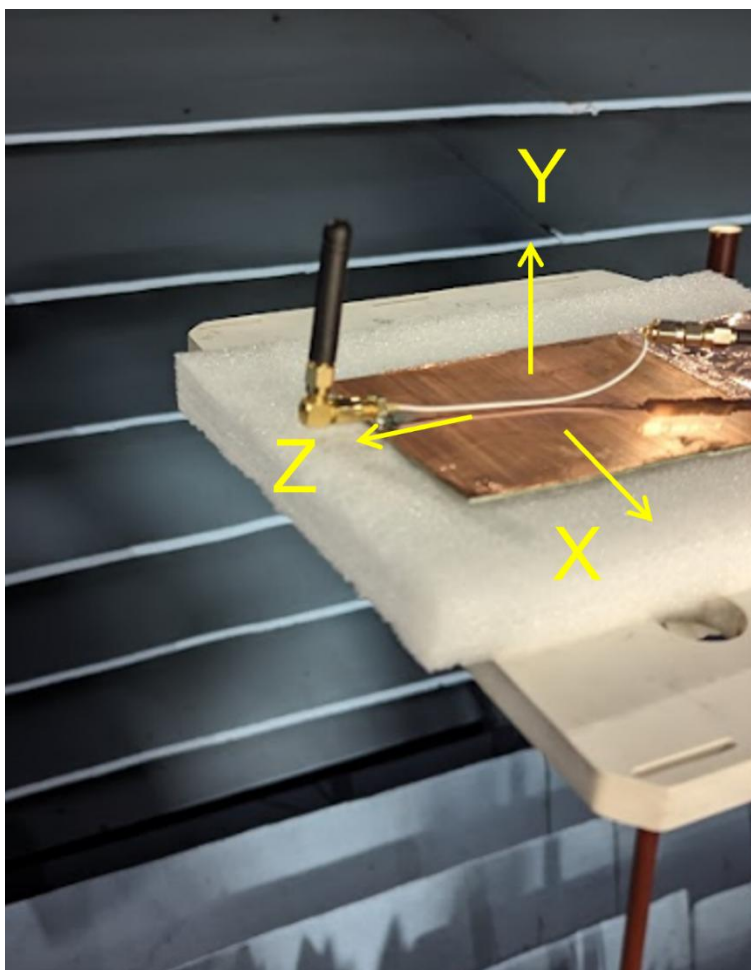


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## Measurement Setup **photo**



