

2 x MIMO WIFI - External Puck Antenna



AECW0401W2-0600F

Request Samples



Check Inventory



Ø46.6 x 16.3 mm

RoHS/RoHS II Compliant

Features

- High efficiency up to 52%
- High peak gain up to 2.0 dBi
- IP66 Rated
- Easy Installation with screw mount
- Customizable RF cable length and connector types
- RoHS Compliant

Applications

- WiFi/WLAN coverage
 - WiFi 4/5 (802.11b/g/n/ac)
- Bluetooth®/ ZigBee® / Thread/ Matter
- Router and Networking
- Home Automation and Remote Sensing
- Robotics and Video Streaming

Product Image



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Electrical Specification

Parameters	Specifications		Units	Notes
Frequency Range	2400-2500	5150-5850	MHz	
VSWR (Typ.)	2.0	2.5		
Gain (Main & Aux)	1.2	2.0	dBi	Zenith
Efficiency (Main & Aux)	46	52	%	
Polarization	Linear			
Impedance	50		Ω	

Mechanical Specification

Parameters	Specifications
Overall Dimension	Ø46.6 x 14.5 mm
RF Cable Type	2 x LMR100
RF Cable Length	0.6M (2 pcs)
Recommended Torque for Mounting	0.565 N·m
RF Connector Type	2 x Right-angle FAKRA-Z
Mounting Method	Screw
Housing Material	ABS ⁽¹⁾
Radome Color	Black

(1): UV Resistant optional

Environmental Specification

Parameters	Specifications
Operating Temperature	-40 °C to +85 °C
Storage Temperature	-40°C to +85°C
IP Rating	IP66
Relative Humidity	Up to 95%
Vibration	10 to 55 Hz with 1.5 mm amplitude 2 hours
RoHS Compliant	Yes



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REVISED: 08-07-23

ABRACON IS
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Ordering Information

Part Number	Description	Connector Option
AECW0401W2-0600F	2 x LMR100 cable in 600 mm with 2 x right-angle FAKRA-Z connectors. UV resistant ABS housing material	Right angle FAKRA Z
AECW0401W2-3000S	2 x LMR100 cable in 3000 mm with 2 x SMA (M) connectors.	SMA(M)



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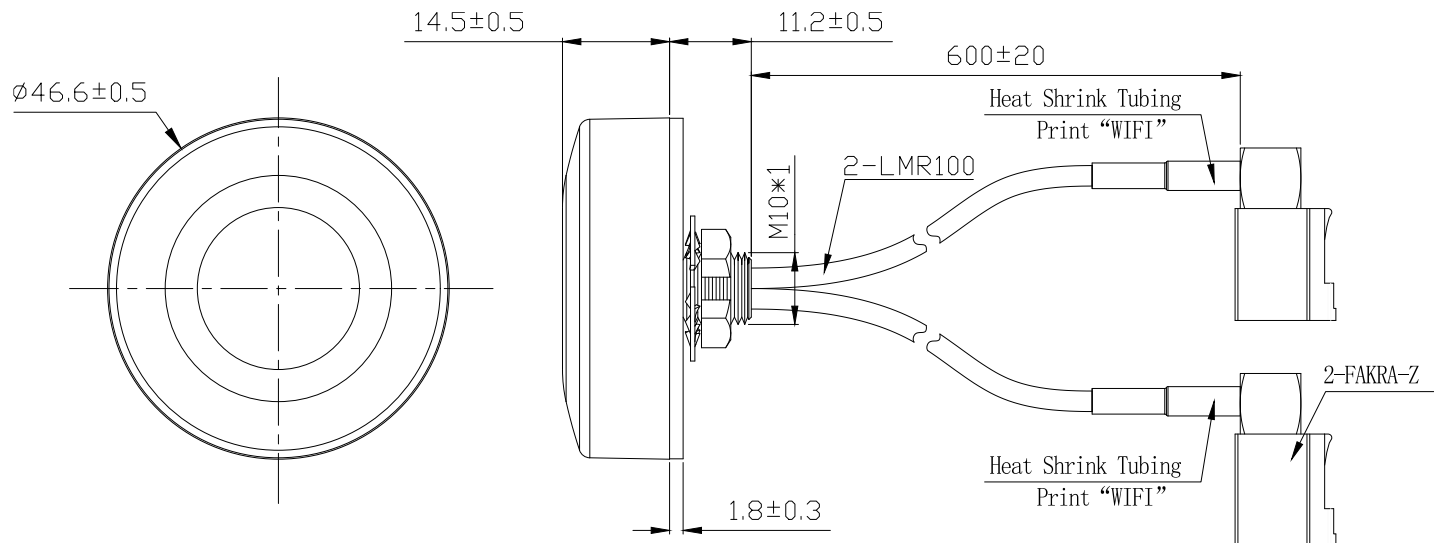


