# Part No. X9001958

## External Wi-Fi Dual-Band Swivel Antenna

**(2400 - 2480; 5150 - 5850) MHz**

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



### Wi-Fi External Antenna

2400 - 2500 MHz
5150 - 5850 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**

Comply with latest RoHS requirements

### APPLICATIONS

- Heathcare applications
- Smart Home networking / Gateway
- M2M, Industrial devices
- IoT devices
- Tracking
- Remote Access Monitoring
- Sensing and Remote monitoring

KYOCERA AVX's X9001958 is a high-performing external Wi-Fi dual-band swivel antenna which includes cable and connector.

The antenna can be assembled with the sleeve (PN 9000062) for easier implementation. Different cable lengths and connector types are available.

### Global Operations & Design Support

KYOCERA AVX's global operations support an integrated network of design centers that can take projects from concept to production.

### Extensive RF Experience

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

### Electrical Specifications

Typical X9001958 performance with 100 mm cable

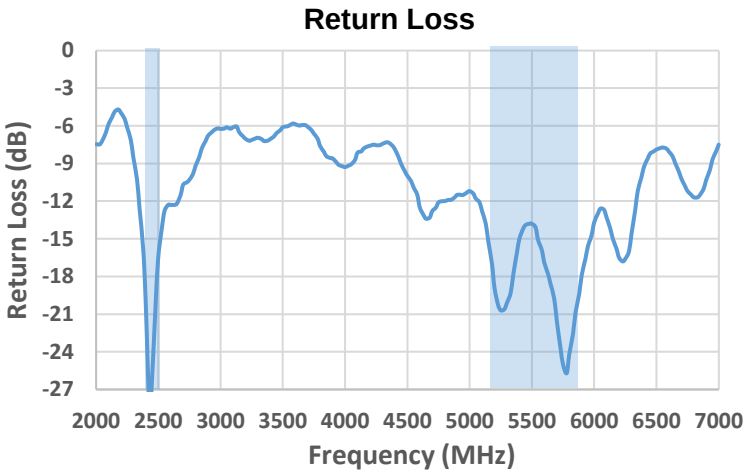
| Frequency (MHz) | 2400 - 2480 | 5150 - 5850 |
|---|---|---|
| Peak Gain | 2.7 dBi | 4.7dBi |
| Average Efficiency | 64% | 66% |
| VSWR Match | ≤ 1.92 | |
| Polarization | Vertical | |
| Power Handling | 2 Watt CW | |
| Feed Point Impedance | 50 Ω unbalanced | |

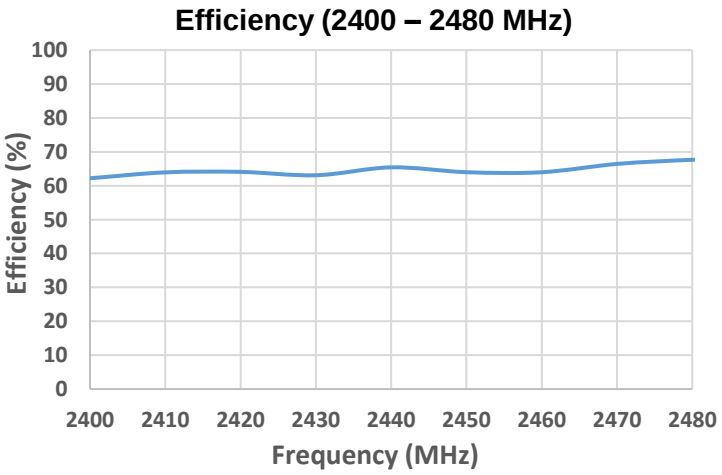
### Mechanical Specifications & Ordering Part Number