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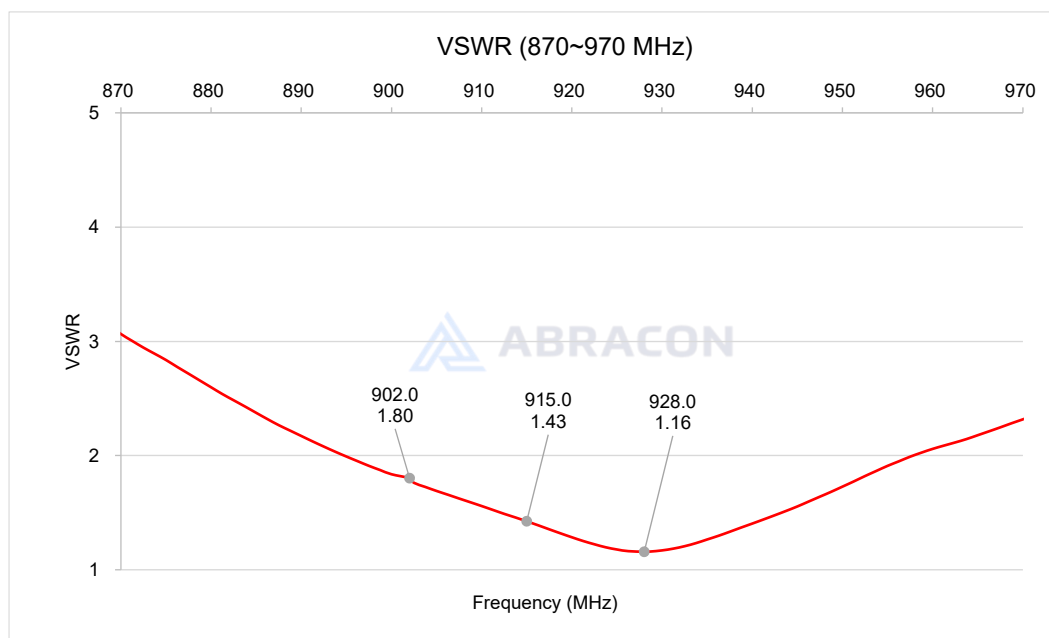
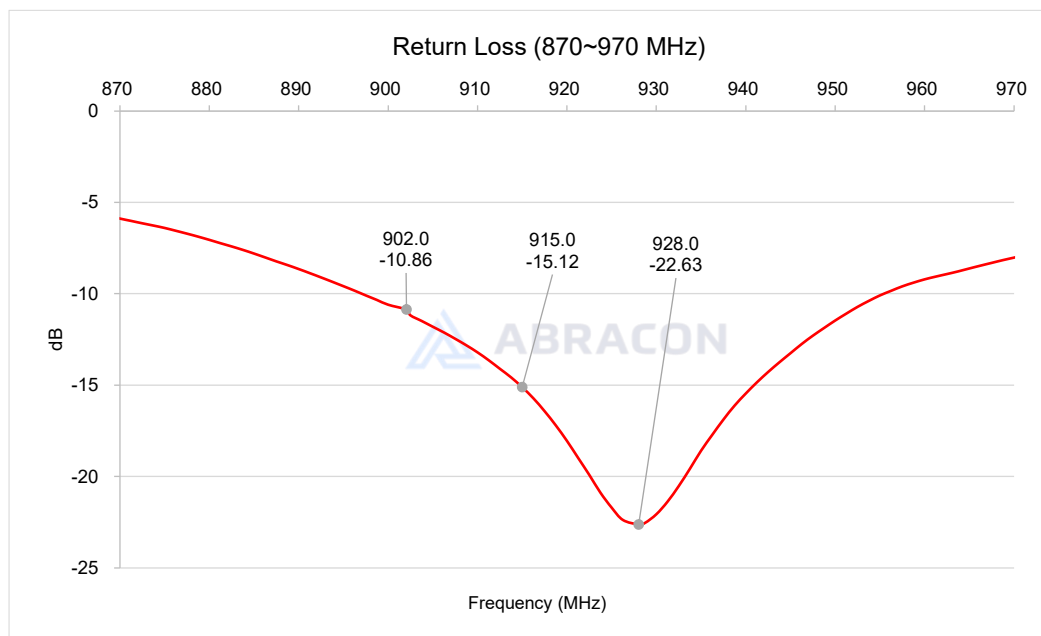


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## Reflection Characteristics – Return Loss & VSWR



