

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.

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

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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

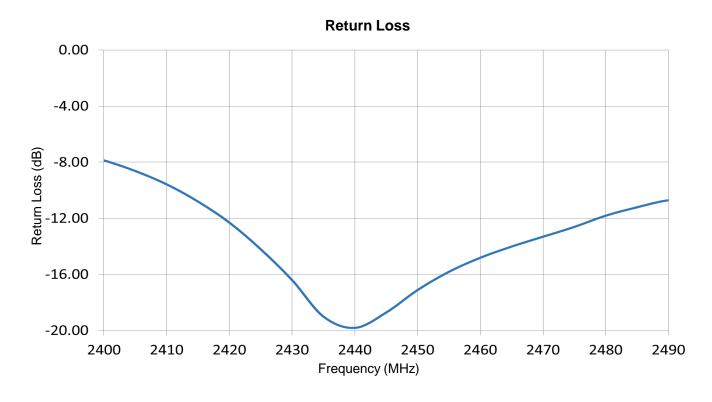
Ordering Part Number	9003005C0-AM20L0060		
Size (mm)	25.0 x 25.0 x 4.0		
Cable/Connector (mm)	Length: 60.0, Diameter: 1.13, Color: Black, MMCX ST-Plug (male)		
Weight (grams)	10.0		
Packaging	Tray		
Impedance	dance 50 ohm		

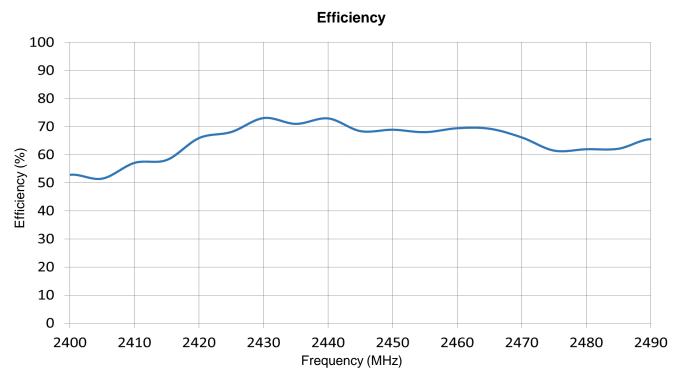


2.4 GHz KYOCERA AVX Cabled Ceramic Patch Antenna Specifications KYOCERA AVX produces a wide variety of standard and custom antennas to meet user needs

Return Loss and Efficiency Plots

Typical performance in free-space.



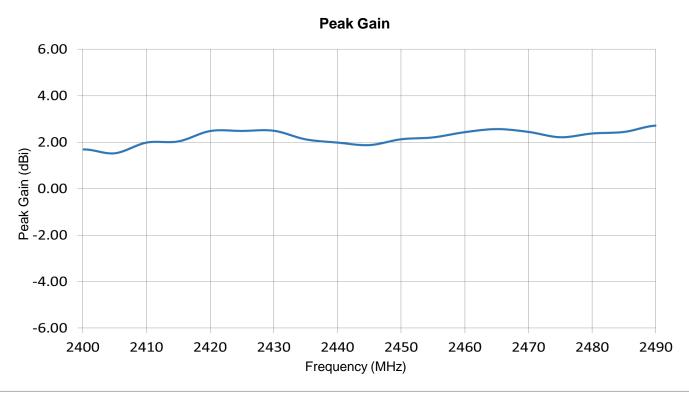




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Peak Gain Plot

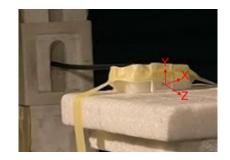
Typical performance in free-space.

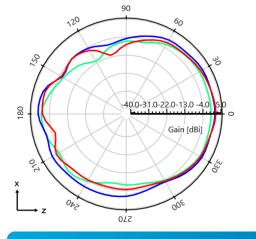


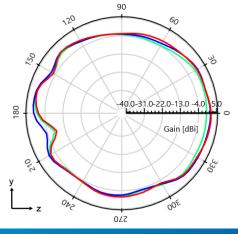
Antenna Radiation Patterns

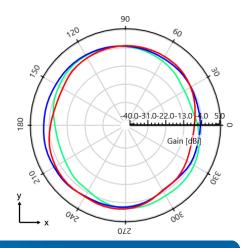
Typical performance in free-space. Measured at (2400, 2440, 2480) MHz











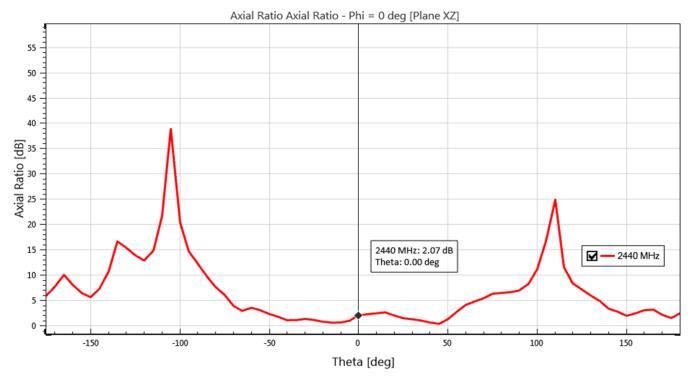


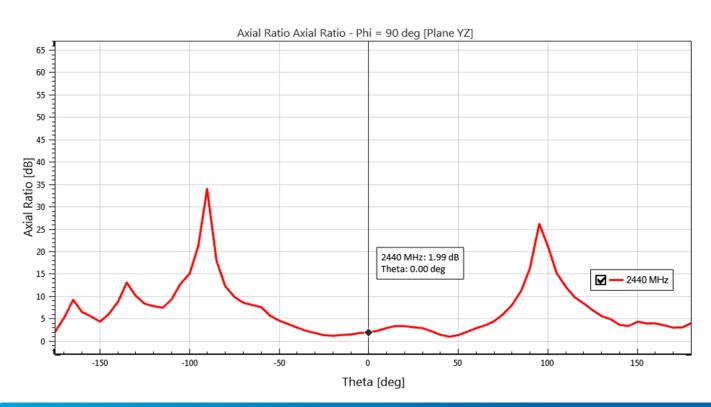
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Axial Ratio YZ, XZ Plots

Typical performance in free-space.

Measured @ 2440 MHz





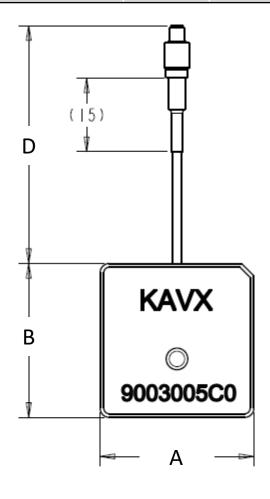


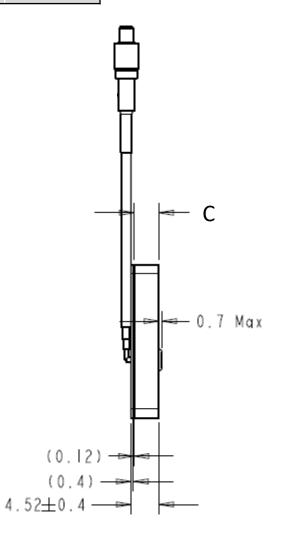
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Mechanical Dimensions

Typical antenna dimensions, in mm.

Part Number	Α	В	С	D
9003005C0-AM20L0060	25.0 ± 0.2	25.0 ± 0.2	4.0	60.0 ± 2.0





Top View

Side View