

Part No. X1005323-W3A1SA10A1

Wi-Fi Dual-Band External Antenna

2400-2500; 5150-5850 MHz

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



KYOCERA AVX's Wi-Fi Dual-Band external antenna delivers on the key needs of device designers for higher functionality and performance.

Wi-Fi Dual-Band External Antenna

2400-2500 MHz
 5150-5850 MHz

KEY BENEFITS

Reduced Costs and Time-to Market

Standard antennas eliminate design fees and cycle time associated with a custom solution, getting products to market faster.

Quicker Time-to-Market

By optimizing antenna size, performance and emissions, customer and regulatory specifications are more easily met.

Environmental Compliance

Products are the latest RoHS version compliant.

APPLICATIONS

- Remote Monitoring
- Point of Sale
- IoT
- Gateway, Access Point
- Telematics
- Tracking
- Healthcare (FDA Class I) Applications
- M2M, Industrial devices
- Smart Grid
- Logistics
- Energy
- Retail

Electrical Specifications

Typical characteristics in free-space

Frequency	2400 - 2500 MHz	5150 - 5825 MHz
Peak Gain	2.5 dBi	3.3 dBi
Average Efficiency	44%	31%
VSWR	2.0:1 max	
Impedance	50 Ω	

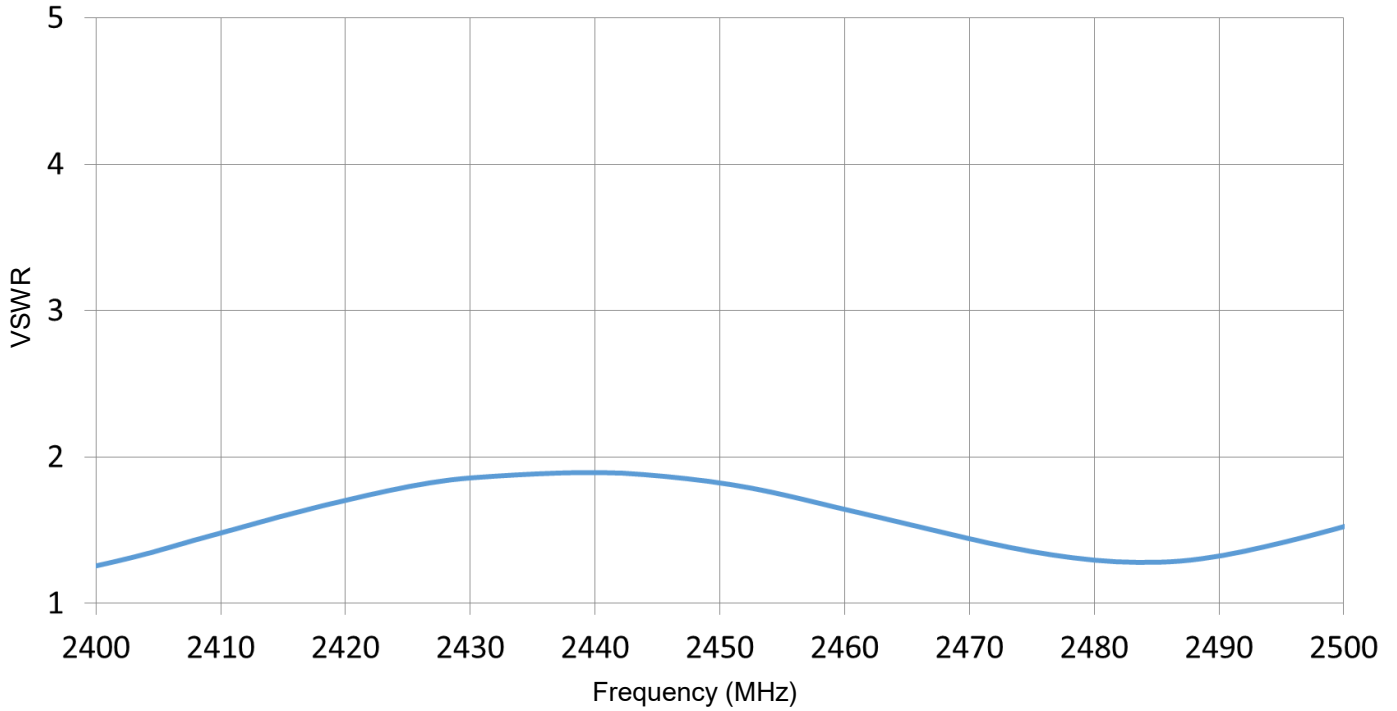
Mechanical Specifications

Ordering Part #	X1005323-W3A1SA10A1
Dimensions (mm)	105.1 x 30.1 x 6.7
Mounting Type	Adhesive Foam
Operating Temperature (°C)	-40 ~ +85
Housing Material & Color	PC+ABS (Black)
Weight (grams)	36
Cable	Length: 1M Type: RG-174
Connector	SMA (M)
Waterproof	IPX7
Additional resources	Download 3D FIT Files

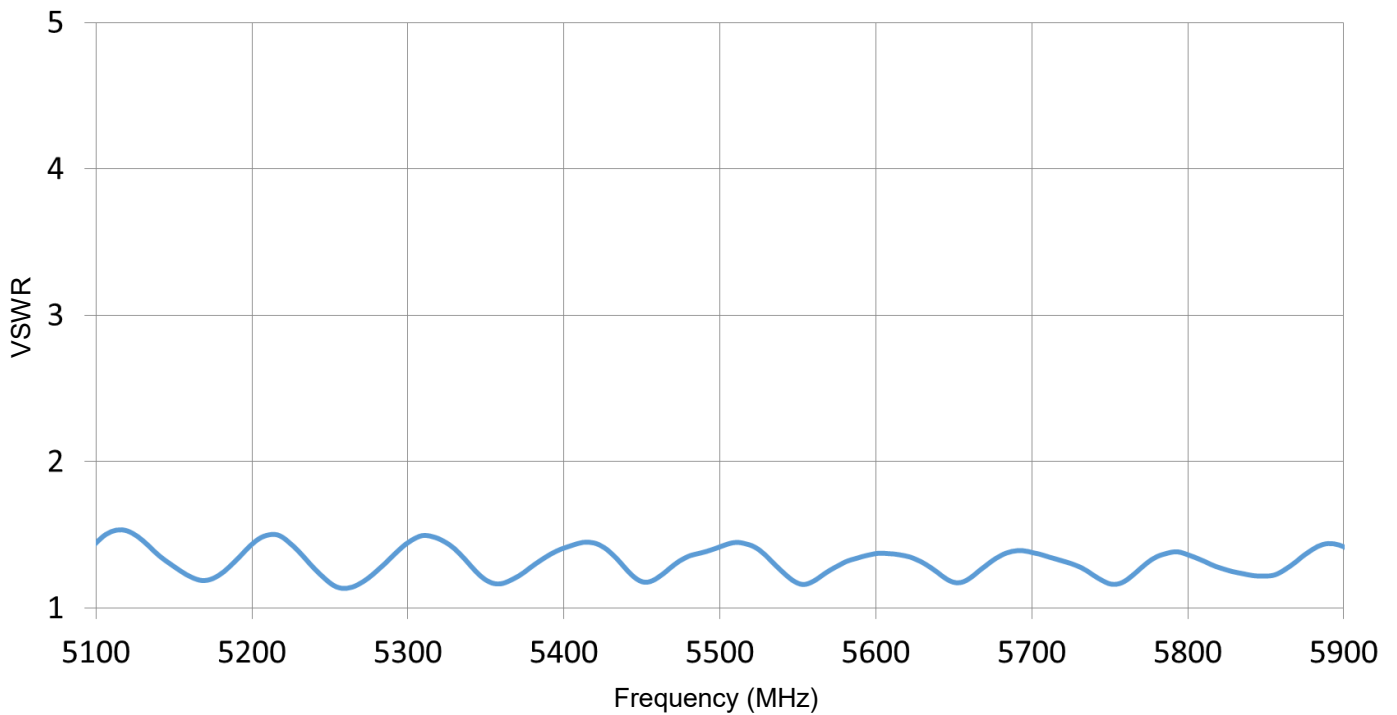
X1005323 Wi-Fi Dual-Band External Antenna Specifications.
 KYOCERA AVX produces a wide variety of standard and custom antennas to meet user needs.

