

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



AANE-WH-0149

Request Samples



Check Inventory



Ø 8.3 x 50 mm

RoHS/RoHS II Compliant

MSL Level = N/A

Features

- High Efficiency Up to 62%
- High Peak Gain 2.2dBi ~ 3.2dBi
- SMA Connector Design for Straight 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



5101 Hidden Creek Ln Spicewood TX 78669
Phone: 512-371-6159 | Fax: 512-351-8858
For terms and conditions of sales, please visit:
www.abracon.com

REVISED: 09-09-24

ABRACON IS
ISO9001-2015
CERTIFIED

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



AANE-WH-0149

Request Samples



Check Inventory



Ø 8.3 x 50 mm

RoHS/RoHS II Compliant

MSL Level = N/A

Electrical Specification

Parameter	Specification			Unit
Operating Frequency	2400-2500	5150-5850	5925-7125	MHz
VSWR (Typ.)	< 2.0	< 2.5	< 3.5	
Return Loss (Typ.)	> 10	> 6	> 5	dB
Peak Gain ⁽¹⁾	2.2	3.2	2.7	dBi
Efficiency (Max.) ⁽¹⁾	62	50	43	%
Efficiency (Avg.) ⁽¹⁾	60	43	40	%
Impedance	50			Ω
Polarization	Linear			
Radiation Pattern (Azimuth)	Omni-directional			
Input Power (Ambient 25°C)	5			W

(1): Measured with 120 x 90 mm ground plate

Mechanical Specification

Parameter	Specification
Dimensions	Ø 8.3 x 50 mm
Material	TPEE ⁽¹⁾
Recommended Torque for Mounting	0.565 N·m
Color	Black
Antenna Type	Whip (Monopole)
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



5101 Hidden Creek Ln Spicewood TX 78669
Phone: 512-371-6159 | Fax: 512-351-8858
For terms and conditions of sales, please visit:
www.abracon.com

REVISED: 09-09-24

ABRACON IS
ISO9001-2015
CERTIFIED

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



AANE-WH-0149

Request Samples



Check Inventory



Ø 8.3 x 50 mm

RoHS/RoHS II Compliant

MSL Level = N/A

Ordering Information

Part Number	Description	Connector Option
AANE-WH-0149-RIP	Wi-Fi 6/6E/7 External Whip Antenna with RP-SMA(M) connector & IP rating	RP-SMA(M)
AANE-WH-0149-SIP	Wi-Fi 6/6E/7 External Whip Antenna with SMA(M) connector & IP rating	SMA(M)
AANE-WH-0149-R	Wi-Fi 6/6E/7 External Whip Antenna with RP-SMA(M) connector	RP-SMA(M)
AANE-WH-0149-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](#)



5101 Hidden Creek Ln Spicewood TX 78669
Phone: 512-371-6159 | Fax: 512-351-8858
For terms and conditions of sales, please visit:
www.abracon.com

REVISED: 09-09-24

ABRACON IS
ISO9001-2015
CERTIFIED

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



AANE-WH-0149

Request Samples



Check Inventory

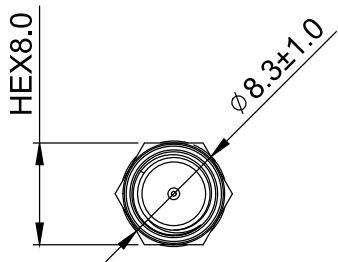
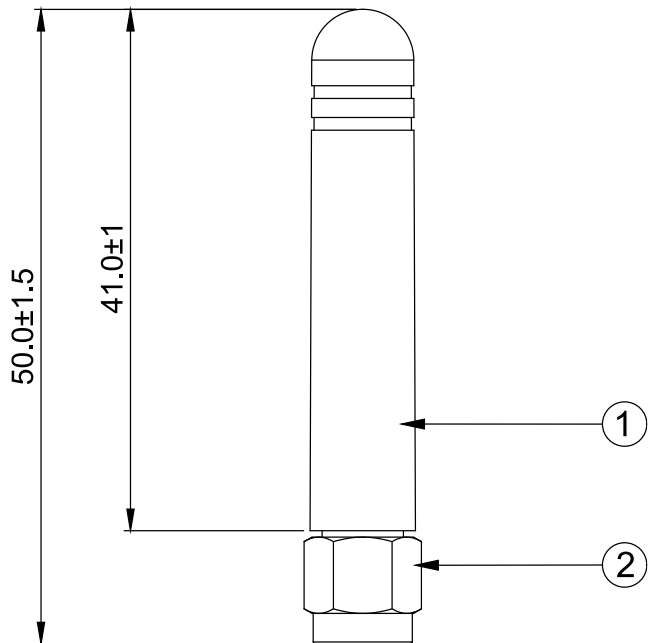


