

Wi-Fi 6/6E/7 External Waterproof Whip Antenna



AANE-WH-0148

Request Samples



Check Inventory



Ø 13 x 157 mm

RoHS/RoHS II Compliant

MSL Level = N/A

Features

- High Efficiency Up to 86%
- High Peak Gain 3dBi ~ 5dBi
- Swivel Connector Design for Straight, Right-Angle and 45-Degree Positioning
- Weatherproof and IP65 Rated Optional
- RP-SMA Plug or SMA Plug Connector

Applications

- Wi-Fi/WLAN Coverage
 - Wi-Fi 7 (802.11be)
 - Wi-Fi 6/6E (802.11ax)
 - Wi-Fi 4/5 (802.11b/g/n/ac)
- Bluetooth®/ ZigBee® / Thread/ Matter
- Router and Networking
- Smart Irrigation and Pool Control

Product Image



5101 Hidden Creek Ln Spicewood TX 78669
Phone: 512-371-6159 | Fax: 512-351-8858
For terms and conditions of sales, please visit:
www.abracon.com

REVISED: 08-29-24

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Electrical Specification

Parameter	Specification			Unit
Operating Frequency	2400-2500	5150-5850	5925-7125	MHz
VSWR (Typ.)	< 2.0			
Return Loss (Typ.)	> 10			dB
Peak Gain	3.7	4.1	5.3	dBi
Efficiency (Max.)	75	60	86	%
Efficiency (Avg.)	73	57	77	%
Impedance	50			Ω
Polarization	Linear			
Radiation Pattern (Azimuth)	Omni-directional			
Input 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	Ø 13 x 157 mm
Material	TPEE + ABS ⁽¹⁾
Recommended Torque for Mounting	0.565 N·m
Color	Black
Antenna Type	Whip (Dipole)
RF Connector ⁽²⁾	RP-SMA(M)

(1): UV Resistant optional

(2): RF Connector optional

Environmental Specification

Parameter	Specification
Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +85°C
IP Rating ⁽¹⁾	IP65
RoHS Complaint	Yes

(1): IP Rating optional



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Ordering Information

Part Number	Description	Connector Option
AANE-WH-0148-RIP	Wi-Fi 6/6E/7 External Waterproof Whip Antenna with RP-SMA(M) connector & IP rating	RP-SMA(M)
AANE-WH-0148-SIP	Wi-Fi 6/6E/7 External Waterproof Whip Antenna with SMA(M) connector & IP rating	SMA(M)
AANE-WH-0148-R	Wi-Fi 6/6E/7 External Waterproof Whip Antenna with RP-SMA(M) connector	RP-SMA(M)
AANE-WH-0148-S	Wi-Fi 6/6E/7 External Waterproof Whip Antenna with SMA(M) connector	SMA(M)

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



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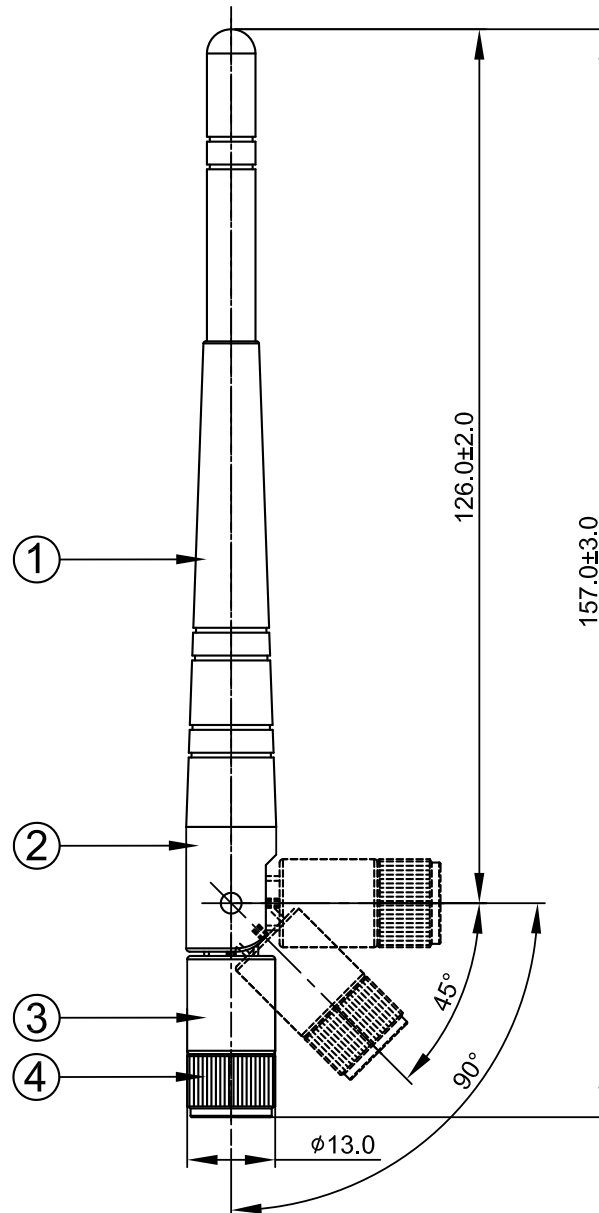


