

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



AANE-WH-0151

Request Samples



Check Inventory



196.3 x 21.5 mm

RoHS/RoHS II Compliant

MSL Level = N/A

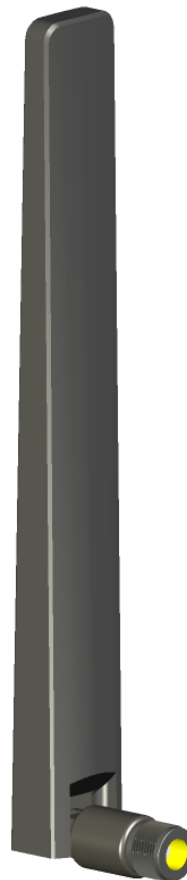
Features

- High Efficiency Up to 63%
- High Peak Gain 2.6 / 4.7 / 4.3 dBi @ 2.4 / 5.5 / 6 GHz
- 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



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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	2.6	4.7	4.3	dBi
Efficiency (Max.)	79	64	55	%
Efficiency (Avg.)	74	60	54	%
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	196.3 x 21.5 mm
Material	ABS / PC / PBT ⁽¹⁾
Recommended Torque for Mounting	0.565 N·m
Color	Black
Antenna Type	Whip (Blade) (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-0151-RIP	Wi-Fi 6/6E/7 External Whip Antenna with RP-SMA(M) connector & IP rating	RP-SMA(M)
AANE-WH-0151-SIP	Wi-Fi 6/6E/7 External Whip Antenna with SMA(M) connector & IP rating	SMA(M)
AANE-WH-0151-R	Wi-Fi 6/6E/7 External Whip Antenna with RP-SMA(M) connector	RP-SMA(M)
AANE-WH-0151-S	Wi-Fi 6/6E/7 External 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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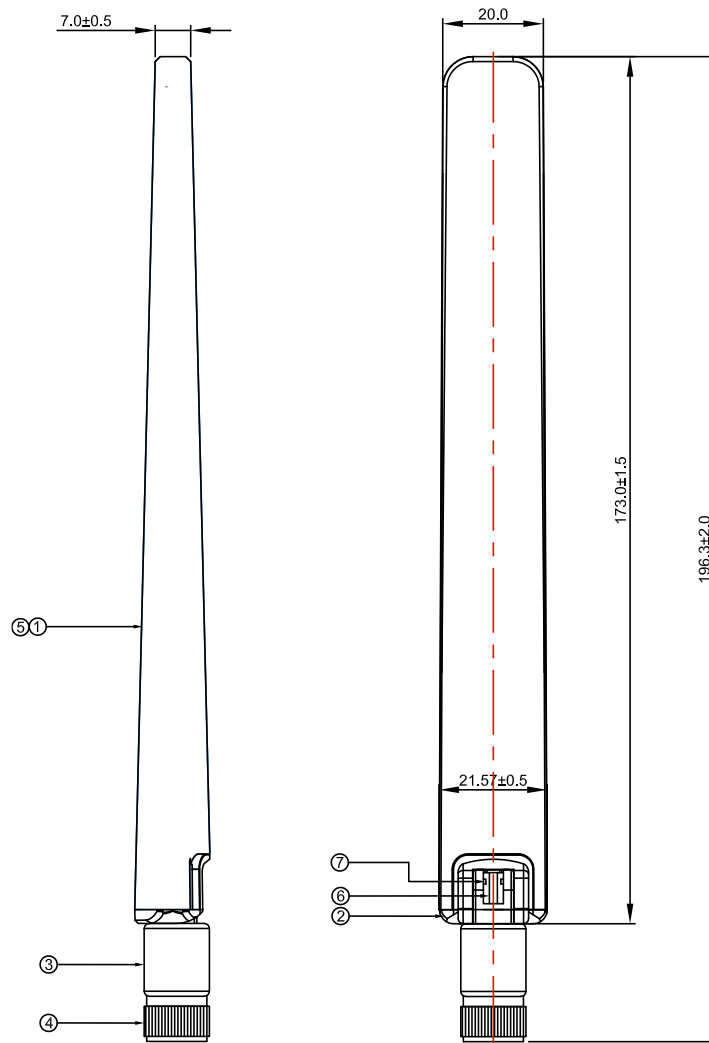


