



Part No. X1005756-LBA2SA05A2

LTE & Wi-Fi 2-in-1 External Antenna

(698-960; 1710-2170; 2300-2700) MHz + (2400-2485) MHz

Supports: Tracking, Smart Home, Agriculture, Automotive Aftermarket, Healthcare, Digital Signage, Logistics, Industrial Devices



KYOCERA AVX's 2-in-1 LTE external antenna delivers on the key needs of device designers for higher functionality and performance.

LTE & Wi-Fi External Antenna

(698-960; 1710-2170; 2300-2700) MHz
 (2400-2485) 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.

High Performance

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
- Telematics
- Tracking
- Healthcare
- M2M, Industrial devices
- Smart Grid
- Logistics
- Energy
- Retail

Electrical Specifications

Typical characteristics in free-space

Frequency (LTE)	698~960 MHz	1710~2170 MHz	2300~2700 MHz
Peak Gain	2.5 dBi	3.5 dBi	4.2 dBi
Average Efficiency	50%	52%	50%
VSWR	5.0:1 max	3.0:1 max	3.5:1 max
Impedance	50 Ω		

Frequency (Wi-Fi)	2400-2485 MHz
Peak Gain	4.6 dBi
Average Efficiency	48%
VSWR	2.0:1 max
Impedance	50 Ω

LTE & Wi-Fi 2-in-1 KYOCERA AVX External Antenna Specifications.
 KYOCERA AVX produces a wide variety of standard and custom antennas to meet user needs

Mechanical Specifications

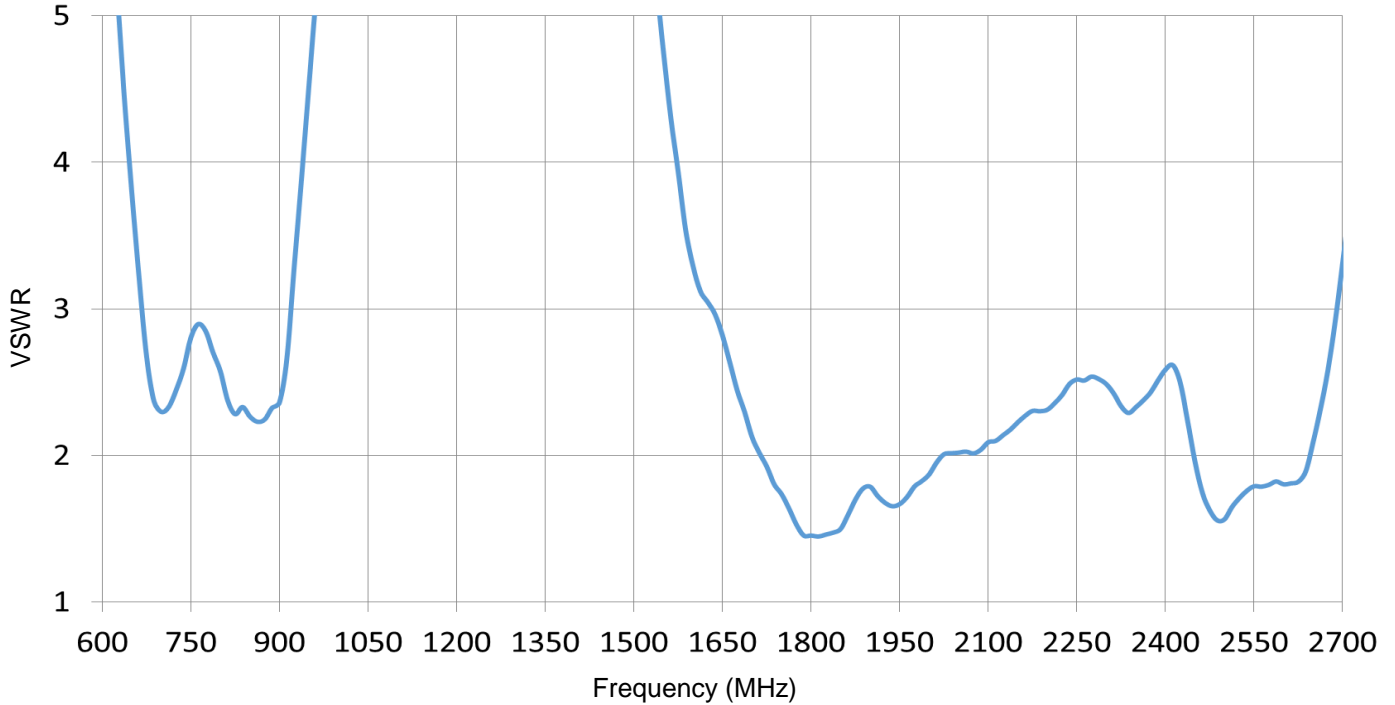
Ordering Part #	X1005756-LBA2SA05A2
Dimensions (mm)	55.0 x 55.0 x 20.0
Mounting Type	Foam Adhesive
Operating Temperature °C	-40 ~ +85
Housing Material & Color	PC+ABS (Black)
Weight (grams)	68
Cable	Length: 500.0 mm Type: CFD-200 LTE RG-174 Wi-Fi
Connector	LTE SMA(M) Wi-Fi SMA(M)
Waterproof	IPX5