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Product Dimensions



Unit : mm

No.	Name	Material	Finish
1	Body 1	TPEE	Black
2	Body 2	ABS	Black
3	Body 3	ABS	Black
4	RP-SMA (M)	Copper	Black



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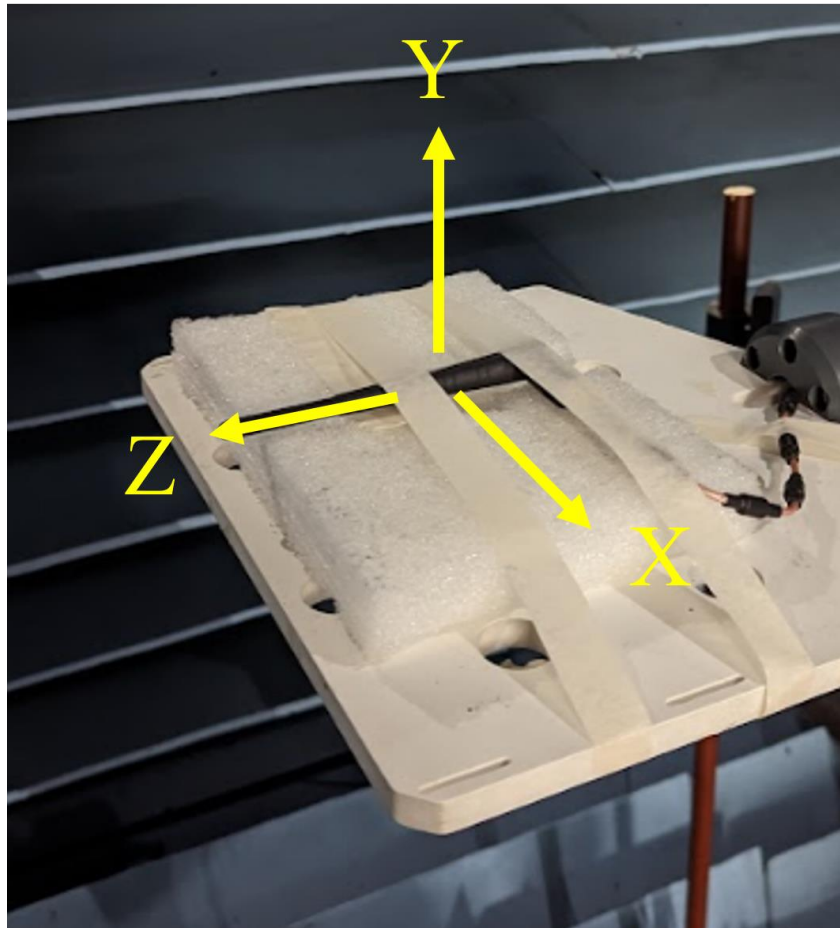