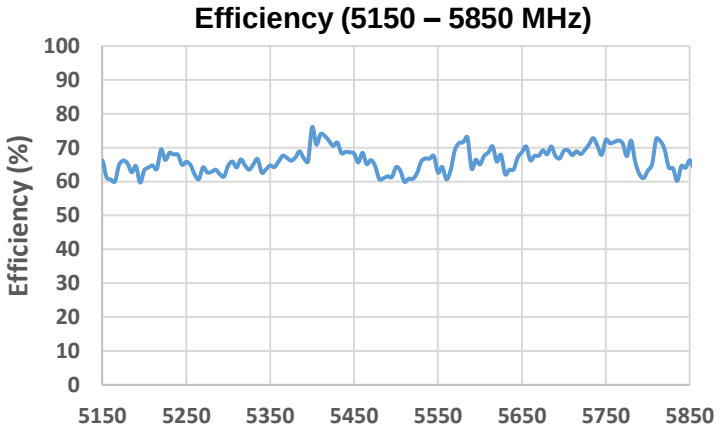
| Ordering Part # | X9001958-W3DHNB0100 |
|---|---|
| Dimensions (mm) | 117 x 5.16 |
| Mounting Type | Direct on device or using a sleeve (PN 9000062) (Refer to Appendix 1) |
| Packaging | Tape and Reel |
| Storage Temperature/ Humidity (Sealed shipping package) | +5°C to +35°C 45~75% |
| Operating Temperature | -20°C to +70°C |
| Weight (grams) | 7.8 |
| Connector / Cable Length | MHF4L / 100mm |

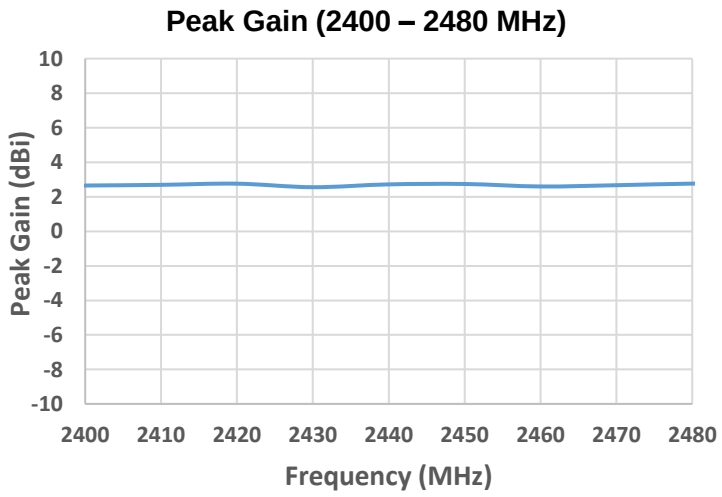
X9001958 External Wi-Fi KYOCERA AVX Embedded Antenna Specifications.
KYOCERA AVX produces a wide variety of standard and custom antennas to meet user needs.

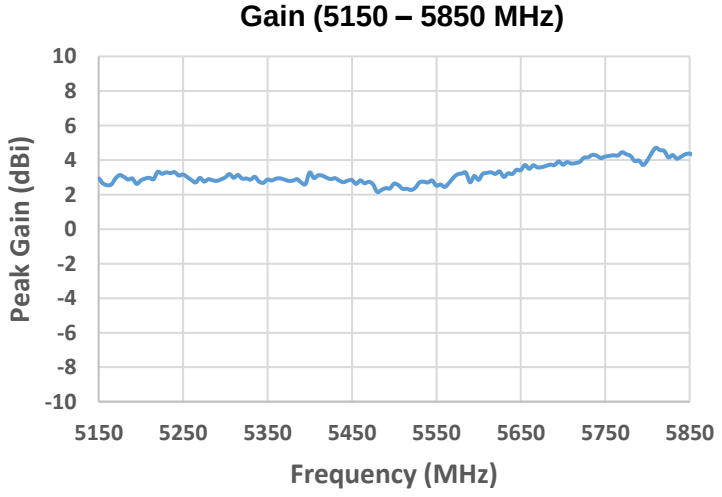
## Return Loss, Efficiency and Peak Gain Plots

