

TRI BAND WI-FI 6E/7 FPC ANTENNA



AANI-FB-0086

Request Samples



Check Inventory



15.5 x 6.5 x 0.2 mm

RoHS Compliant

MSL Level = N/A

Features

- Compact Design with High Efficiency Up to 75%
- 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

Product Image



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Electrical Specification

Parameter	Specification			Unit
Operating Frequency	2400 – 2483.5	5150 - 5850	5925 - 7125	MHz
VSWR (Typ.)		2.0		
Peak gain	3.0	3.6	2.7	dBi
Efficiency (Avg.)	63.9	77.4	47.1	%
Impedance		50		Ω
Polarization	Linear			
Radiation Pattern	Omni-directional			

Mechanical Specification

Parameter	Specification
Antenna Dimensions	15.5 x 6.5 x 0.2 mm
Antenna Type	Flexible Printed Circuit
Mounting Type	Adhesive
RF Connector ⁽¹⁾	u.FL/IPEX-1/MHF1, w.FL/IPEX-4/MHF4
RF Cable Type ⁽¹⁾	Ø1.13 mm
Cable Length ⁽¹⁾	100 mm, 150 mm, 200 mm

(1): Fully customizable RF Cable & Connector

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
AANI-FB-0086-0100I	TRI BAND WI-FI 6E/7 FPC ANTENNA with MHF1 connector and 100mm cable	u.FL/IPEX-1/MHF1
AANI-FB-0086-0100W	TRI BAND WI-FI 6E/7 FPC ANTENNA with MHF4 connector and 100mm cable	w.FL/IPEX-4/MHF4
AANI-FB-0086-0150I	TRI BAND WI-FI 6E/7 FPC ANTENNA with MHF1 connector and 150mm cable	u.FL/IPEX-1/MHF1
AANI-FB-0086-0150W	TRI BAND WI-FI 6E/7 FPC ANTENNA with MHF4 connector and 150mm cable	w.FL/IPEX-4/MHF4
AANI-FB-0086-0200I	TRI BAND WI-FI 6E/7 FPC ANTENNA with MHF1 connector and 200mm cable	u.FL/IPEX-1/MHF1
AANI-FB-0086-0200W	TRI BAND WI-FI 6E/7 FPC ANTENNA with MHF4 connector and 200mm cable	w.FL/IPEX-4/MHF4

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

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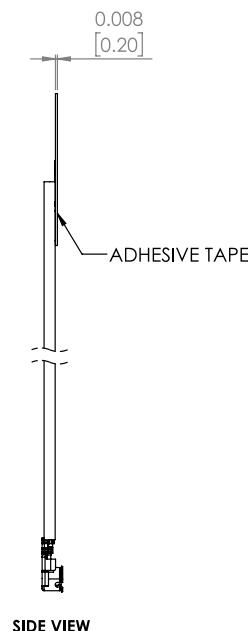
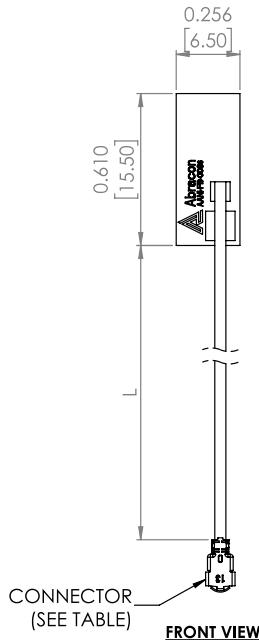


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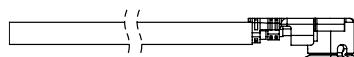


15.5 x 6.5 x 0.2 mm
RoHS Compliant
MSL Level = N/A

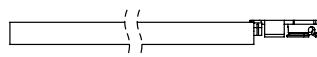
Product Dimensions

**CONNECTOR**

PART NUMBER	CABLE LENGTH (L)	CONNECTOR
AANI-FB-0086-0100I	3.937[100]	U.FL/IPEX-1/MHF1
AANI-FB-0086-0100W	3.937[100]	w.FL/IPEX-4/MHF4
AANI-FB-0086-0150I	5.905[150]	U.FL/IPEX-1/MHF1
AANI-FB-0086-0150W	5.905[150]	w.FL/IPEX-4/MHF4
AANI-FB-0086-0200I	7.874[200]	U.FL/IPEX-1/MHF1
AANI-FB-0086-0200W	7.874[200]	w.FL/IPEX-4/MHF4