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Product Dimensions



Unit: mm

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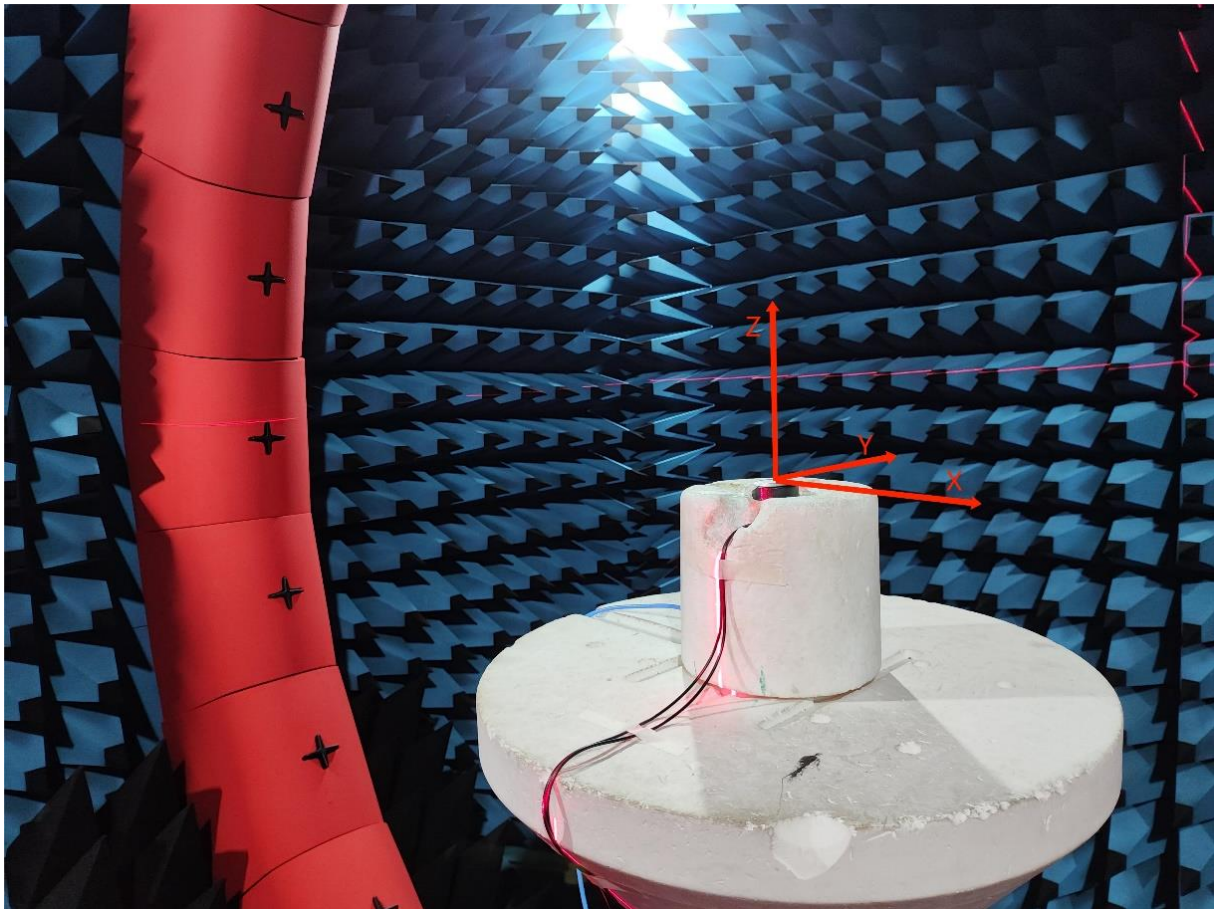