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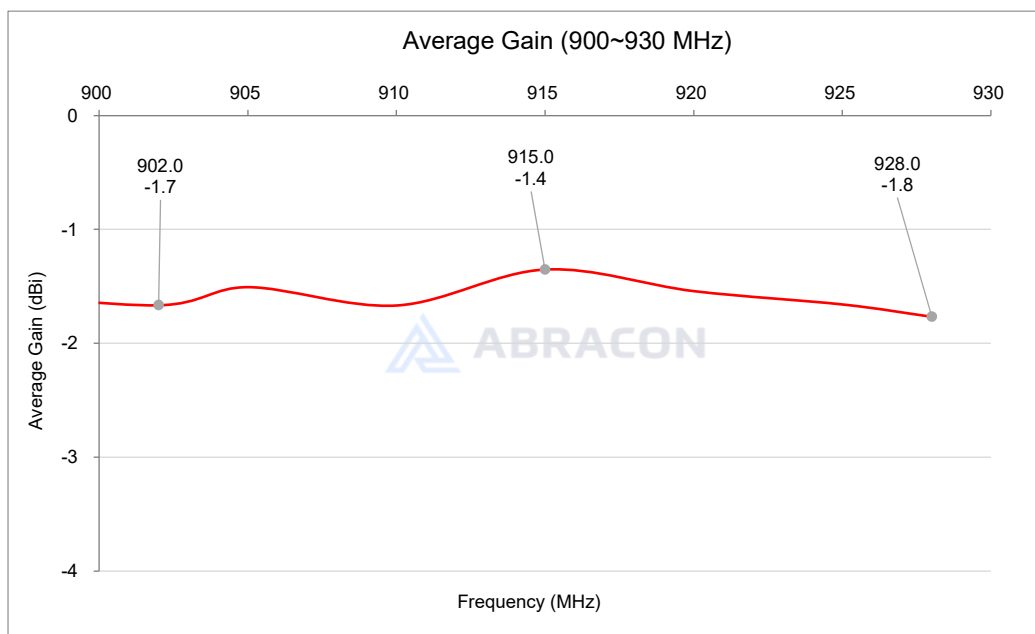
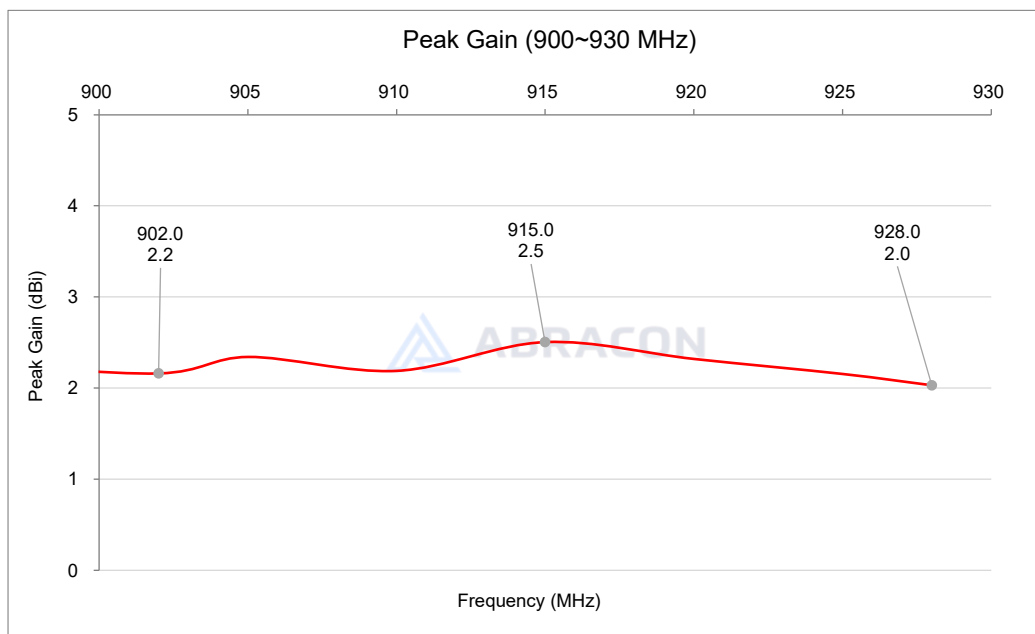


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## Radiation Characteristics – Peak Gain & Average Gain



