

# Part No. 9000352F0

## Wi-Fi 6E FPC Antenna For Metal Surfaces

2400 – 2480 MHz / 5150 – 5850 MHz / 5925 – 7125 MHz

Supports: Wi-Fi applications, Bluetooth, Zigbee, WLAN



KYOCERA AVX's FPC 9000352F0 WLAN antennas deliver on the key needs of device designers for higher functionality and performance in smaller/thinner designs. These innovative antennas provide compelling advantages for 2.4 GHz, 5.0 GHz, 6.0 GHz, and 7.0 GHz enabled devices.

### Real-World Performance and Implementation

The 9000352F0 is offered in many standard cable lengths ranging from 50 mm up to 1000 mm. Standard connector options offered in MHF, MHFIII and MHF4L compatibility.

It is designed to be placed over metal surfaces, with only 5 mm of the FPC antenna exceeding the surface.

### ANTENNA FPC WLAN

2400 - 2480 MHz,  
5150 - 5850 MHz,  
5925 - 7125 MHz

#### KEY BENEFITS

##### Reduced Costs and Time-to-Market

Standard antenna eliminates design fees and cycle time associated with a custom solution; getting products to market faster.

##### Greater Flexibility with Unique Form Factors

KYOCERA AVX technology helps you deliver more advanced ergonomic designs without adverse impact on product performance.

##### Environmental Compliance

Products are the latest RoHS version compliant.

#### APPLICATIONS

- Embedded design
- Smart Home
- Healthcare
- Digital Signage
- Telematics
- Industrial devices
- Smart Grid

### Electrical Specifications

Typical Characteristics, using with 300 mm cable.

Frequency (MHz)	2400 - 2480	5150 - 5850	5925 - 7125
Average Efficiency	55%	59%	40%
Peak Gain	3.2 dBi	3 dBi	2.6 dBi
VSWR Match	3:1 max	3:1 max	3:1 max
Feed Point Impedance	50 $\Omega$ unbalanced		
Polarization	Linear		
Power Handling	2 Watts CW		
Radiation Pattern	Omni-directional		

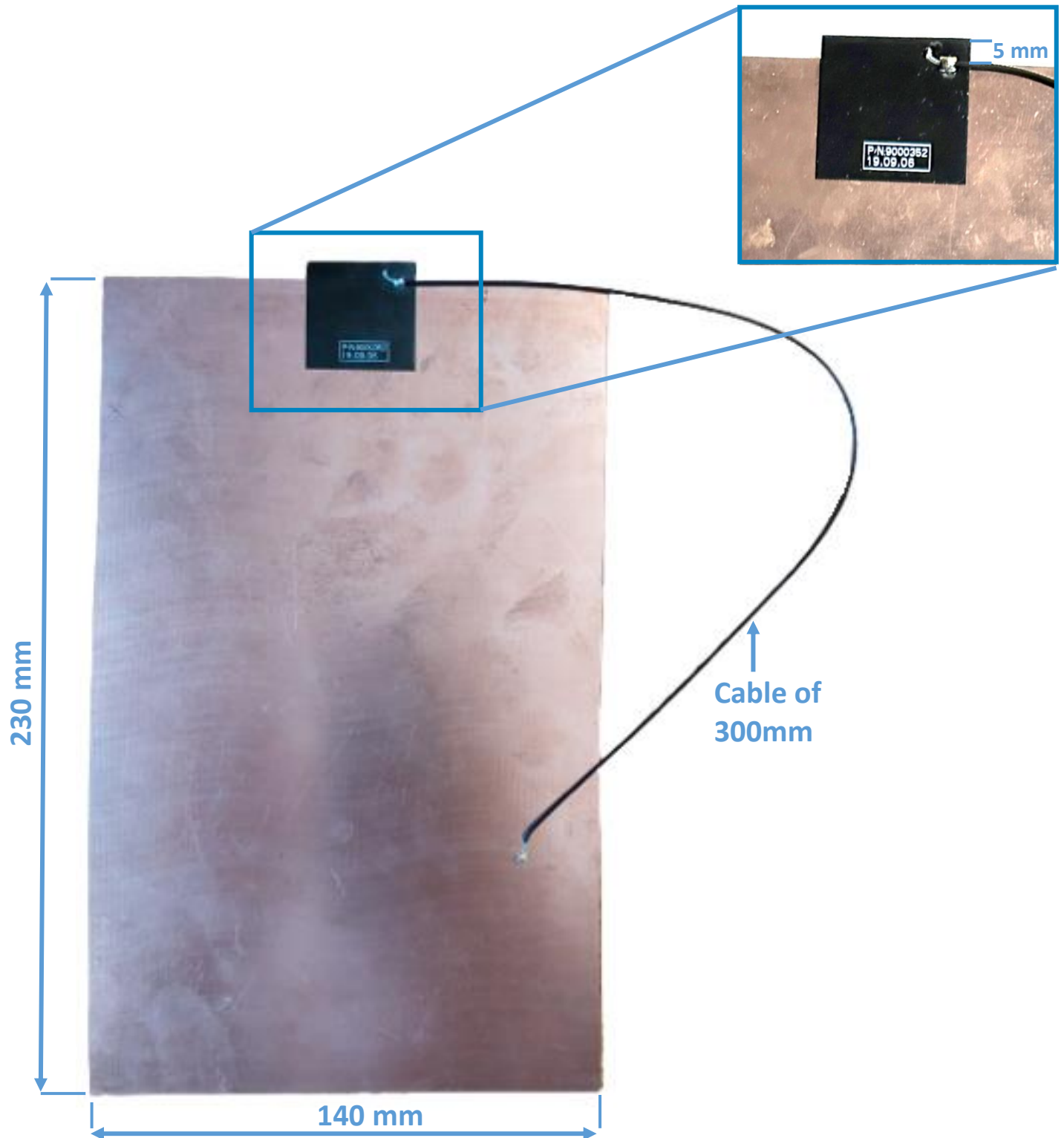
### Mechanical Specifications & Ordering Part Number