U.FL/IPEX-1/MHF1



w.FL/IPEX-4/MHF4

Unit : inches[mm]

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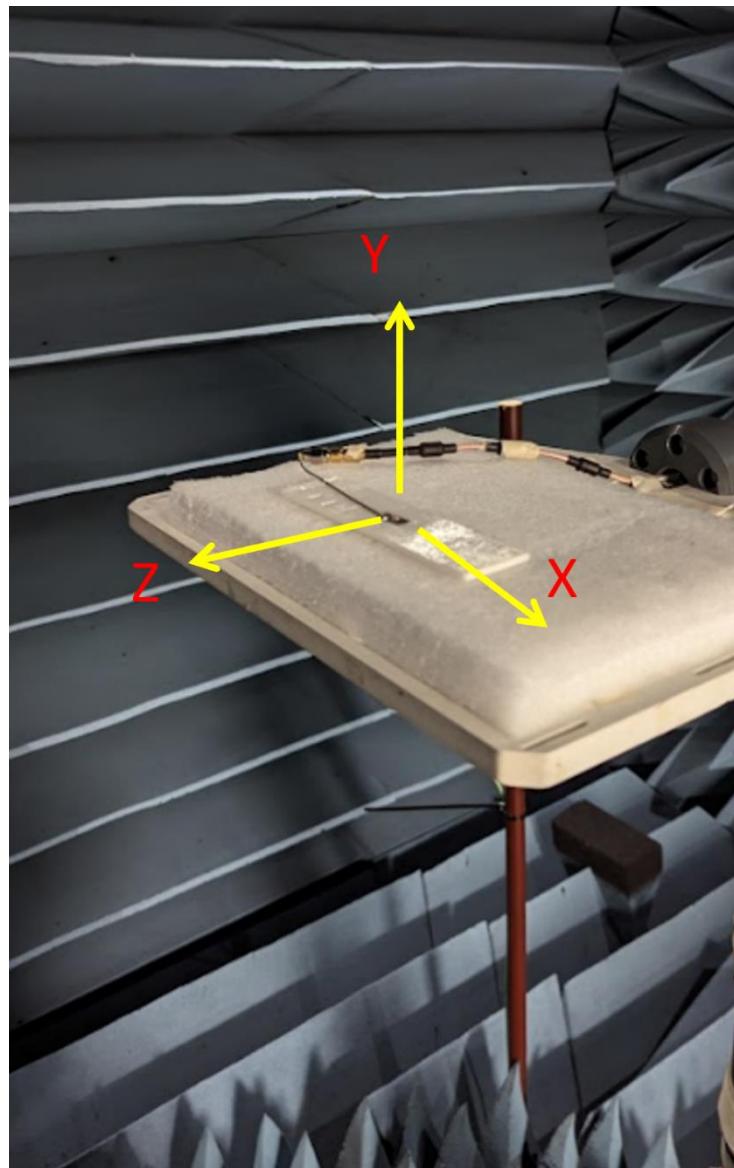
Check Inventory

