

TRI BAND WI-FI6E FPC ANTENNA



AANI-FB-0047

Request Samples



Check Inventory



23.5 x 17.8 x 0.8 mm

RoHS Compliant

MSL Level = N/A

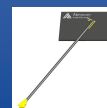
Features

- Compact design with high efficiency up to 69%
- Easy installation on both flat and curved surfaces
- Can be installed on plastic and human body
- Strong adhesive in high-temperature and humid environment
- Fully customizable cable length and connector options
- RoHS compliant

Applications

- WiFi/WLAN coverage
 - WiFi 7 (802.11be)
 - WiFi 6/6E (802.11ax)
 - WiFi 4/5 (802.11b/g/n/ac)
- Bluetooth®/ ZigBee® / Thread/ Matter
- Router and Networking
- Home Automation and Remote Sensing

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Electrical Specification

Parameter	Specification			Unit
Operating Frequency	2400 – 2483.5	5150 - 5850	5925 - 7125	MHz
VSWR	2.0			
Peak gain	1.9	3.5	3.8	dBi
Efficiency	55	69	59	%
Impedance		50		Ω
Polarization	Linear			
Radiation Pattern	Omni-directional			

Mechanical Specification

Parameter	Specification
Antenna Dimensions	23.5 x 17.8 x 0.8 mm
Antenna Type	Flexible Printed Circuit
Mounting Type	Adhesive
RF Connector	MHF1 LK
RF Cable Type	Ø1.13 mm
Cable Length	150 ± 3 mm

Environmental Specification

Parameter	Specification
Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +85°C
RoHS Complaint	Yes
PB Free	Yes

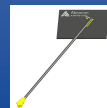


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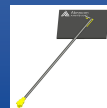
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Ordering Information

Part Number	Description	Connector Option
AANI-FB-0047-0150I	TRI BAND WI-FI6E FPC ANTENNA with MHF1 LK connector and 150mm cable	MHF1 LK

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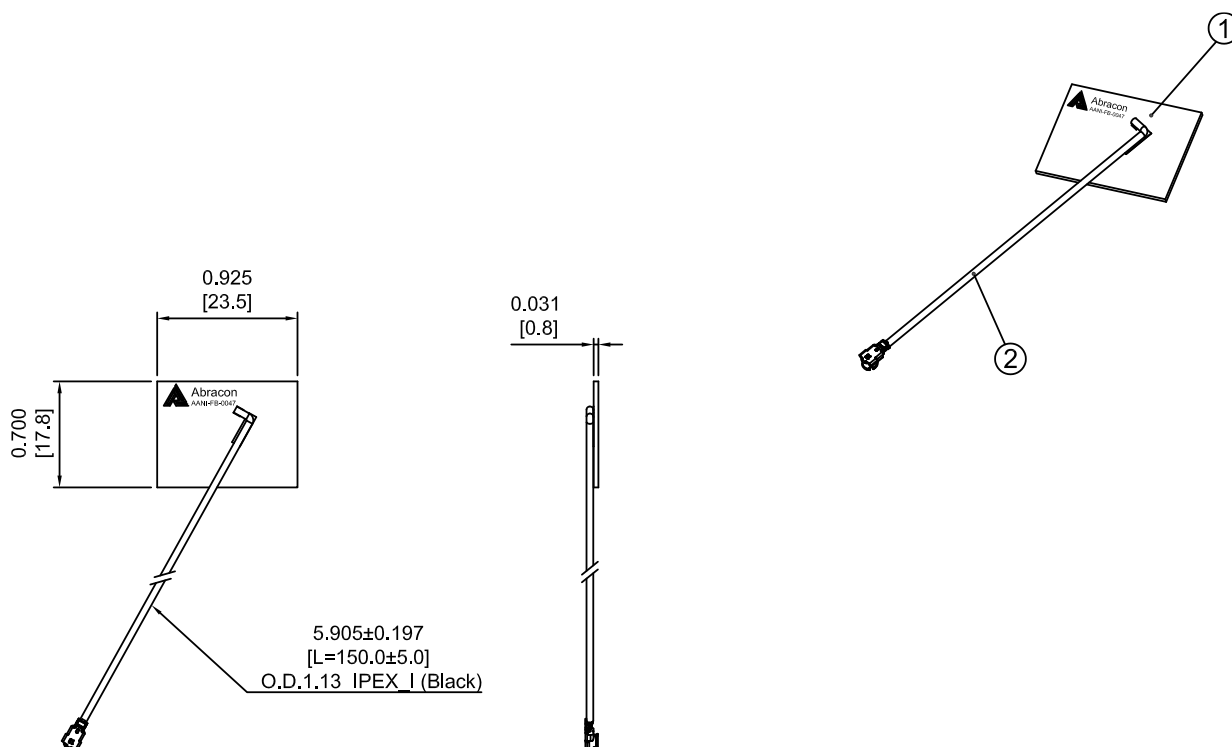


