

Part No. 9003005C0

Wi-Fi/ BT/ Zigbee Ceramic Patch 2.4 GHz Antenna

2400 – 2480 MHz

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



KYOCERA AVX's 9003005C0 is a 2.4 GHz ceramic patch antenna with high efficiency on all frequency bands. This antenna delivers good functionality and performance and provides compelling advantages to the device designers for their Wi-Fi enabled applications. This antenna has 60mm cable terminated in a MMCX ST-Plug (male) connector..

Best in Class Performance

Circularly Polarized patch antennas are designed to maintain high efficiency in a variety of device configurations. High selectivity eliminates the need for additional filters and frees up board space.

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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.

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

- Home Automation
- Security and surveillance
- Smart appliances
- Energy & utilities
- M2M industrial devices
- Industrial IoT devices

Electrical Specifications

Typical Characteristics in free-space

Frequency	2400 – 2480 MHz
Return Loss	< -7.8 dB
Peak Gain	2.5 dBi
Average Efficiency	65%
Polarization	R.H.C.P
Impedance	50 ohm
Axial Ratio	< 2.07 dB

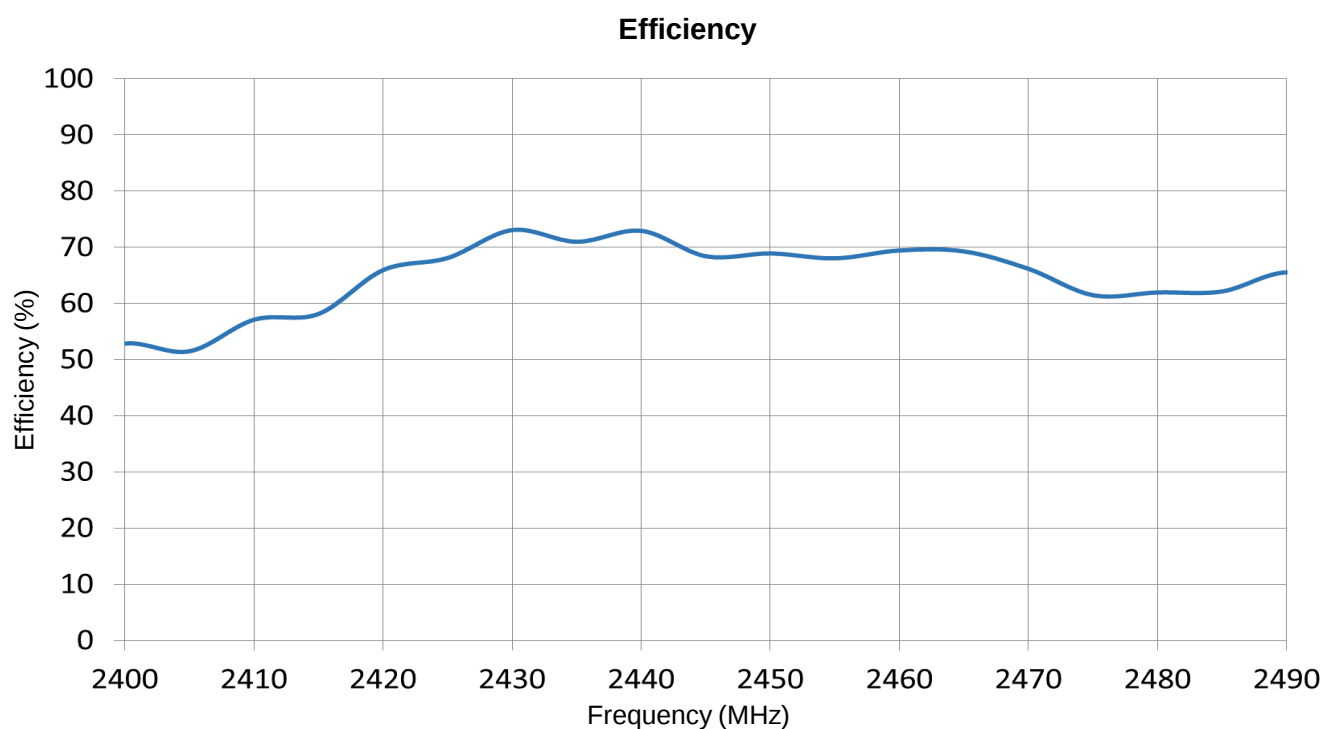
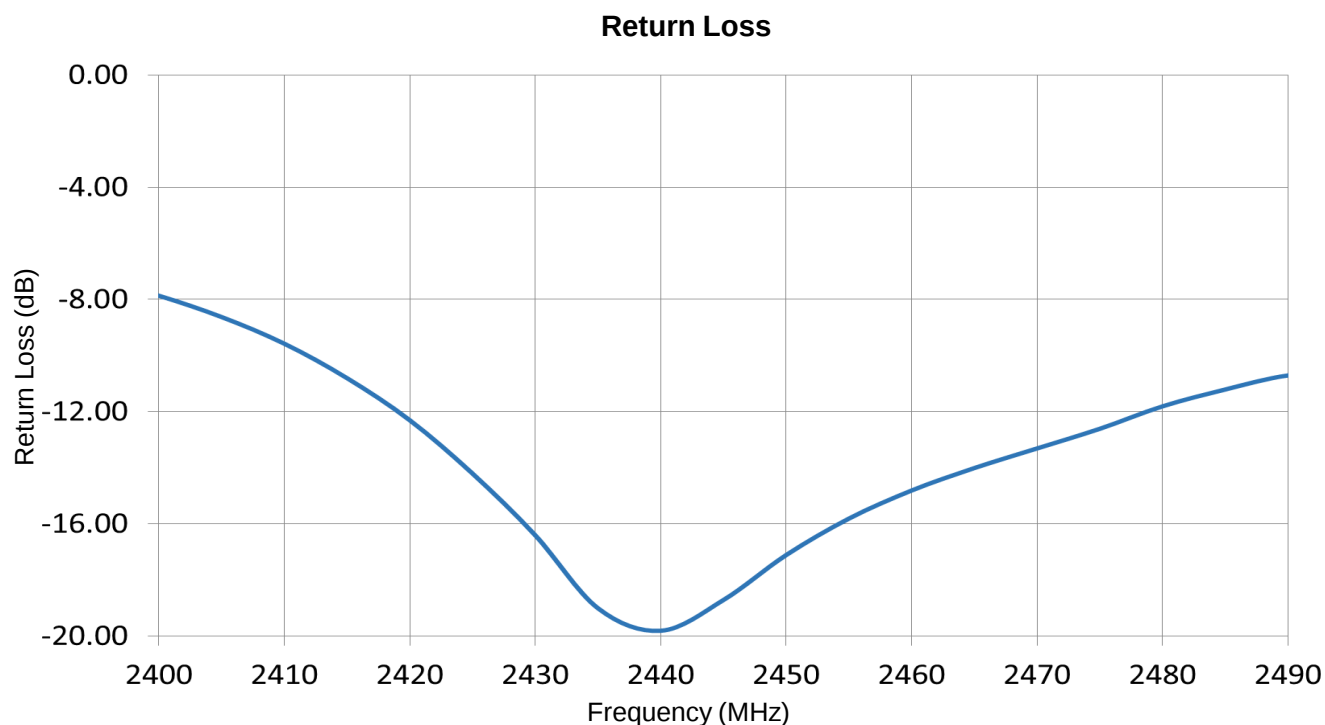
Mechanical Specifications & Ordering Part Number

Ordering Part Number	9003005C0-AM20L0060
Size (mm)	25.0 x 25.0 x 4.0
Cable/Connector (mm)	Length: 60.0, Diameter: 1.13, Color: Black, MMCX ST-Plug (male)
Weight (grams)	10.0
Packaging	Tray
Impedance	50 ohm

2.4 GHz KYOCERA AVX Cabled Ceramic Patch Antenna Specifications
KYOCERA AVX produces a wide variety of standard and custom antennas to meet user needs

Return Loss and Efficiency Plots

Typical performance in free-space.