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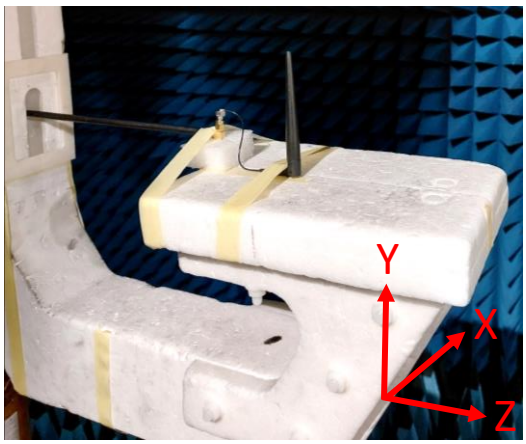
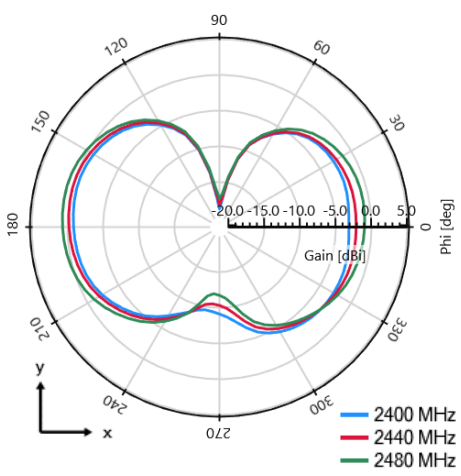
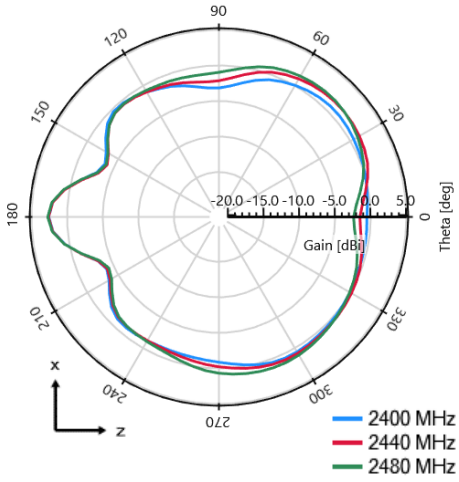
## Antenna Radiation Patterns

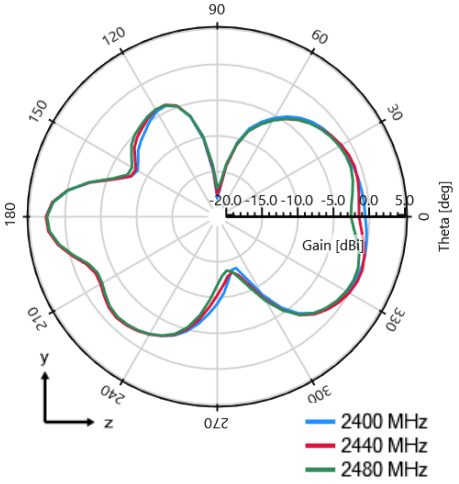
Typical X9001958 performance with 100 mm cable



