

Part No. X9001879-W3DFAB

External Hinged Wi-Fi 6 & Wi-Fi 6E with FAKRA Connector

2.4 GHz, 5 GHz, 6 GHz

Supports: Wi-Fi applications, Bluetooth, ZigBee, WLAN, Matter



The X9001879-W3DFAB is an external hinged dipole antenna delivers the key needs of device designers for higher functionality and performance. This dipole antenna designed for superior performance in the 2.4 GHz, 5 GHz, and 6 GHz bands supporting both Wi-Fi 6 and Wi-Fi 6E. This antenna can be mounted easily straight or at right angle to the device via a FAKRA-A connector.

Extensive RF Experience

Our external antennas are supported by documentation and, when needed, by the expertise of RF engineers who have integrated hundreds of antenna designs into wireless devices.

Global Operations & Design Support

KYOCERA AVX's global operations encompass an integrated network of design centers that provide local customer support.

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KEY BENEFITS

Quicker Time-to-Market

Standard parts means fewer design cycles allowing for faster production times.

Best in Class Performance

External antennas are designed to maintain high efficiency in a variety of device configurations.

Great Flexibility

Standard connector to makes easy set-up.

Environmental Compliance

Products are the latest RoHS version compliant.

APPLICATIONS

- Smart Home devices
- networking / Remote Access
- Gateway Monitoring
- Sensing & remote Asset Tracking
- monitoring
- Healthcare(FDA Class I) Applications
- IoT, Industrial

Electrical Specifications

Typical Characteristics measured in Free Space tested and 90° bent position

Frequency (GHz)	2.400 – 2.485	5.150 – 5.850	5.925– 7.125
VSWR	< 2.0:1		< 3.5:1
Peak Gain	1.9 dBi	4.8 dBi	4.4 dBi
Average Efficiency	66%	66%	57%
Polarization	Linear		
Feed Point Impedance	50 ohm		

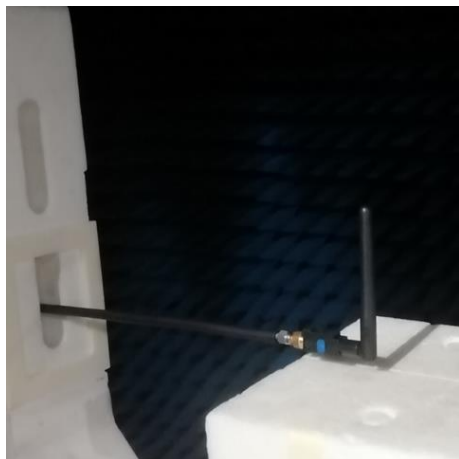
Mechanical Specifications

Ordering Part Number	X9001879-W3DFAB
Dimensions (mm)	124.2 ± 2.0 straight height 87.5 ± 2.0 bent height 7.8 ± 0.1 diameter
Connector Type	FAKRA-A
Weight (grams)	15
Hinge	Foldable 90° at the hinge level
Color	Black
Operating Temperature (°C)	-40 to +70
IP Rating	IP65
Additional Resources	Download 3D Fit File