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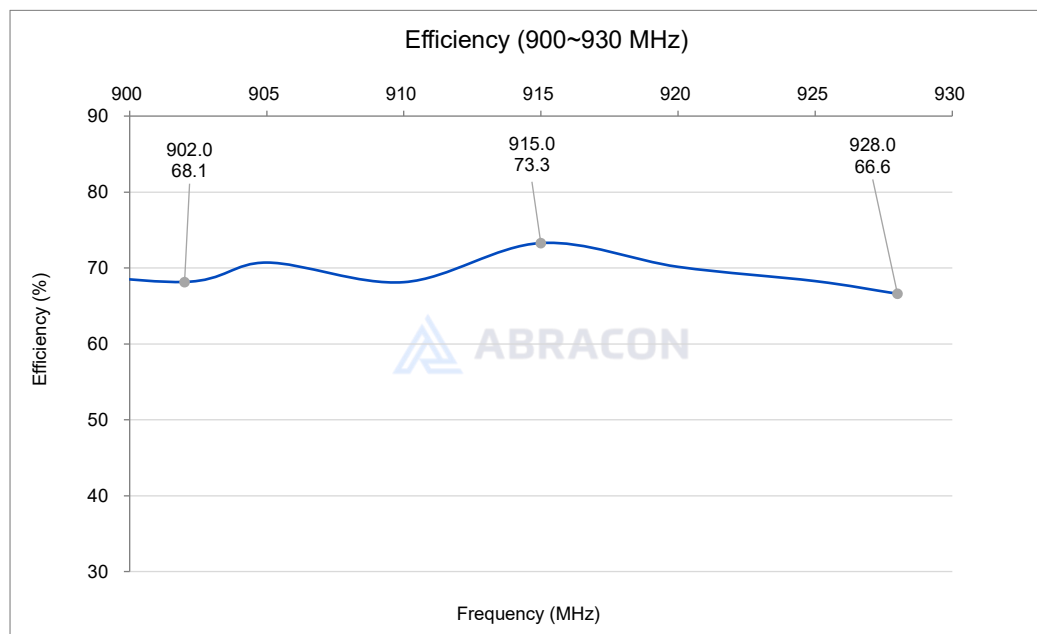


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## Radiation Characteristics – Total Efficiency (%)



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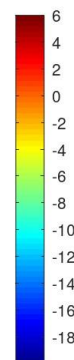
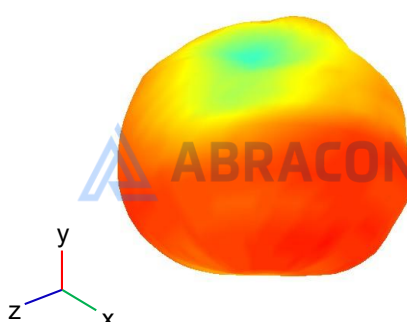
Ø8.0 x 44.4 mm

RoHS/RoHS II Compliant

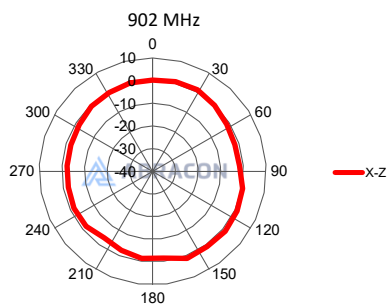
MSL = N/A

## Radiation Characteristics – 3D & 2D Pattern

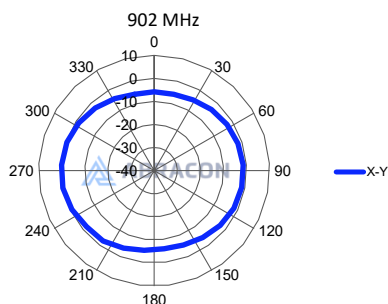
902MHz



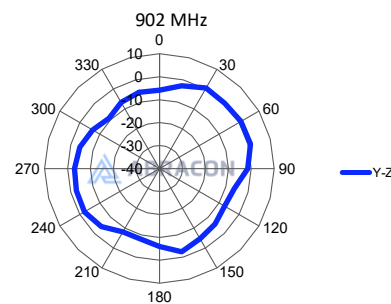
XZ plane



XY plane



YZ plane



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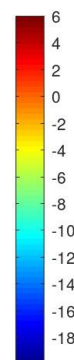
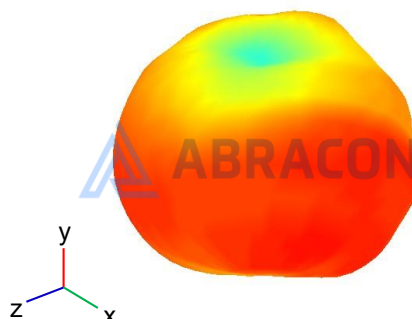