23.5 x 17.8 x 0.8 mm

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Product Dimensions



Unit : inches[mm]

No.	Description	Qty
1	PCB 23.5 x 17.8 x 0.8 mm	1
2	O.D. 1.13 mm IPEX-1 ; Length = 150 mm (Black)	1

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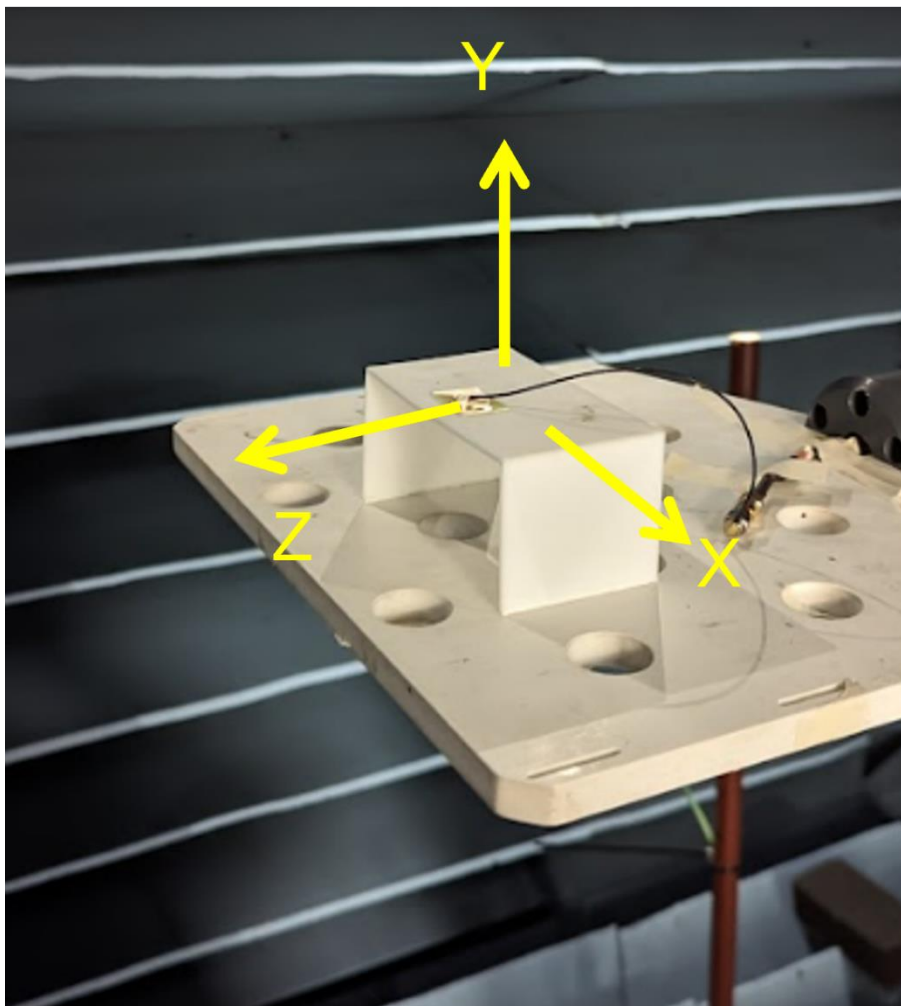