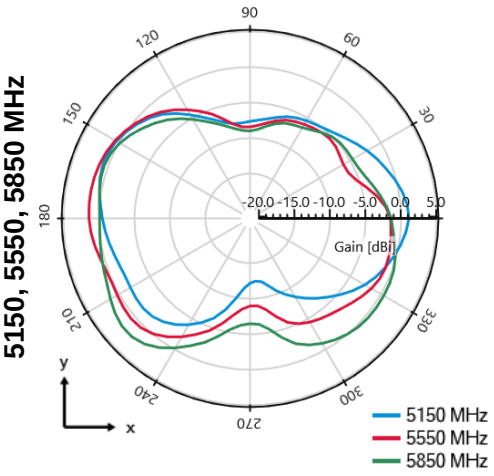

**Measured at 2400, 2440, 2480 MHz**

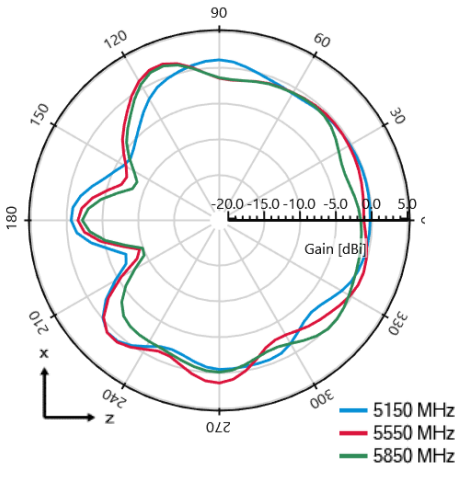


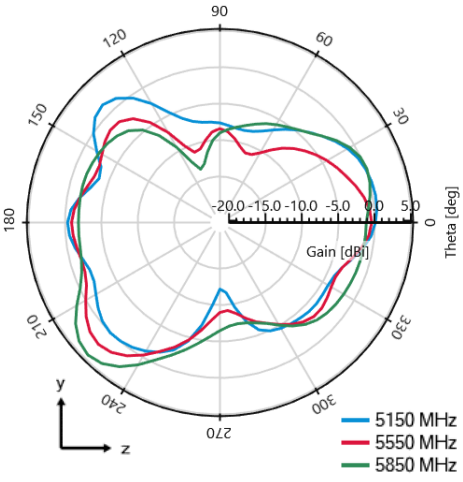




**Measured at 5150, 5550, 5850 MHz**

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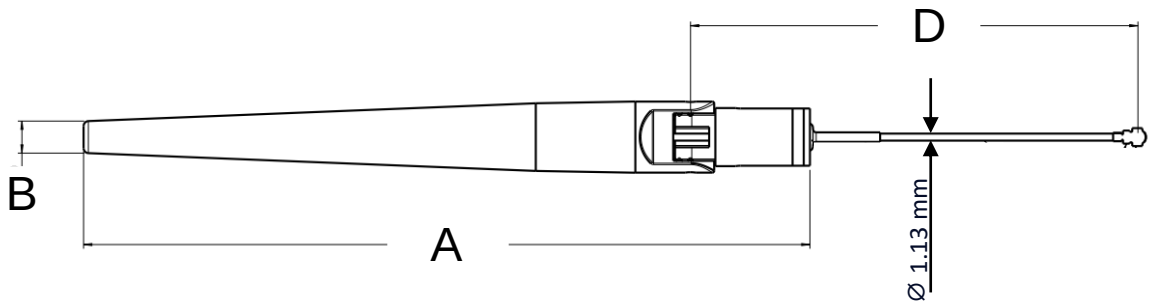
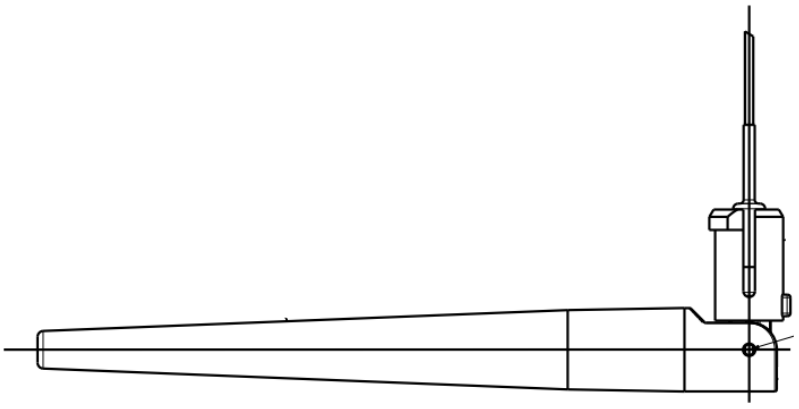
## Mechanical Dimensions - X9001958