15.5 x 6.5 x 0.2 mm

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Measurement Setup photo



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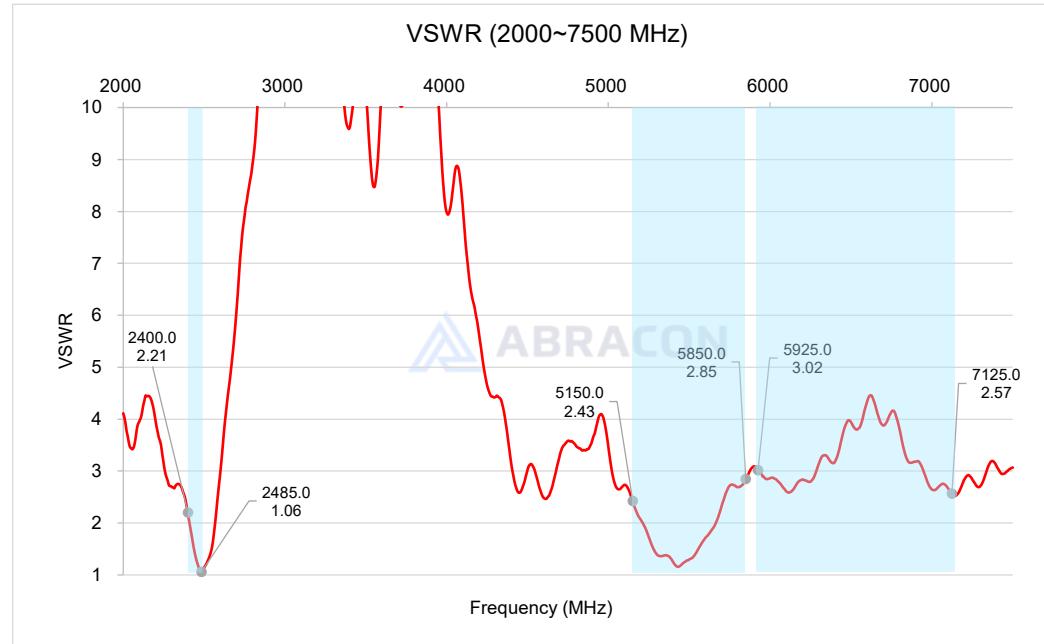
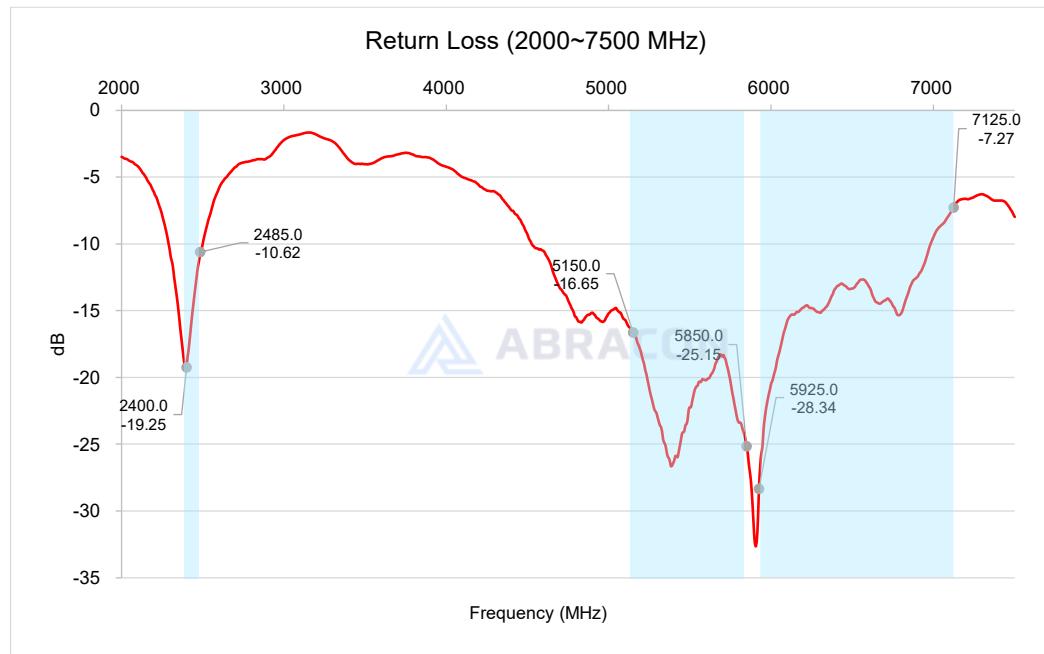