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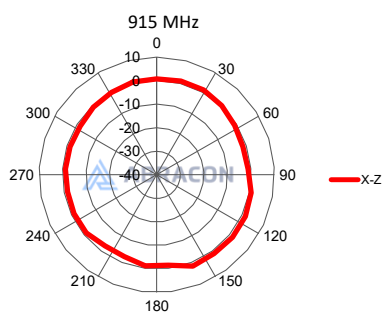
RoHS/RoHS II Compliant

MSL = N/A

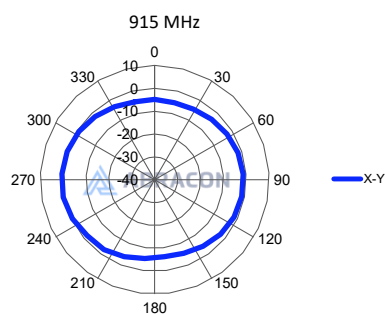
915MHz



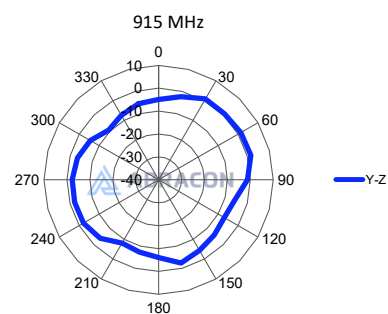
XZ plane



XY plane



YZ plane



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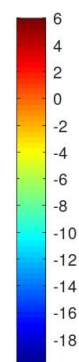
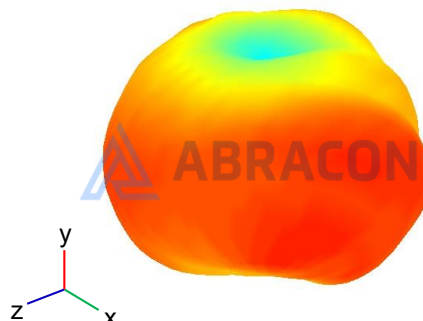


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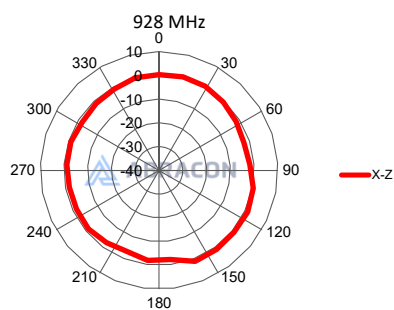
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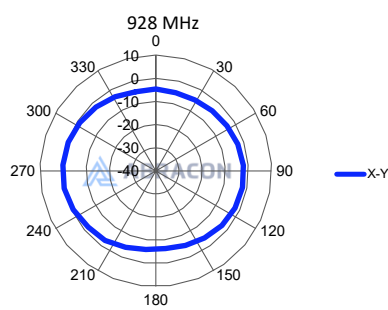
928MHz



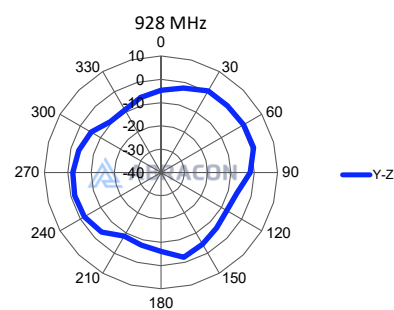
XZ plane



XY plane



YZ plane



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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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