

AANE-WH-0145

Request Samples



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Ø8.8 x 77.0 mm **RoHS/RoHS II Compliant** MSL = N/A

Features

- 915/2400 MHz LPWA/ISM Antenna
- Peak Gain: 1.2/1.8 dBi
- High Efficiency Up to 72%
- Fixed Right-Angle Connector
- IP66 Rated and UV Resistant
- 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

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Electrical Specification

Parameter		Specification		Unit
Operating Frequency		902-928	2400-2483	MHz
VSWR (Typ.)		< 2.0		
Peak Gain	Free Space	-0.7	1.3	dBi
	On Metal	1.2	1.8	ubi
Maximum Efficiency	Free Space	38.2	72	%
	On Metal	62.8	51.3	70
Impedance		50		Ω
Polarization		Linear		
Radiation Pattern (Azimuth)		Omni-directional		
Input Power (Ambient 25°C)		5		W

Mechanical Specification

Parameter	Specification	
Dimensions	Ø8.8 x 77.0 mm	
Metal Plate Dimension	200 x 100 mm	
Material	UV Resistant TPEE	
Recommended Torque for Mounting	0.565 N·m	
Color	Black	
Antenna Type	Whip (Monopole)	
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	IP66	
RoHS Complaint	Yes	



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Ordering Information

Part Number	Description	Connector Option
AANE-WH-0145-1	915/2400 MHz Weather-Proof Whip Antenna with SMA(M) Connector, IP66 Rated & UV-Resistant Housing	SMA(M)
AANE-WH-0145-2	AANE-WH-0145-2 915/2400 MHz Weather-Proof Whip Antenna with RP-SMA(M) Connector, and IP66 Rated & UV-Resistant Housing	

Note: Different connector configurations that are not listed may be available upon request via Abracon online support



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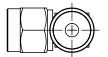


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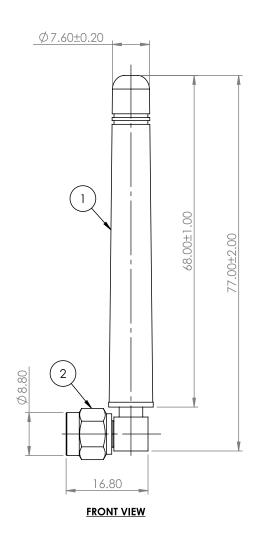


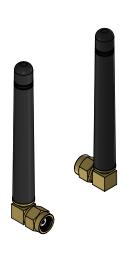
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Product Dimensions



TOP VIEW





Unit: mm

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



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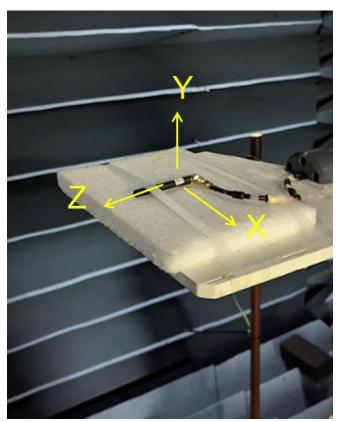


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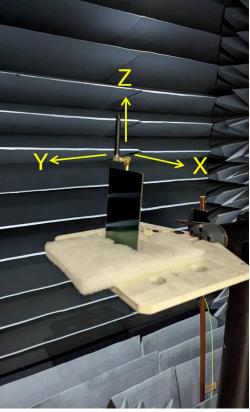


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Measurement Setup



Free Space



On Metal



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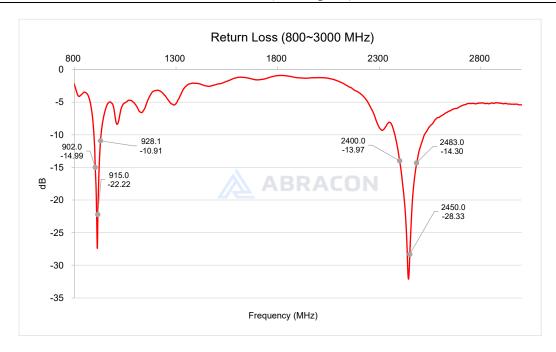


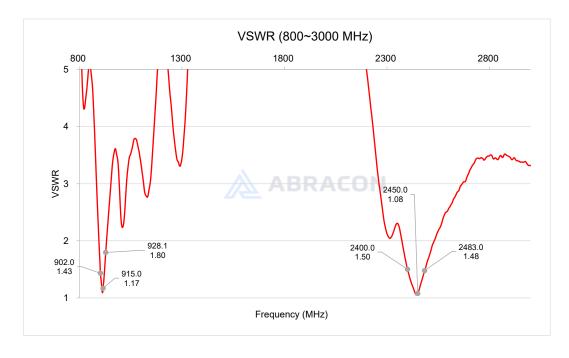
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Ø8.8 x 77.0 mm RoHS/RoHS II Compliant MSL = N/A