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Measurement Setup photo



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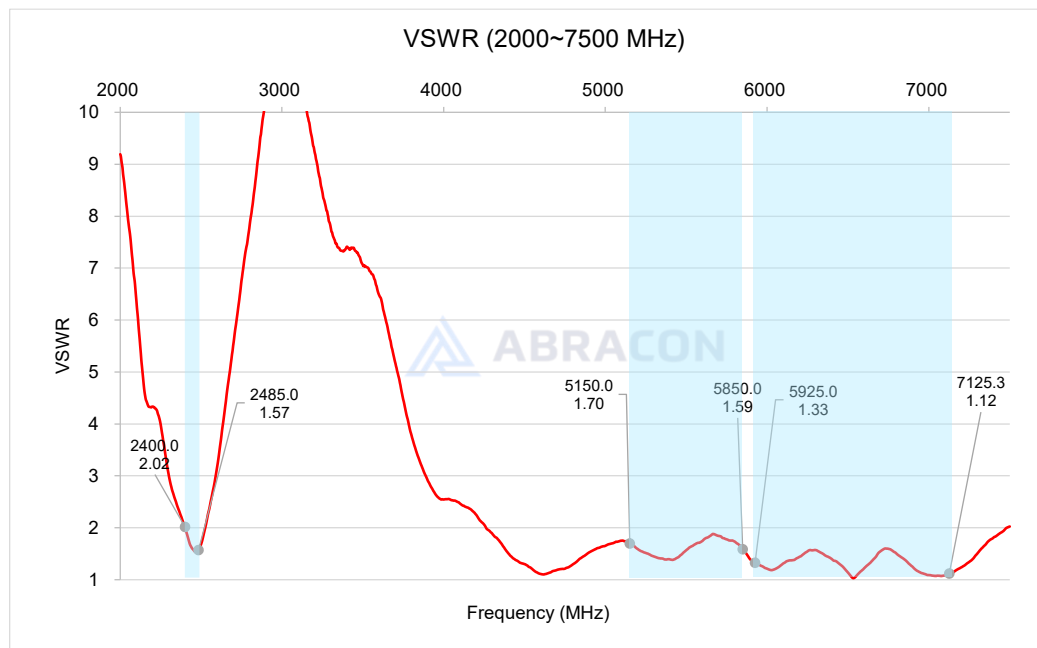
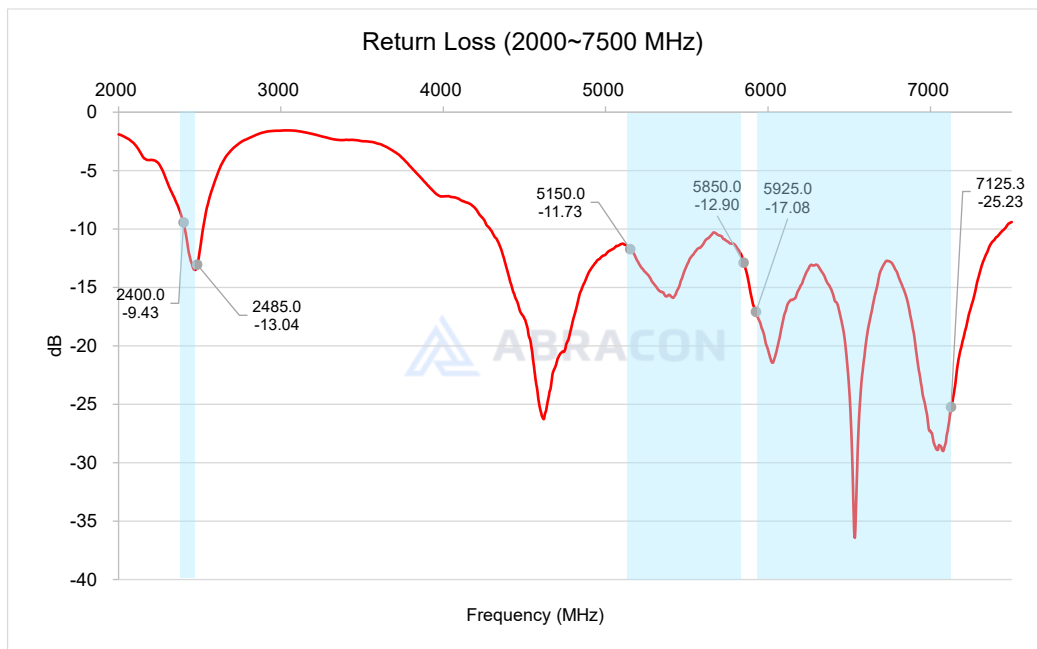