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Measurement Setup



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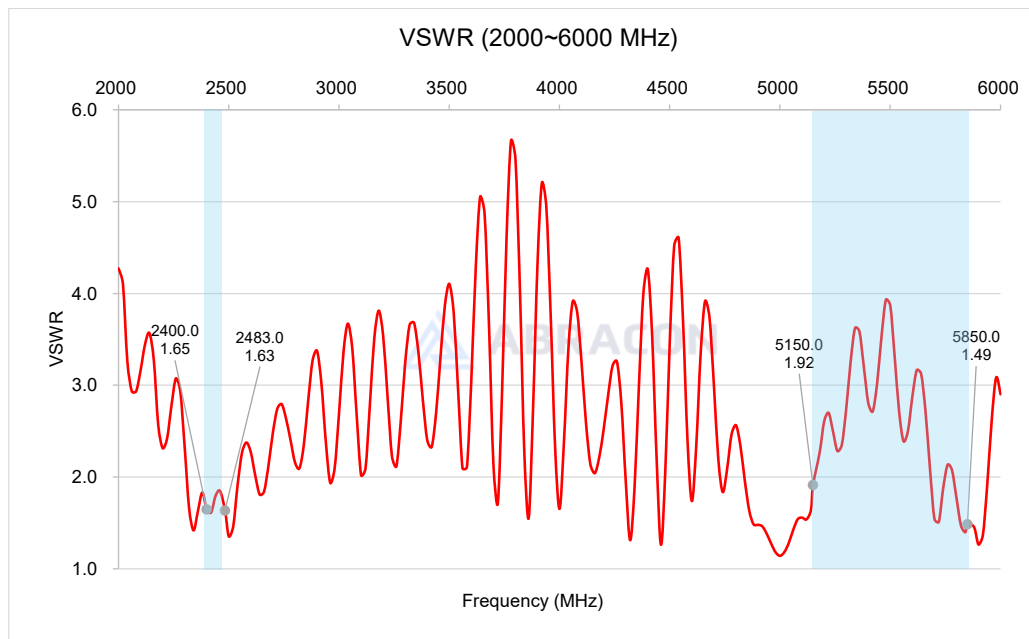
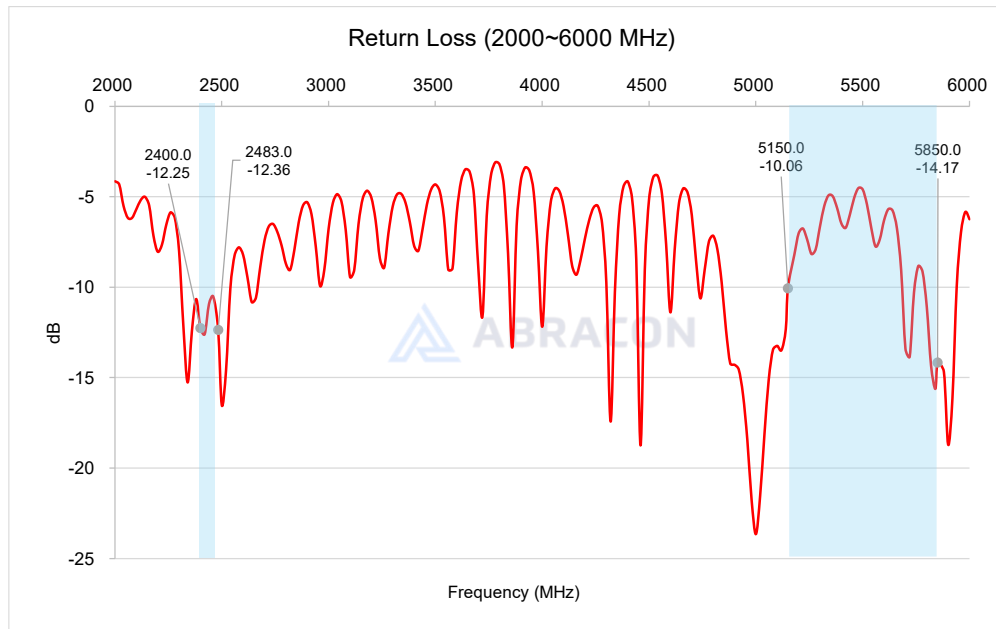


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Ø46.6 x 16.3 mm
RoHS/RoHS II Compliant

Reflection Characteristics – Return Loss & VSWR (Main)



