

TRI BAND WI-FI 6E/7 PCB ANTENNA



AANI-FB-0083

Request Samples



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41 x 9 x 0.7 mm
RoHS Compliant
MSL Level = N/A

Features

- Compact Design with High Efficiency Up to 90%
- Easy Installation on Flat 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.)	< 2.5			
Peak gain	2.6	3.9	4.2	dBi
Efficiency (Avg.)	91.5	87.3	72.1	%
Impedance	50			Ω
Polarization	Linear			
Radiation Pattern	Omni-directional			

Mechanical Specification

Parameter	Specification
Antenna Dimensions	41 x 9 x 0.7 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⁾	50 mm, 100 mm, 150 mm, 200 mm, 250 mm, 300 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-0083-0050I	TRI BAND WI-FI 6E/7 PCB ANTENNA with MHF1 connector and 50mm cable	u.FL/IPEX-1/MHF1
AANI-FB-0083-0050W	TRI BAND WI-FI 6E/7 PCB ANTENNA with MHF4 connector and 50mm cable	w.FL/IPEX-4/MHF4
AANI-FB-0083-0100I	TRI BAND WI-FI 6E/7 PCB ANTENNA with MHF1 connector and 100mm cable	u.FL/IPEX-1/MHF1
AANI-FB-0083-0100W	TRI BAND WI-FI 6E/7 PCB ANTENNA with MHF4 connector and 100mm cable	w.FL/IPEX-4/MHF4
AANI-FB-0083-0150I	TRI BAND WI-FI 6E/7 PCB ANTENNA with MHF1 connector and 150mm cable	u.FL/IPEX-1/MHF1
AANI-FB-0083-0150W	TRI BAND WI-FI 6E/7 PCB ANTENNA with MHF4 connector and 150mm cable	w.FL/IPEX-4/MHF4
AANI-FB-0083-0200I	TRI BAND WI-FI 6E/7 PCB ANTENNA with MHF1 connector and 200mm cable	u.FL/IPEX-1/MHF1
AANI-FB-0083-0200W	TRI BAND WI-FI 6E/7 PCB ANTENNA with MHF4 connector and 200mm cable	w.FL/IPEX-4/MHF4
AANI-FB-0083-0250I	TRI BAND WI-FI 6E/7 PCB ANTENNA with MHF1 connector and 250mm cable	u.FL/IPEX-1/MHF1
AANI-FB-0083-0250W	TRI BAND WI-FI 6E/7 PCB ANTENNA with MHF4 connector and 250mm 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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REVISED: 08-12-24

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MSL Level = N/A

PART NUMBER	CABLE LENGTH (L)	CONNECTOR
AANI-FB-0083-0050I	1.968[50]	u.FL/IPEX-1/MHF1
AANI-FB-0083-0050W	1.968[50]	w.FL/IPEX-4/MHF4
AANI-FB-0083-00100I	3.937[100]	u.FL/IPEX-1/MHF1
AANI-FB-0083-00100W	3.937[100]	w.FL/IPEX-4/MHF4
AANI-FB-0083-00150I	5.905[150]	u.FL/IPEX-1/MHF1
AANI-FB-0083-00150W	5.905[150]	w.FL/IPEX-4/MHF4
AANI-FB-0083-00200I	7.874[200]	u.FL/IPEX-1/MHF1
AANI-FB-0083-00200W	7.874[200]	w.FL/IPEX-4/MHF4
AANI-FB-0083-00250I	9.842[250]	u.FL/IPEX-1/MHF1
AANI-FB-0083-00250W	9.842[250]	w.FL/IPEX-4/MHF4
AANI-FB-0083-00300I	11.811[300]	u.FL/IPEX-1/MHF1
AANI-FB-0083-00300W	11.811[300]	w.FL/IPEX-4/MHF4