Ordering Part #	9000352F0-AA10L0200
Dimensions (mm)	31 x 30.5 x 0.16
Weight (grams)	1.4
Connector / Cable (mm)	MHF, (U.FL compatible connector)
Mounting	FPC + ADHESIVE 3M 467
Standard Compliance	RoHS

Wi-Fi 6E FPC For Metal Surfaces Antenna Specifications.  
KYOCERA AVX produces a wide variety of standard and custom antennas to meet user needs.

**Test Setup**

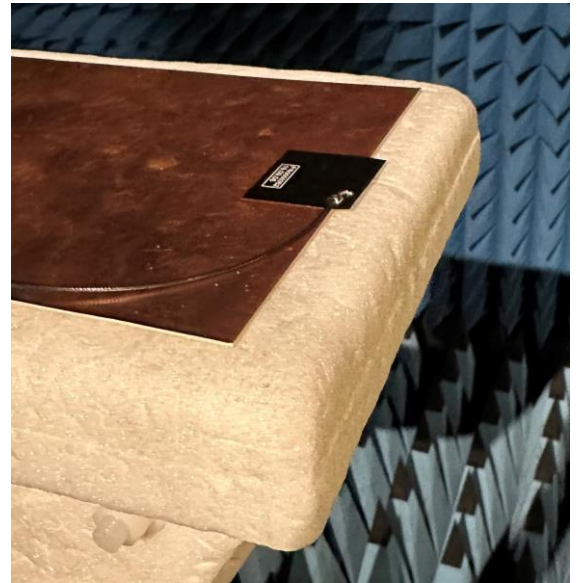