Ø 8.3 x 50 mm

RoHS/RoHS II Compliant

MSL Level = N/A

Product Dimensions



Unit : mm

No.	Name	Material	Finish
1	Body	TPEE	Black
2	Connector	RP-SMA(M)	Au Plated

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



AANE-WH-0149

Request Samples



Check Inventory

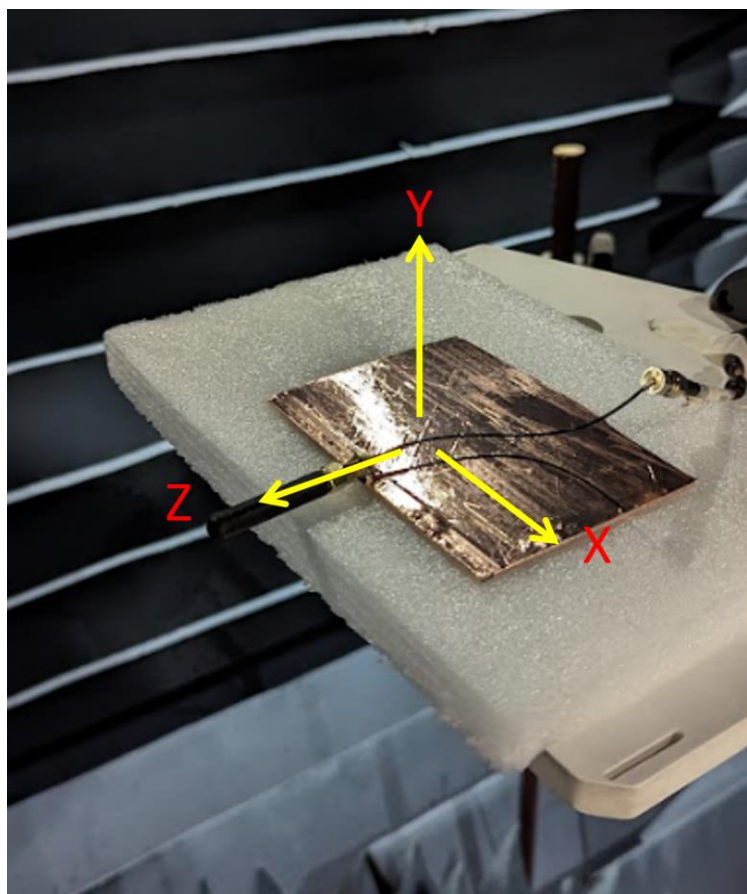