15.5 x 6.5 x 0.2 mm

RoHS Compliant

MSL Level = N/A

Reflection Characteristics – Return Loss & VSWR

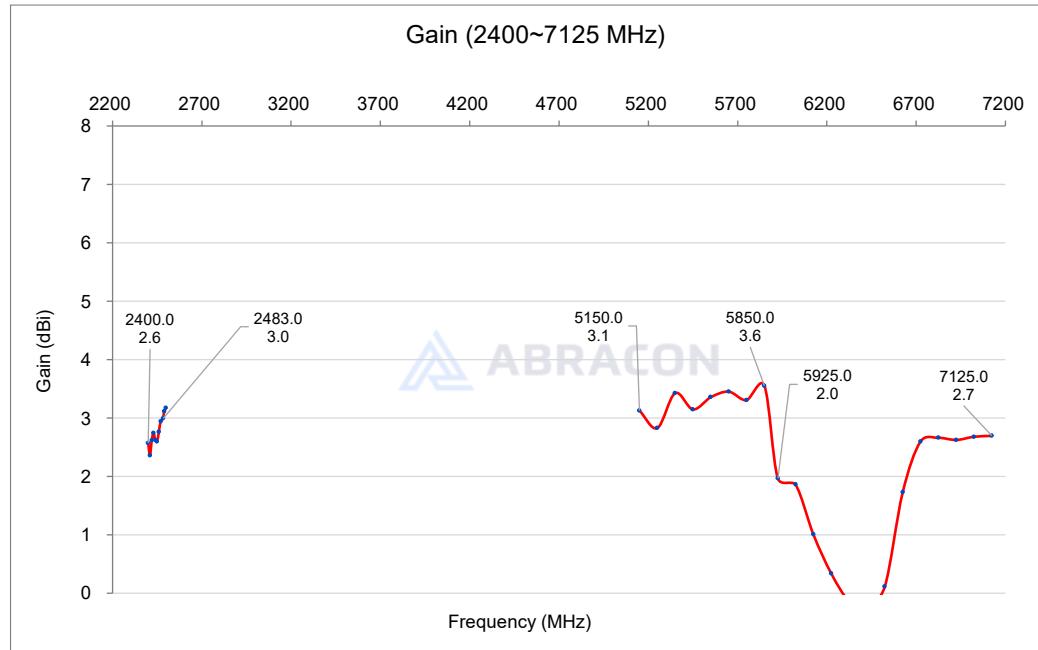


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15.5 x 6.5 x 0.2 mm
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MSL Level = N/A

Radiation Characteristics – Peak Gain



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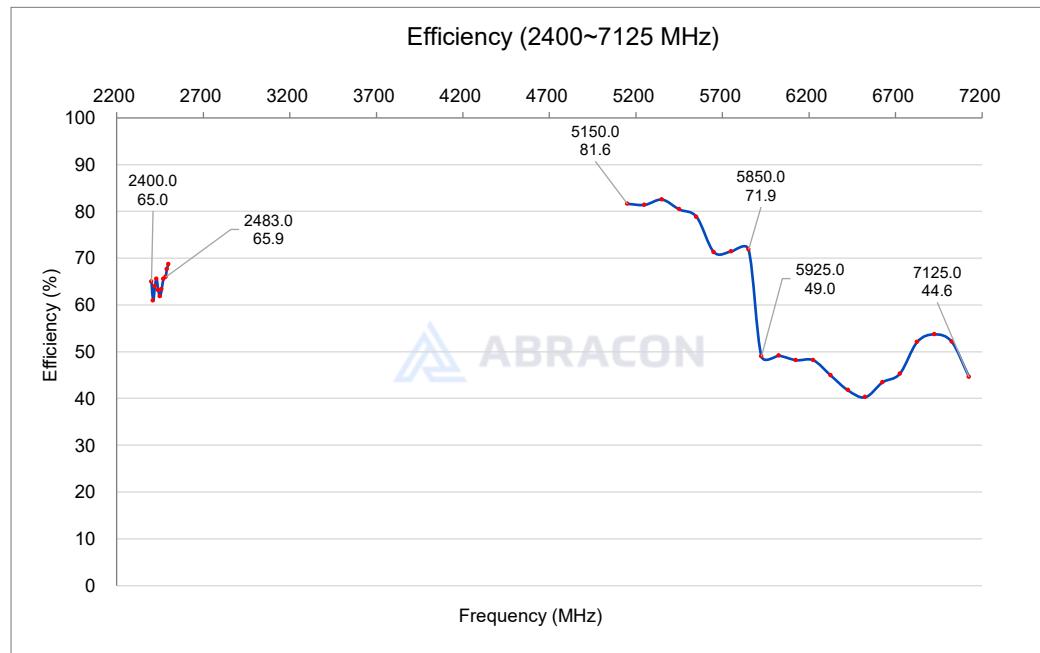
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Radiation Characteristics – Total Efficiency (%)