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Measurement Setup



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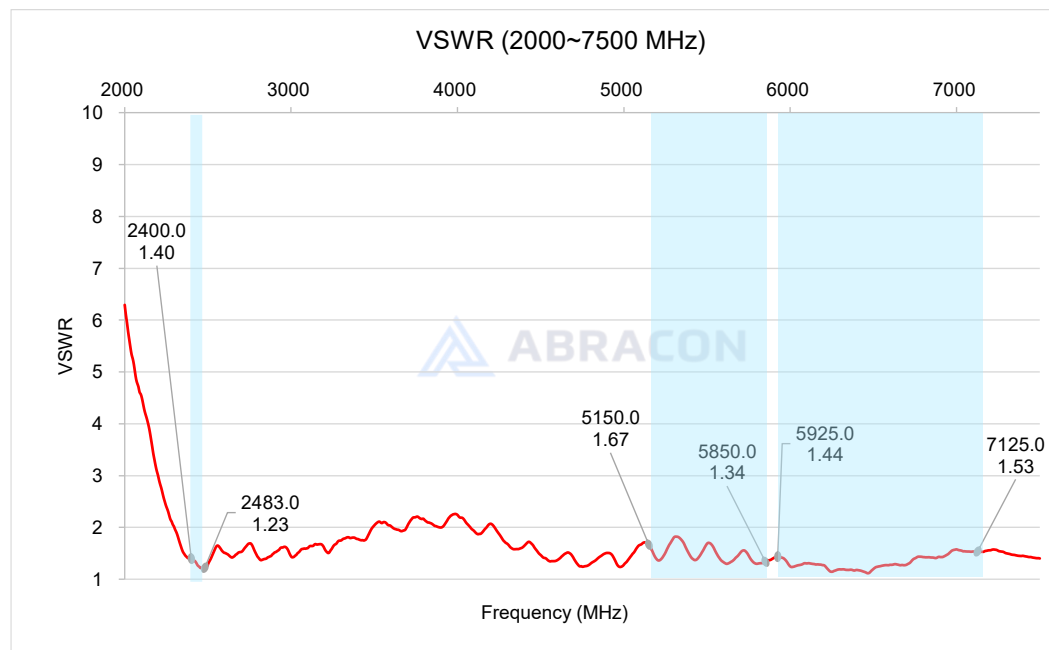
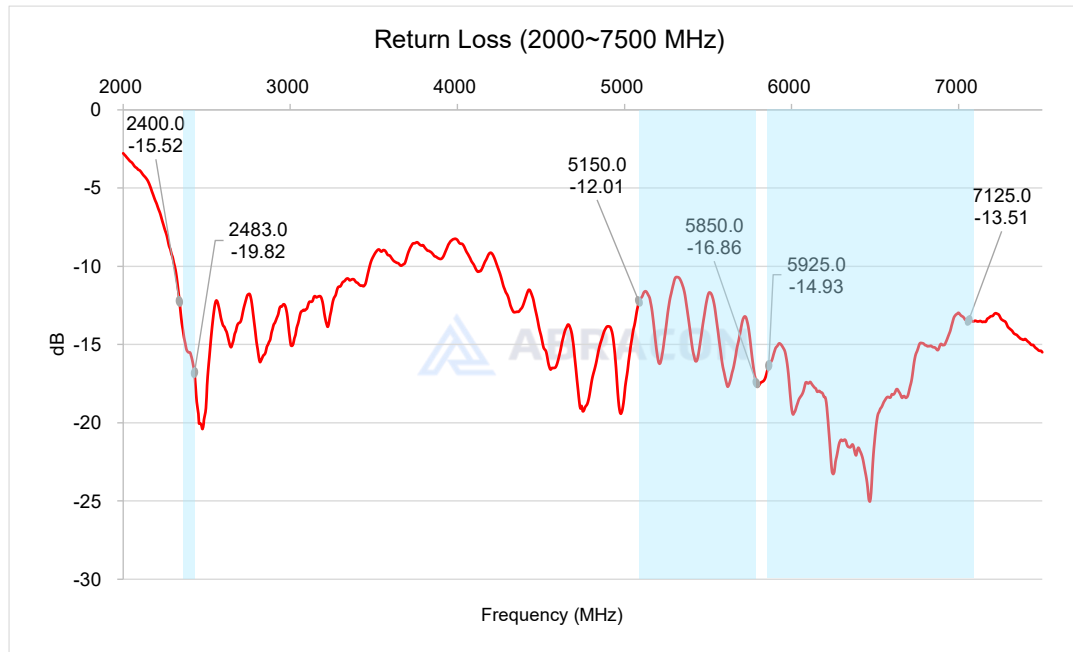