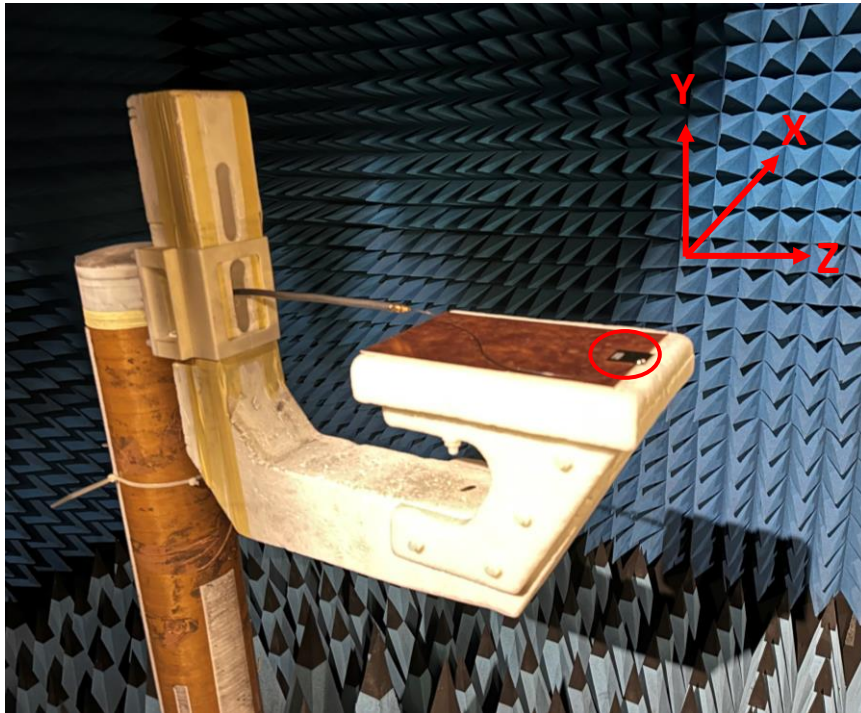
Antenna placed over 230x140x0.8mm Metal Surface



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### Test Setup

Typical performance with 300 mm cable

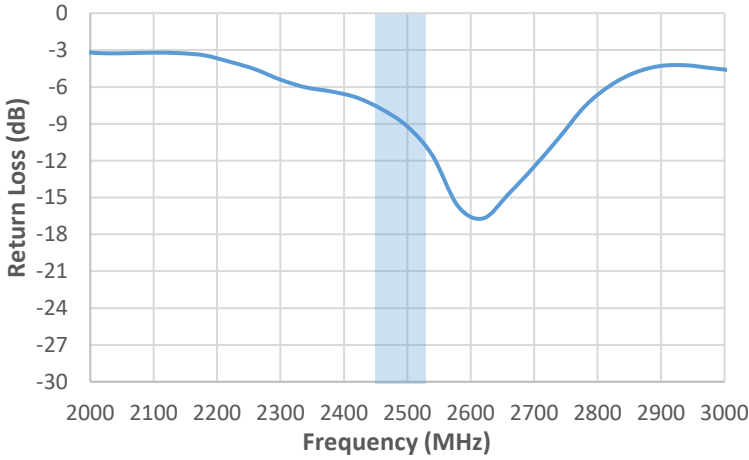


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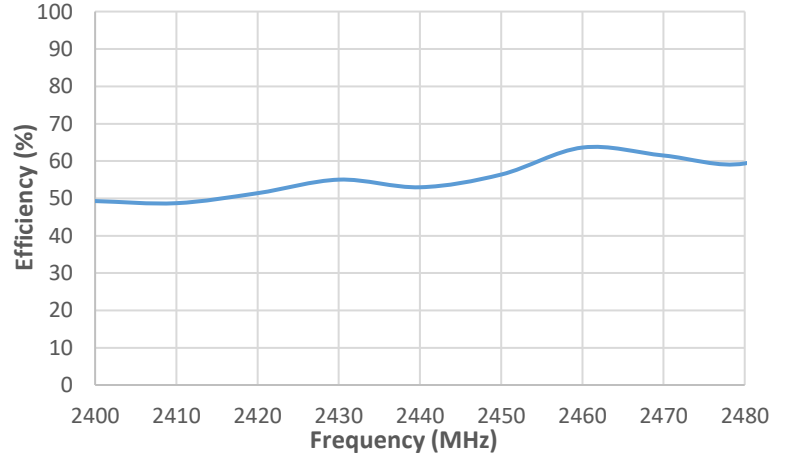
**Return Loss and Efficiency**

