

# TRI BAND WI-FI6E FLEXIBLE PRINTED MIMO ANTENNA



**AFB7006A2**

Request Samples



Check Inventory



**70 x 6 x 0.2 mm**  
**RoHS Compliant**  
MSL Level = N/A

## Features

- Compact design with high efficiency up to 70%
- 2 x MIMO Wi-Fi 2.4/5/6 GHz
- 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

## 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

## Product Image



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## Electrical Specification

Parameter	Specification			Unit
Operating Frequency	2400 – 2485	5150 - 5850	5925 - 7125	MHz
VSWR (Typ.)	≤ 2.5			
Peak gain	2.2	3.6	3.8	dBi
Efficiency (Avg.)	51.9	60.5	53.7	%
Impedance	50			Ω
Polarization	Linear			
Radiation Pattern	Omni-directional			

## Mechanical Specification

Parameter	Specification
Antenna Dimensions	70 x 6 x 0.2 mm
Antenna Type	Flexible Printed Circuit
Mounting Type	Adhesive
RF Connector	IPEX-1 (F)
RF Cable Type	Ø1.13 mm
Cable Length	200 ± 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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## Ordering Information

Part Number	Description	Connector Option
AFB7006A2-0200I	TRI BAND WI-FI6E FLEXIBLE PRINTED MIMO ANTENNA with IPEX-1 connector with 200mm cable length	u.FL/IPEX-1/MHF1
AFB7006A2-0200W	TRI BAND WI-FI6E FLEXIBLE PRINTED MIMO ANTENNA with IPEX-4 connector with 200mm cable length	w.FL/IPEX-4/MHF4

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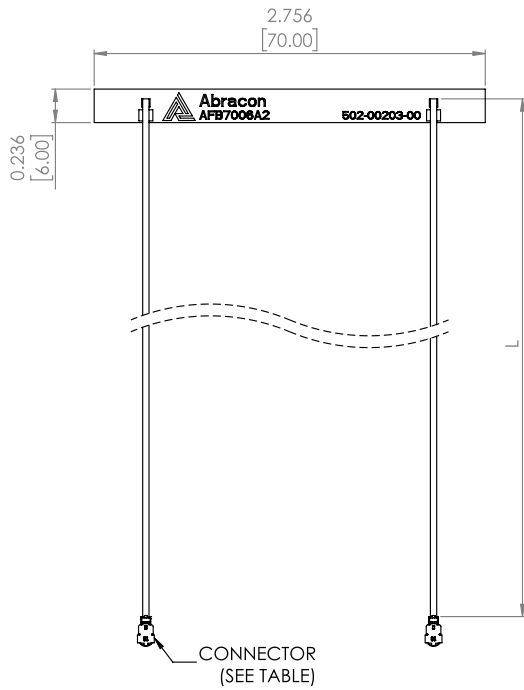


Check Inventory

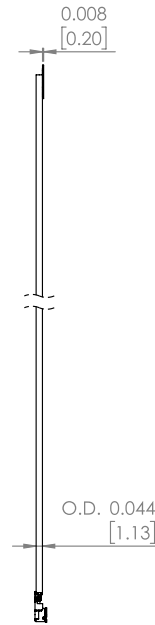


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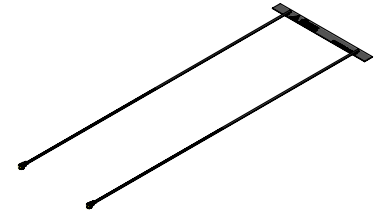
## Product Dimensions



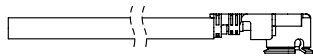
**FRONT VIEW**



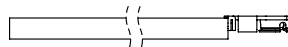
**SIDE VIEW**



### CONNECTOR



u.FL/IPEX-1/MHF1



w.FL/IPEX-4/MHF4

PART NUMBER	CABLE LENGTH (L)	CONNECTOR
AFB7006A2-0200I	7.874[200]	u.FL/IPEX-1/MHF1
AFB7006A2-0200W	7.874[200]	w.FL/IPEX-4/MHF4

Unit : Inches[mm]