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Reflection Characteristics – Return Loss & VSWR



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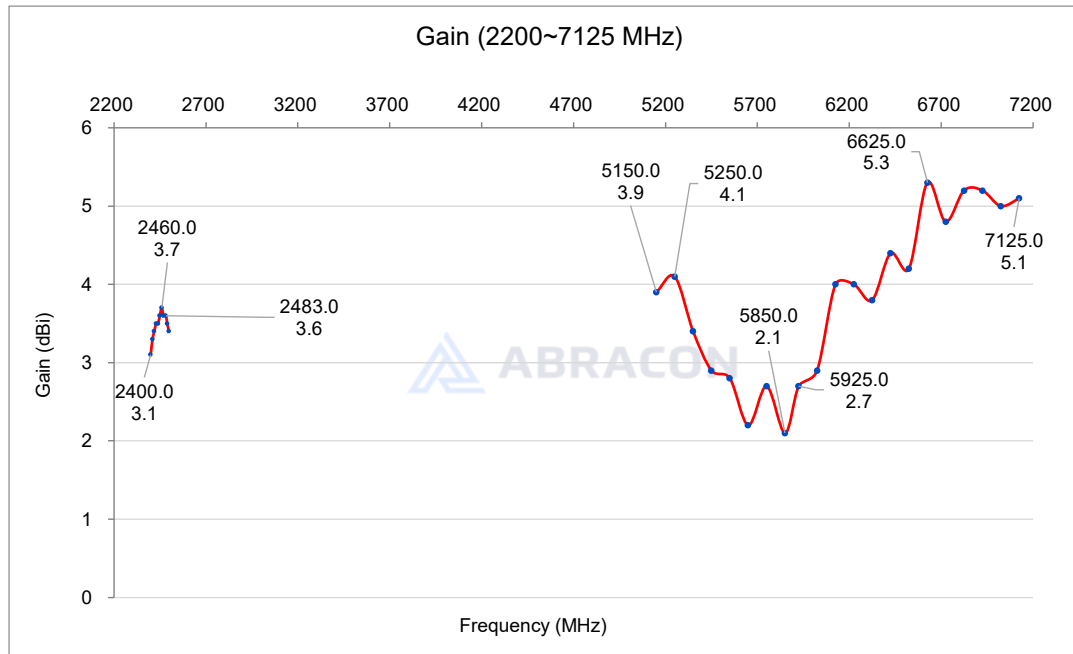


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Radiation Characteristics – Peak Gain



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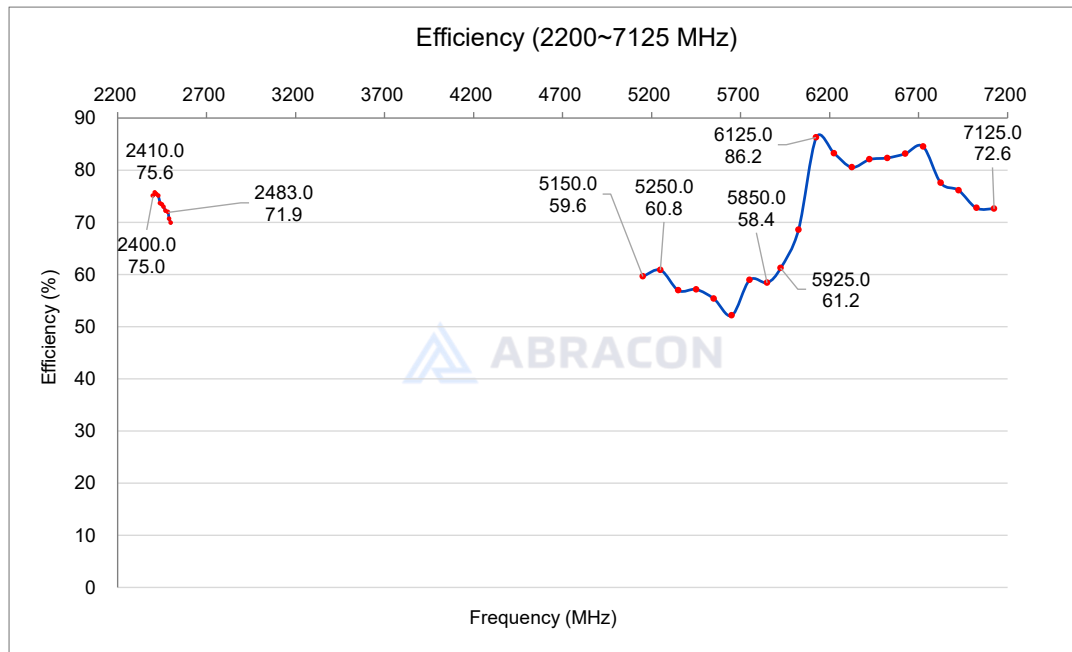