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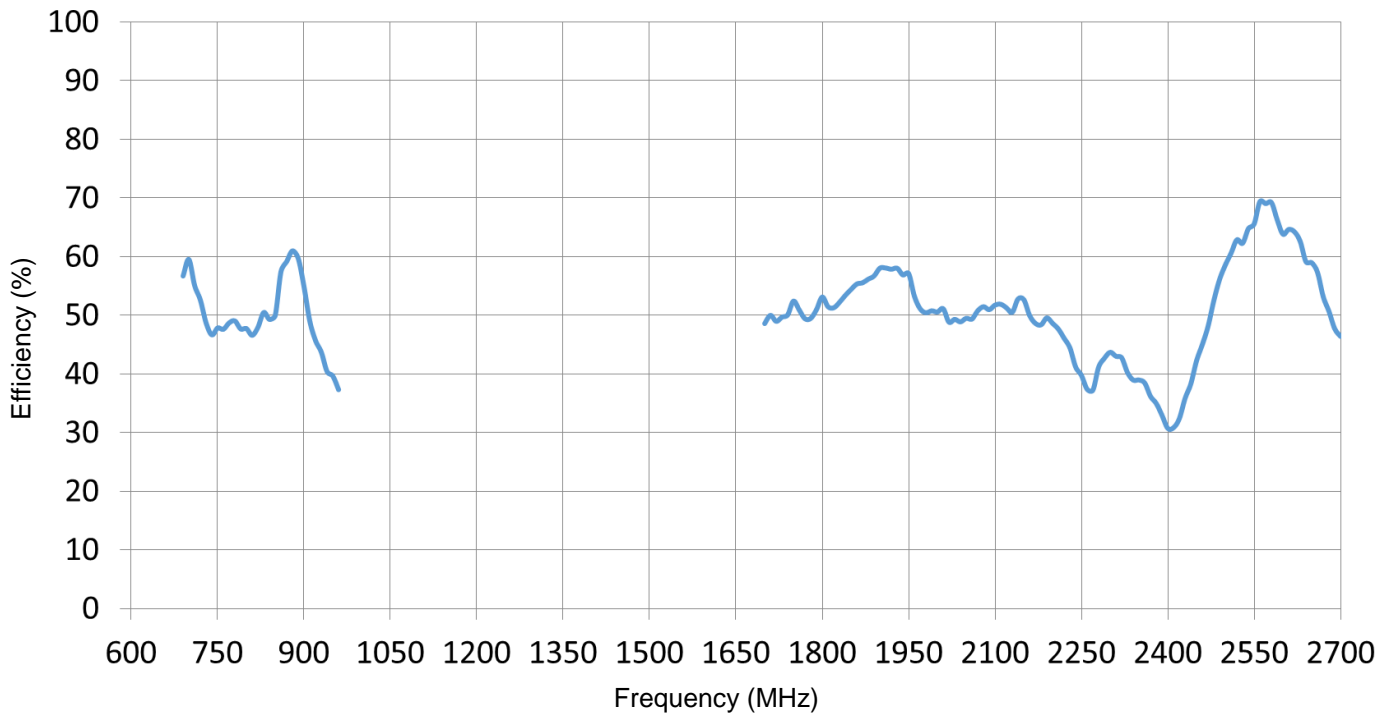
VSWR, Efficiency Plots (LTE 698-2700 MHz)

Typical characteristics in free-space

VSWR:



Efficiency:

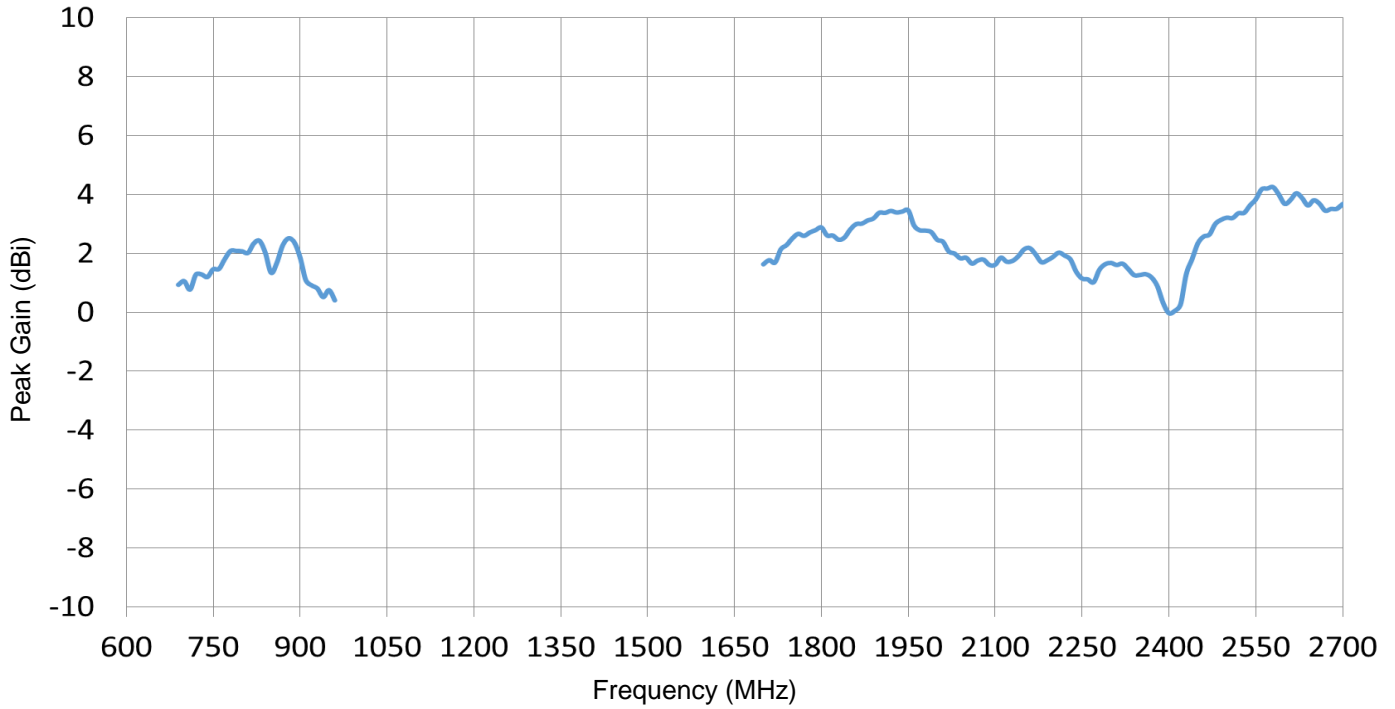


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Peak Gain Plots (LTE 698-2700 MHz)

Typical characteristics in free-space

Peak Gain:

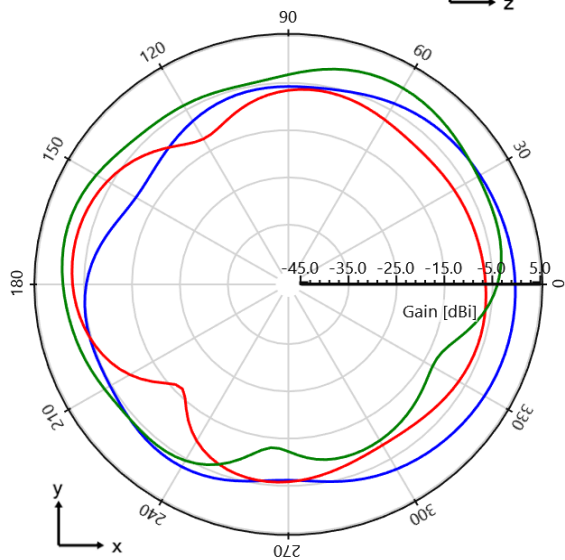
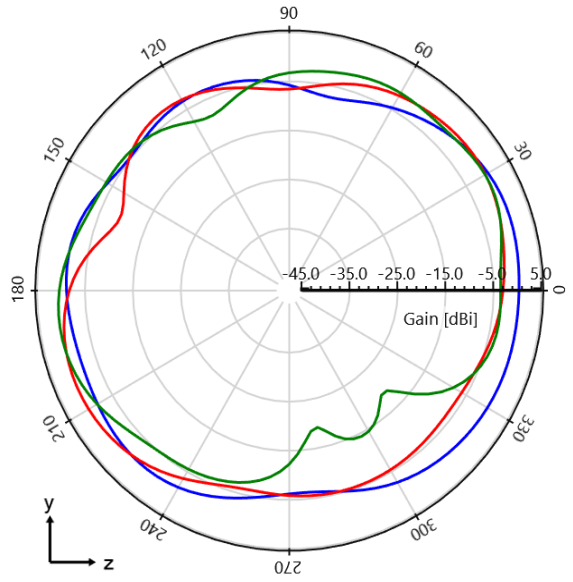
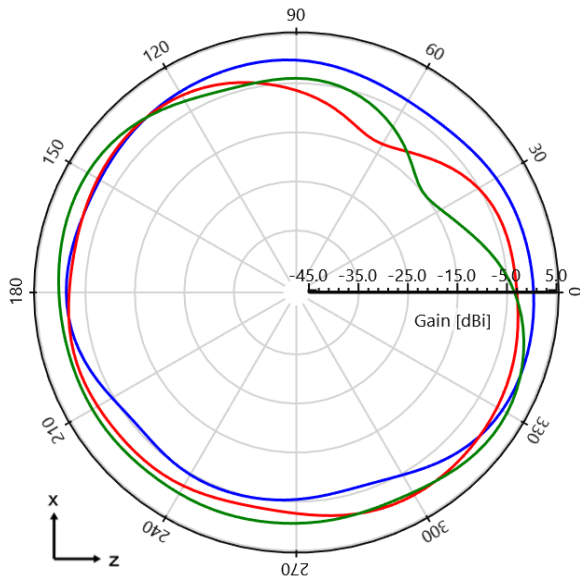
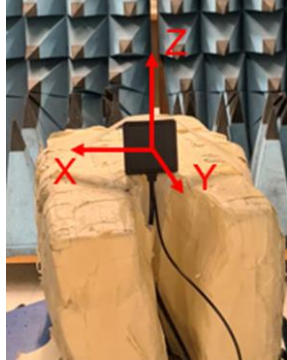