23.5 x 17.8 x 0.8 mm

RoHS Compliant

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Reflection Characteristics – Return Loss & VSWR



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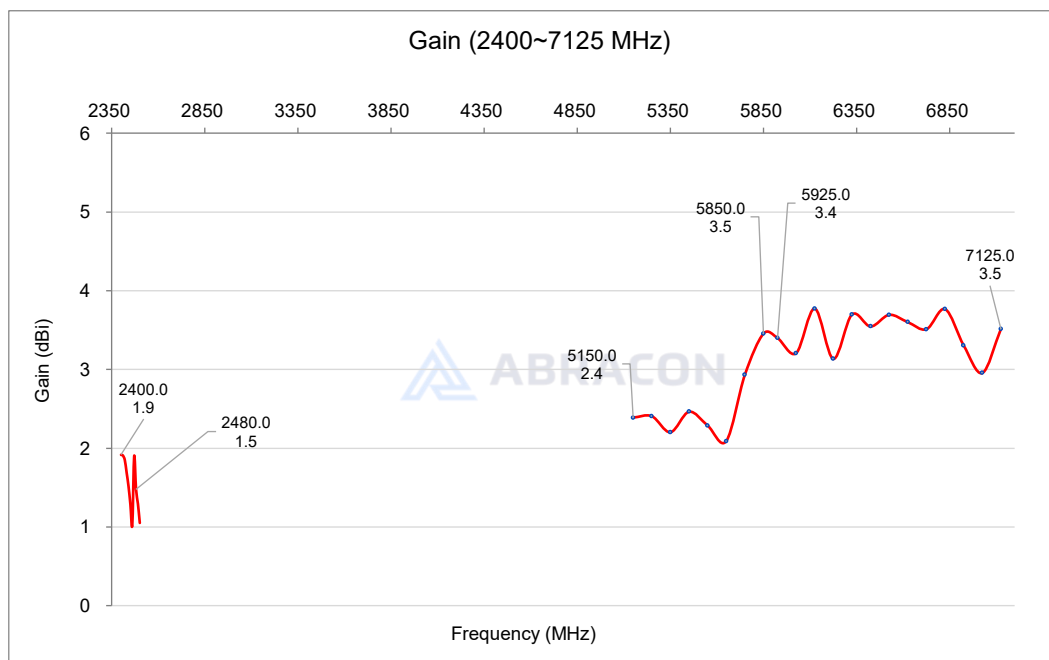


23.5 x 17.8 x 0.8 mm

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Radiation Characteristics – Peak Gain



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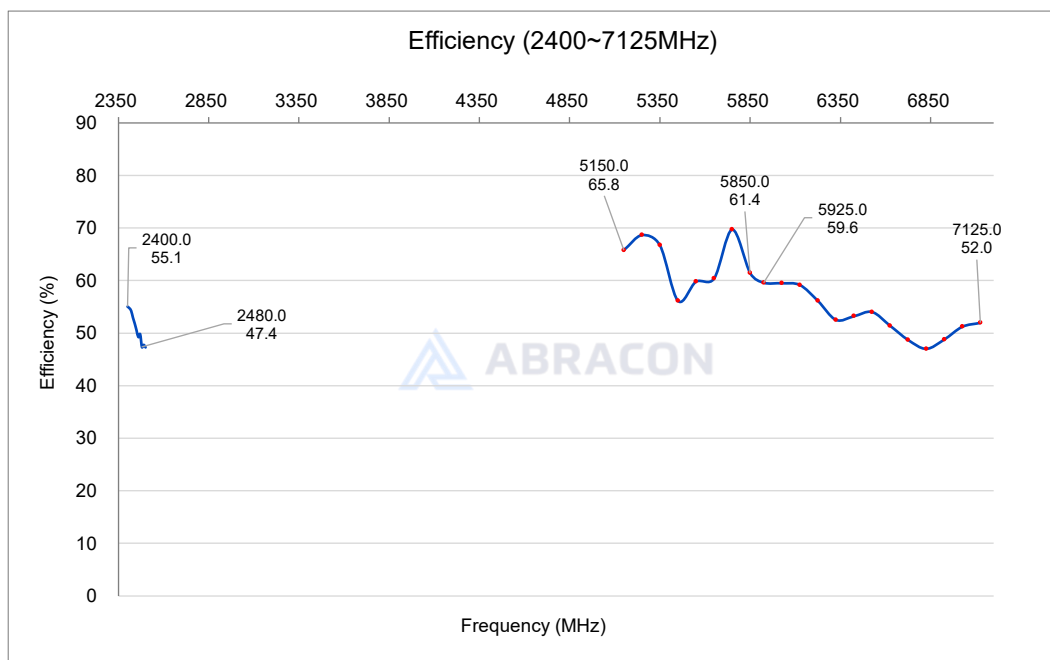