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Product Dimensions



Unit : mm

No.	Name	Material	Finish	Q'ty
1	Body 1	ABS	Black	1
2	Body 2	ABS	Black	1
3	Body 3	PC / PBT	Black	1
4	Connector	RP-SMA(M)	NI Plated; Black	1
5	PCB	FR4	Black	1
6	Cable	RG-178	Brown	1
7	Rivet	POM	Black	2

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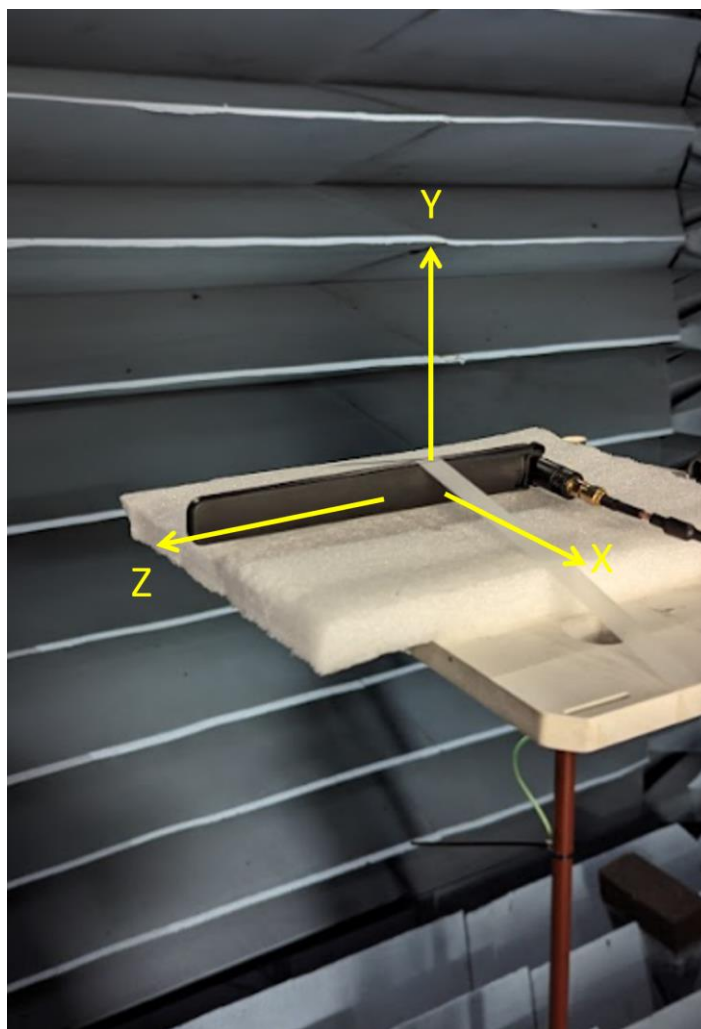