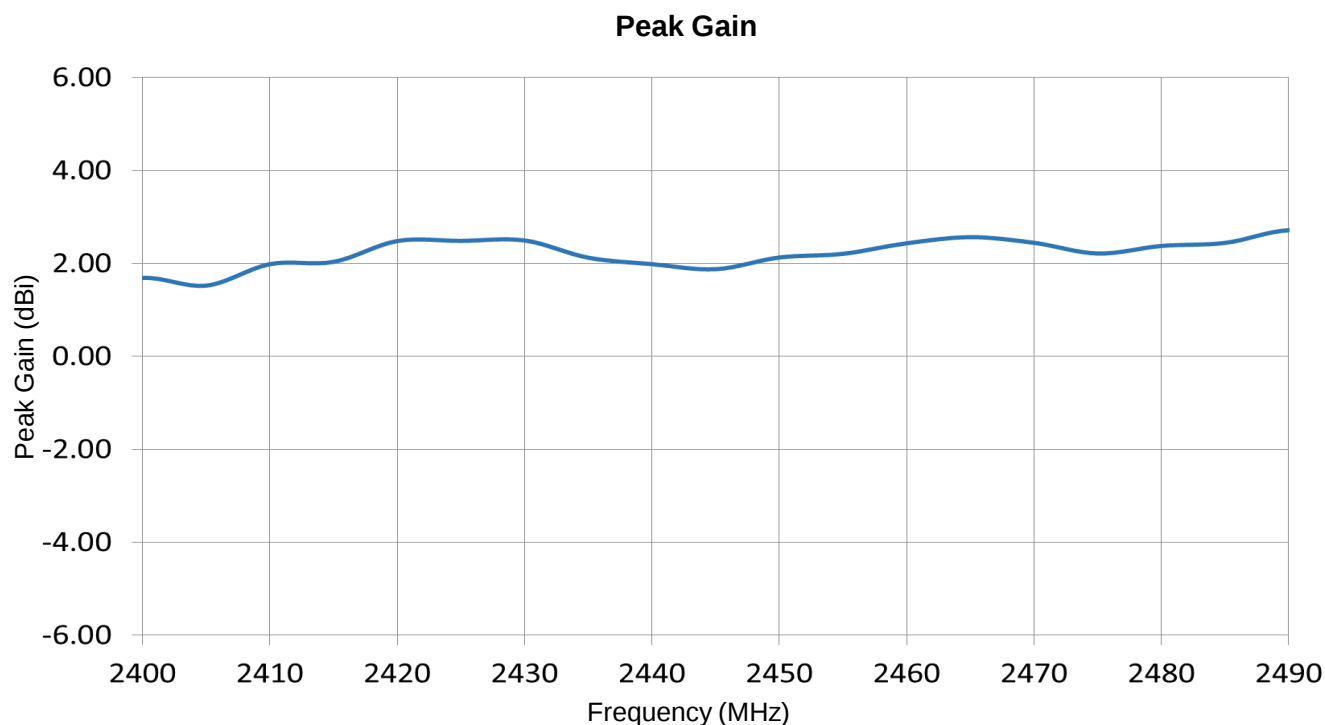


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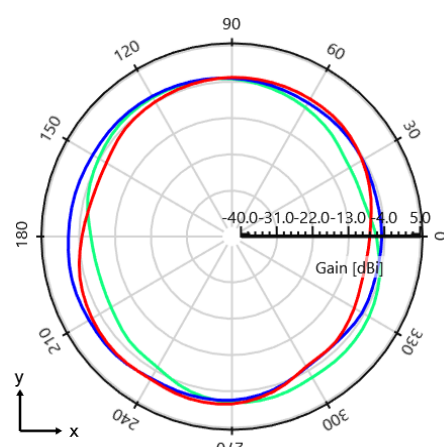
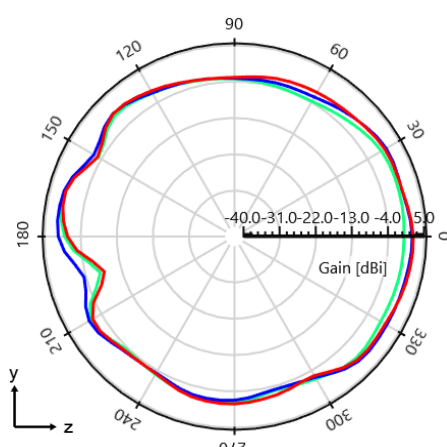
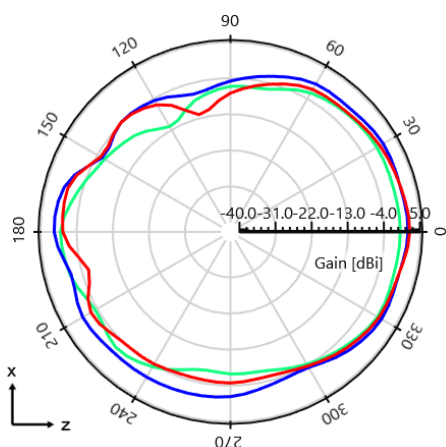
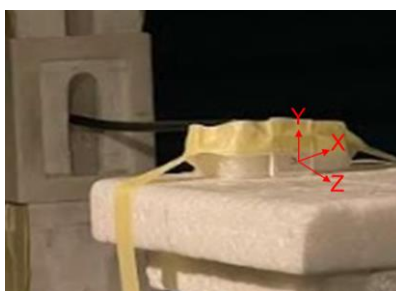
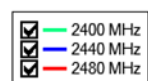
Peak Gain Plot

Typical performance in free-space.