Typical performance with 300 mm

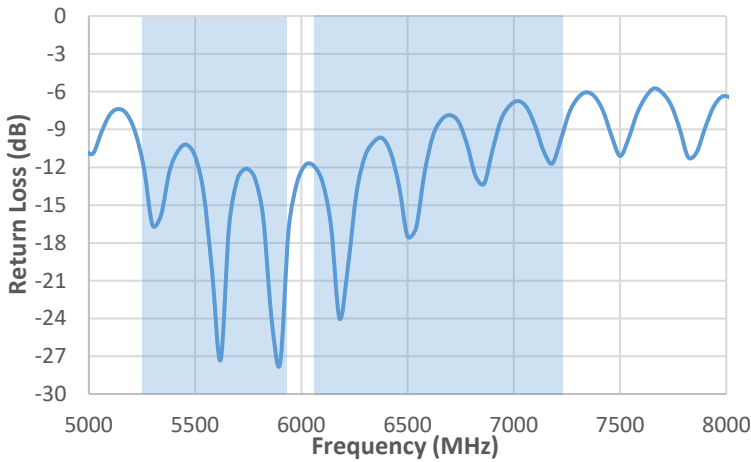
**Return Loss (2400 – 2480 MHz)**



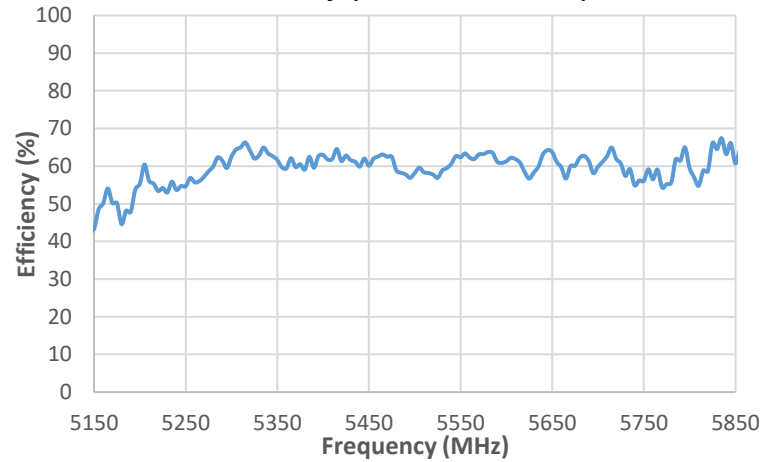
**Efficiency (2400 – 2480 MHz)**



**Return Loss (5150 – 5850 MHz, 5925 - 7125 MHz)**



**Efficiency (5150 – 5850 MHz)**



**Efficiency (5925-7125 MHz)**

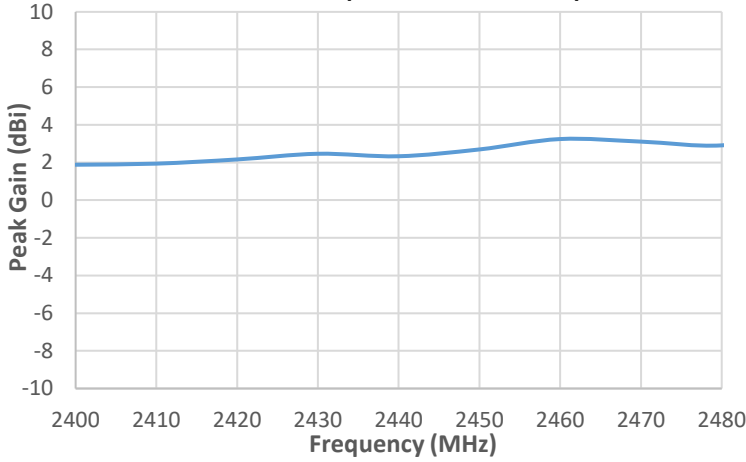


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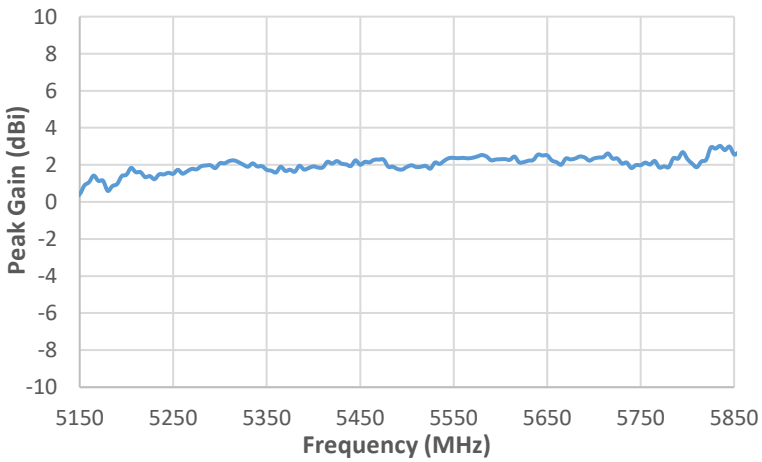
**Peak Gain Plots**