Typical antenna dimensions (mm)

| Part Number | A | B | D |
|---|---|---|---|
| X9001958 - W3DHNBXXXX | 117.0 ± 0.2 | 5.16 ± 0.10 | XXXX |
| X9001958 - W3DHNB0050 | 117.0 ± 0.2 | 5.16 ± 0.10 | 50 ± 3.0 |
| X9001958 - W3DHNB0100 | 117.0 ± 0.2 | 5.16 ± 0.10 | 100 ± 3.0 |
| X9001958 - W3DHNB0150 | 117.0 ± 0.2 | 5.16 ± 0.10 | 150 ± 4.0 |
| X9001958 - W3DHNB0200 | 117.0 ± 0.2 | 5.16 ± 0.10 | 200 ± 4.0 |




**Front View (Straight)**



**Side View (90°)**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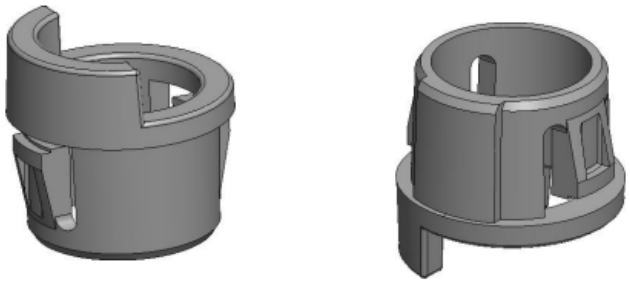
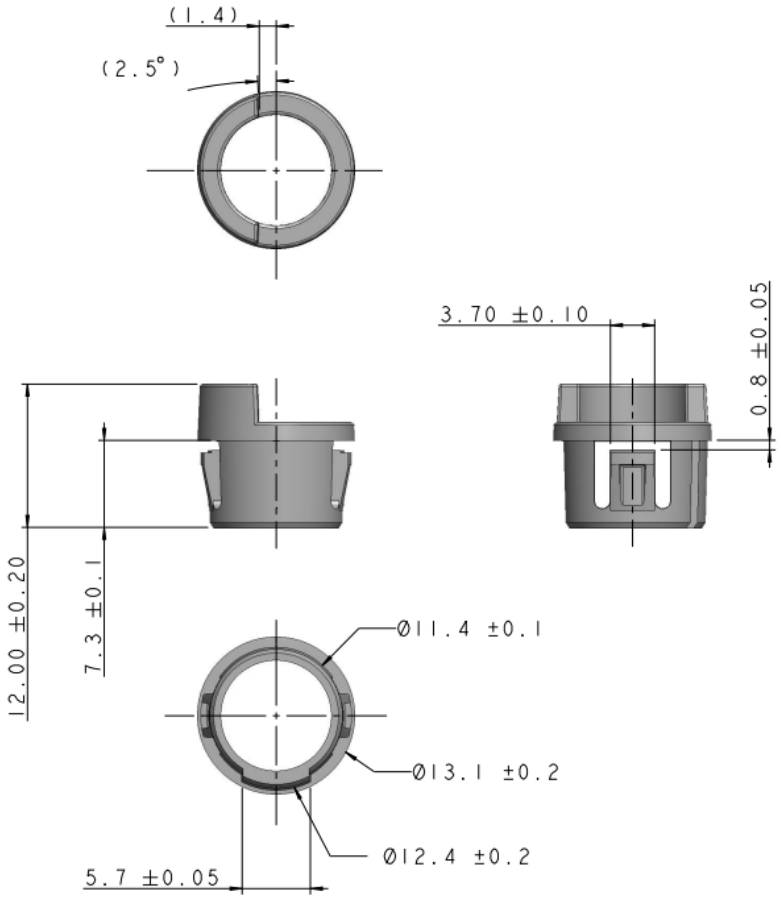
# Appendix 1

## Sleeve Mechanical Dimensions - 9000062

Typical dimensions (mm)



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