Ø 8.3 x 50 mm

RoHS/RoHS II Compliant

MSL Level = N/A

Measurement Setup



Ground plate size: 120 x 90 mm

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



AANE-WH-0149

Request Samples



Check Inventory

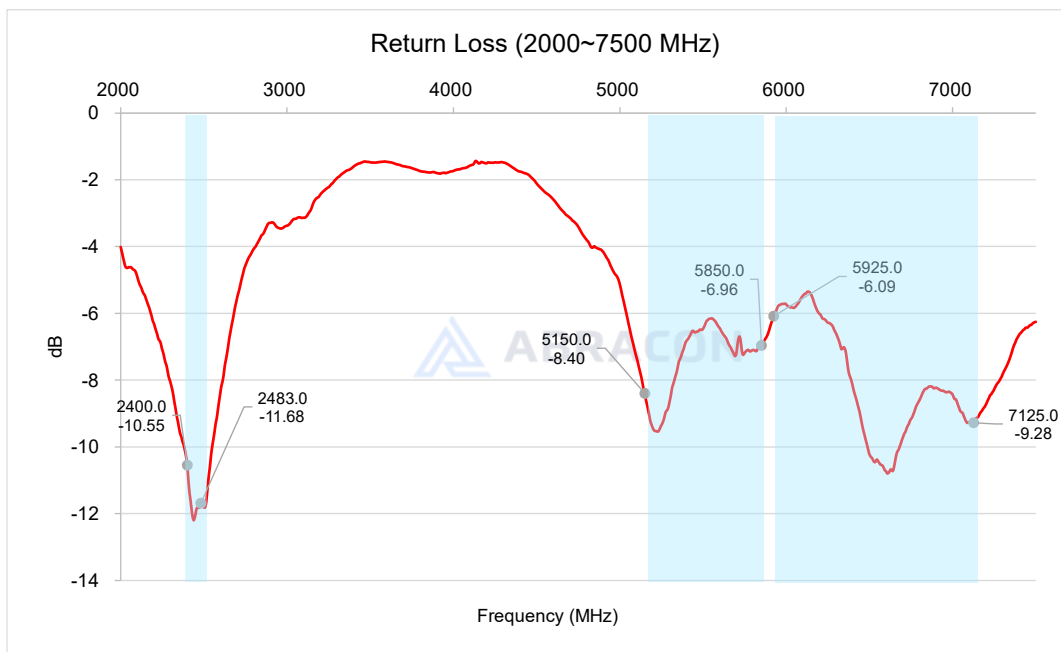
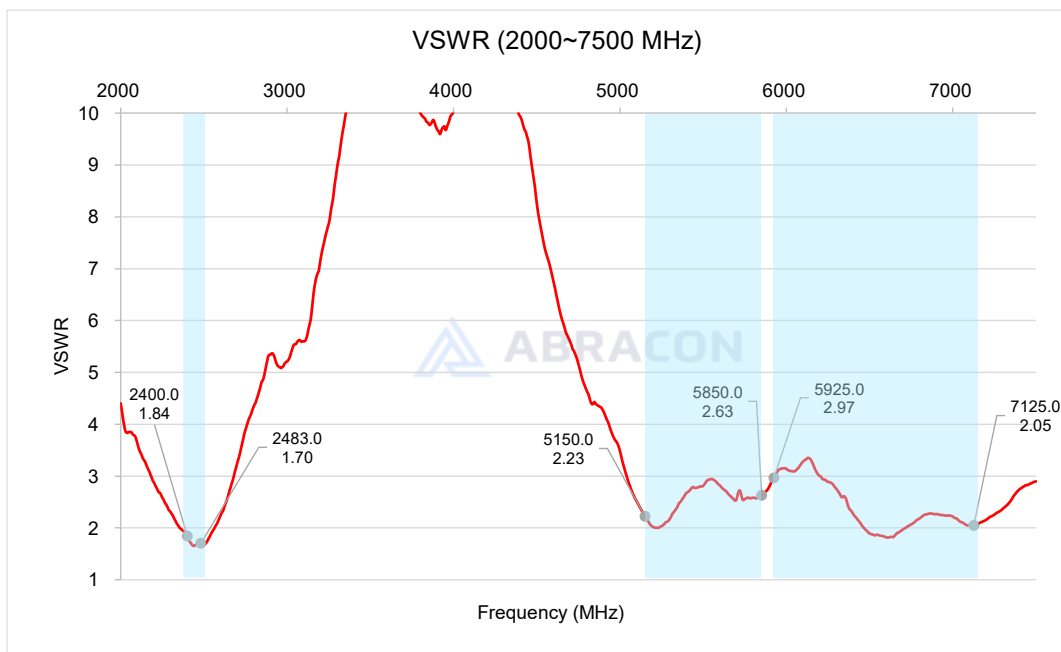