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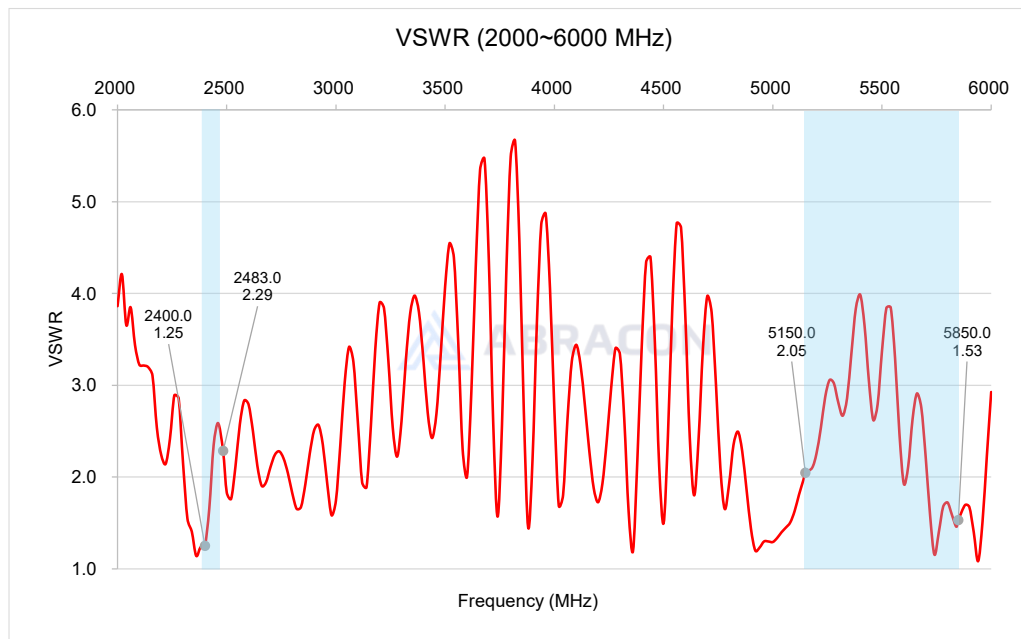
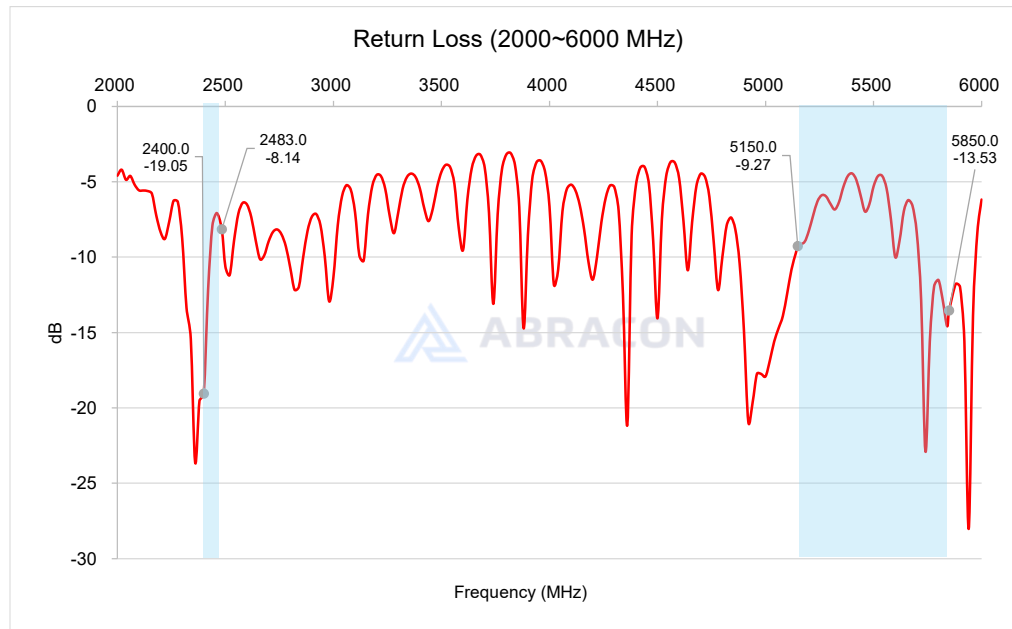
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Ø46.6 x 16.3 mm

RoHS/RoHS II Compliant

Reflection Characteristics – Return Loss & VSWR (Aux)