VSWR

VSWR (2400 – 2500 MHz)



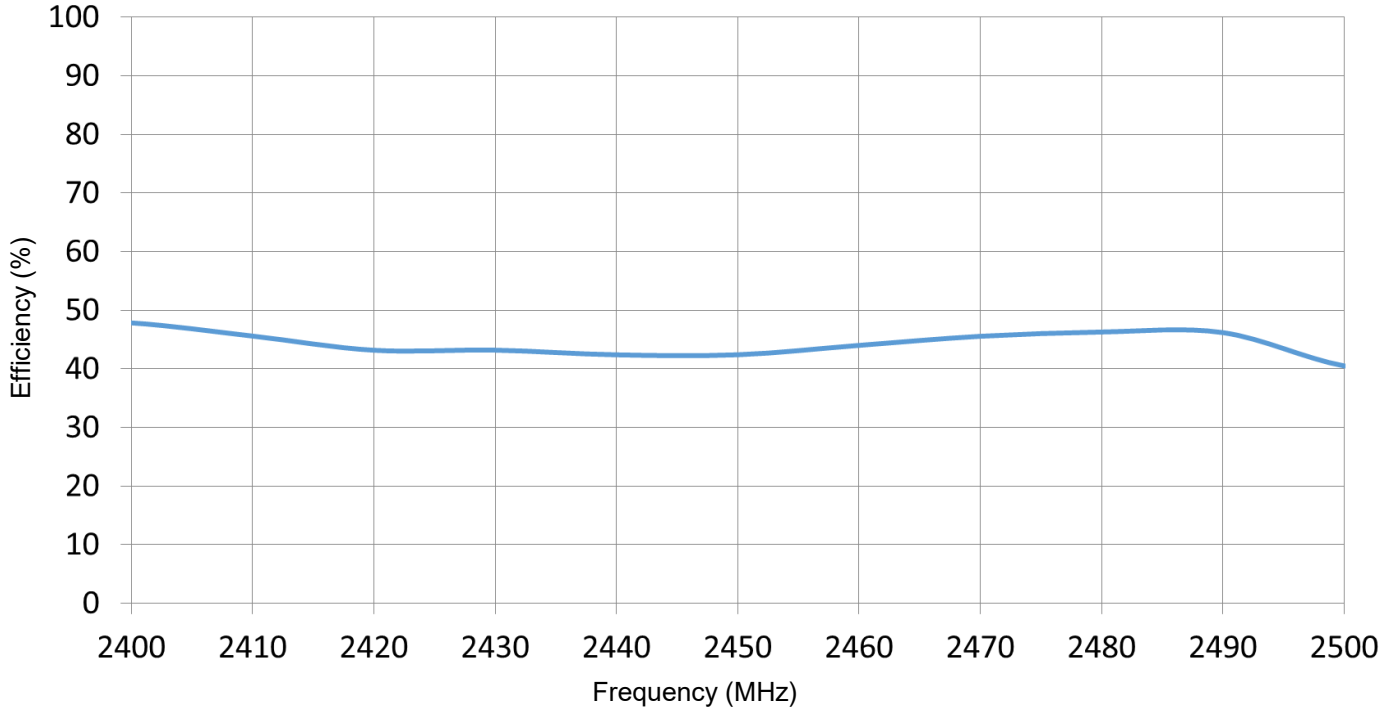
VSWR (5100 – 5900 MHz)