Typical performance with 300 mm

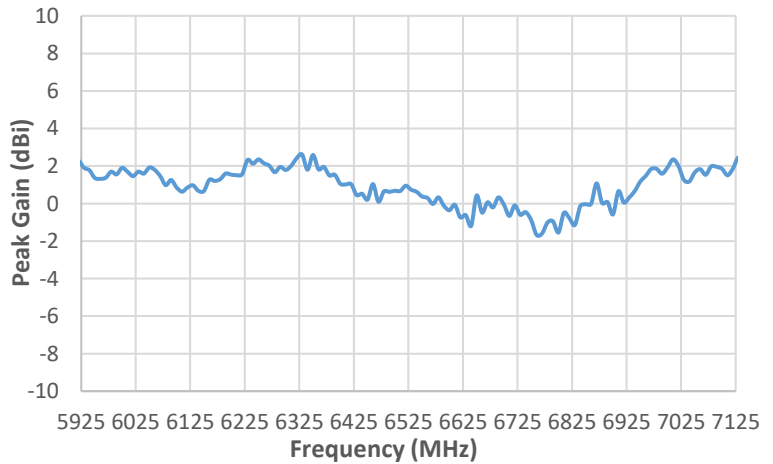
**Peak Gain (2400 – 2480 MHz)**



**Peak Gain (5150 – 5850 MHz)**



**Peak Gain (5925 – 7125 MHz)**

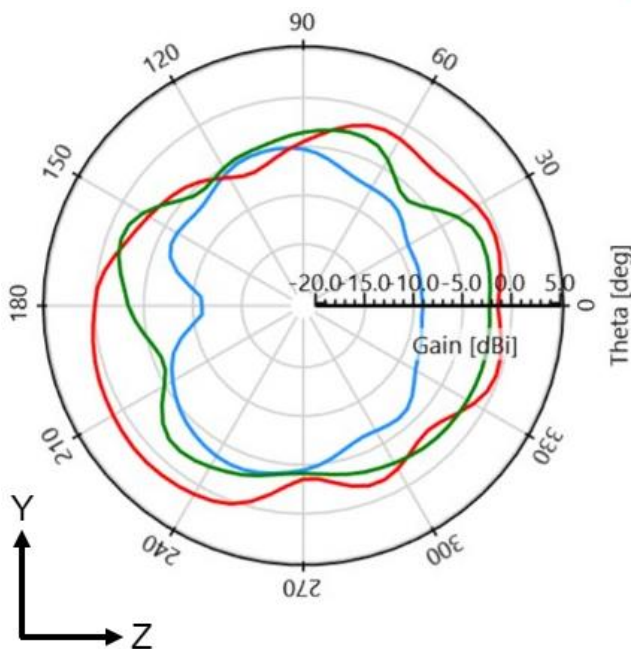
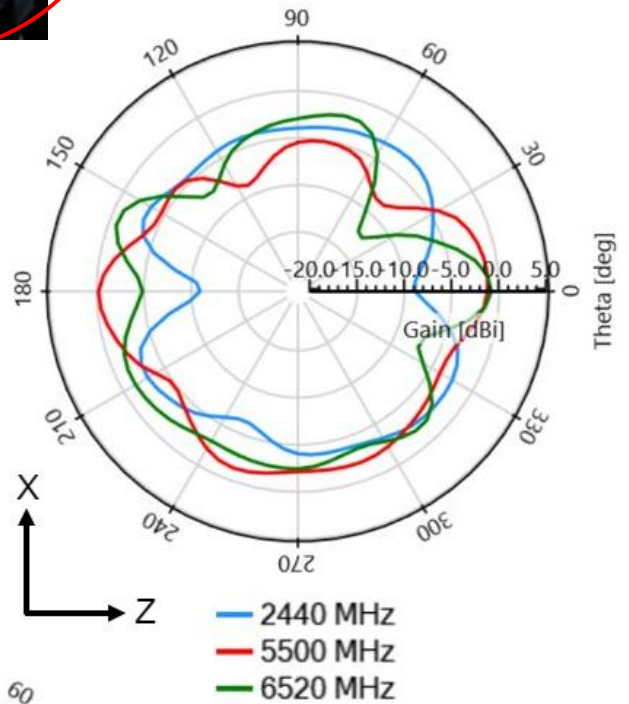
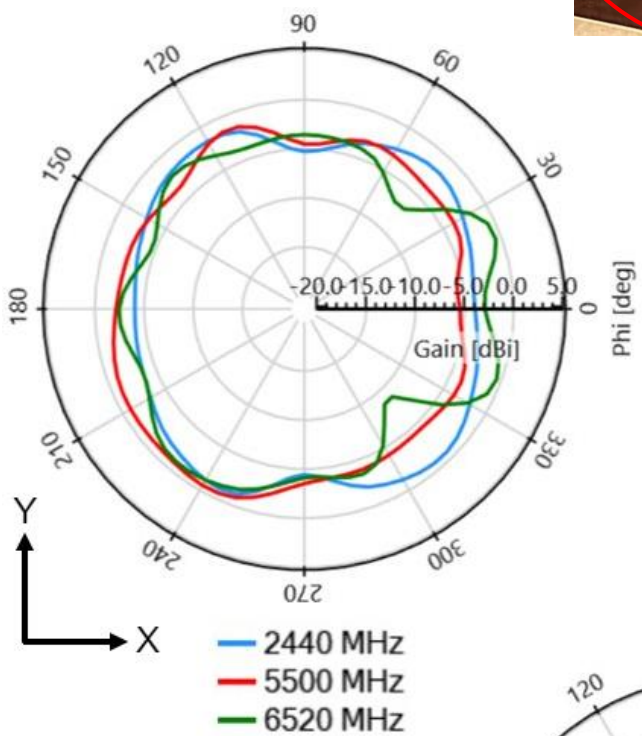