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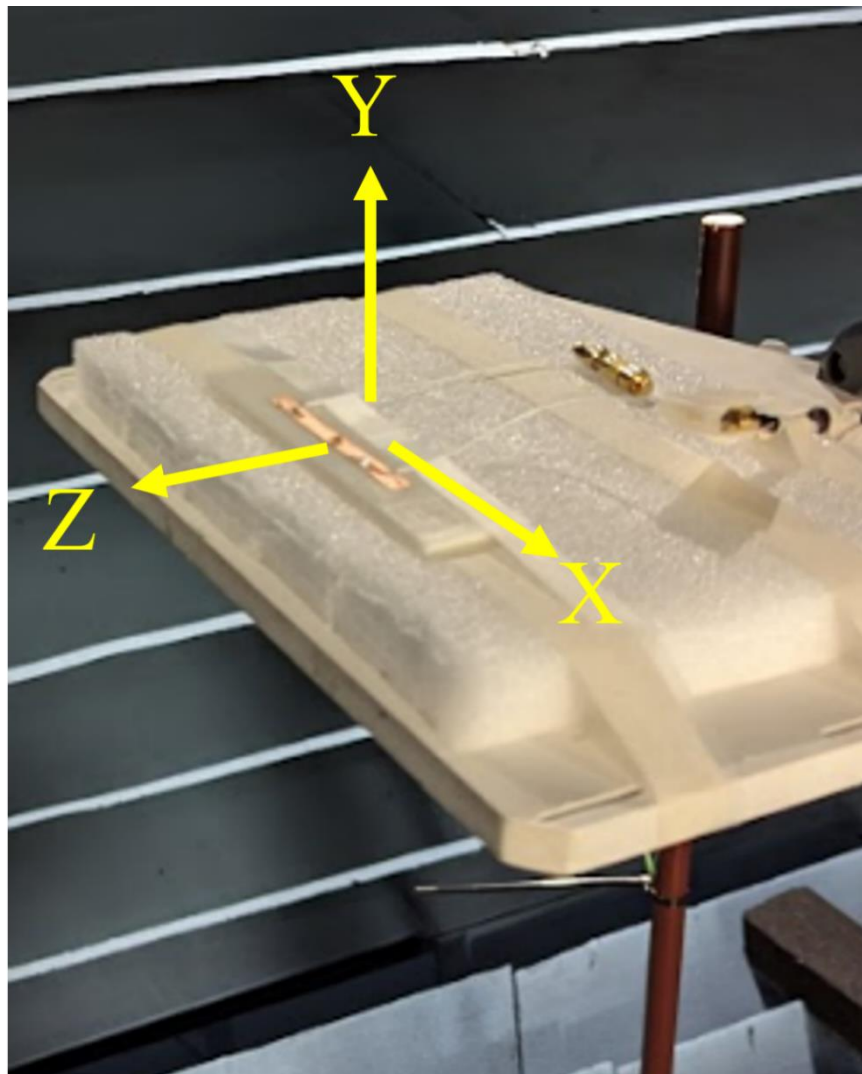