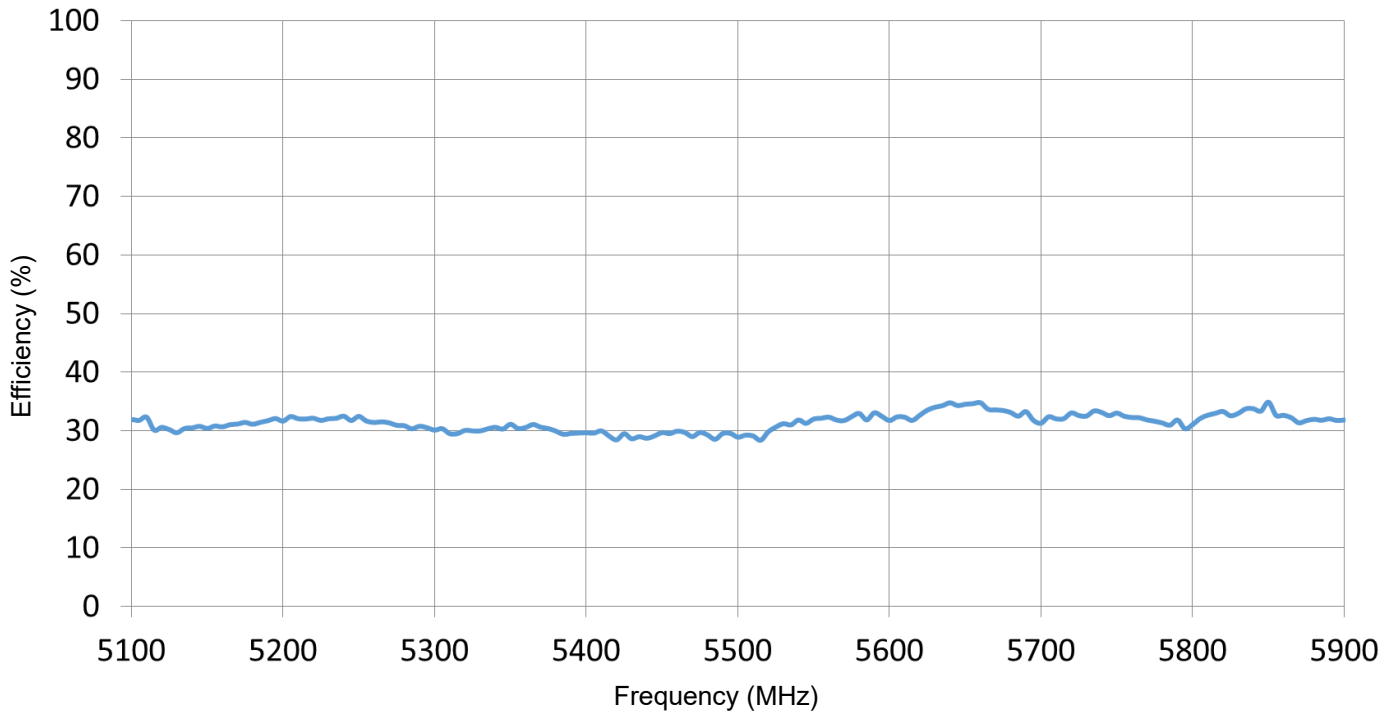
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Efficiency

Efficiency (2400 – 2500 MHz)



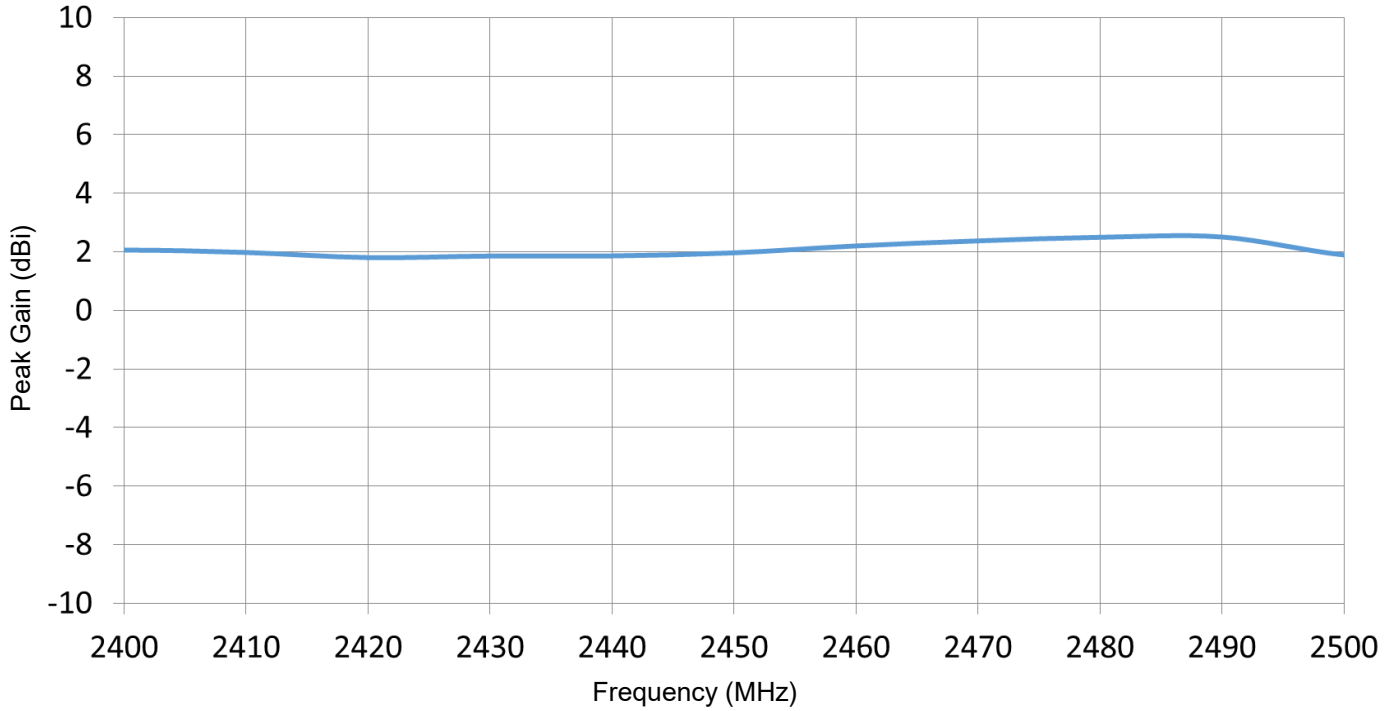
Efficiency (5100 – 5900 MHz)