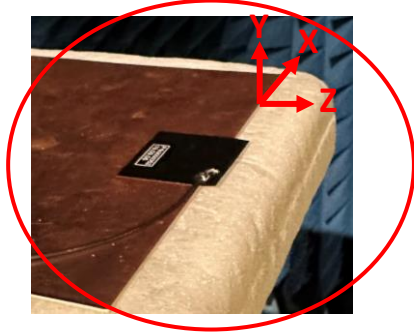




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**Radiation Patterns (2440, 5500, 6520) MHz**

Typical performance with 300 mm

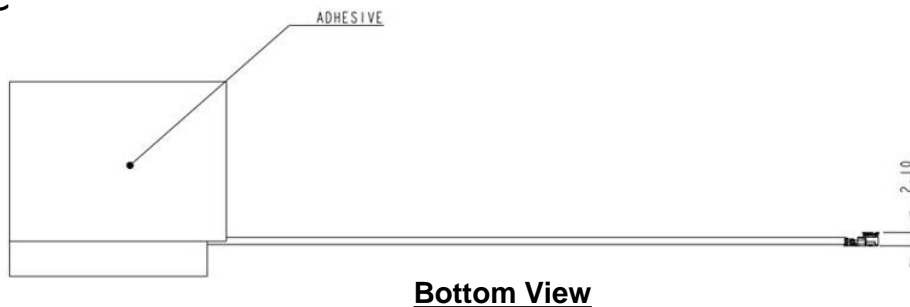


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### Mechanical Dimensions & Ordering Part Numbers