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## Measurement Setup photo



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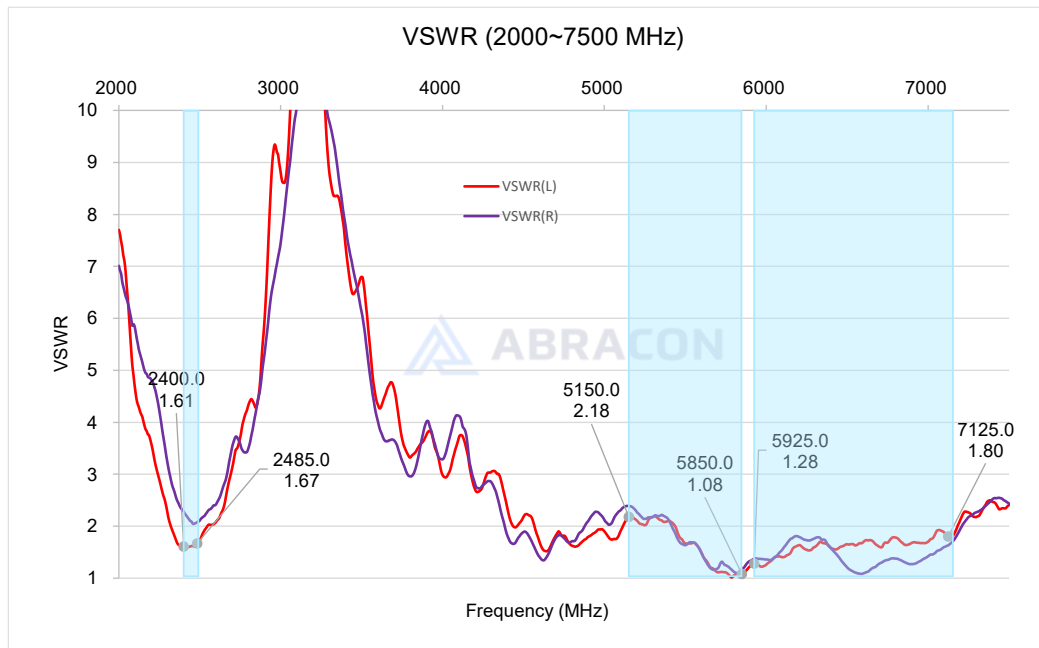
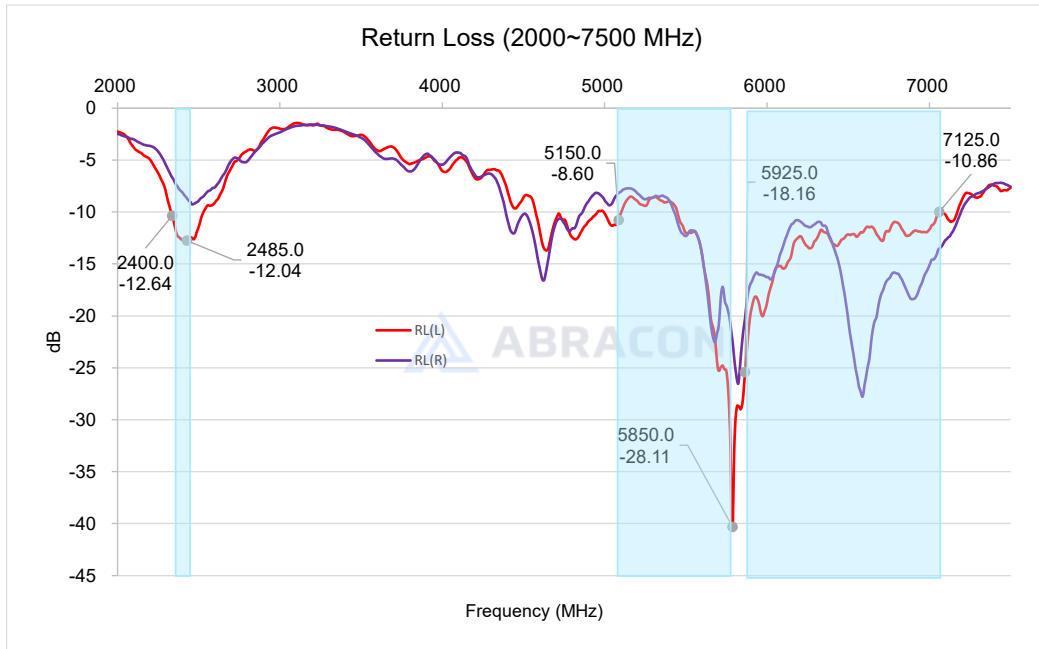


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## Reflection Characteristics – Return Loss & VSWR