Reflection Characteristics - Return Loss & VSWR (Free Space)







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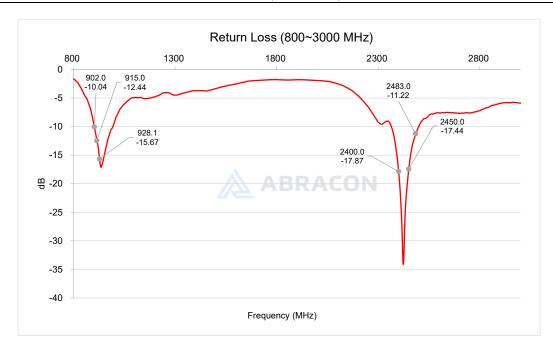


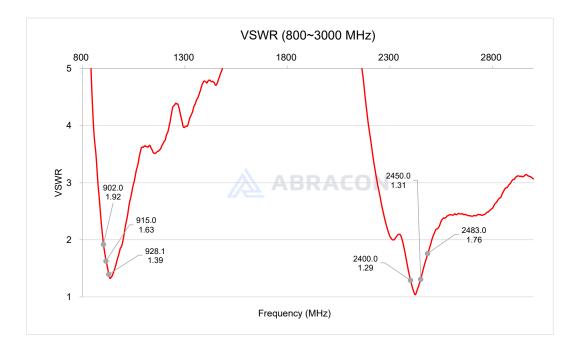
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Reflection Characteristics - Return Loss & VSWR (On Metal)







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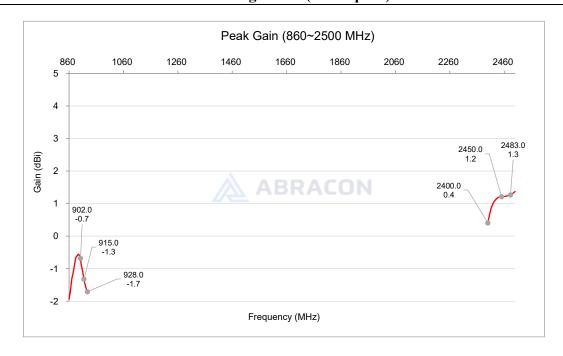


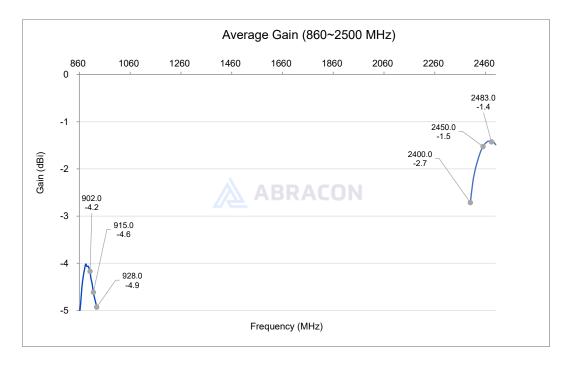
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Ø8.8 x 77.0 mm RoHS/RoHS II Compliant MSL = N/A

Radiation Characteristics - Peak Gain & Average Gain (Free Space)







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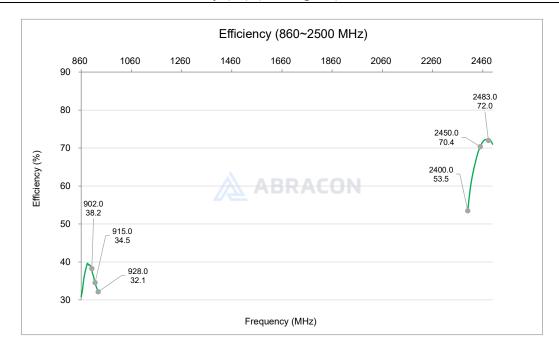


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Ø8.8 x 77.0 mm **RoHS/RoHS II Compliant** MSL = N/A

Radiation Characteristics – Total Efficiency (%) (Free Space)





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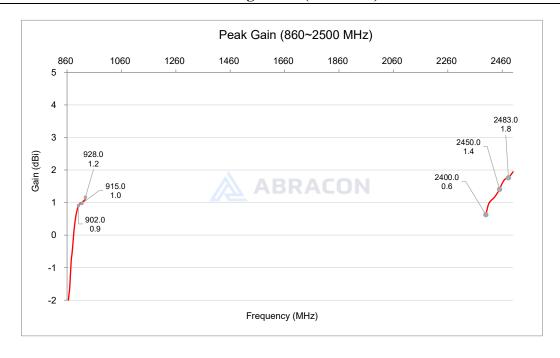