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2D Radiation Patterns (LTE 698-960 MHz)

Typical characteristics in free-space

- 700 MHz
- 800 MHz
- 900 MHz

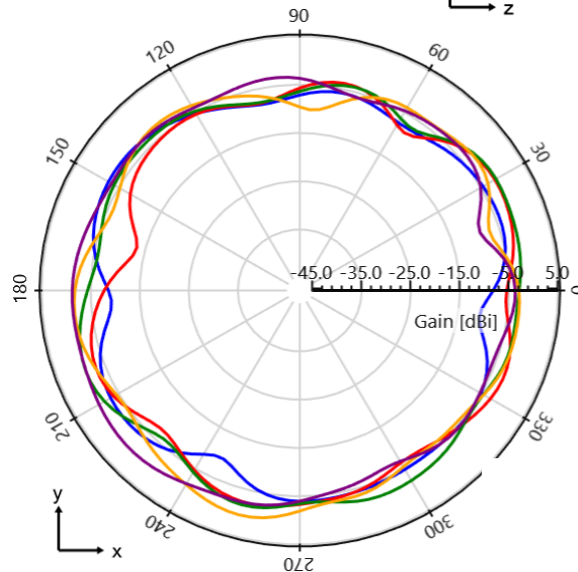
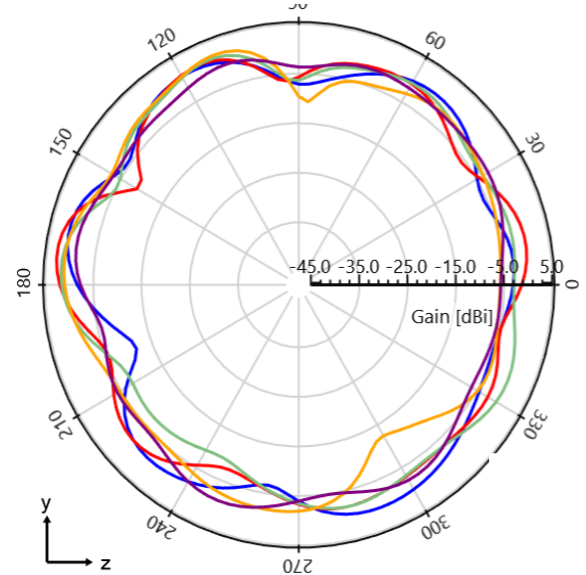
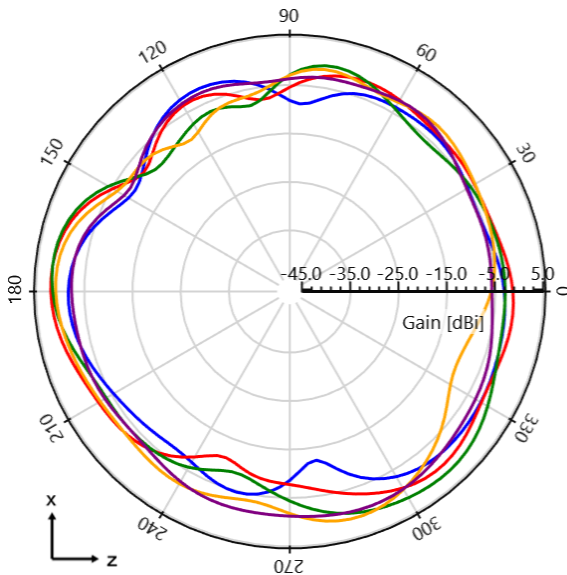
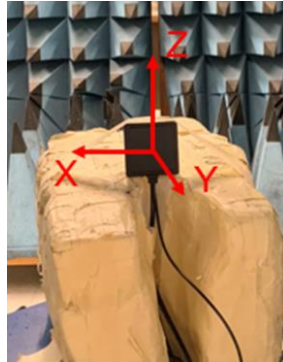


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2D Radiation Patterns (LTE 1710-2170 MHz)

