

Part No. X9001958

External Wi-Fi Dual-Band Swivel Antenna

(2400 - 2480; 5150 - 5850) MHz

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



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.

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

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

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	

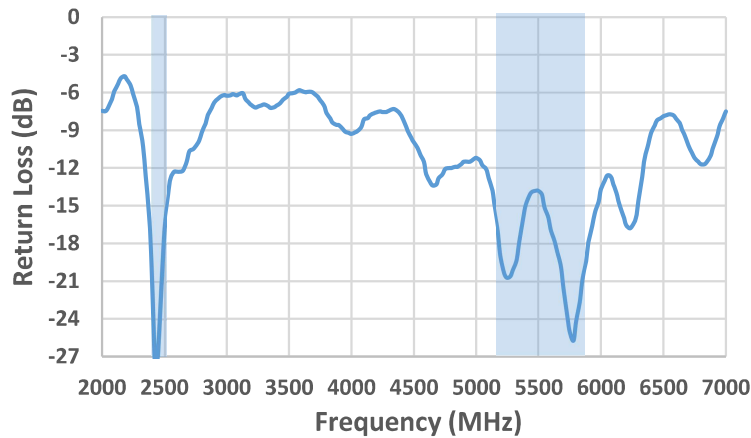
Mechanical Specifications & Ordering Part Number

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

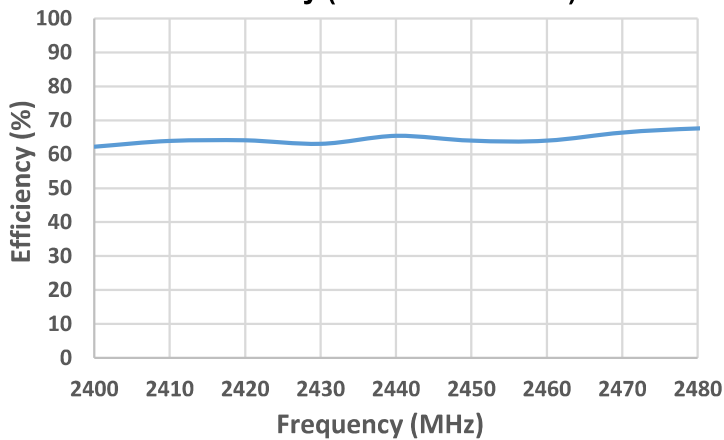
X9001958 External Wi-Fi KYOCERA AVX Embedded Antenna Specifications.
KYOCERA AVX produces a wide variety of standard and custom antennas to meet user needs.

Return Loss, Efficiency and Peak Gain Plots

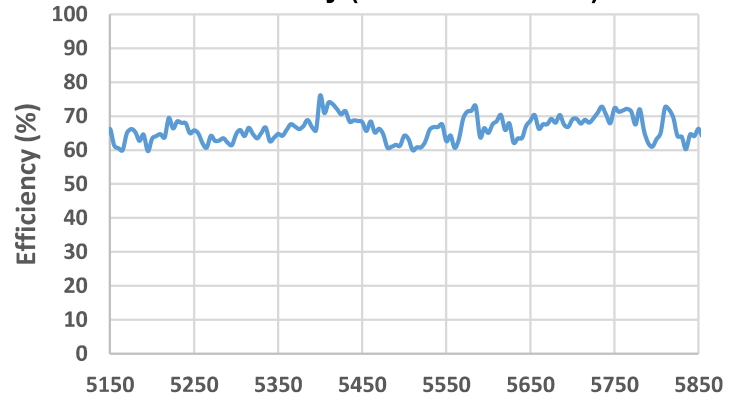
Return Loss



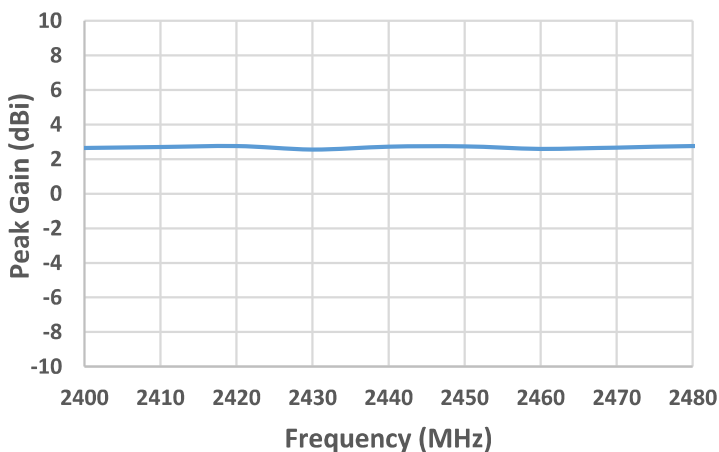
Efficiency (2400 – 2480 MHz)