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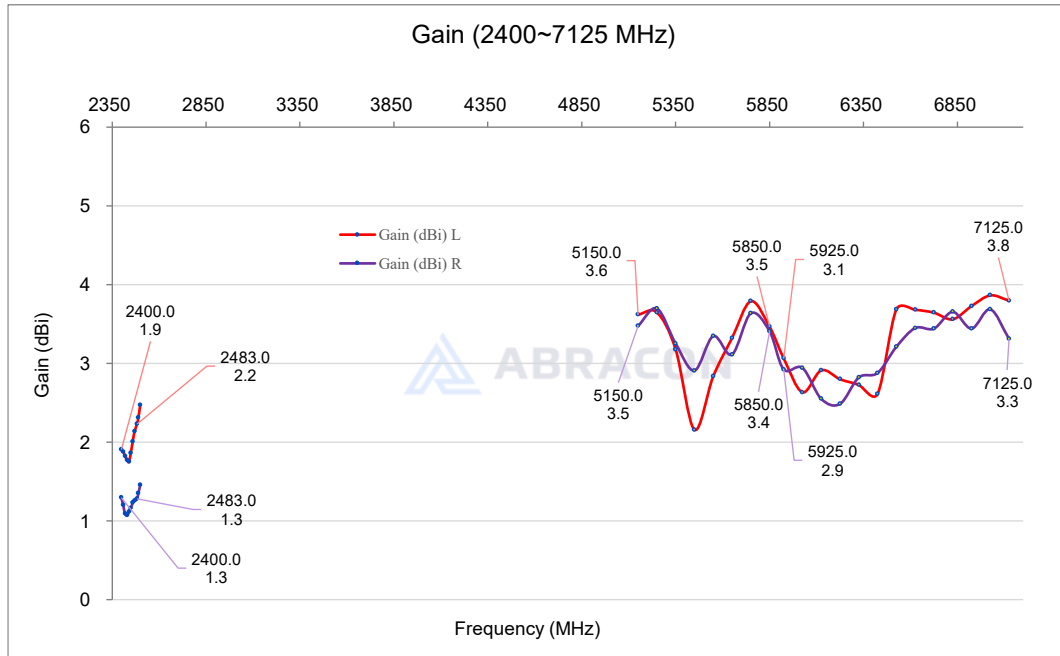


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## Radiation Characteristics – Peak Gain



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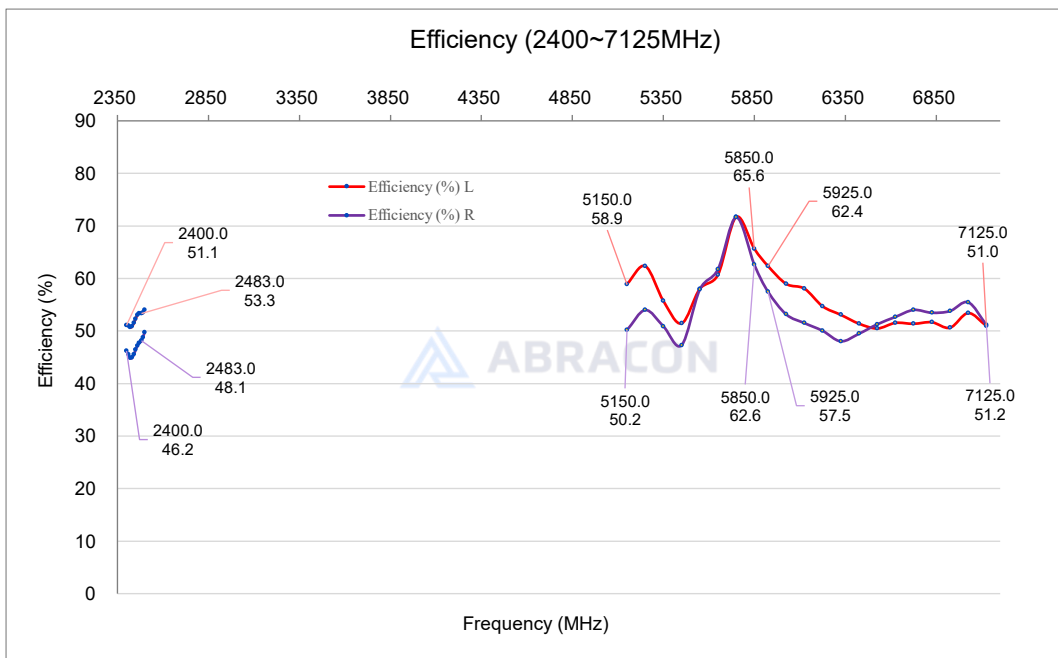


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## Radiation Characteristics – Total Efficiency (%)