Typical characteristics in free-space

- | | | |
|-------------------------------------|---|----------|
| <input checked="" type="checkbox"/> | — | 1700 MHz |
| <input checked="" type="checkbox"/> | — | 1800 MHz |
| <input checked="" type="checkbox"/> | — | 1900 MHz |
| <input checked="" type="checkbox"/> | — | 2000 MHz |
| <input checked="" type="checkbox"/> | — | 2100 MHz |

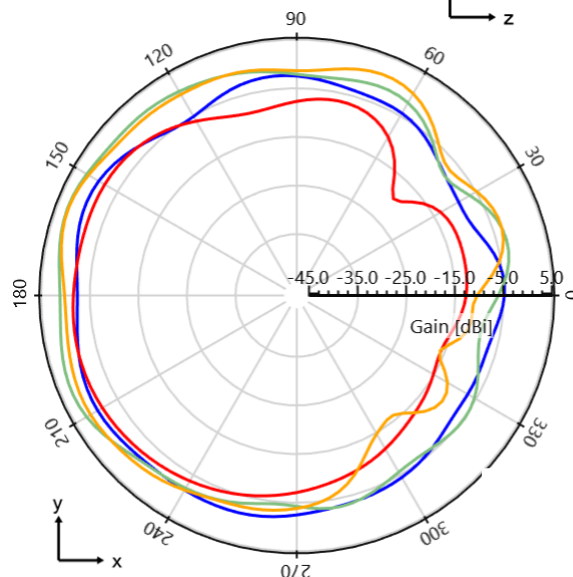
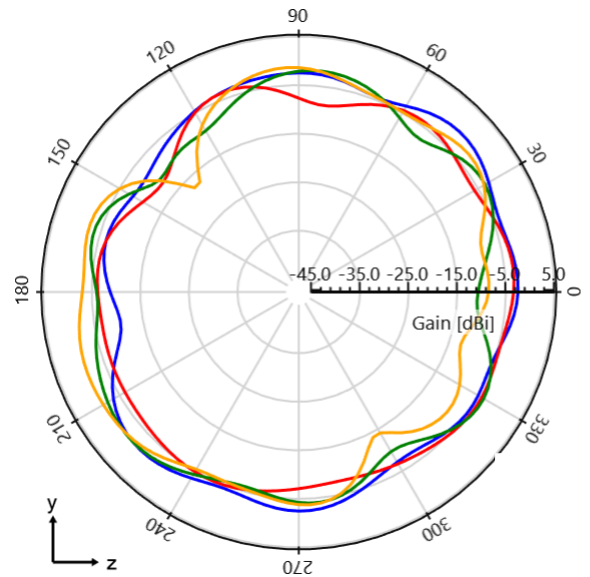
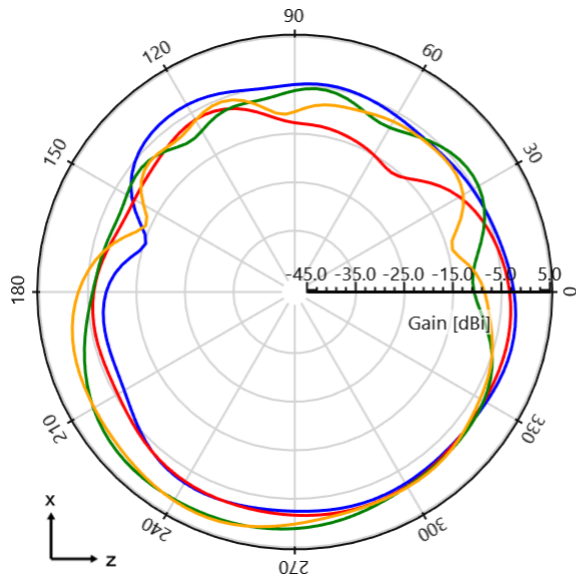
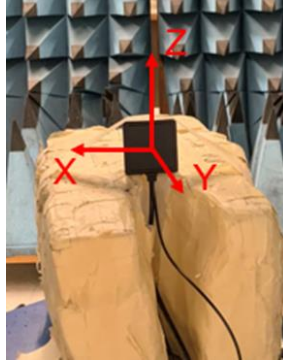


LTE & Wi-Fi 2-in-1 KYOCERA AVX External Antenna Specifications.
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2D Radiation Patterns (LTE 2300-2690 MHz)

Typical characteristics in free-space

- | | | |
|-------------------------------------|---|----------|
| <input checked="" type="checkbox"/> | — | 2300 MHz |
| <input checked="" type="checkbox"/> | — | 2400 MHz |
| <input checked="" type="checkbox"/> | — | 2500 MHz |
| <input checked="" type="checkbox"/> | — | 2600 MHz |