Antenna Radiation Patterns

Typical performance in free-space.
Measured at (2400, 2440, 2480) MHz

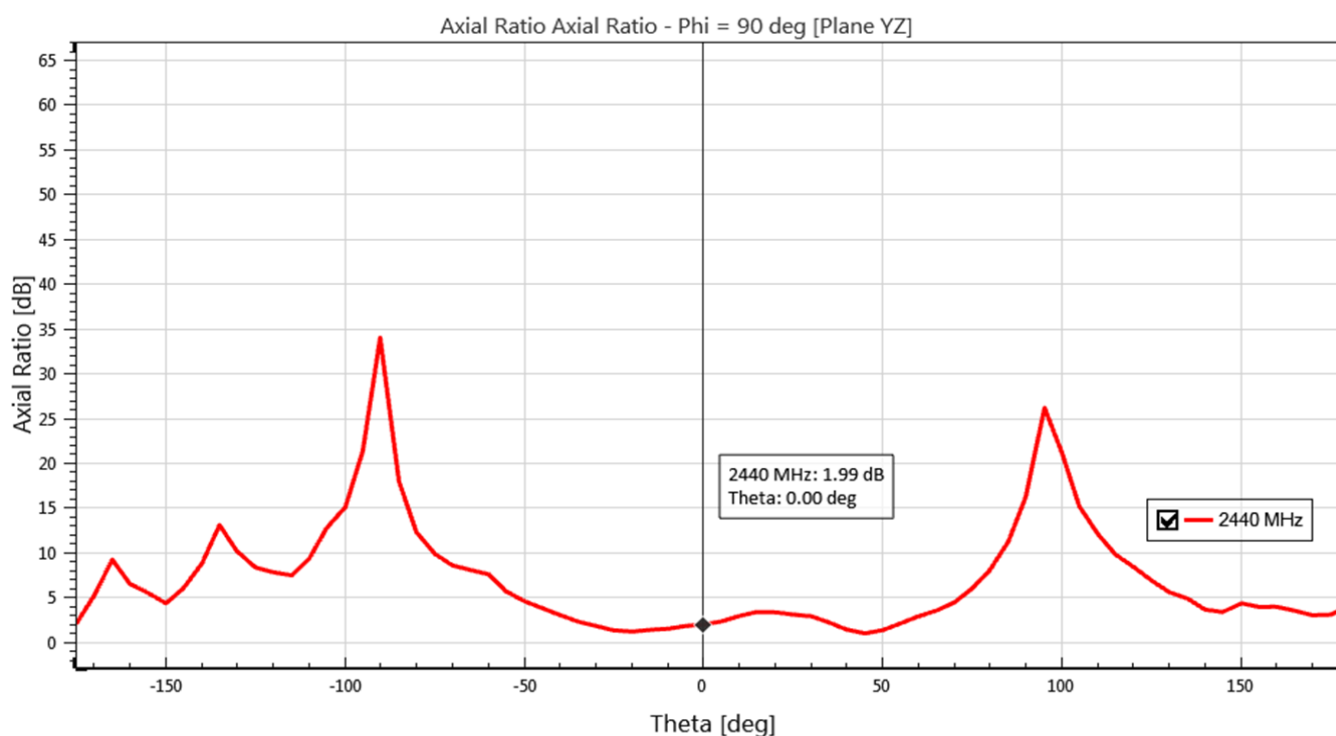