U.FL/IPEX-1/MHF1



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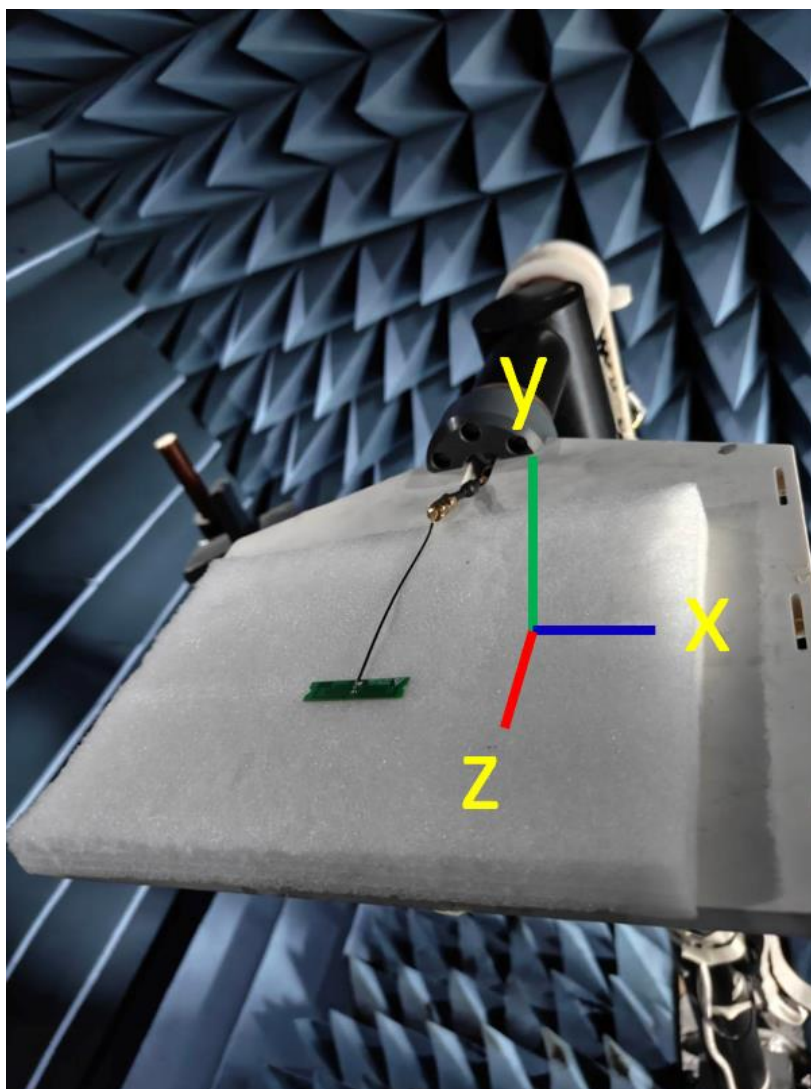