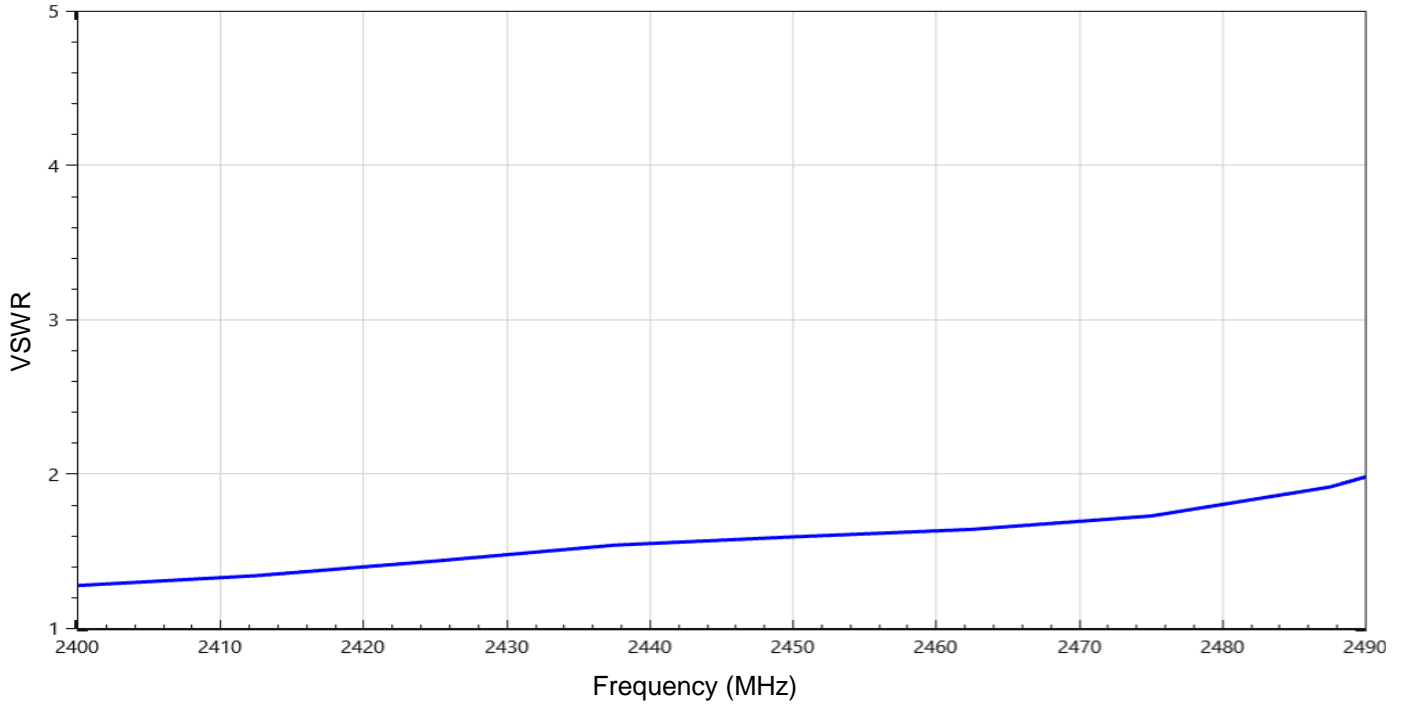


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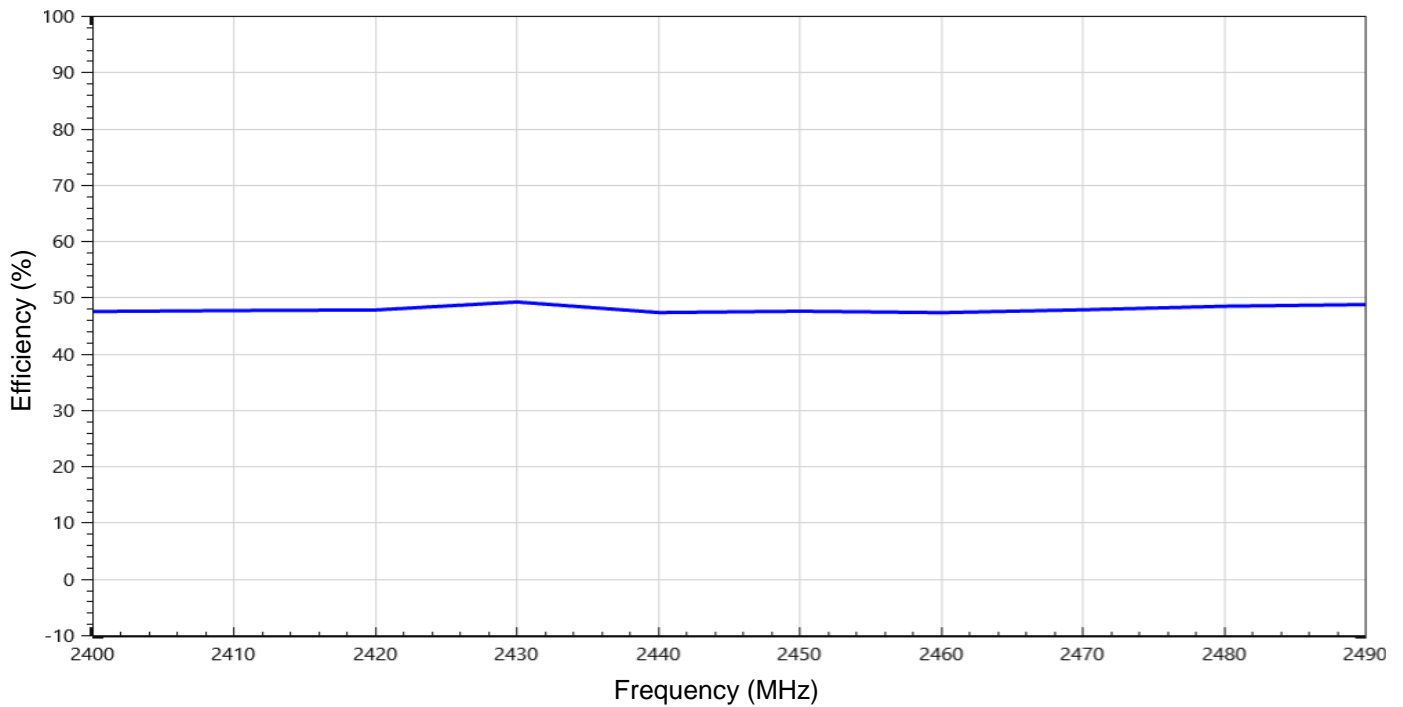
VSWR, Efficiency Plots (Wi-Fi 2400-2485 MHz)