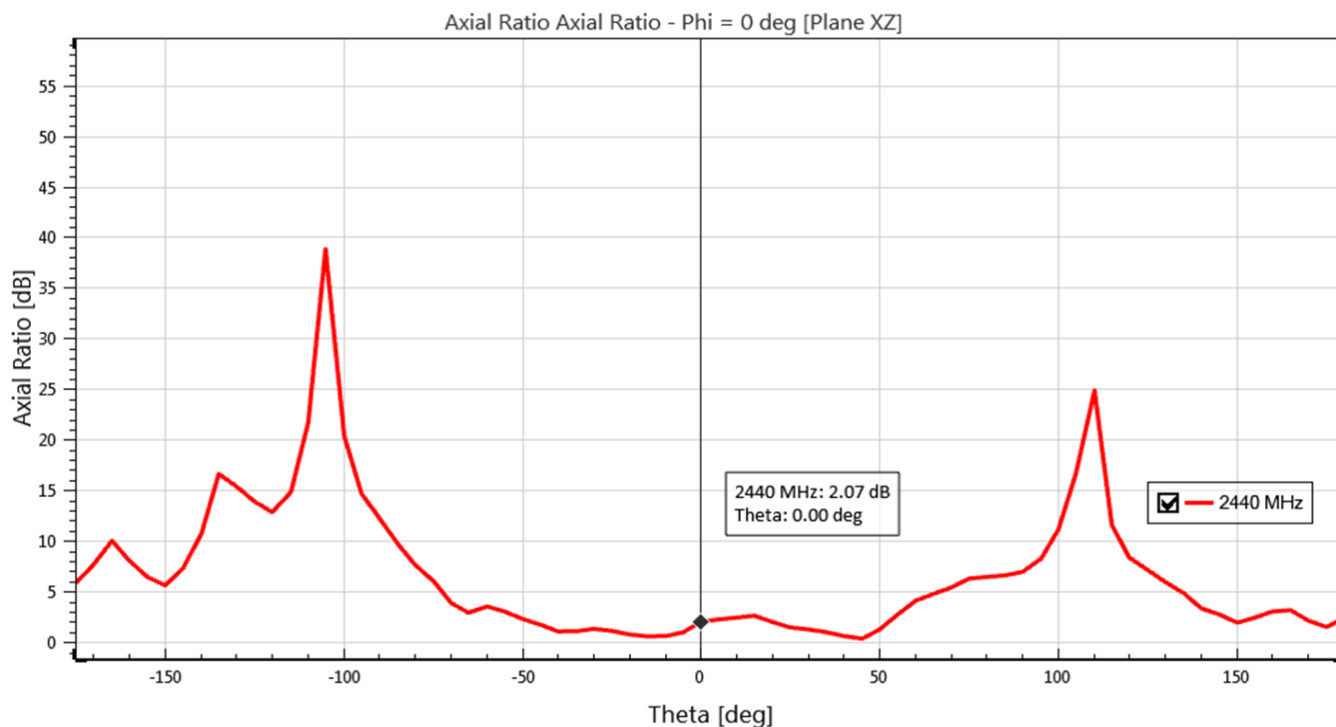


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Axial Ratio YZ, XZ Plots

Typical performance in free-space.

