

# 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



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.

### External Hinged Wi-Fi 6 & Wi-Fi 6E with FAKRA-A connector

2.4 GHz, 5 GHz, 6 GHz

#### 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

- Internet of Things (IoT) devices
- Smart Home networking / Gateway
- Sensing and remote monitoring
- Healthcare devices
- M2M & Industrial IoT devices
- Remote Access Monitoring
- Asset Tracking

### 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		

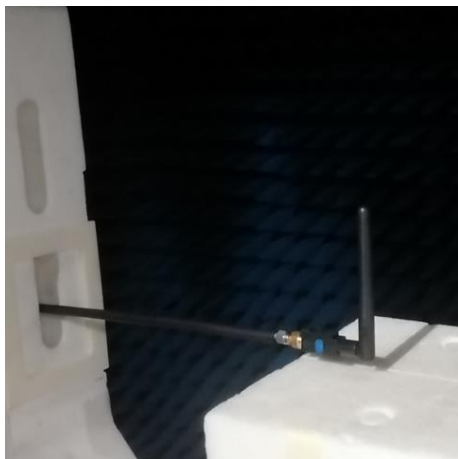
### Mechanical Specifications

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

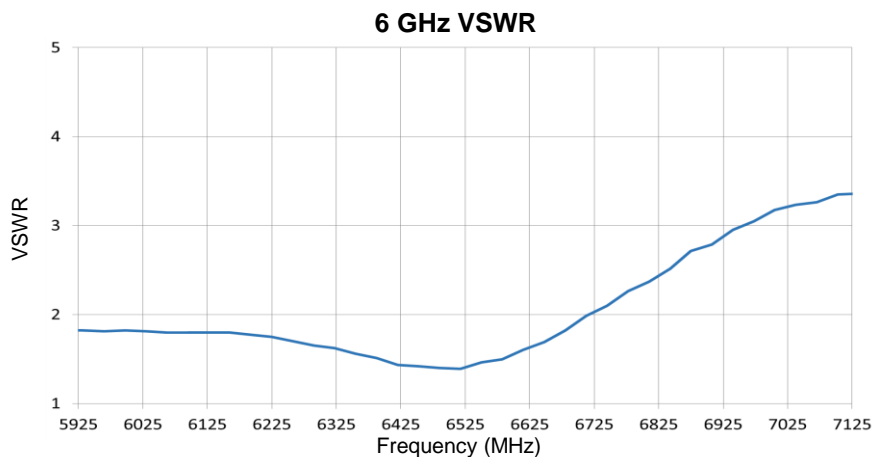
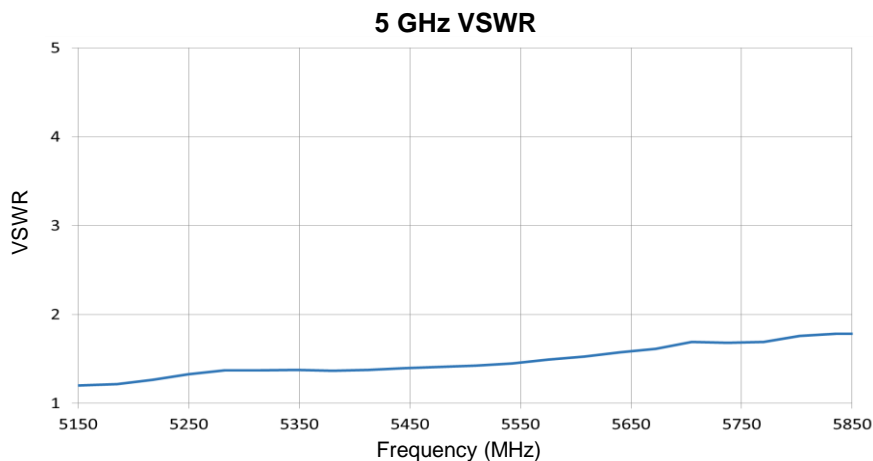
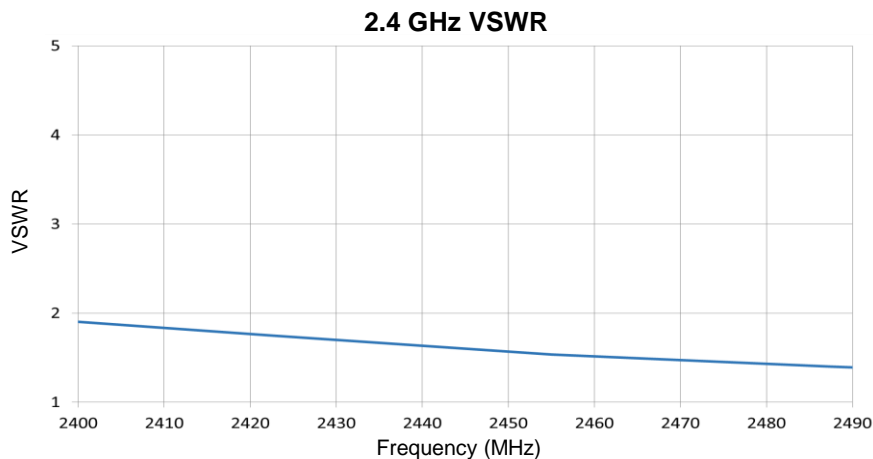
**2.4 / 5 / 6 GHz External Wi-Fi 6 & Wi-Fi 6E KYOCERA AVX Antenna Specifications**  
 KYOCERA AVX produces a wide variety of standard and custom antennas to meet user needs