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Measurement Setup



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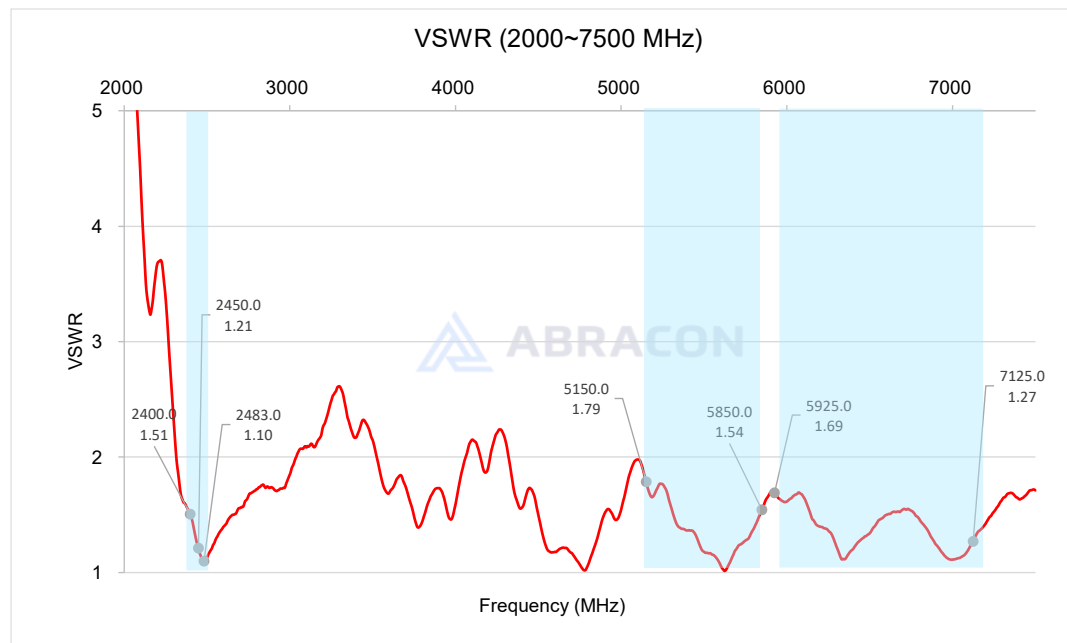
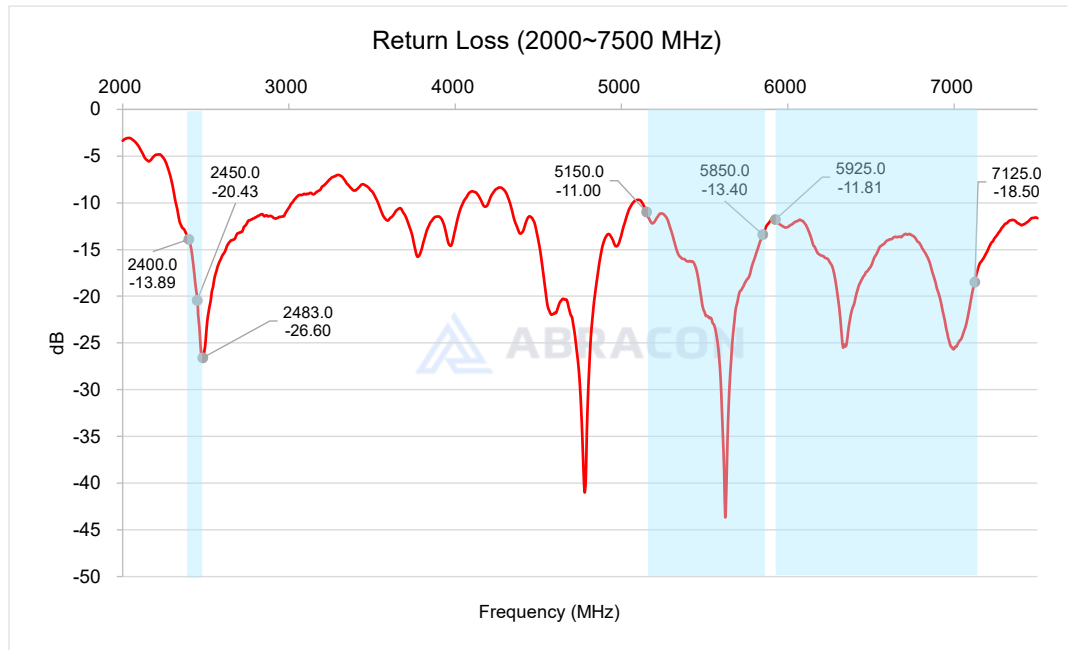