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Radiation Characteristics – Total Efficiency (%)



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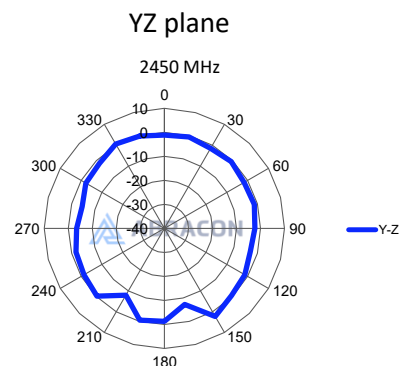
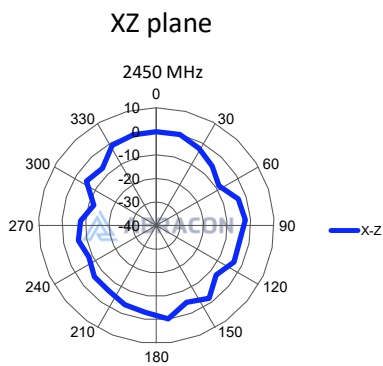
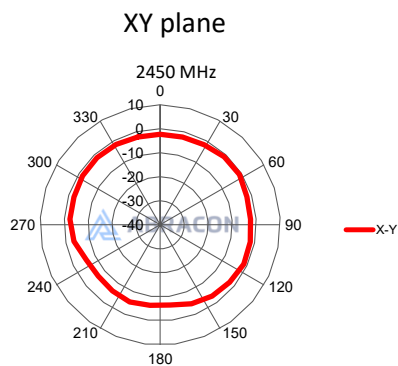
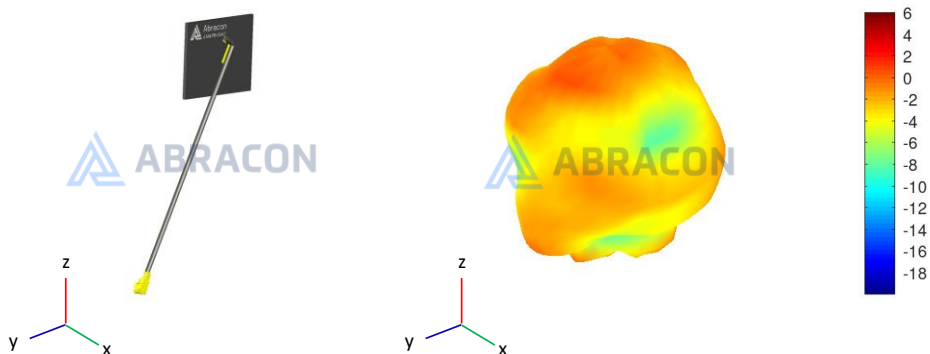
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Radiation Characteristics – 3D & 2D pattern

2450MHz



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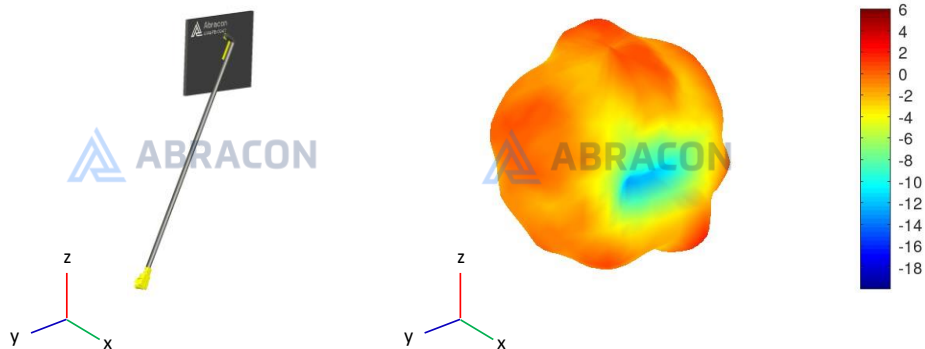