**VSWR Plots**

Typical performance measured in free space



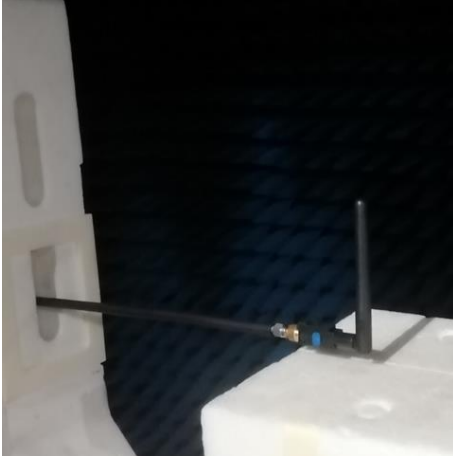
X9001879-W3DFAB 90° bent position



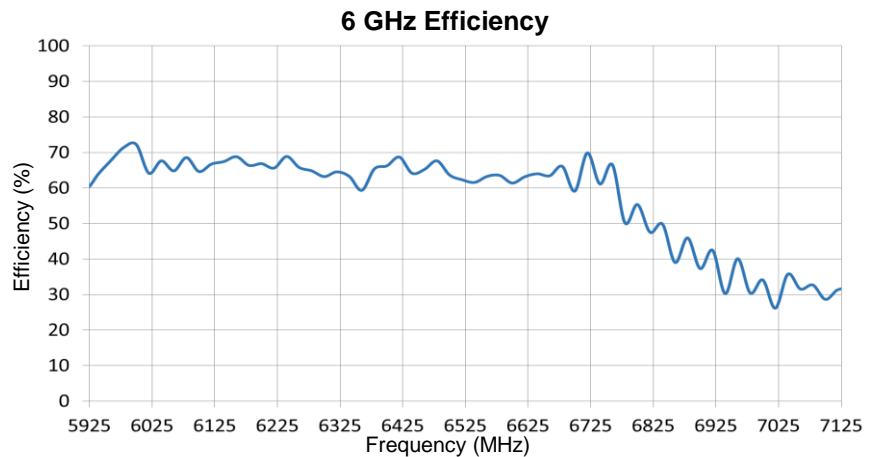
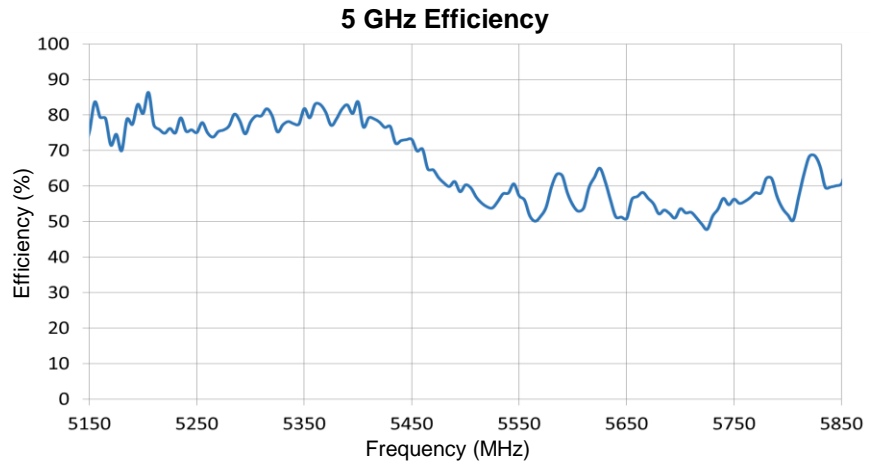
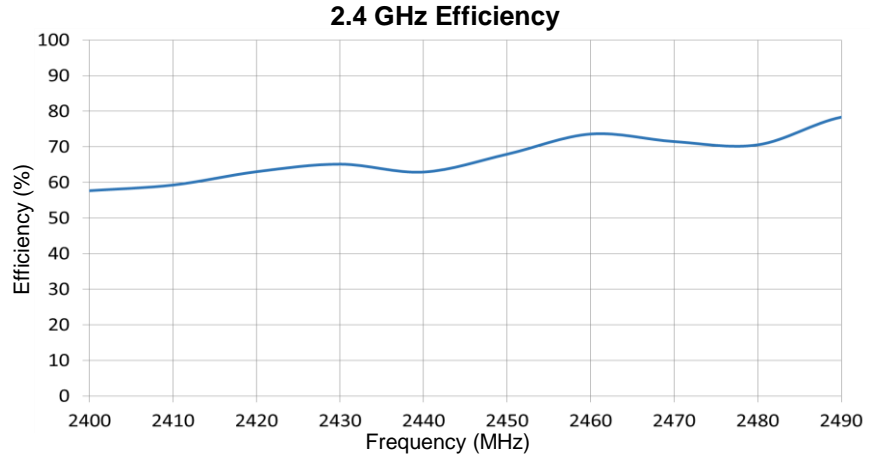
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**Efficiency Plots**