41 x 9 x 0.7 mm

RoHS Compliant

MSL Level = N/A

Measurement Setup photo



TRI BAND WI-FI 6E/7 PCB ANTENNA



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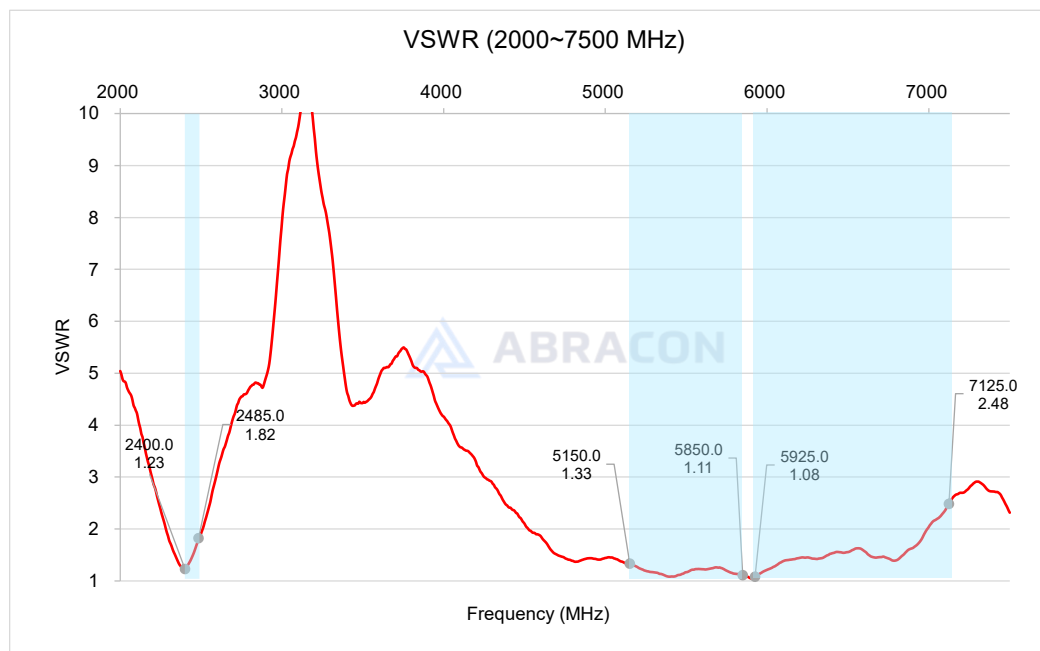
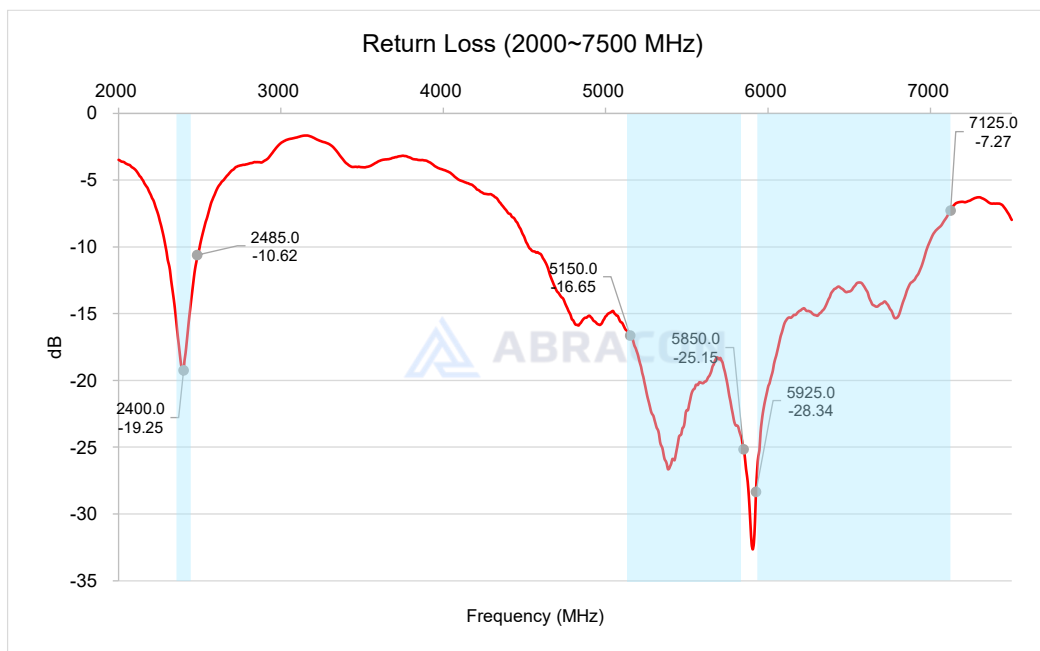


41 x 9 x 0.7 mm

RoHS Compliant

MSL Level = N/A

Reflection Characteristics – Return Loss & VSWR



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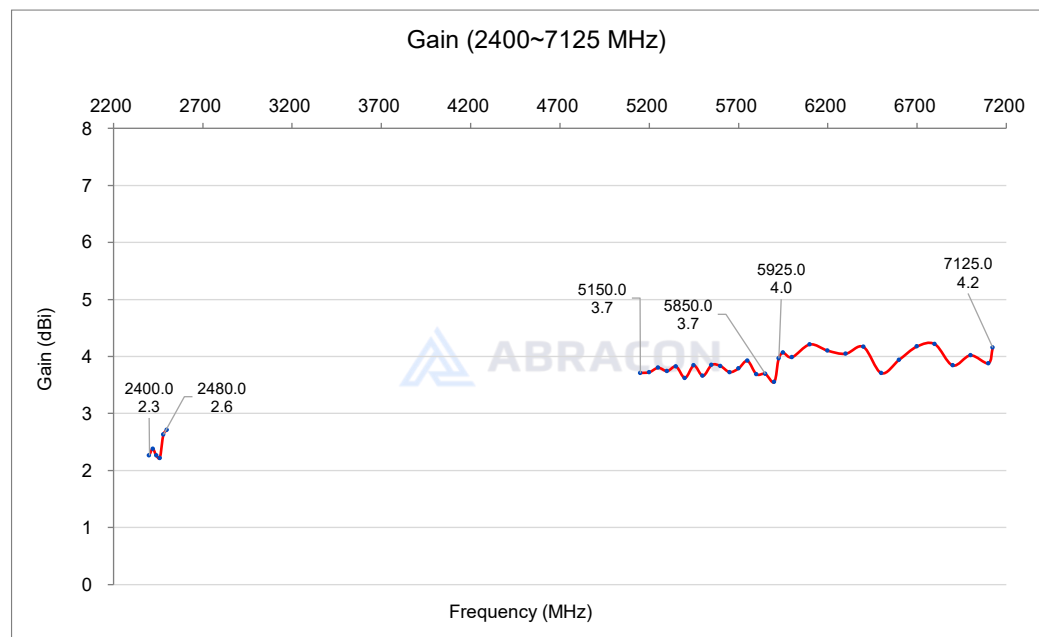