Measured @ 2440 MHz

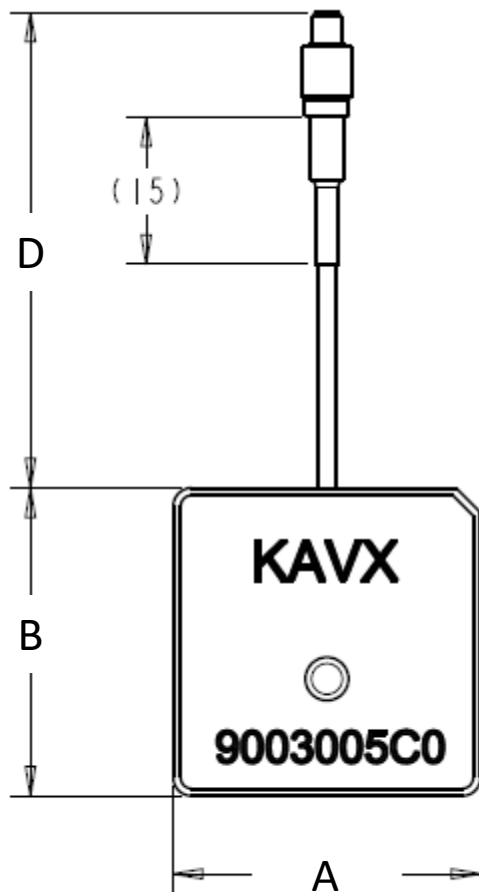


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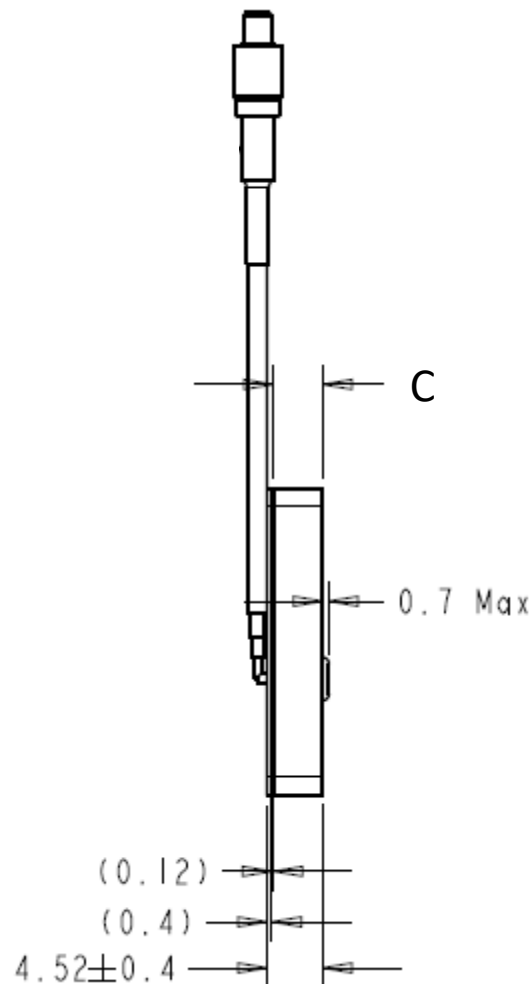
Mechanical Dimensions

Typical antenna dimensions, in mm.

Part Number	A	B	C	D
9003005C0-AM20L0060	25.0 ± 0.2	25.0 ± 0.2	4.0	60.0 ± 2.0



Top View



Side View