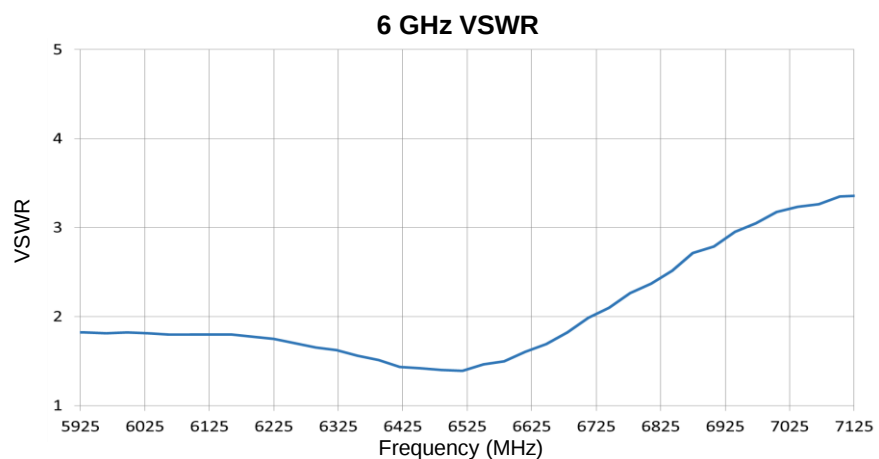
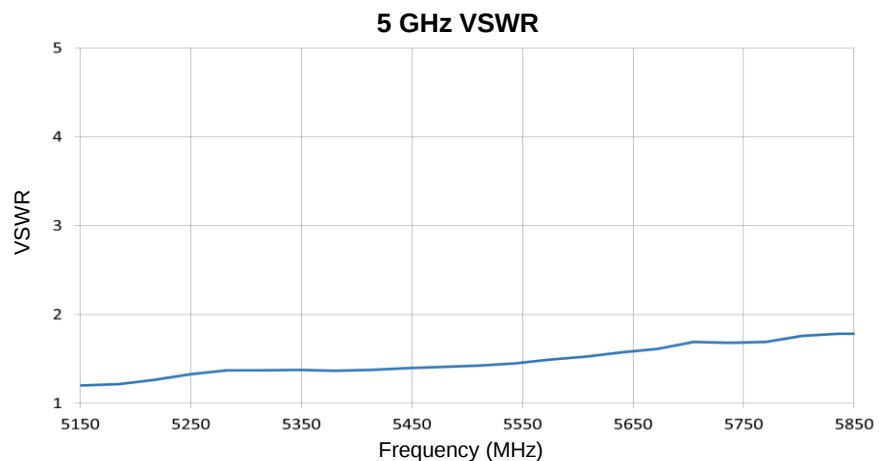
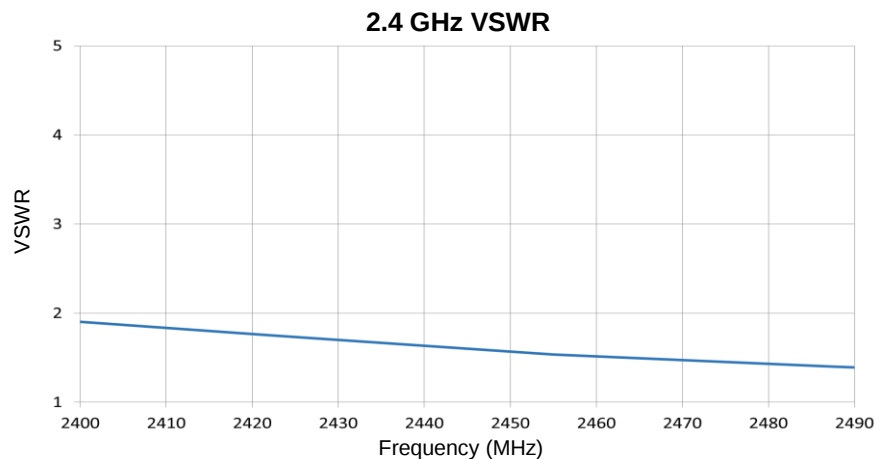
2.4 / 5 / 6 GHz External Wi-Fi 6 & Wi-Fi 6E KYOCERA AVX Antenna Specifications
KYOCERA AVX produces a wide variety of standard and custom antennas to meet user needs