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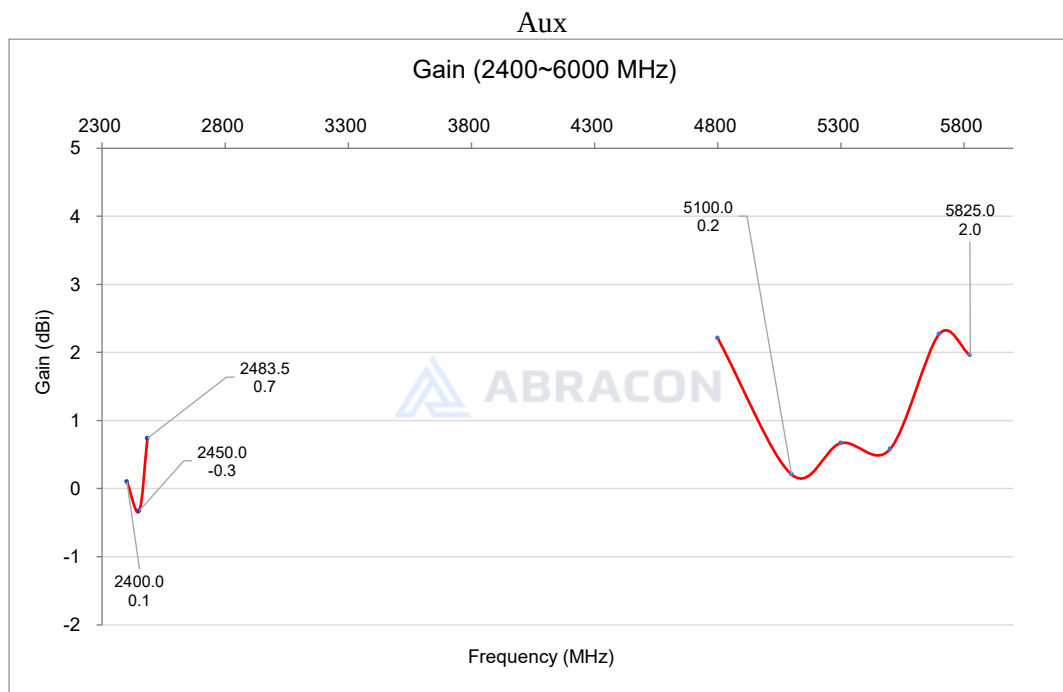
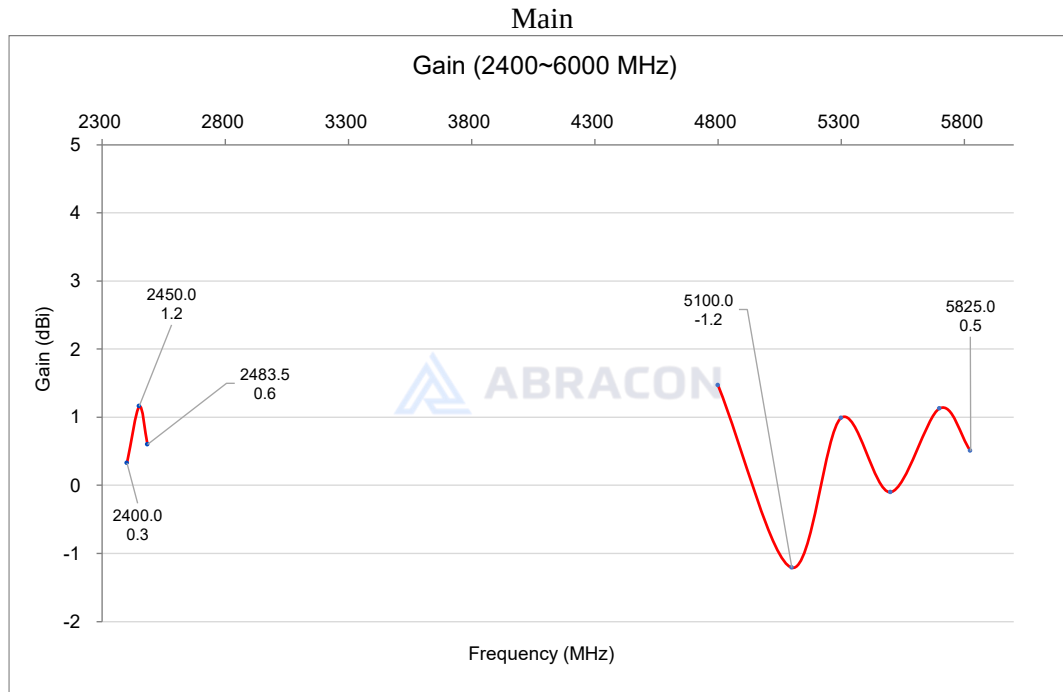


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Radiation Characteristics – Peak Gain