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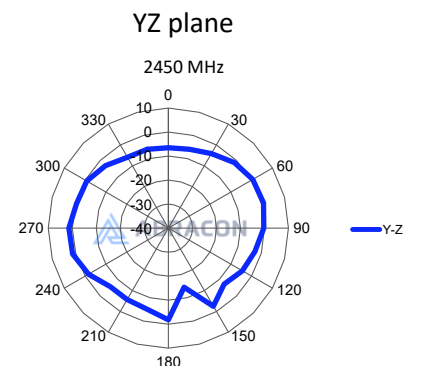
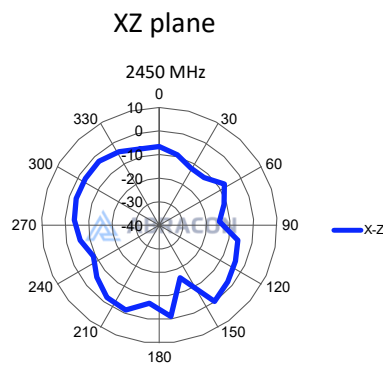
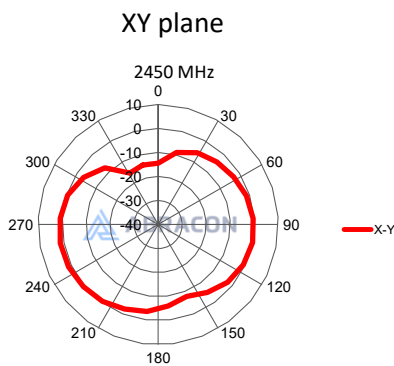
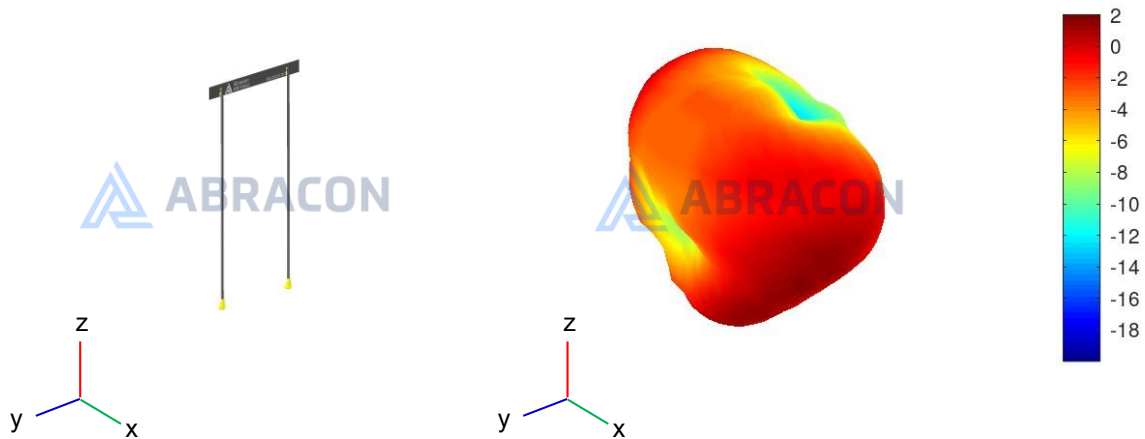
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## Radiation Characteristics – 3D & 2D pattern