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Reflection Characteristics – Return Loss & VSWR



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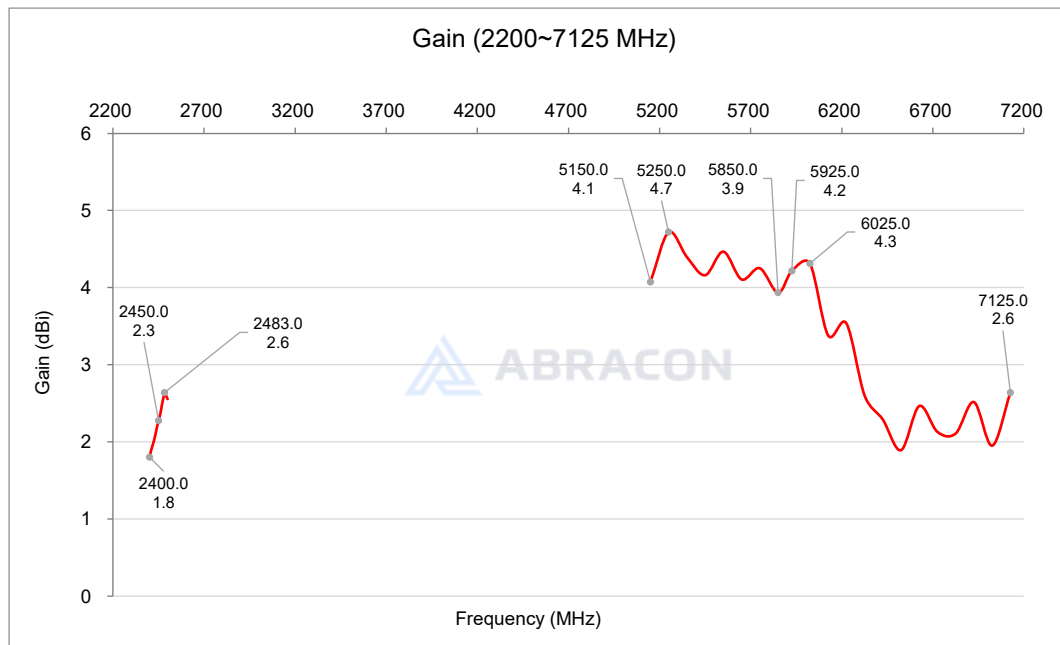


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Radiation Characteristics – Peak Gain



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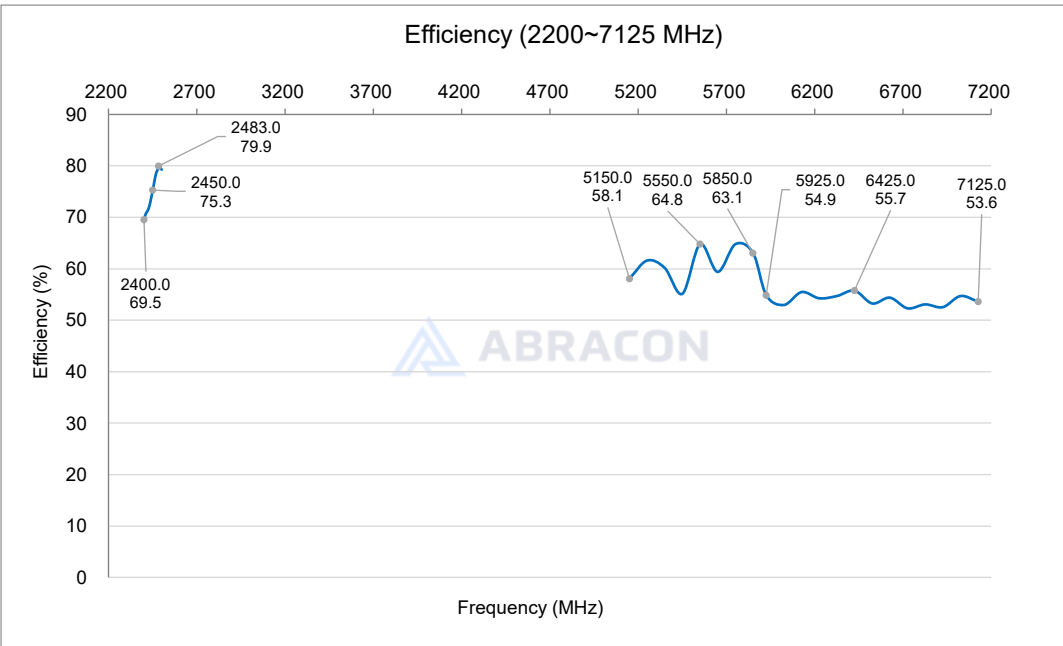