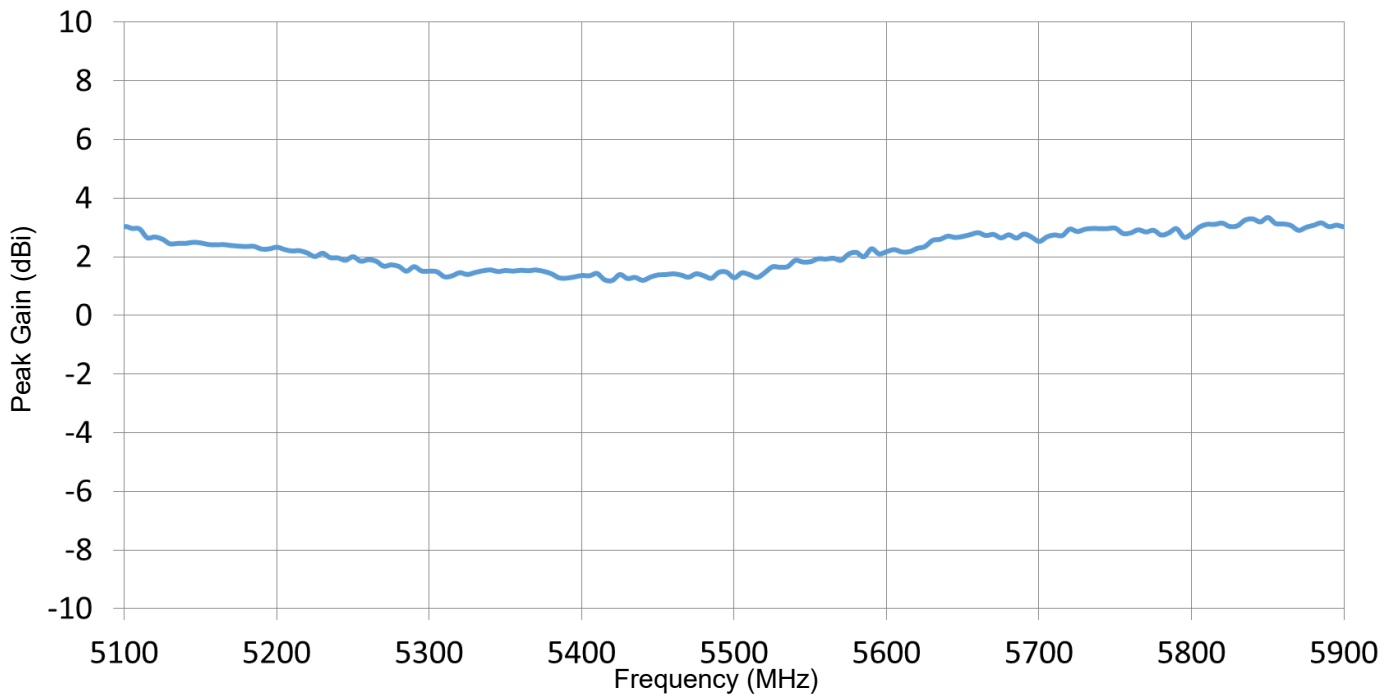
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Peak Gain