Ø 8.3 x 50 mm

RoHS/RoHS II Compliant

MSL Level = N/A

Reflection Characteristics – Return Loss & VSWR



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



AANE-WH-0149

Request Samples



Check Inventory

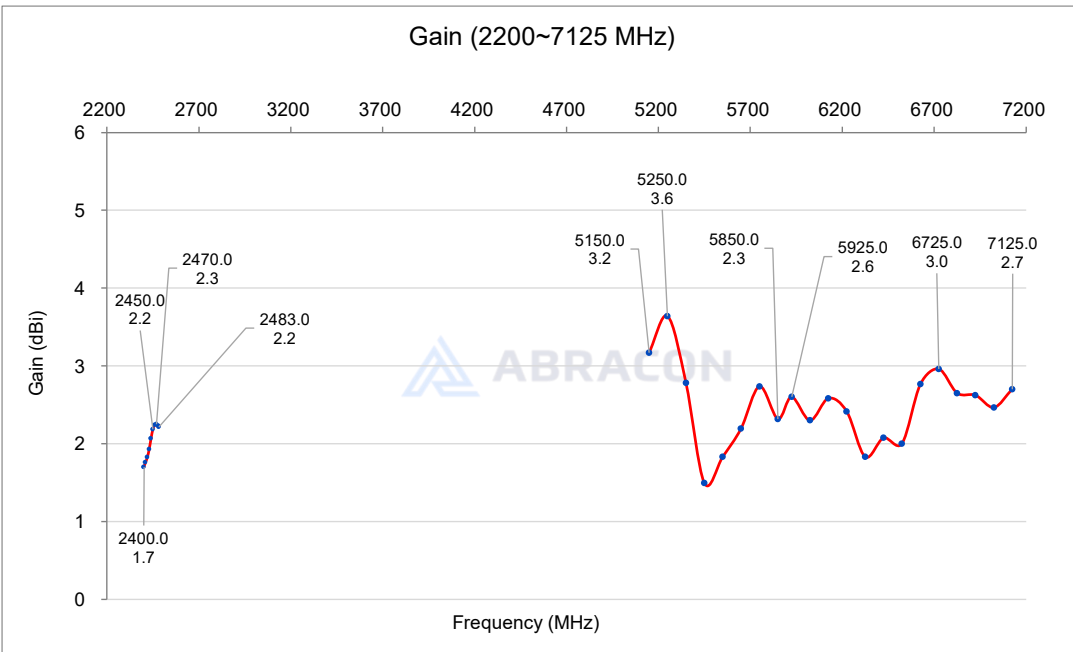


Ø 8.3 x 50 mm

RoHS/RoHS II Compliant

MSL Level = N/A

Radiation Characteristics – Peak Gain



5101 Hidden Creek Ln Spicewood TX 78669
Phone: 512-371-6159 | Fax: 512-351-8858
For terms and conditions of sales, please visit:
www.abracon.com