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Radiation Characteristics – Total Efficiency (%)



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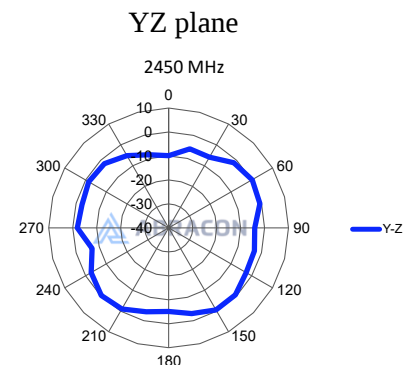
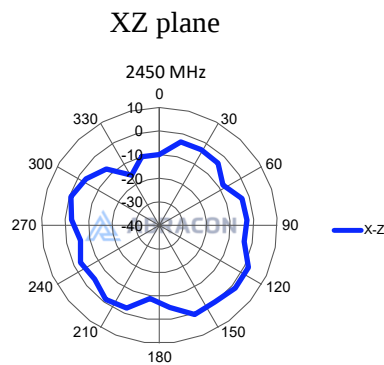
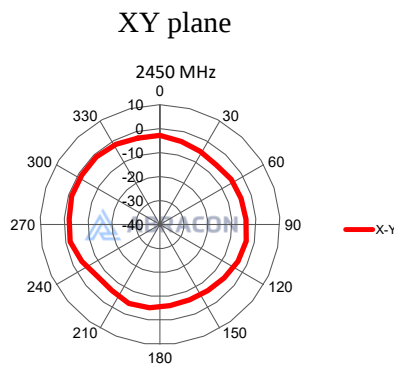
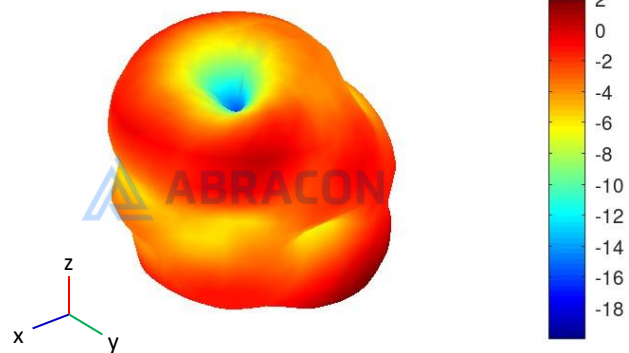
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Radiation Characteristics –3D & 2D Pattern