Typical performance measured in free space



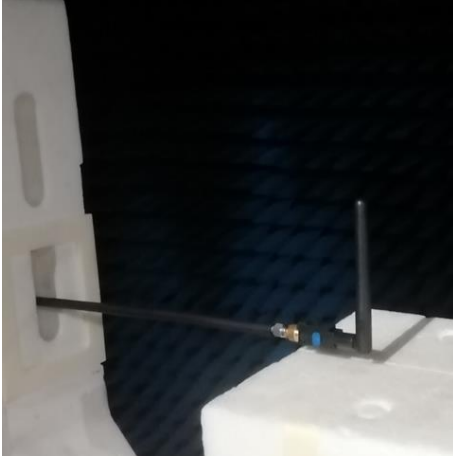
X9001879-W3DFAB 90° bent position



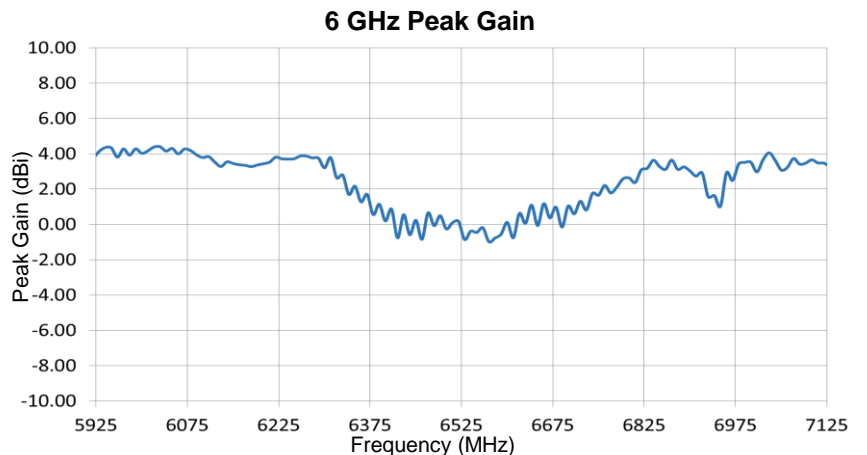
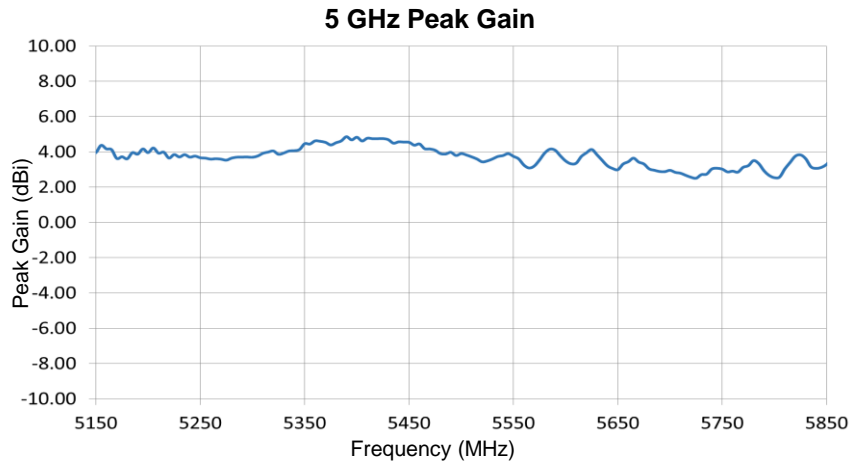
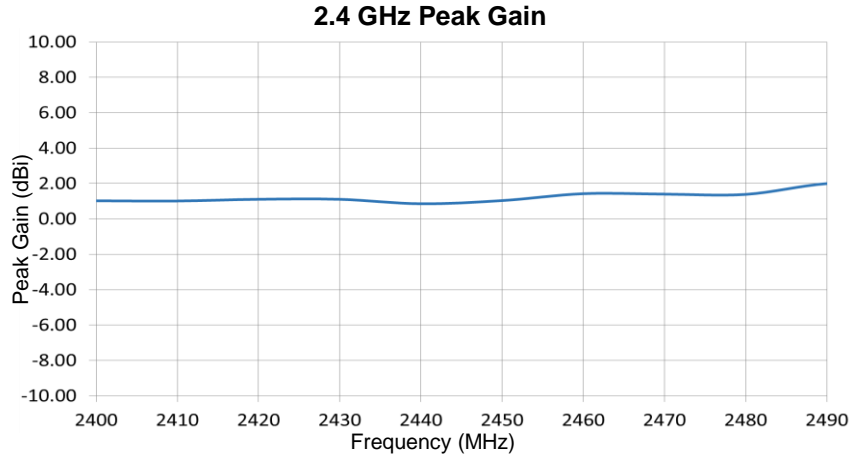
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**Peak Gain Plots**