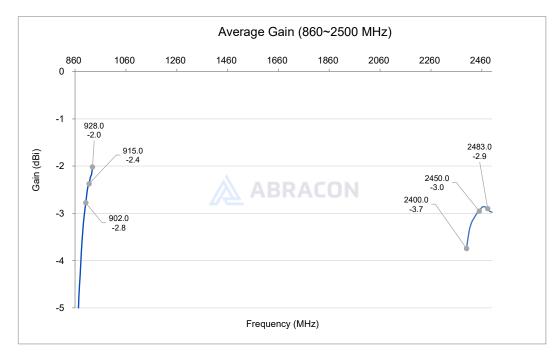
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Radiation Characteristics - Peak Gain & Average Gain (On Metal)







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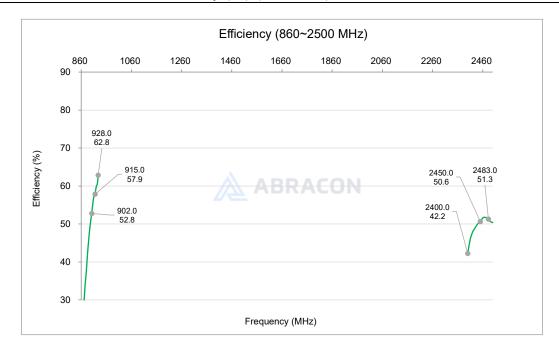


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Radiation Characteristics – Total Efficiency (%) (On Metal)





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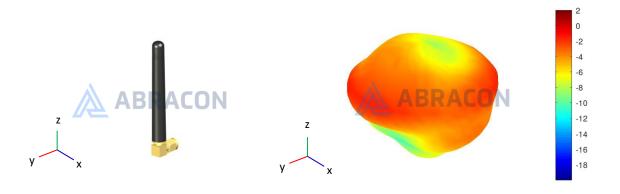
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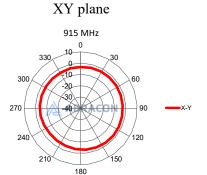


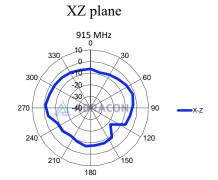
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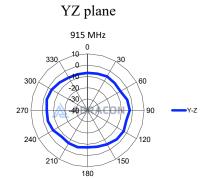
Radiation Characteristics – 3D & 2D Pattern (Free Space)

915MHz











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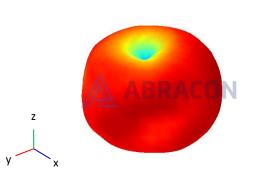
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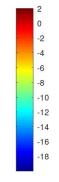


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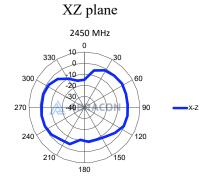
2450MHz

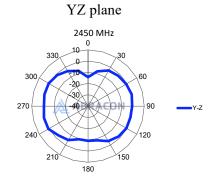






XY plane 2450 MHz 300 270







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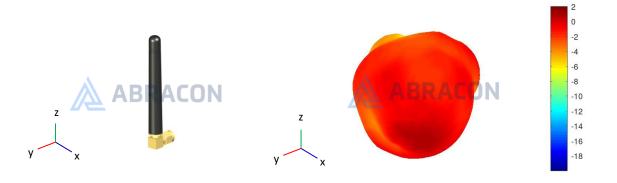
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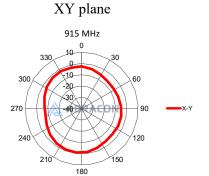


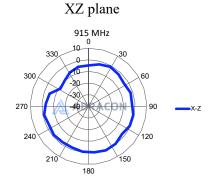
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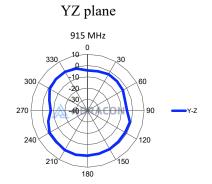
Radiation Characteristics – 3D & 2D Pattern (On Metal)

915MHz











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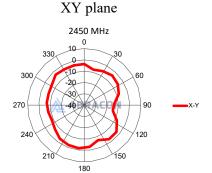


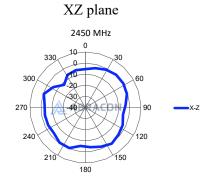
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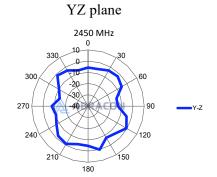
2450MHz













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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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