Typical characteristics in free-space

VSWR:



Efficiency:

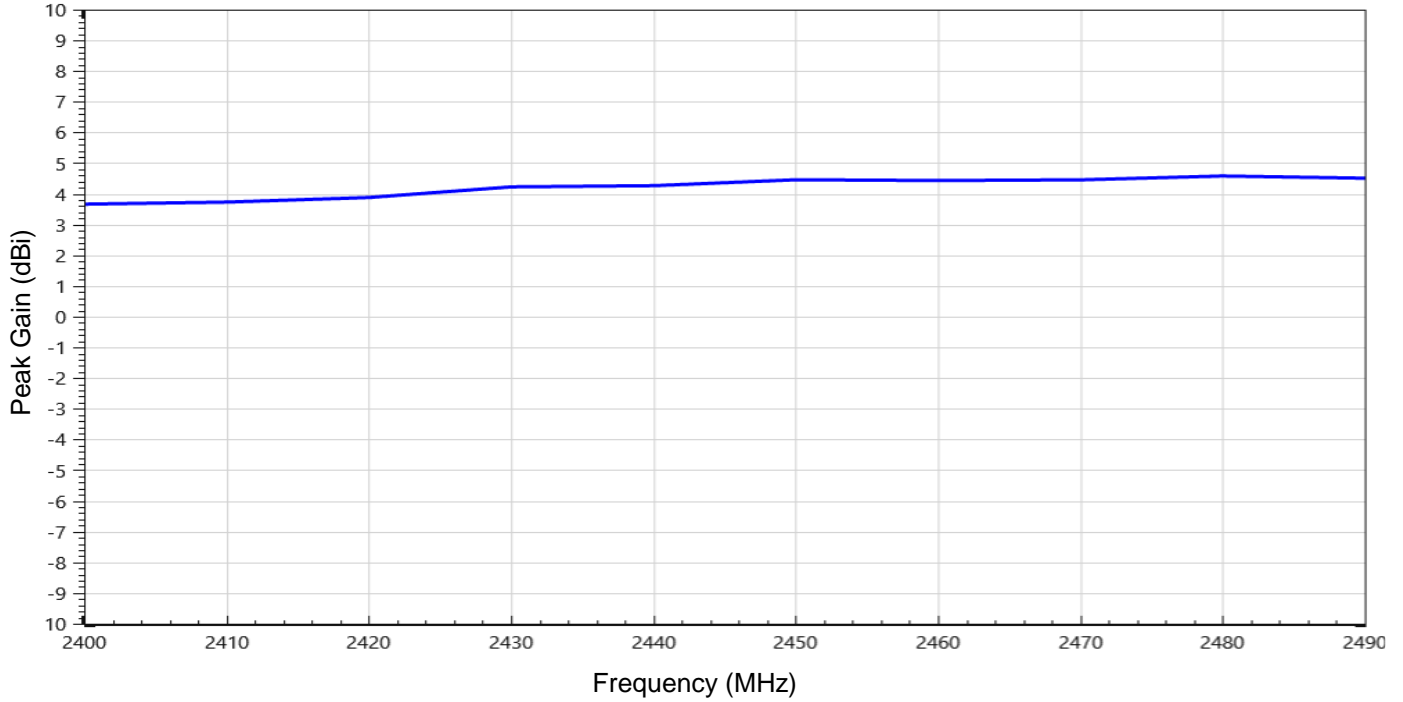


LTE & Wi-Fi 2-in-1 KYOCERA AVX External Antenna Specifications.
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Peak Gain Plots (Wi-Fi 2400-2485 MHz)