Typical performance measured in free space



X9001879-W3DFAB 90° bent position

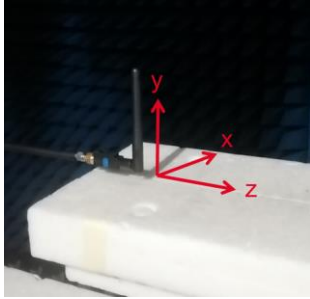


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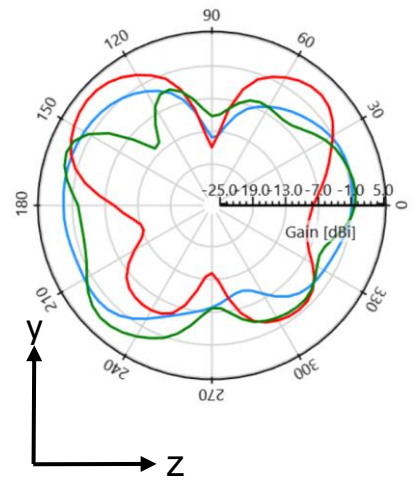
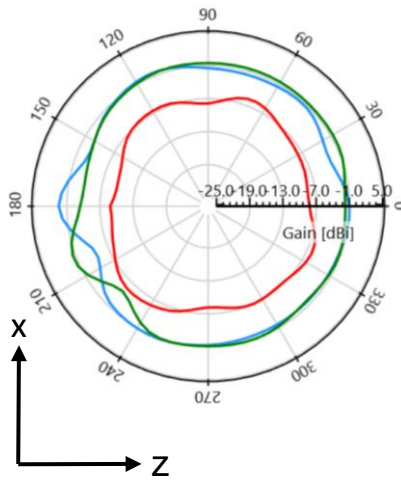
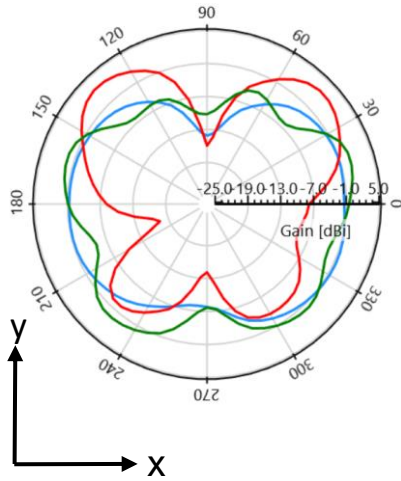
**Radiation Patterns Plots**

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

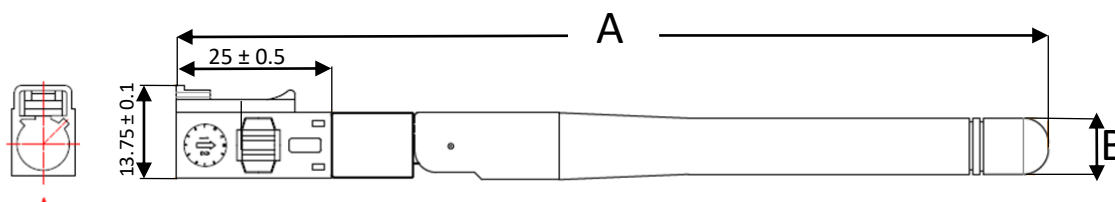


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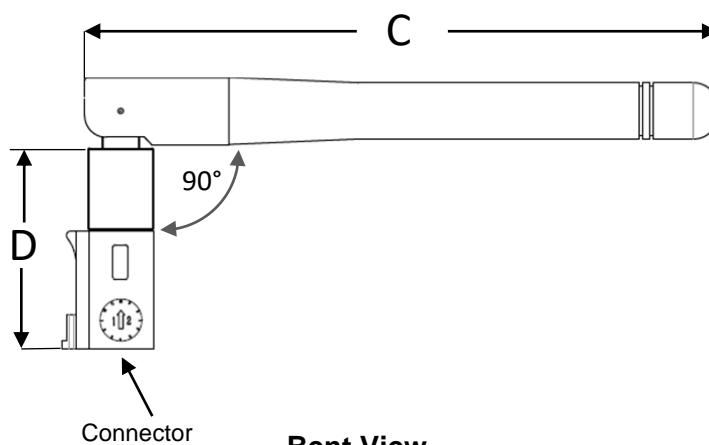
**Mechanical Specifications**

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**