2450MHz



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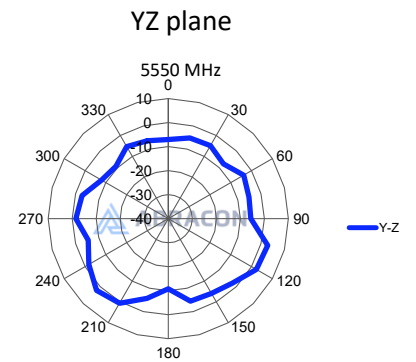
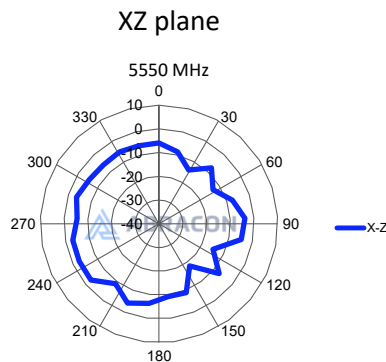
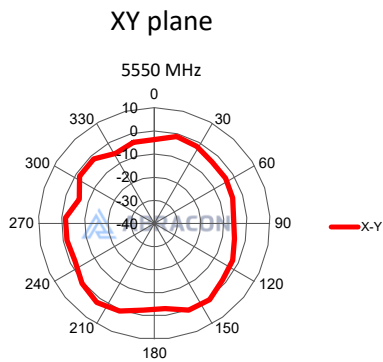
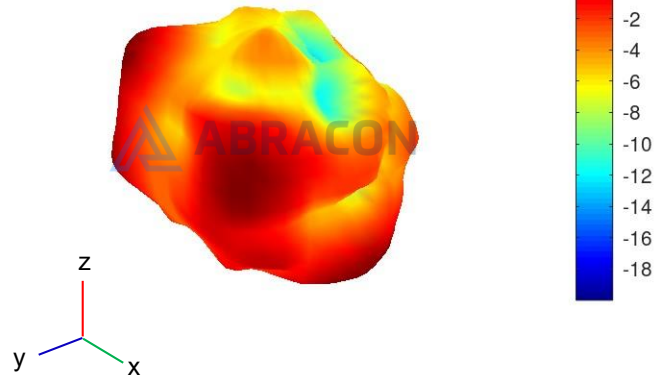


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5550MHz



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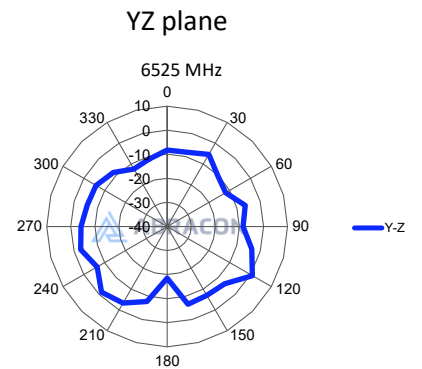
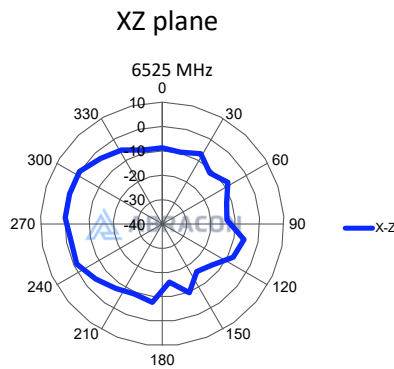
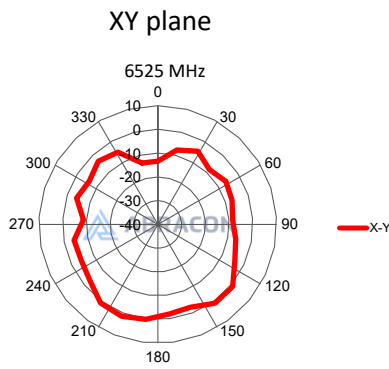
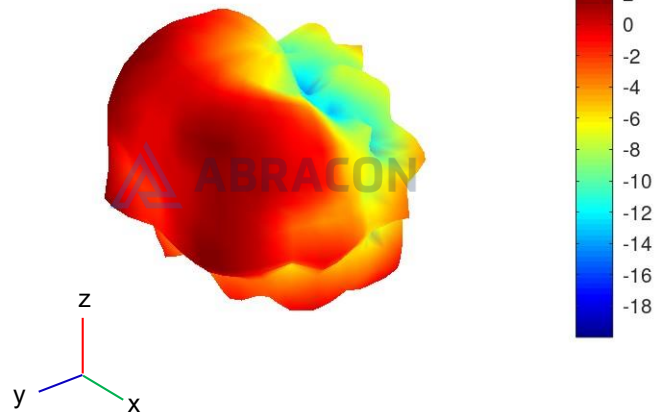


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6525MHz



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**70 x 6 x 0.2 mm**

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## Packaging

Number of Antenna/ bags: 50 pcs

PE bags / Carton: 10

Total Antennas / Carton: 500 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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