Typical characteristics in free-space

Peak Gain:

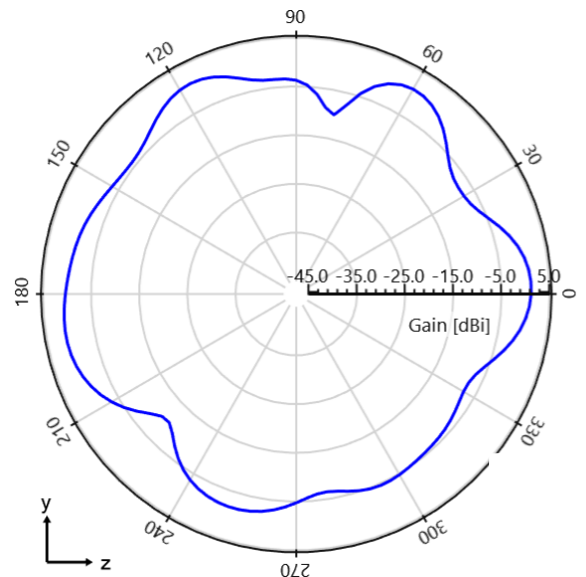
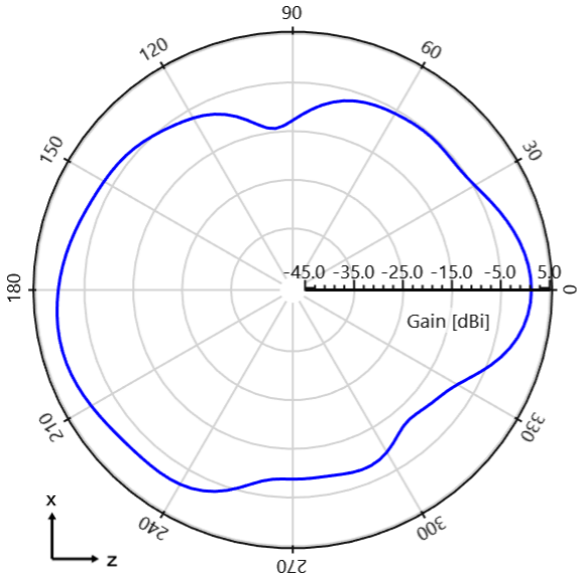
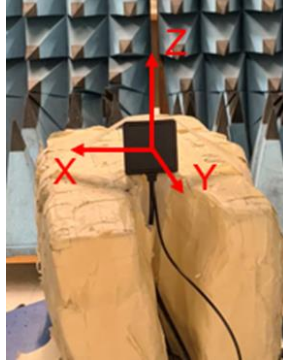


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2D Radiation Patterns (Wi-Fi 2400-2485 MHz)

Typical characteristics in free-space

— 2440 MHz



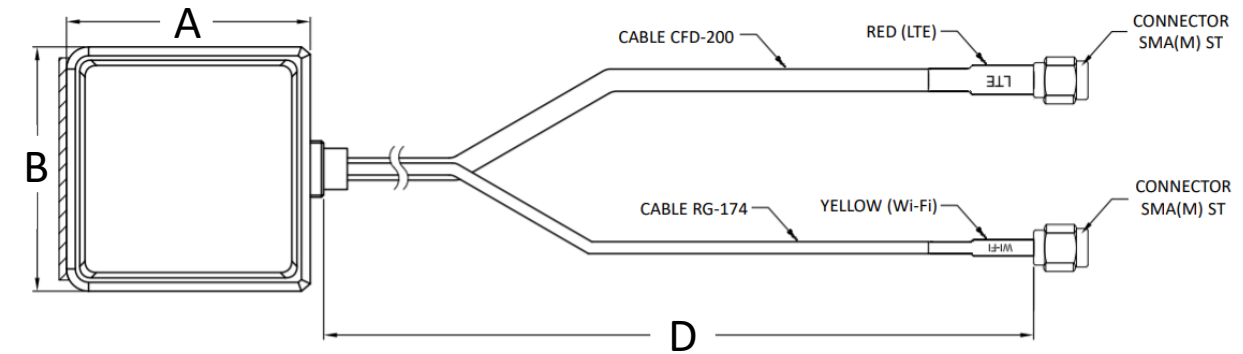
LTE & Wi-Fi 2-in-1 KYOCERA AVX External Antenna Specifications.
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Mechanical Dimensions

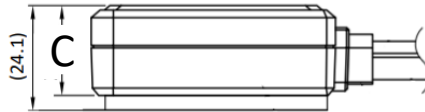
Typical antenna dimensions (mm)

Part Number	A (mm)	B (mm)	C (mm)	D (mm)
X1005756-LBA2SA05A2	55.0 ± 0.3	55.0 ± 0.3	20.0 ± 0.3	500 ± 20.0

Top View



Side View



Bottom View