2450MHz



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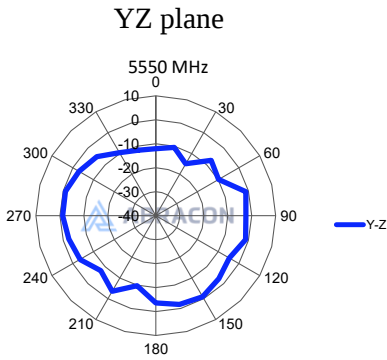
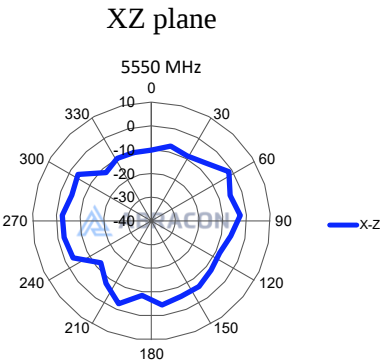
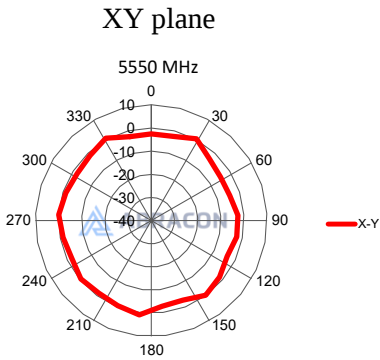
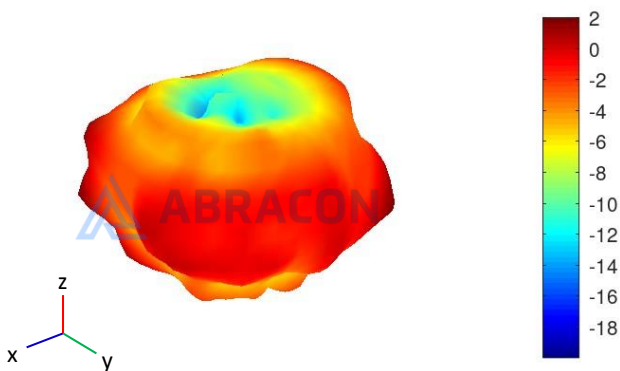


196.3 x 21.5 mm

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5550MHz



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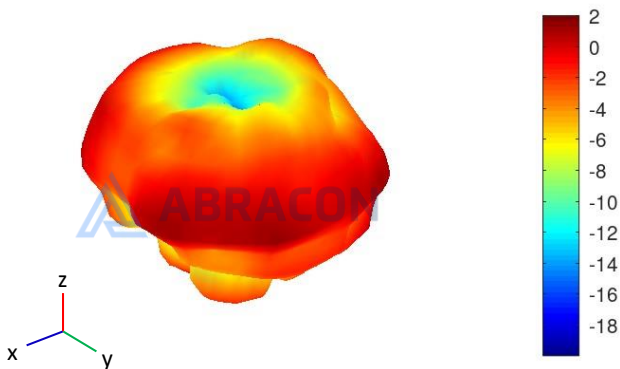


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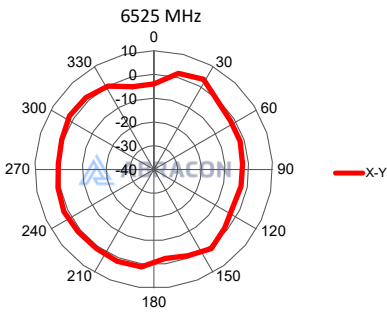


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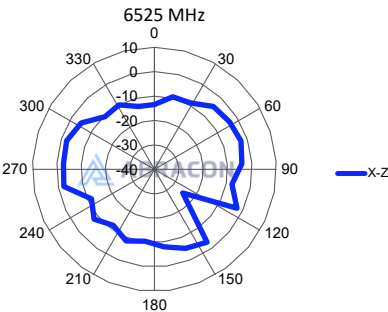
6525MHz



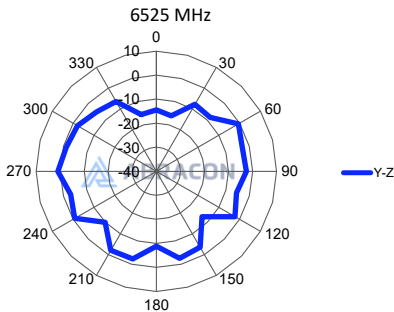
XY plane



XZ plane



YZ plane



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