41 x 9 x 0.7 mm

RoHS Compliant

MSL Level = N/A

Radiation Characteristics – Peak Gain



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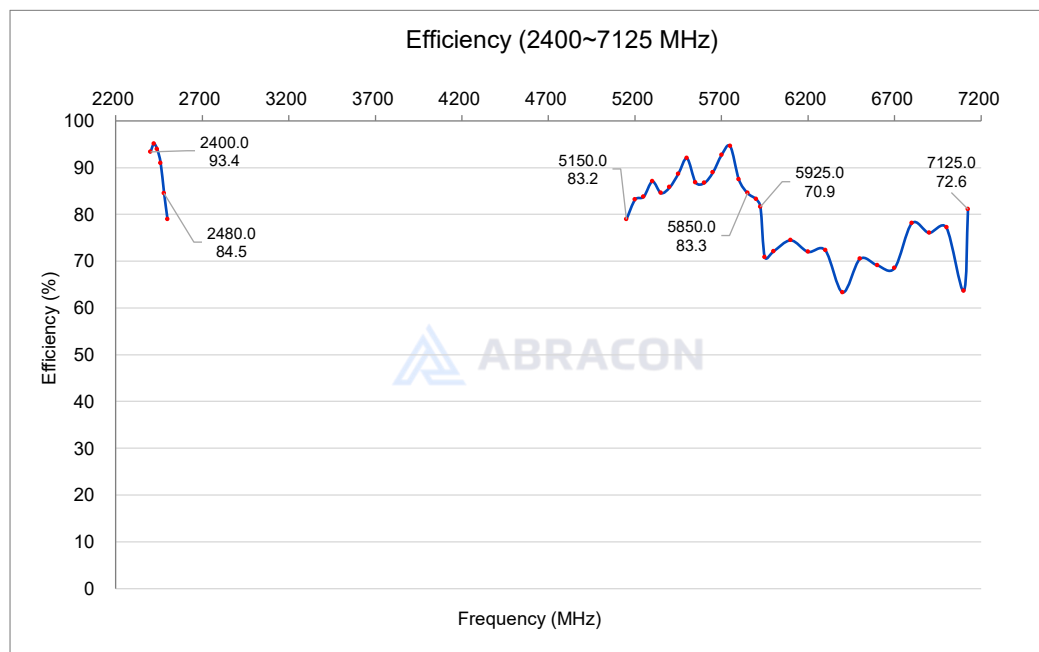


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Radiation Characteristics – Total Efficiency (%)