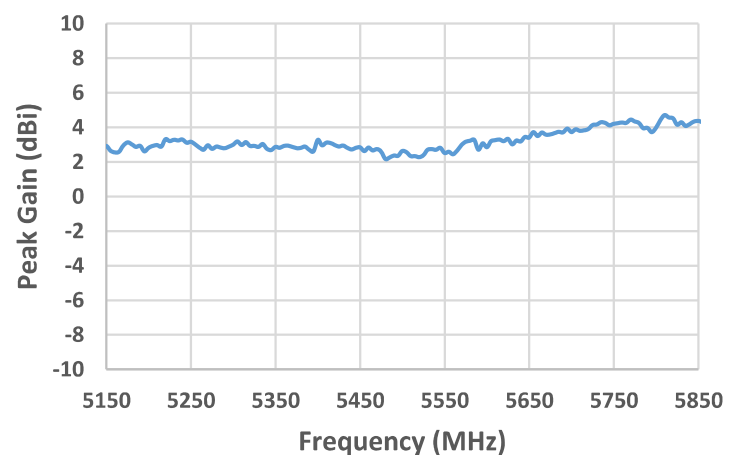
Efficiency (5150 – 5850 MHz)



Peak Gain (2400 – 2480 MHz)



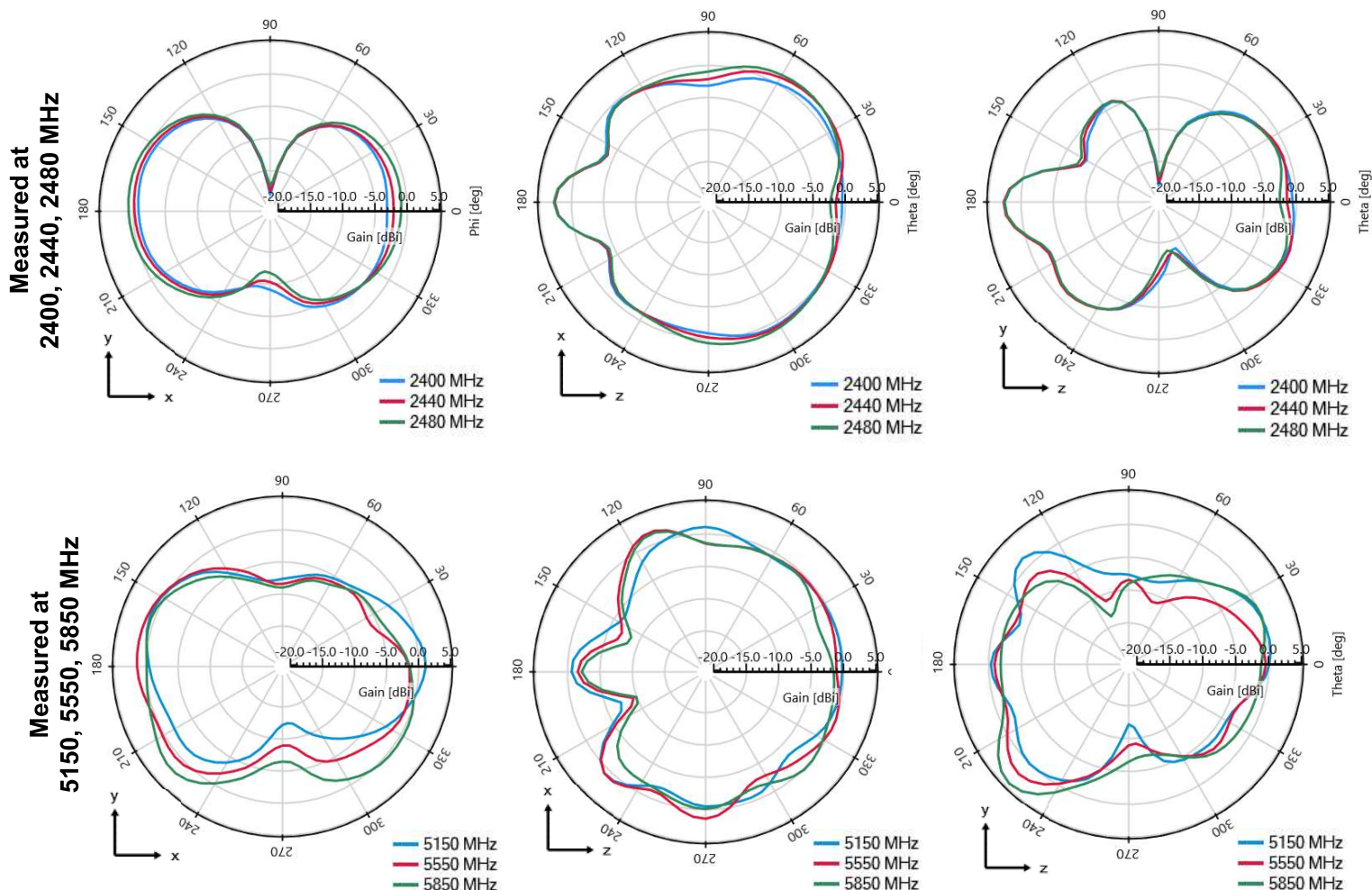
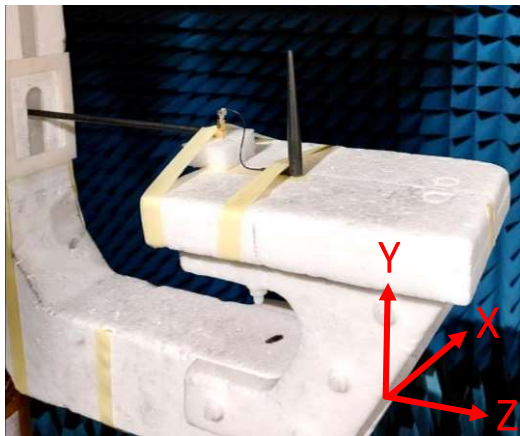
Gain (5150 – 5850 MHz)