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Radiation Characteristics – Total Efficiency (%)



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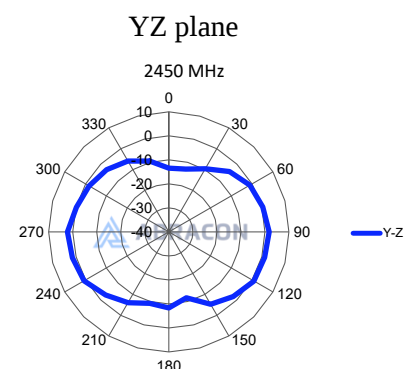
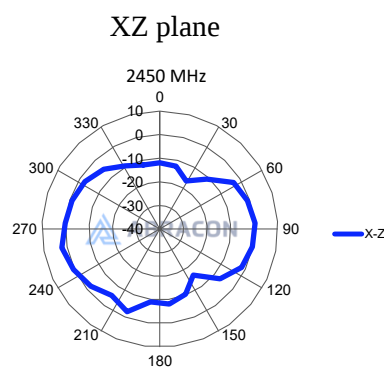
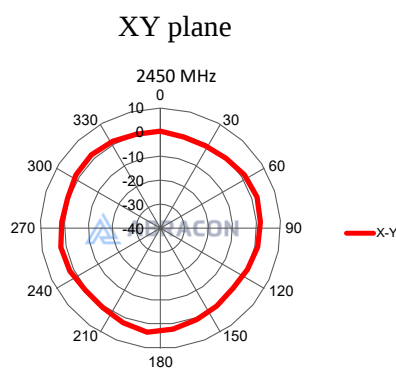
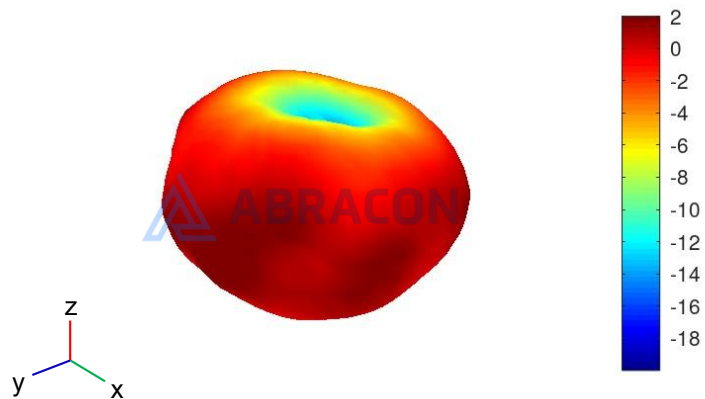
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Radiation Characteristics – 3D & 2D Pattern