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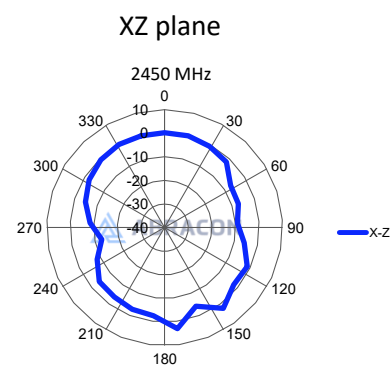
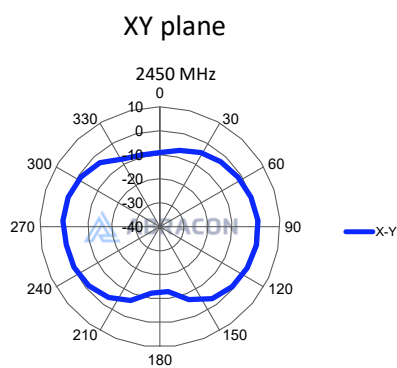
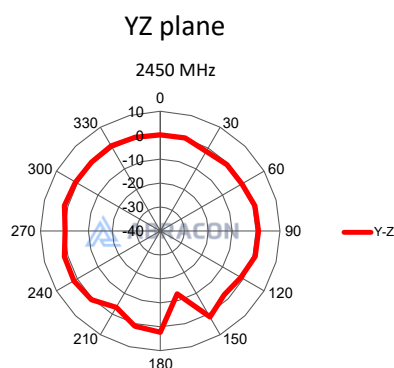
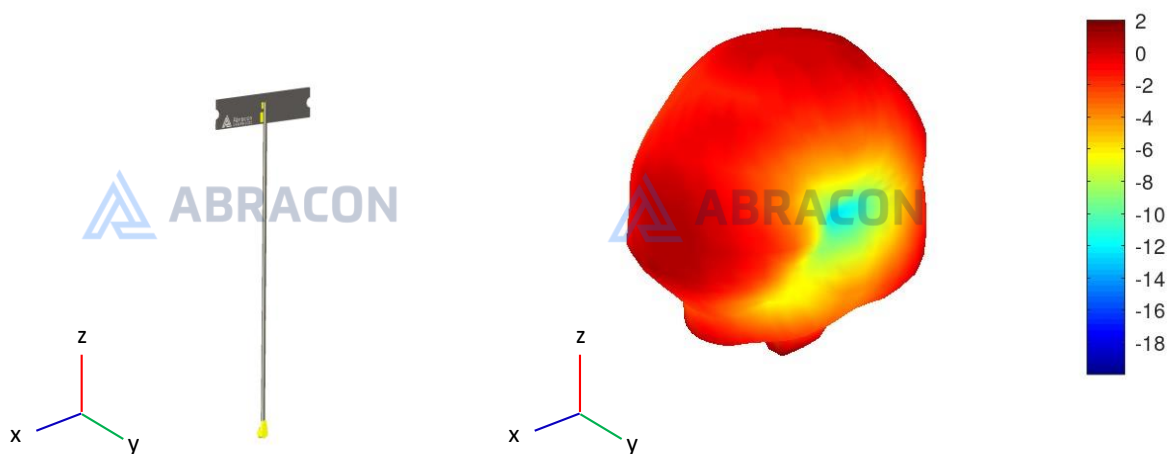
41 x 9 x 0.7 mm

RoHS Compliant

MSL Level = N/A

Radiation Characteristics – 3D & 2D pattern

2450MHz



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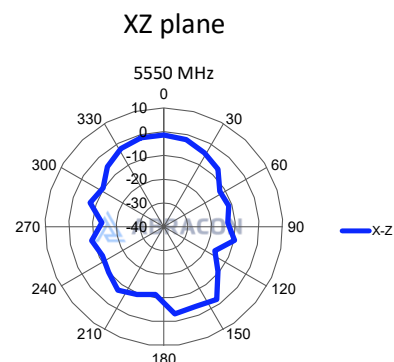
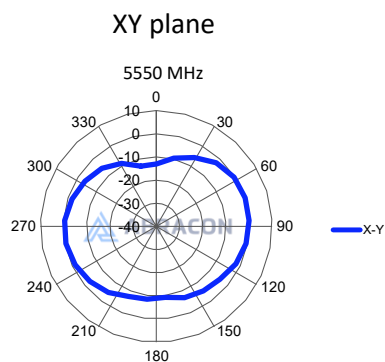
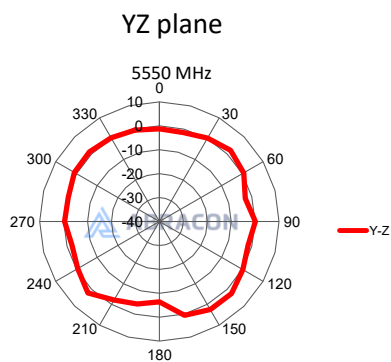
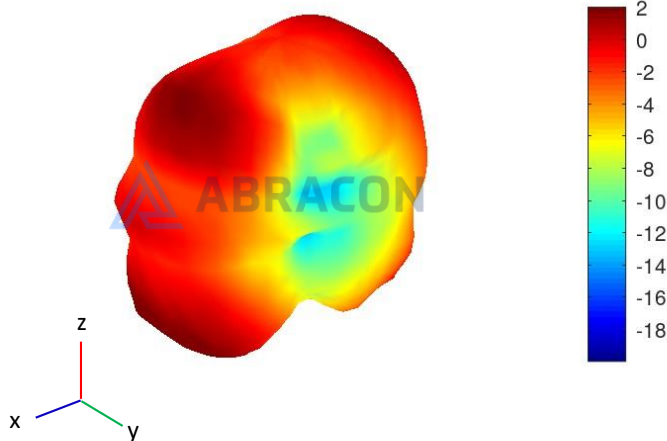
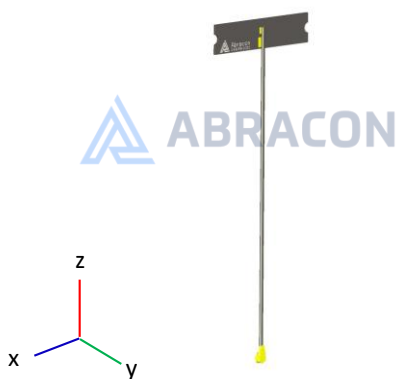