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Antenna Radiation Patterns

Typical X9001958 performance with 100 mm cable

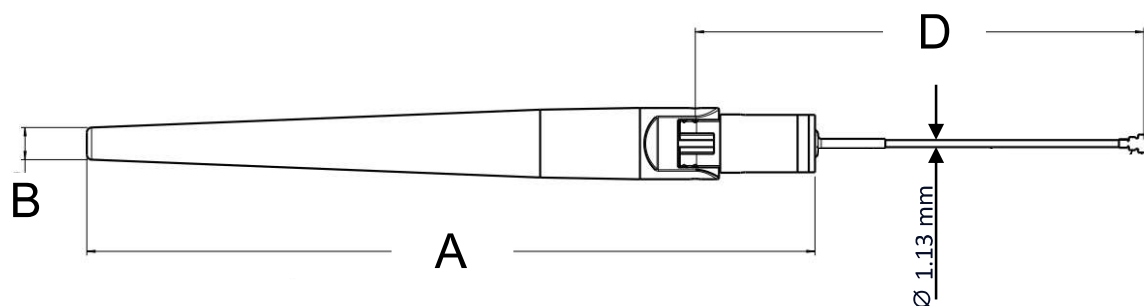


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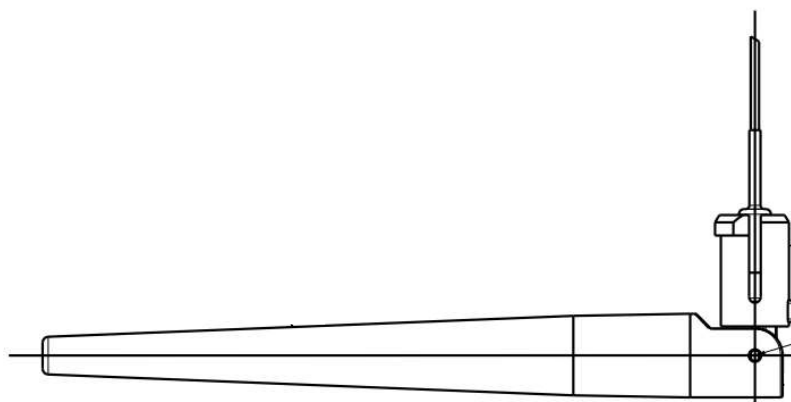
Mechanical Dimensions - X9001958

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)