Peak Gain (2400 – 2500 MHz)



Peak Gain (5100 – 5900 MHz)

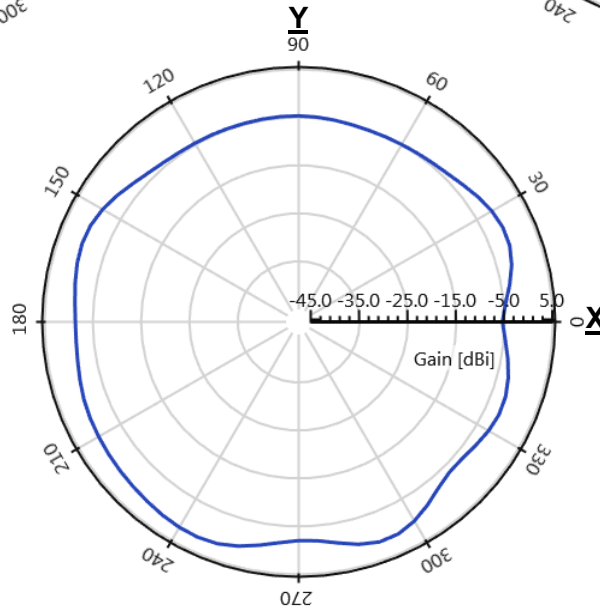
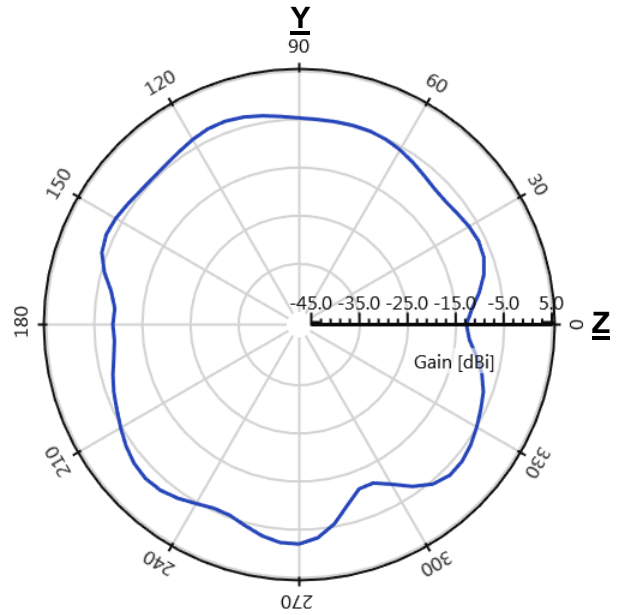
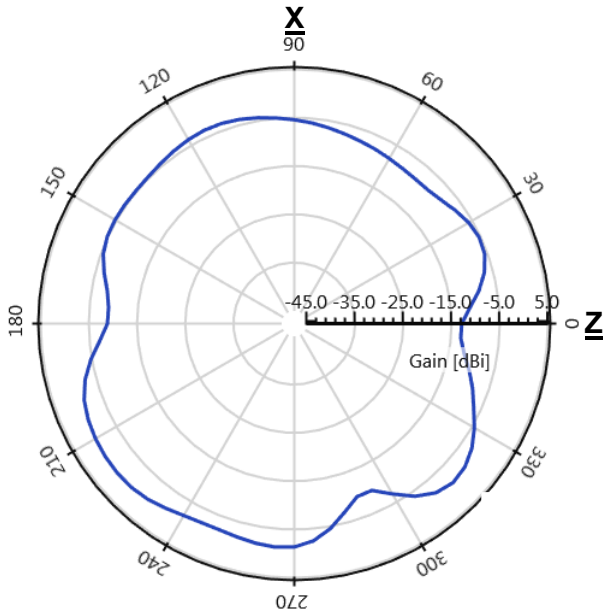
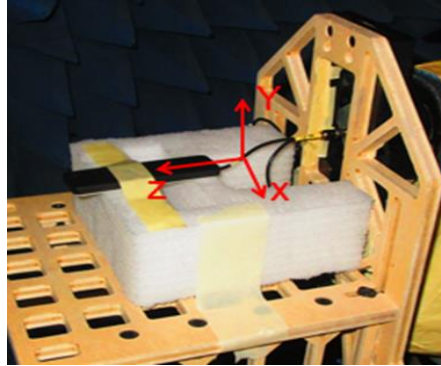