2450MHz



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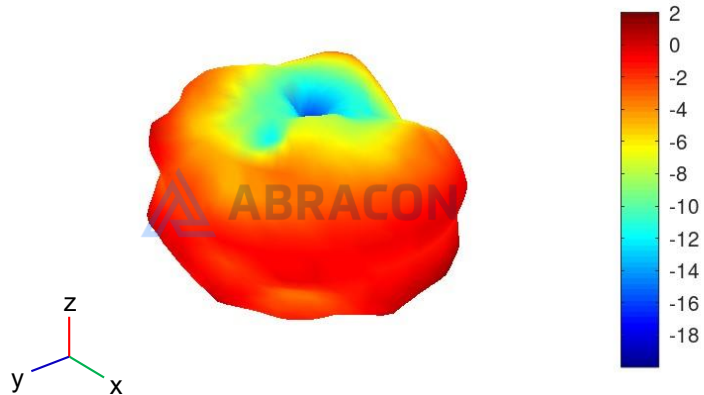


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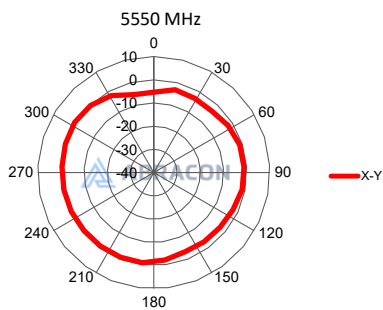
RoHS/RoHS II Compliant

MSL Level = N/A

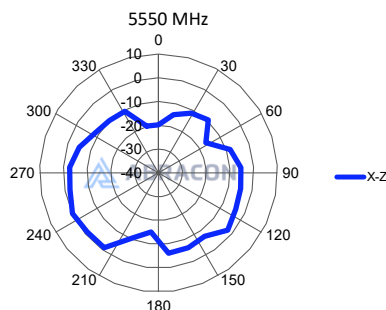
5550MHz



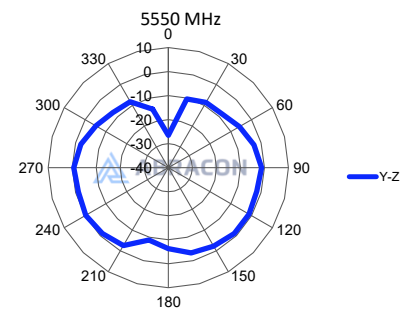
XY plane



XZ plane



YZ plane



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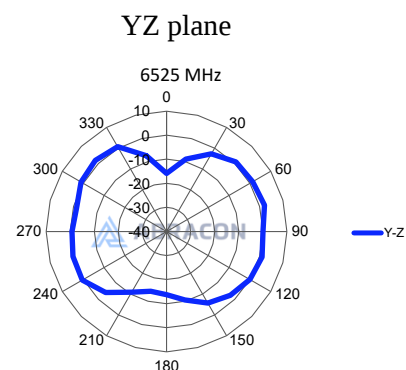
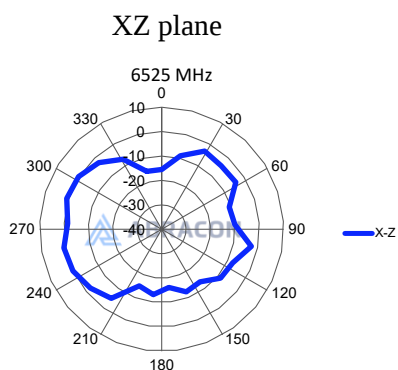
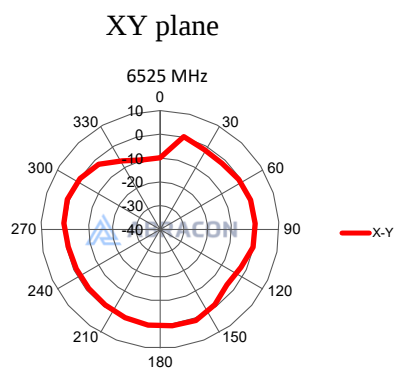
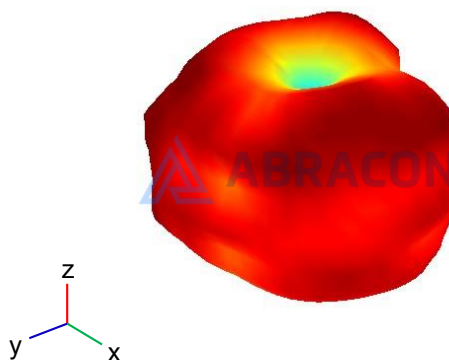


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6525MHz



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