VSWR Plots

Typical performance measured in free space



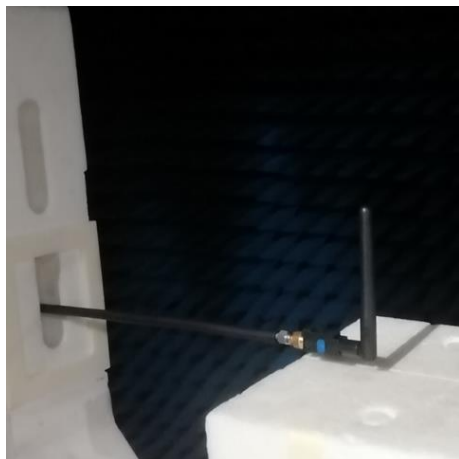
X9001879-W3DFAB 90° bent position



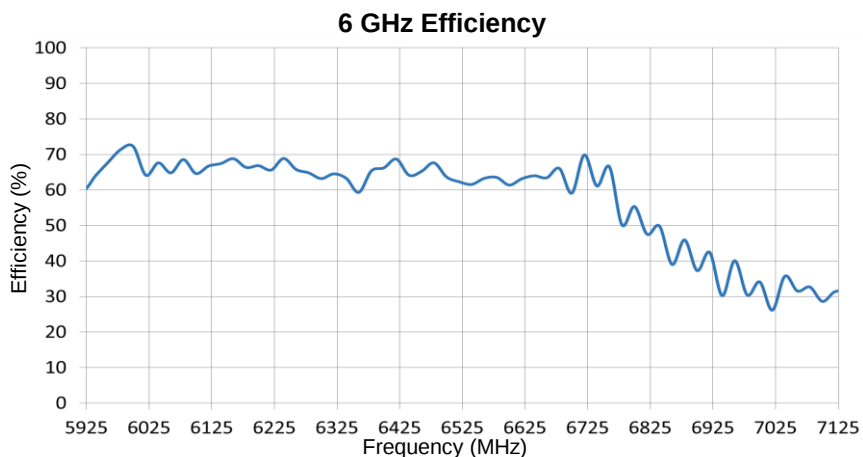
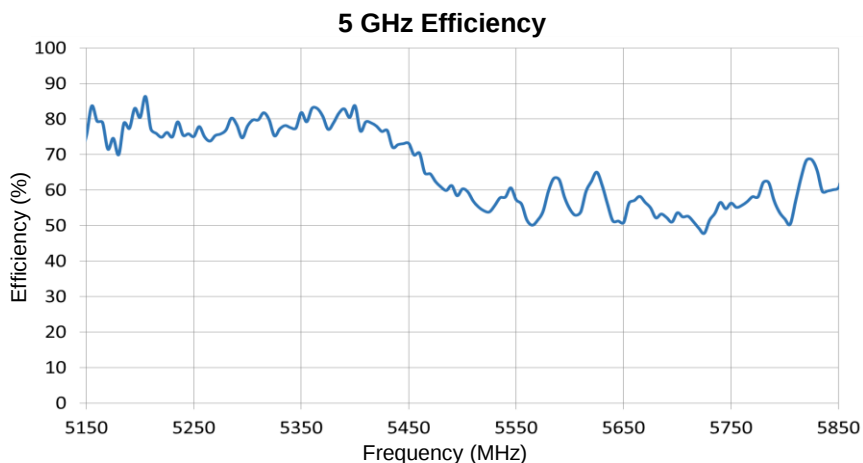
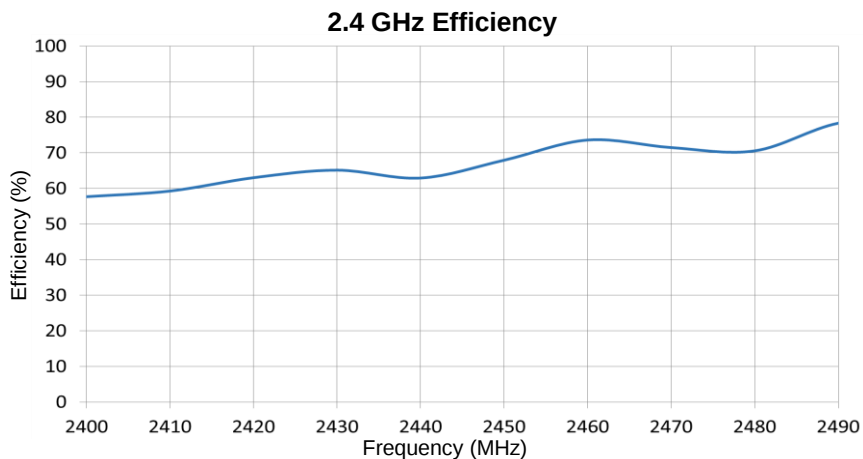
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Efficiency Plots