REVISED: 09-09-24

ABRACON IS
ISO9001-2015
CERTIFIED

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



AANE-WH-0149

Request Samples



Check Inventory

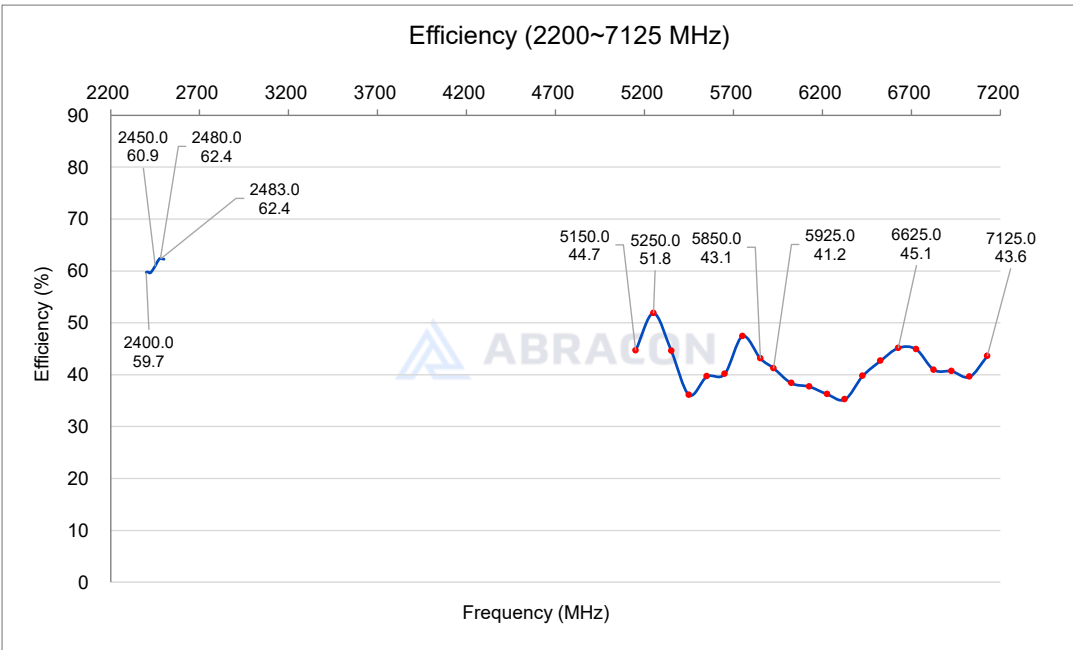


Ø 8.3 x 50 mm

RoHS/RoHS II Compliant

MSL Level = N/A

Radiation Characteristics – Total Efficiency (%)



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



AANE-WH-0149

Request Samples



Check Inventory



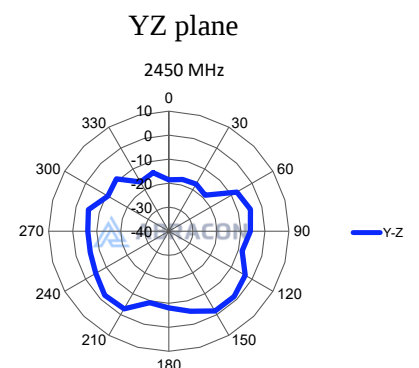
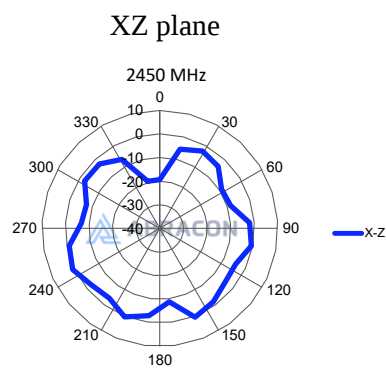
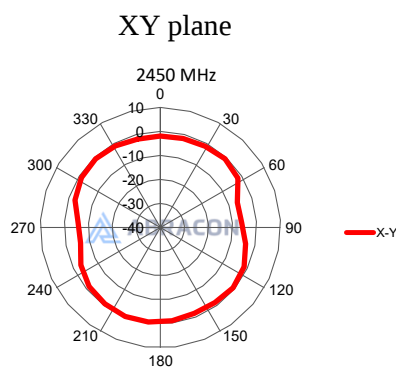
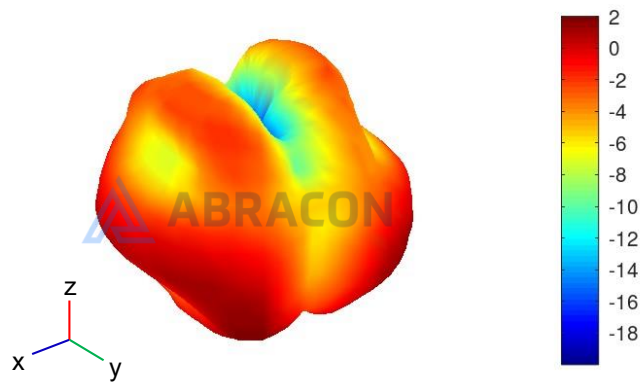
Ø 8.3 x 50 mm