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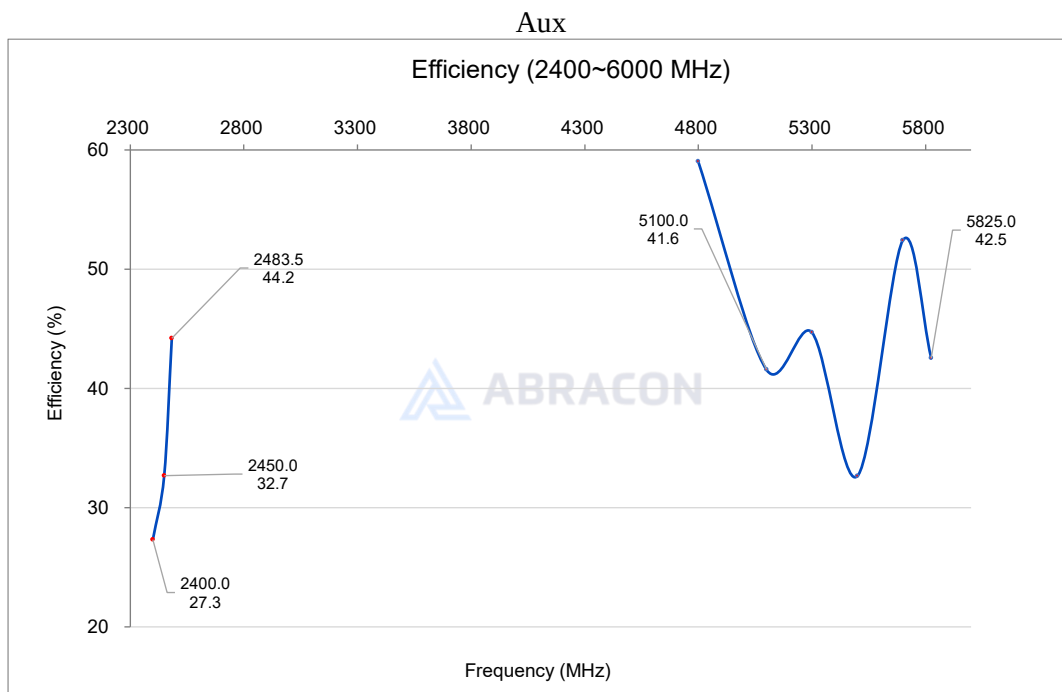
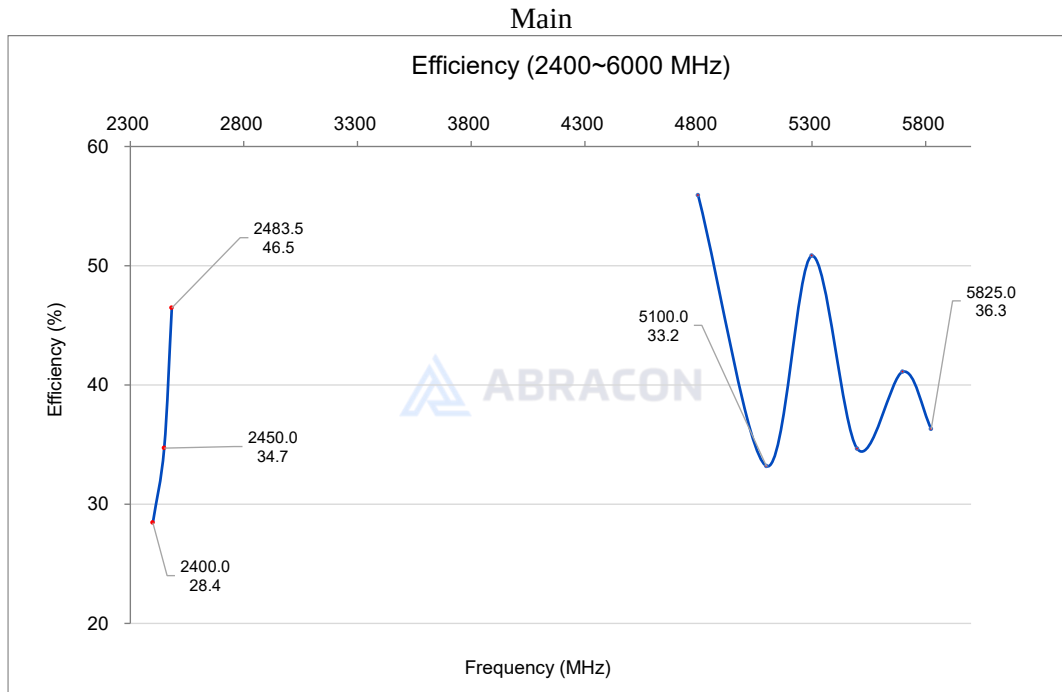