Typical performance measured in free space



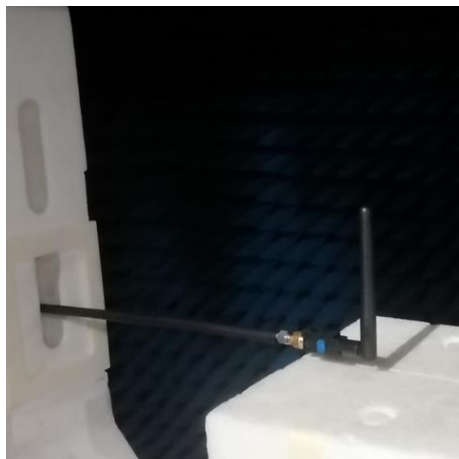
X9001879-W3DFAB 90° bent position



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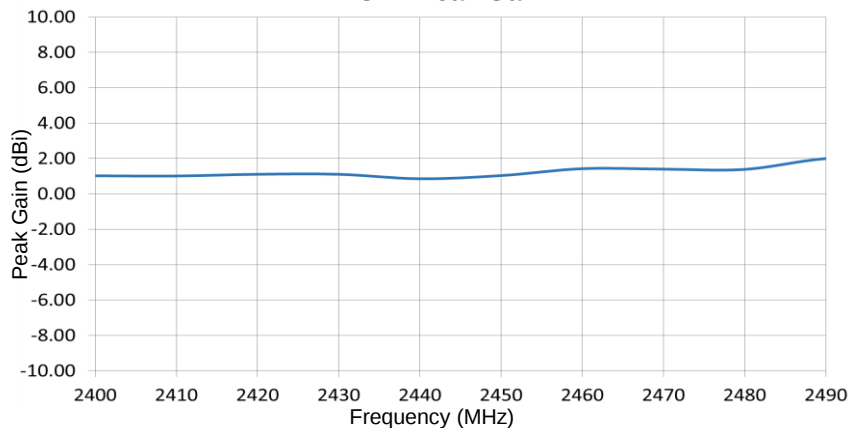
Peak Gain Plots

Typical performance measured in free space

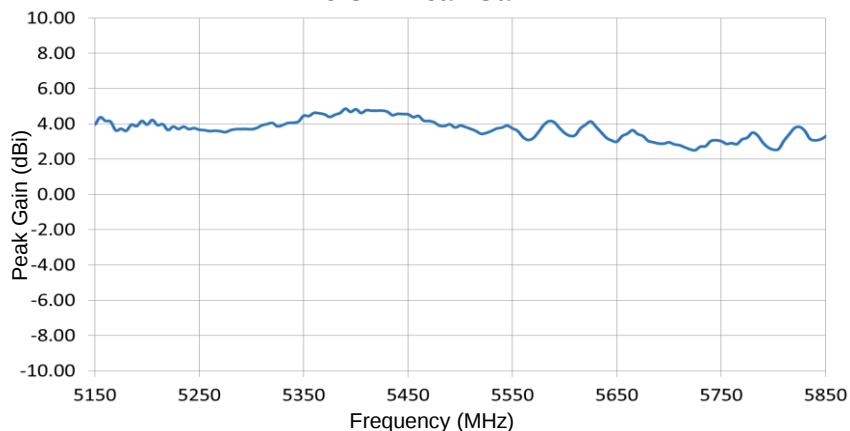


X9001879-W3DFAB 90° bent position

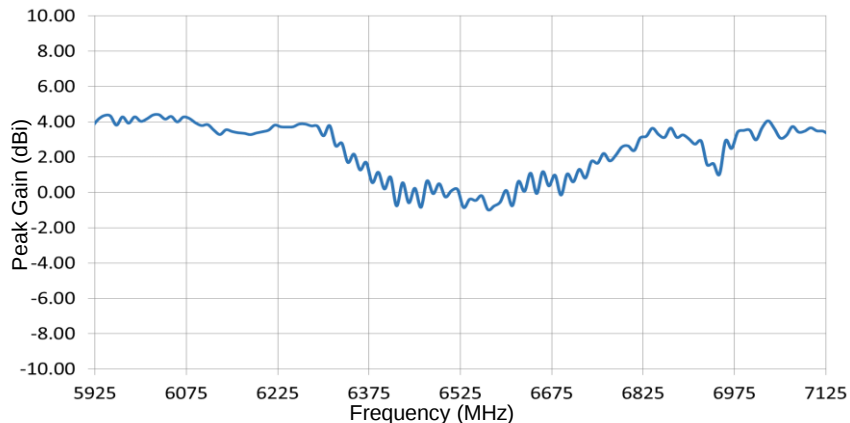
2.4 GHz Peak Gain



5 GHz Peak Gain



6 GHz Peak Gain



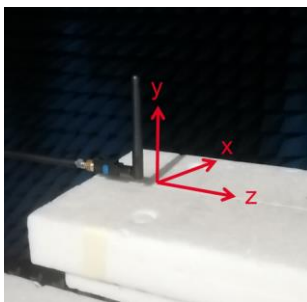
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Radiation Patterns Plots