RoHS/RoHS II Compliant

MSL Level = N/A

Radiation Characteristics – 3D Pattern

2450MHz



5101 Hidden Creek Ln Spicewood TX 78669
Phone: 512-371-6159 | Fax: 512-351-8858
For terms and conditions of sales, please visit:
www.abracon.com

REVISED: 09-09-24

ABRACON IS
ISO9001-2015
CERTIFIED

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



AANE-WH-0149

Request Samples



Check Inventory

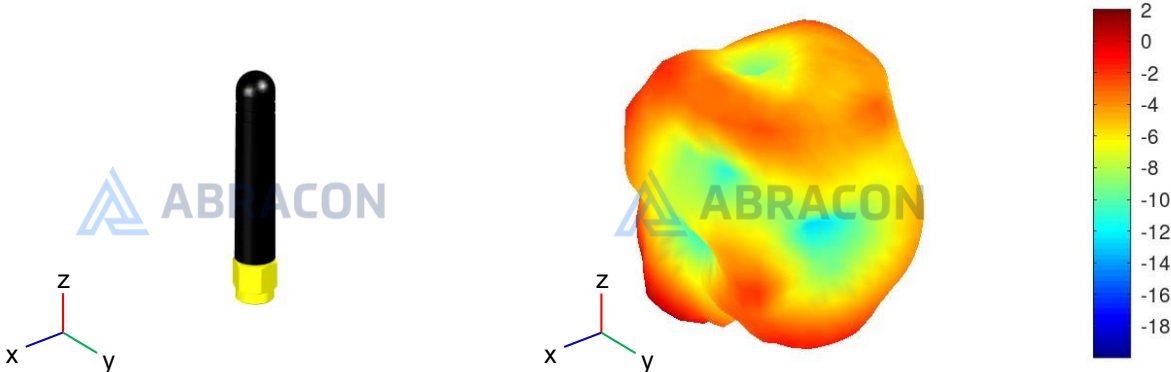


Ø 8.3 x 50 mm

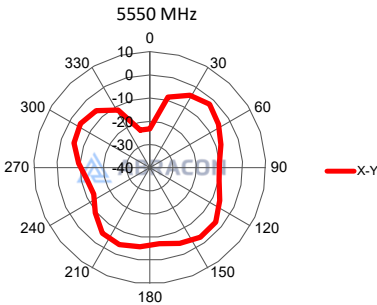
RoHS/RoHS II Compliant

MSL Level = N/A

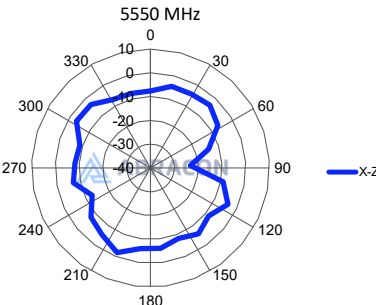
5550MHz



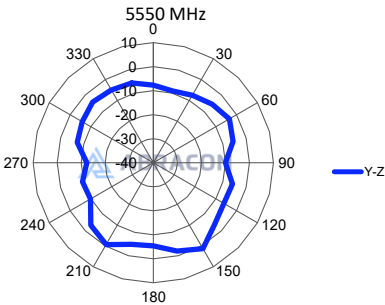
XY plane



XZ plane



YZ plane



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



AANE-WH-0149

Request Samples



Check Inventory

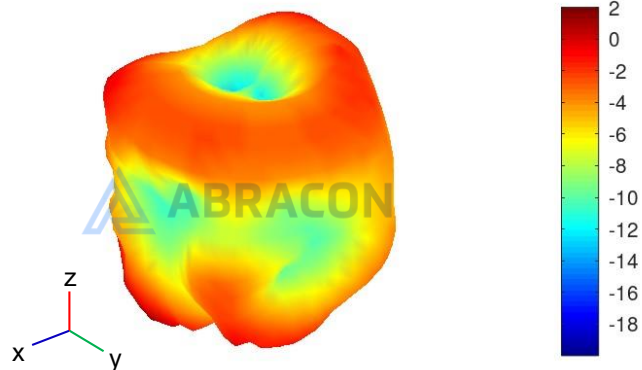


Ø 8.3 x 50 mm

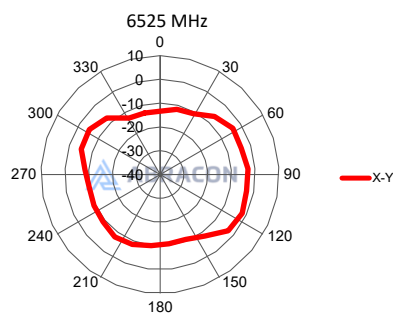
RoHS/RoHS II Compliant

MSL Level = N/A

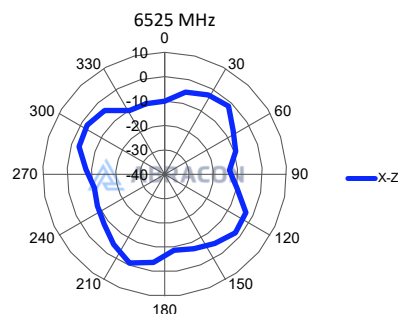
6525MHz



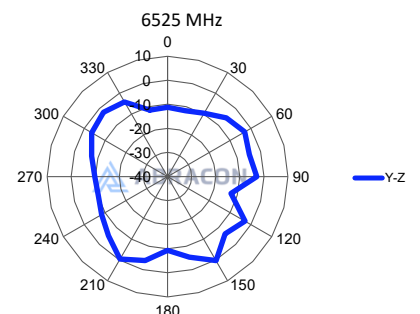
XY plane



XZ plane



YZ plane