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Radiation Characteristics –Total Efficiency (%)



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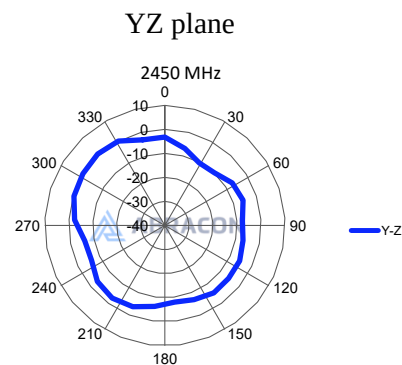
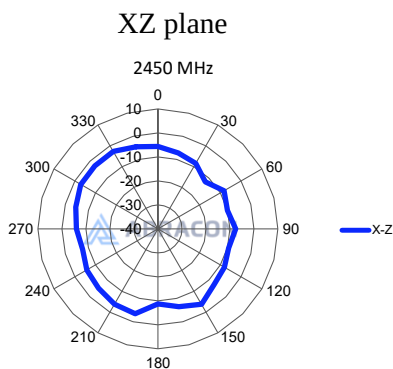
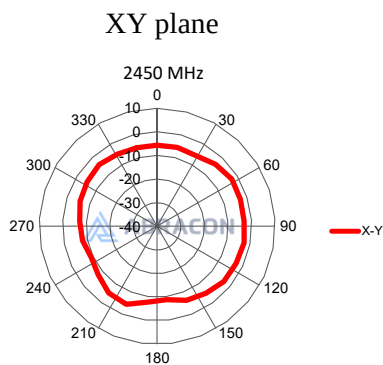
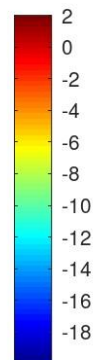
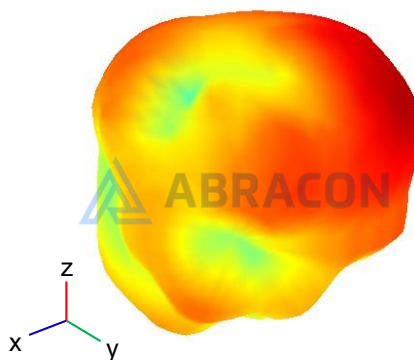


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Radiation Characteristics – 3D & 2D Pattern

2450MHz (Main)



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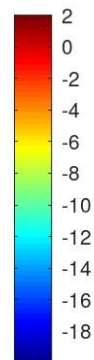
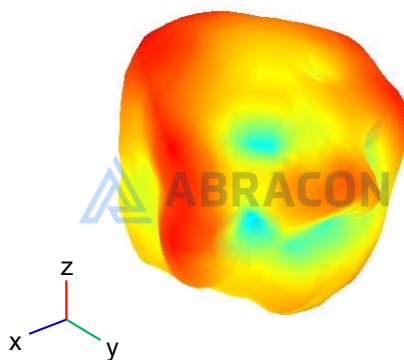
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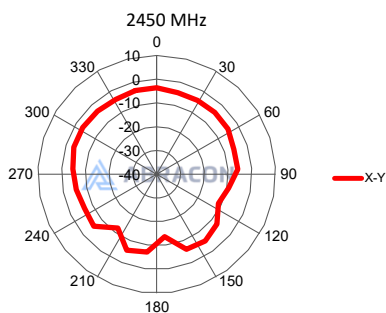
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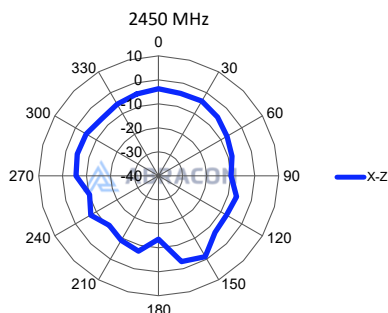
2450MHz (Aux)