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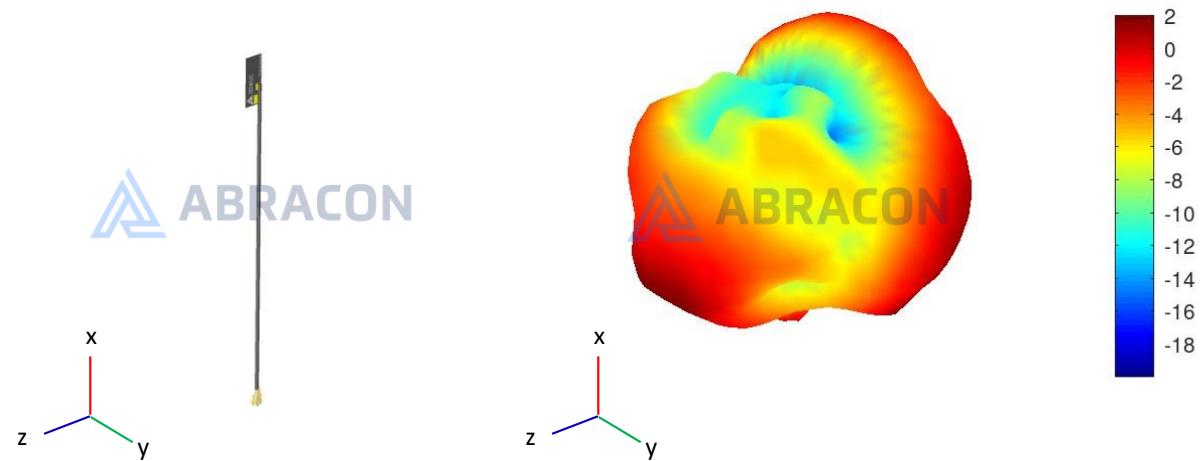
15.5 x 6.5 x 0.2 mm