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Antennas](#) category:

Click to view products by [Abracon](#) manufacturer:

Other Similar products are found below :

[930-033-R](#) [A09-F8NF-M](#) [108-00016-050](#) [W1049B090](#) [WTL2449CQ1-FRSMM](#) [0600-00060](#) [GD53-25](#) [S9025PLSMF](#) [GPSCPMM00](#) [ANT-WP868SMA-Y](#) [CBNC58](#) [MD10-004](#) [ABFT](#) [LP800NMOW](#) [NMOQ88C](#) [NMOQB](#) [NMOQC](#) [ANT-GSMGPSPUKS](#) [60210](#) [60140](#) [ANT-8WPIG-UFL](#) [ANT-GPSPUKS](#) [A21H0](#) [29000863](#) [EXD450TN](#) [2.4GHz 2dBi-1.13-L=50mm](#) [3E0702BK-005](#) [22100003](#) [DL-T022-2.4G](#) [DL-T023-4G](#) [T1-915M](#) [DL-T021-2.4GW](#) [DL-T021-2.4G](#) [KH-IPEX-1.13](#) [BWGNSCNX16-6B1Y2L120](#) [BWGNSCNX15-15B1Y4L120](#) [DL-T023-4GW](#) [3N0401LG-021](#) [KHA\(RG1.13\)-TX90B-IPEX](#) [KHA\(RG1.13\)-TX80B-IPEX](#) [KH-137-TX90B-IPEX4](#) [KH-113-TX100B-IPEX4](#) [KH-113-TX60B-IPEX4](#) [KH-081-TX300-IPEX](#) [3K0001BK00-001](#) [3K0001BK00-002](#) [3N0401LG-038](#) [3N0401BK-049](#) [PRO-OB-440](#) [DL-F8-5G](#)