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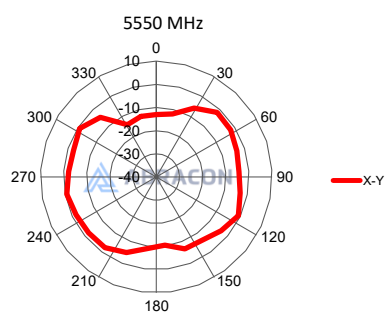
RoHS Compliant

MSL Level = N/A

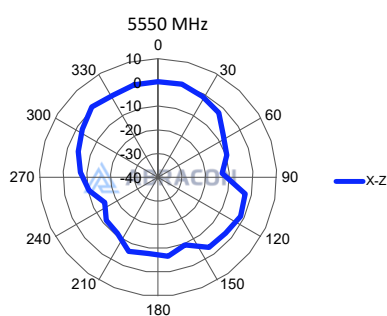
5550MHz



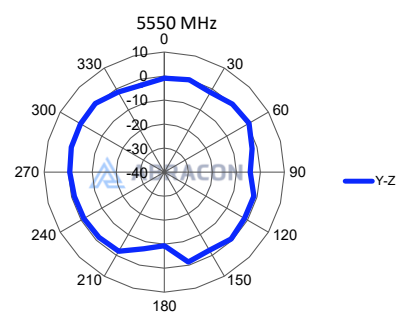
XY plane



XZ plane



YZ plane



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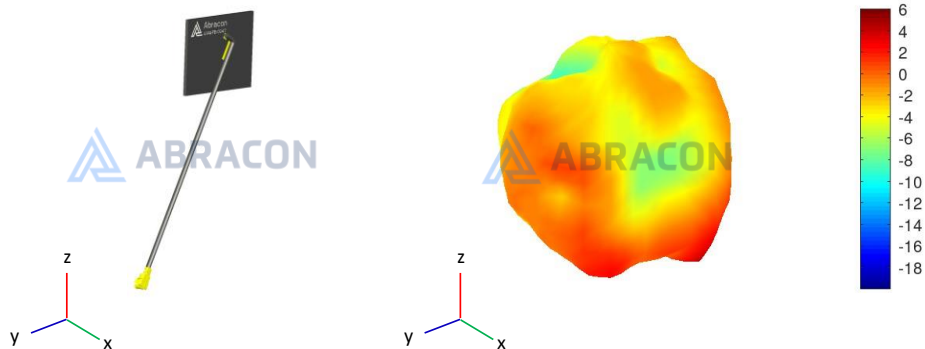


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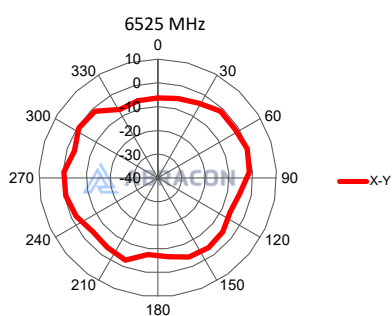
RoHS Compliant

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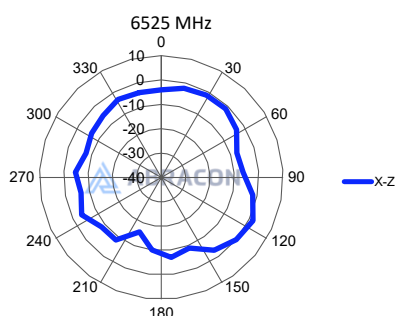
6525MHz



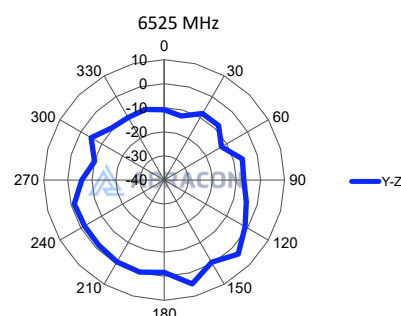
XY plane



XZ plane



YZ plane



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Packaging

Number of Antenna/ bags: 100 pcs

Total Pcs / package: 2000 pcs

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