RoHS Compliant

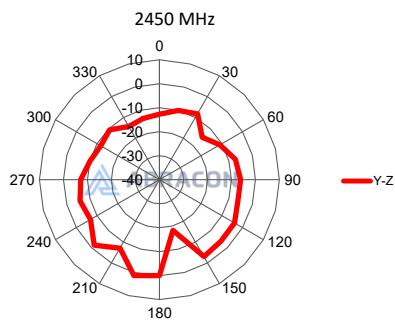
MSL Level = N/A

Radiation Characteristics – 3D & 2D pattern

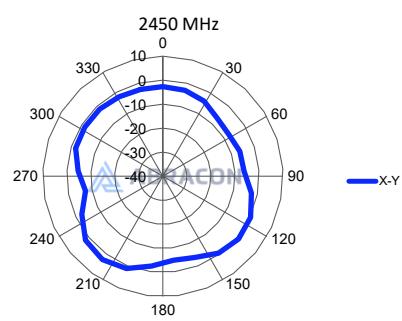
2450MHz



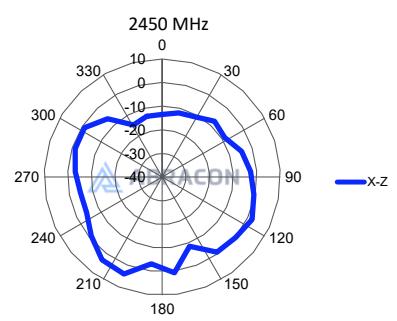
YZ plane



XY plane



XZ plane



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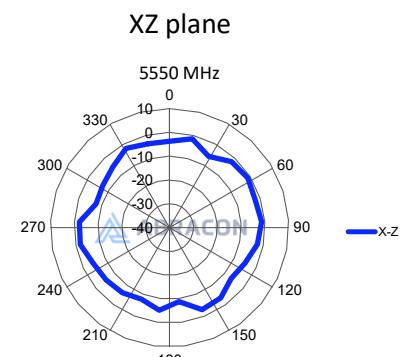
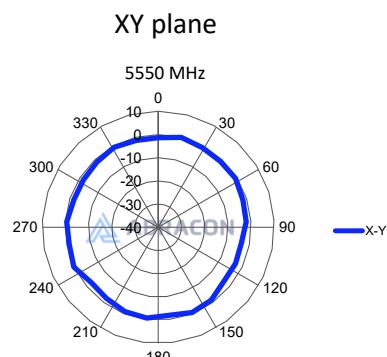
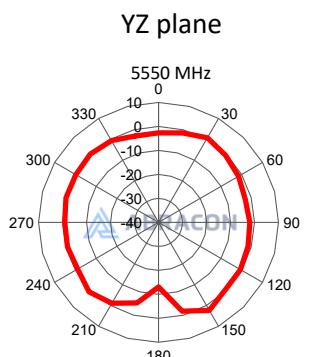
RoHS Compliant

MSL Level = N/A

5550MHz



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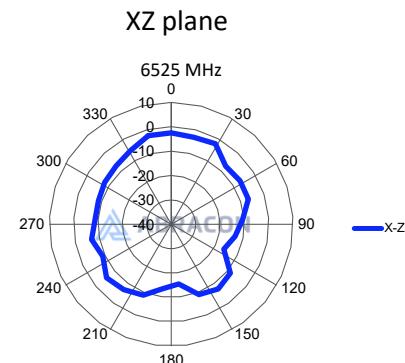
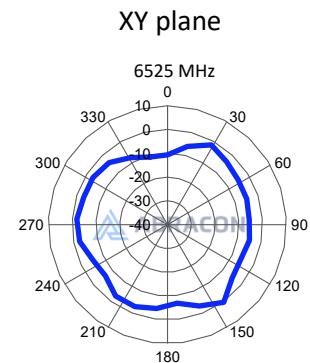
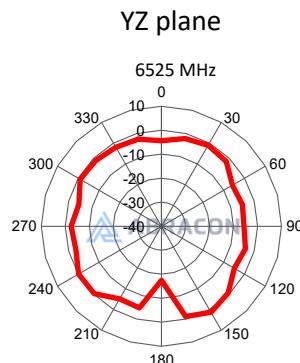
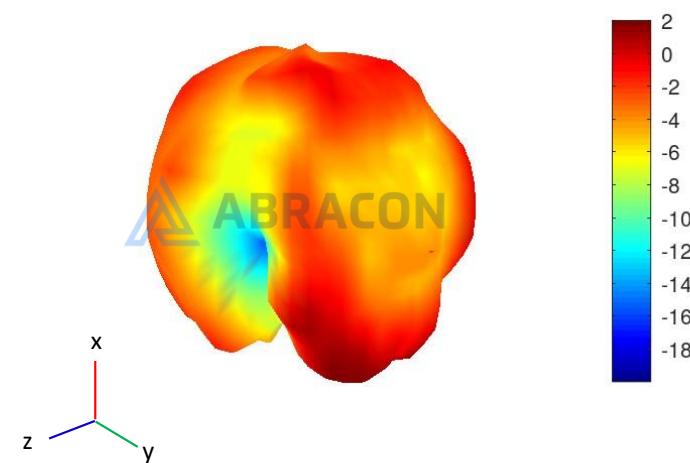


15.5 x 6.5 x 0.2 mm

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6525MHz



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15.5 x 6.5 x 0.2 mm

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Packaging

Number of Antenna/ bags: 100 pcs

Total Pcs / package: 1000 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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