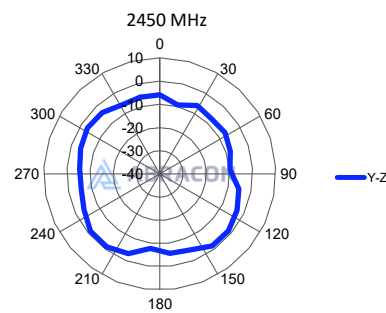
XY plane



XZ plane



YZ plane



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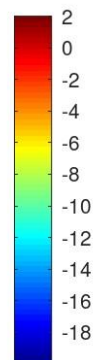
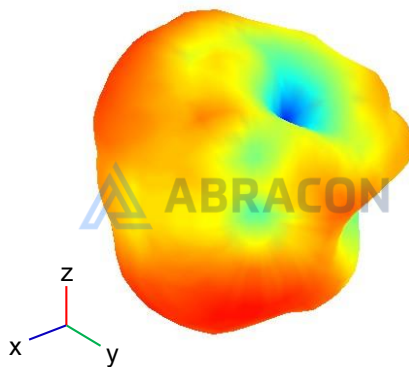
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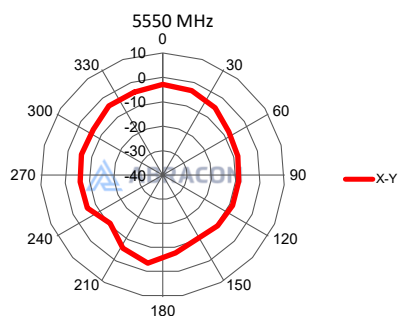
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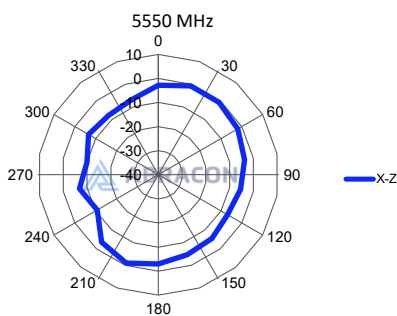
5550MHz (Main)



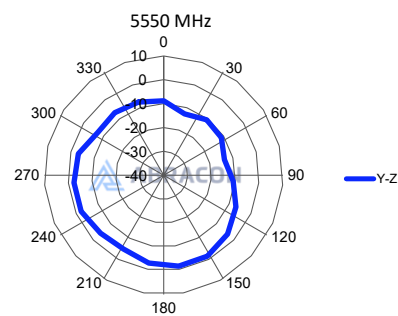
XY plane



XZ plane



YZ plane



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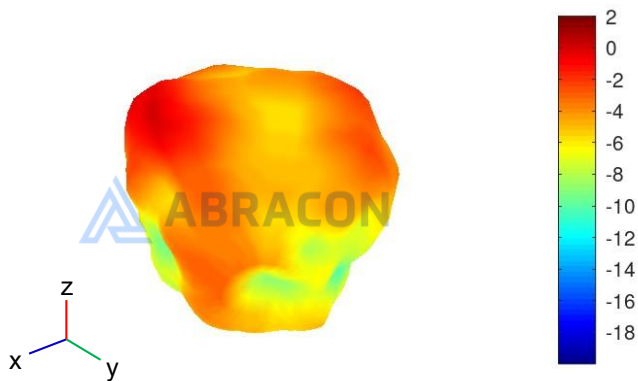
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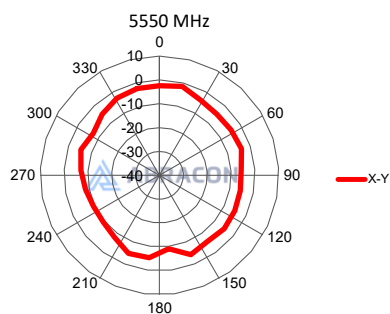
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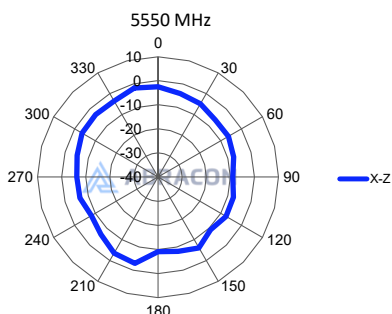
5550MHz (Aux)



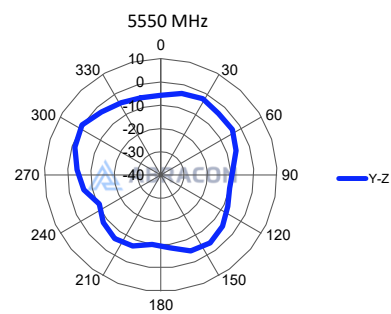
XY plane



XZ plane



YZ plane



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Packaging

Number of Antenna/ Carton: 100 pcs

Dimension of the Carton: 70 x 32 x 15.5 cm

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