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2D Radiation Patterns

Measured at 24400 MHz

— 2440 MHz

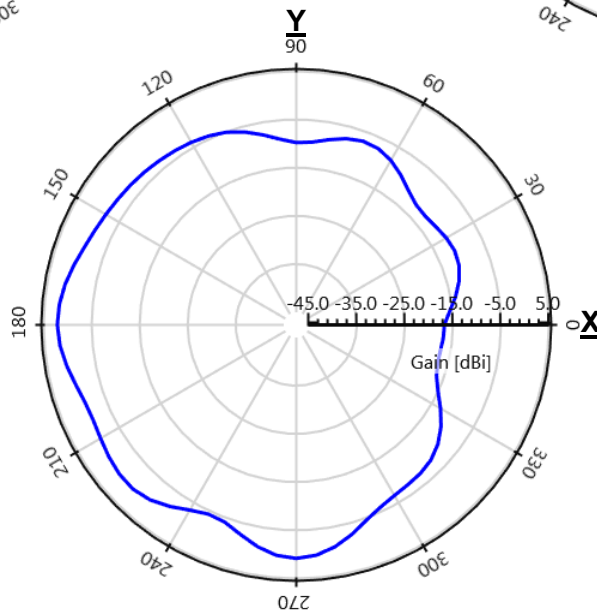
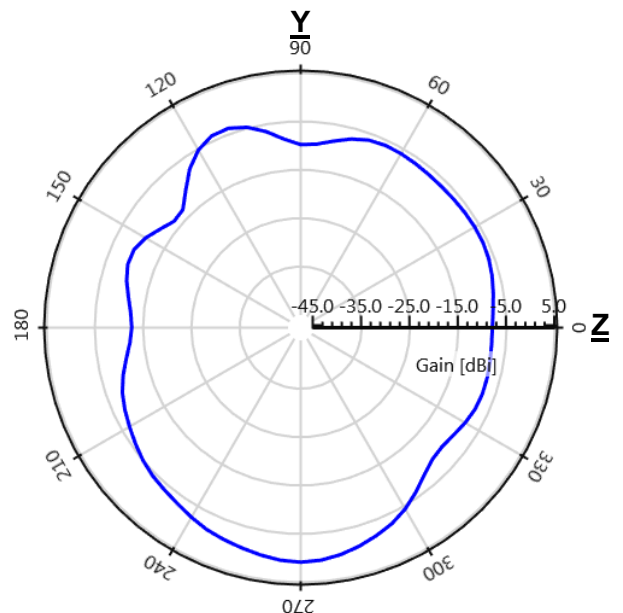
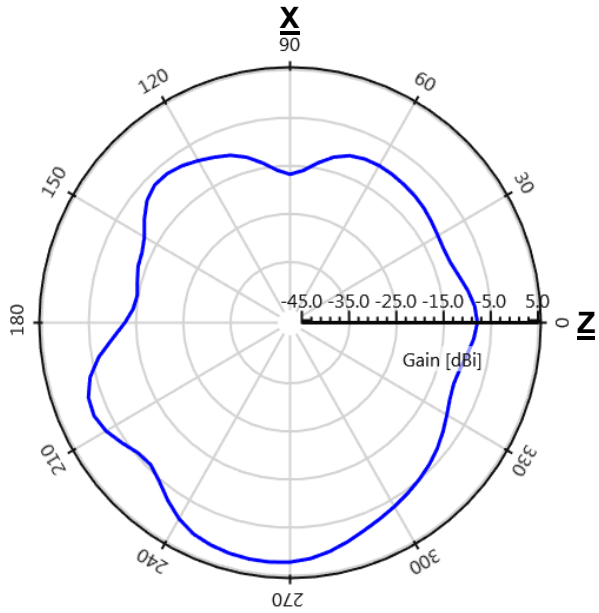
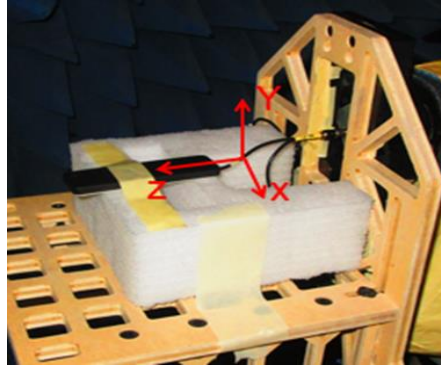