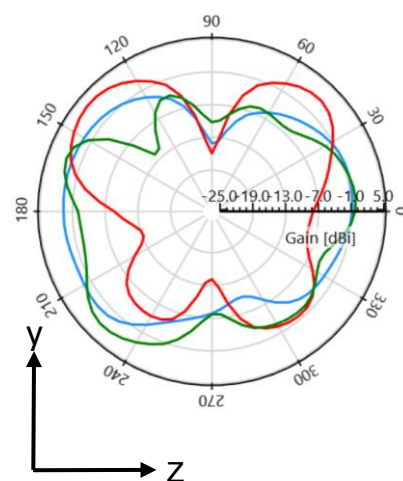
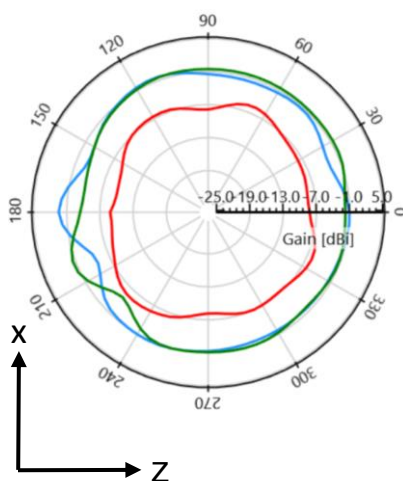
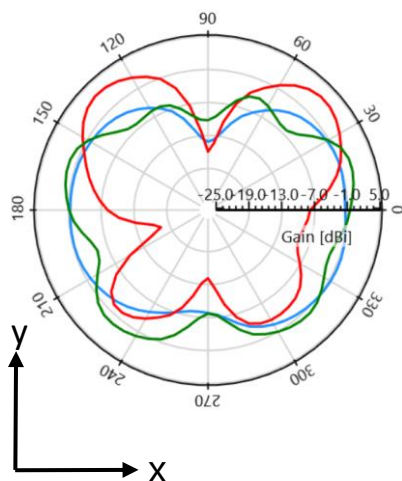
Typical performance measured in free space, and in 90° bent position

Measured at 2440 MHz, 5500 MHz, 6520 MHz

- 2440 MHz
- 5500 MHz
- 6520 MHz



Measured at 2440 MHz,
5500 MHz, 6520 MHz

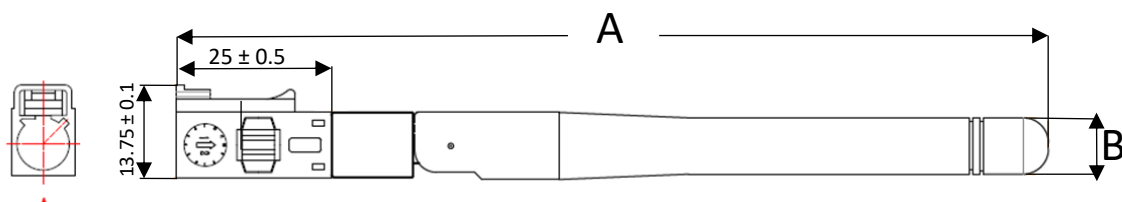


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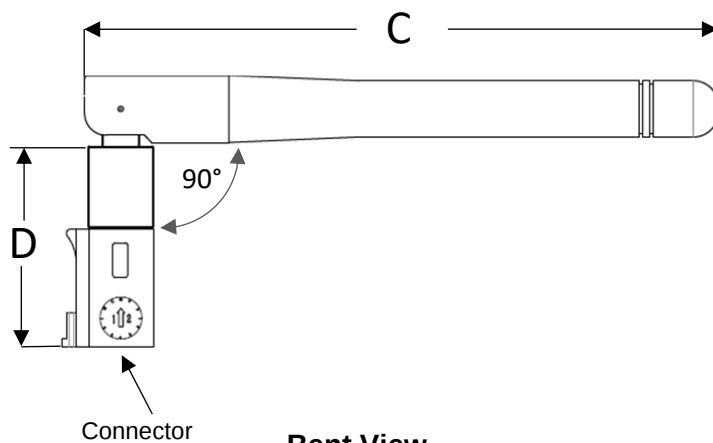
Mechanical Specifications

Typical antenna dimensions in mm

Part Number	A	B	C	D	Color	Connector
X9001879-W3DFAB	124.2 ± 2.0	7.8 ± 0.1	87.5 ± 2.0	36.7 ± 0.5	Black	FAKRA-A



Straight View



Bent View

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Additional Resources

3D Fit File:

https://www.kyocera-avx.com/download/antennas/ME-FIT/X9001879_3D-fit.zip