41 x 9 x 0.7 mm

RoHS Compliant

MSL Level = N/A

5550MHz



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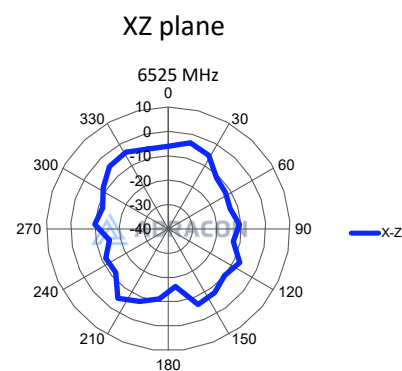
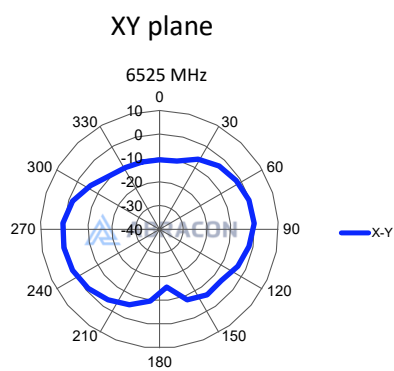
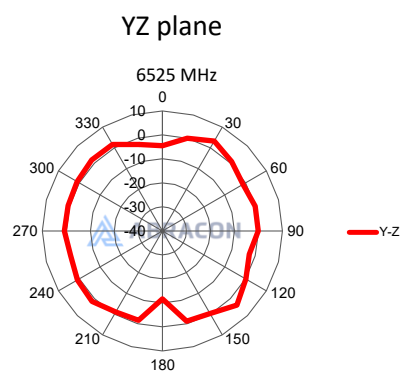
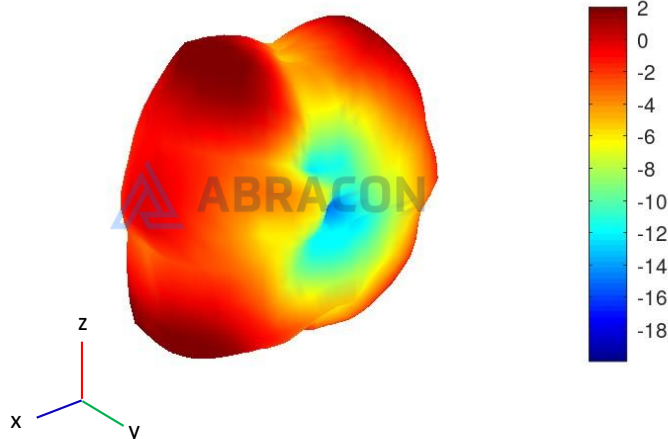
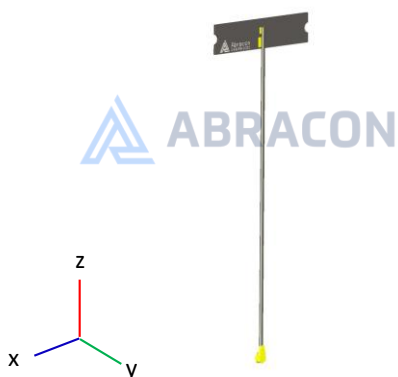


41 x 9 x 0.7 mm

RoHS Compliant

MSL Level = N/A

6525MHz



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41 x 9 x 0.7 mm

RoHS Compliant

MSL Level = N/A

Packaging

Number of Antenna/ bags: 50 pcs

Total Pcs / package: 1000 pcs

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