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2D Radiation Patterns

Measured at 5200 MHz

— 5200 MHz

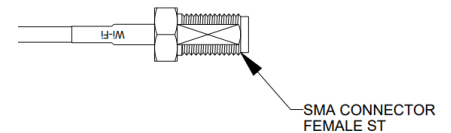
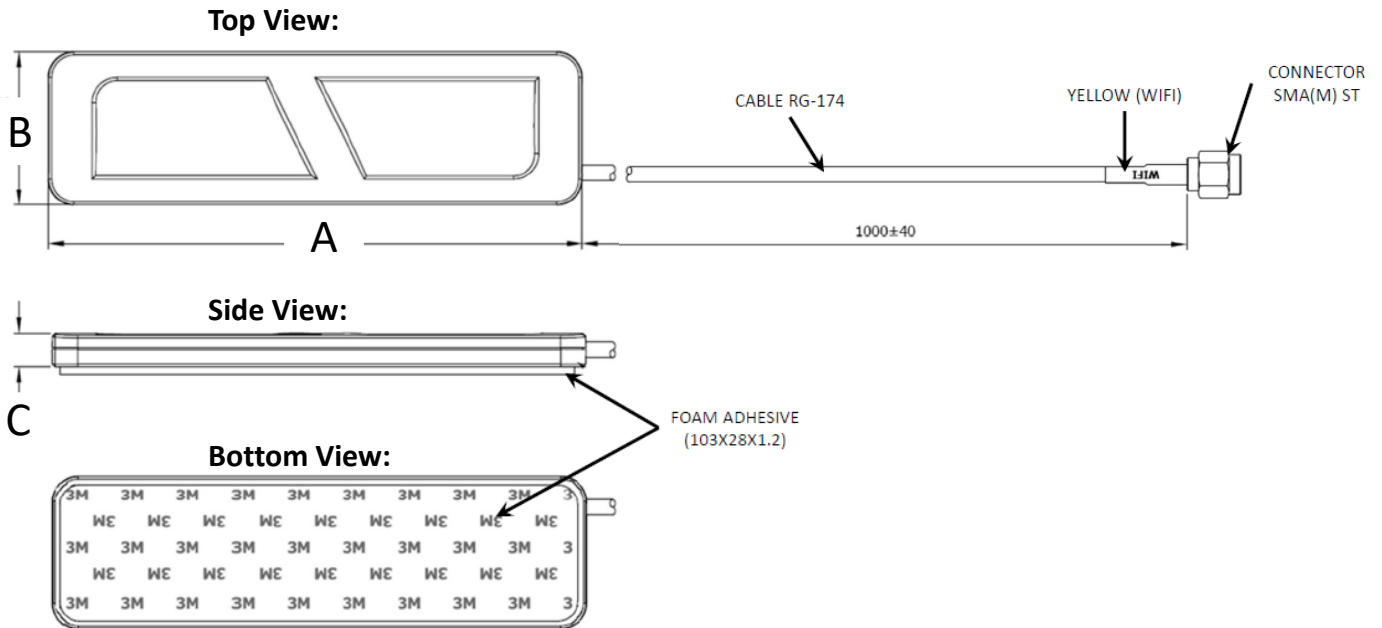


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Mechanical Dimensions

Typical antenna dimensions (mm)

Part Number	A (mm)	B (mm)	C (mm)	Connector
X1005323-W3A1SA10A1	105.1 ± 3.0	30.1 ± 1.5	6.7 ± 1.0	SMA (M)
X1005323-W3A1SF10A1	105.1 ± 3.0	30.1 ± 1.5	6.7 ± 1.0	SMA (F)



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Additional Resources – X1005323-W3A1SF10A1

3D FIT File:

https://www.kyocera-avx.com/download/antennas/ME-FIT/X1005323-W3A1SF10A1_ME_fit.zip