Typical antenna dimensions in mm MHF (U.FL compatible) connector

Part Number	A	B	D
9000352F0-AA10LXXXX	31	30.5	XXXX
9000352F0-AA10L0050	31	30.5	50 ± 3.0
9000352F0-AA10L0100	31	30.5	100 ± 3.0
9000352F0-AA10L0150	31	30.5	150 ± 4.0
9000352F0-AA10L0200	31	30.5	200 ± 4.0
9000352F0-AA10L0250	31	30.5	250 ± 4.0
9000352F0-AA10L0300	31	30.5	300 ± 5.0
9000352F0-AA10L0400	31	30.5	400 ± 5.0
9000352F0-AA10L0500	31	30.5	500 ± 7.0
9000352F0-AA10L0600	31 <td 30.5	600 ± 7.0	
9000352F0-AA10L1000	31	30.5	1000 ± 1%

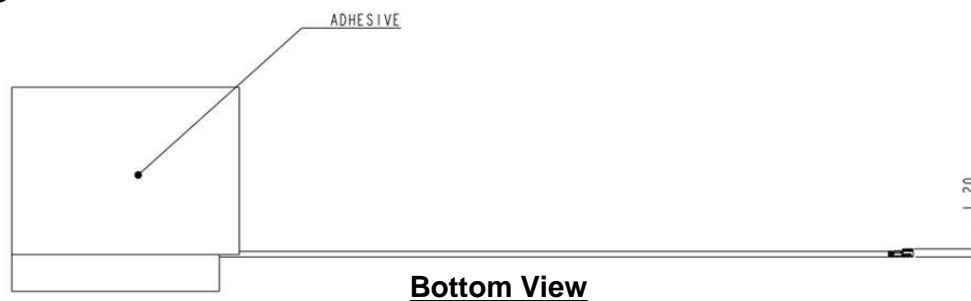


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### Mechanical Dimensions & Ordering Part Numbers

Typical antenna dimensions in mm MHFIII (W.FL compatible) connector

Part Number	A	B	D
9000352F0-AE10LXXXX	31	30.5	XXXX
9000352F0-AE10L0050	31	30.5	50 ± 3.0
9000352F0-AE10L0100	31	30.5	100 ± 3.0
9000352F0-AE10L0150	31	30.5	150 ± 4.0
9000352F0-AE10L0200	31	30.5	200 ± 4.0
9000352F0-AE10L0250	31	30.5	250 ± 4.0
9000352F0-AE10L0300	31	30.5	300 ± 5.0
9000352F0-AE10L0400	31	30.5	400 ± 5.0
9000352F0-AE10L0500	31	30.5	500 ± 7.0
9000352F0-AE10L0600	31 <td 30.5	600 ± 7.0	
9000352F0-AE10L1000	31	30.5	1000 ± 1%





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### Mechanical Dimensions & Ordering Part Numbers

Typical antenna dimensions in mm MHF4L connector

Part Number	A	B	D
9000352F0-AC10LXXXX	31	30.5	XXXX
9000352F0-AC10L0050	31	30.5	50 ± 3.0
9000352F0-AC10L0100	31	30.5	100 ± 3.0
9000352F0-AC10L0150	31	30.5	150 ± 4.0
9000352F0-AC10L0200	31	30.5	200 ± 4.0
9000352F0-AC10L0250	31	30.5	250 ± 4.0
9000352F0-AC10L0300	31	30.5	300 ± 5.0
9000352F0-AC10L0400	31	30.5	400 ± 5.0
9000352F0-AC10L0500	31	30.5	500 ± 7.0
9000352F0-AC10L0600	31	30.5	600 ± 7.0
9000352F0-AC10L1000	31	30.5	1000 ± 1%

