

Part No. X1005800

External Wi-Fi 6E/7 Antenna

2400 - 2480; 5150 – 5850; 5925 - 7125 MHz
Supports: : Wi-Fi applications, Bluetooth, ZigBee, WLAN



KYOCERA AVX's X1005800 is a high-performing external outdoor Wi-Fi 6E/7 antenna. It is IP67 waterproof.

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 – 2485 MHz
5150 – 5850 MHz
5925 – 7125 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's technology helps you deliver more advanced ergonomic designs without adverse impact on product performance.

Environmental Compliance

Comply with latest RoHS and REACH requirements

APPLICATIONS

- Healthcare (FDA Class I) Applications
- Smart Home networking / Gateway
- M2M, Industrial devices
- IoT devices
- Tracking
- Remote Access Monitoring
- Sensing and Remote monitoring

Electrical Specifications

Typical X1005800 performance

Frequency (MHz)	2400 - 2480	5150 - 5850	5925 - 7125
Peak Gain	4 dBi	5.3 dBi	5.6 dBi
Average Efficiency	85%	84%	73%
VSWR Match	2.1:1	1.4:1	1.7:1
Polarization	Linear		
Power Handling	2 Watt CW		
Feed Point Impedance	50 Ω unbalanced		

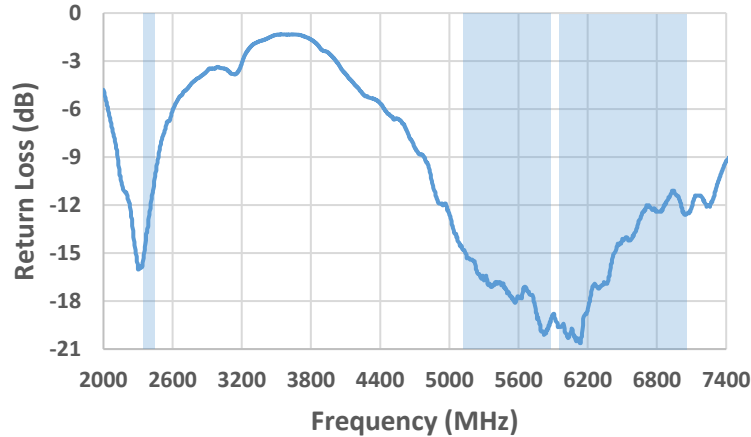
Mechanical Specifications & Ordering Part Number

Ordering Part #	X1005800-W5DRMB
Dimensions (mm)	163.7 x 32.7 x 22.5
Mounting Type	Connector
Housing Material	PC
Storage Temperature/ Humidity (Sealed shipping package)	55°C 95%
Operating Temperature	-40°C to +85°C
Weight (grams)	25.5
Connector / Cable Length	RP-SMA Plug
IP Rating	IP67

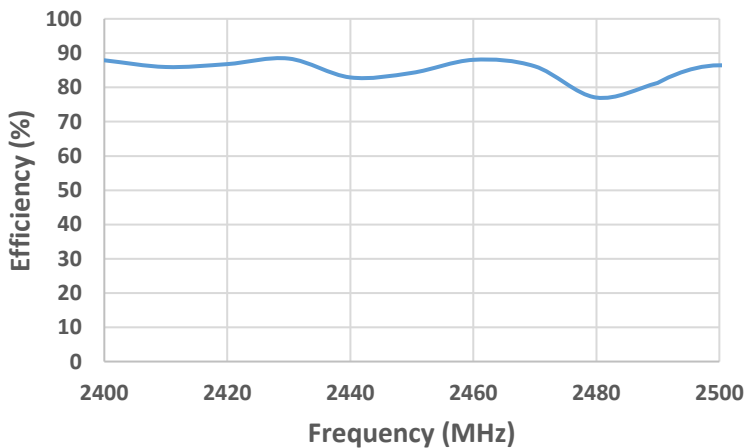
X1005800 External Wi-Fi 6E/7 KYOCERA AVX Embedded Antenna Specifications.
 KYOCERA AVX produces a wide variety of standard and custom antennas to meet user needs.

Return Loss and Efficiency

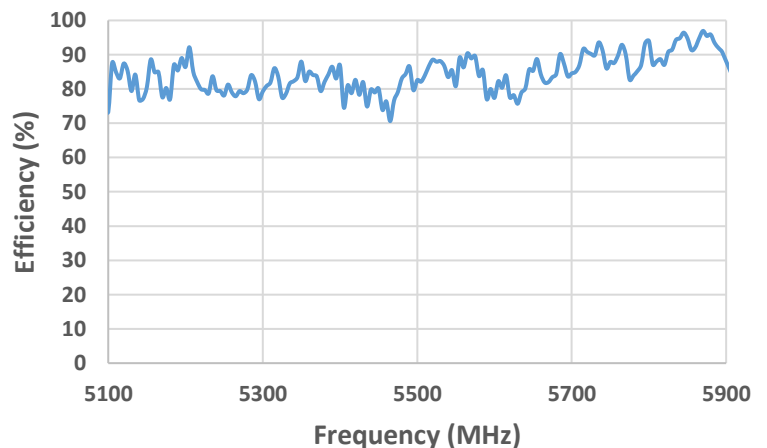
Return Loss (2000 – 7400 MHz)



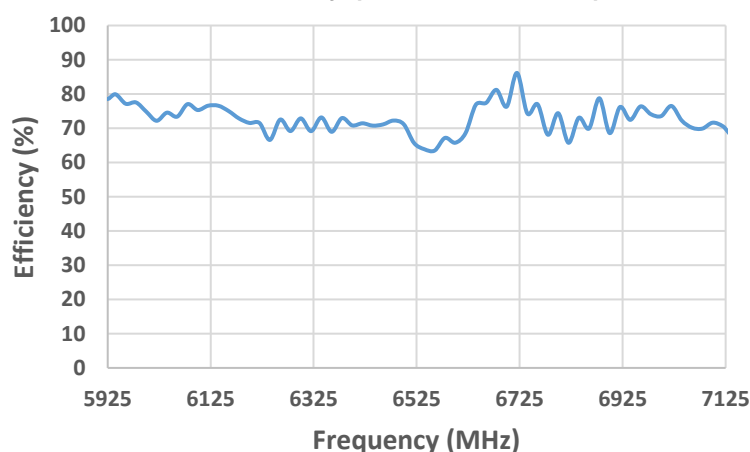
Efficiency (2400 – 2500 MHz)



Efficiency (5100 – 5900 MHz)



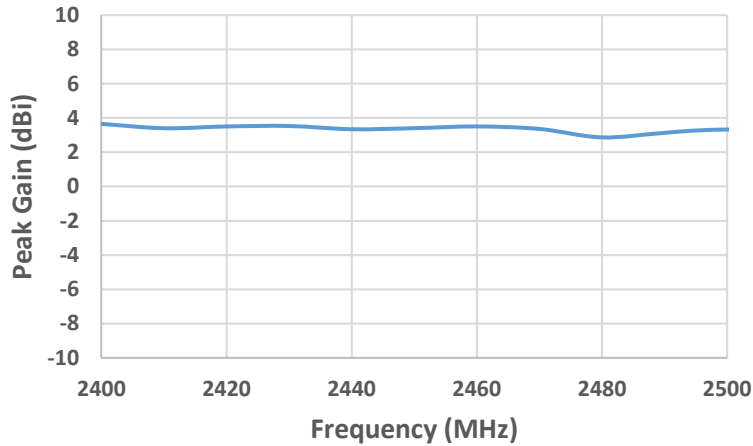
Efficiency (5925 – 7125 MHz)



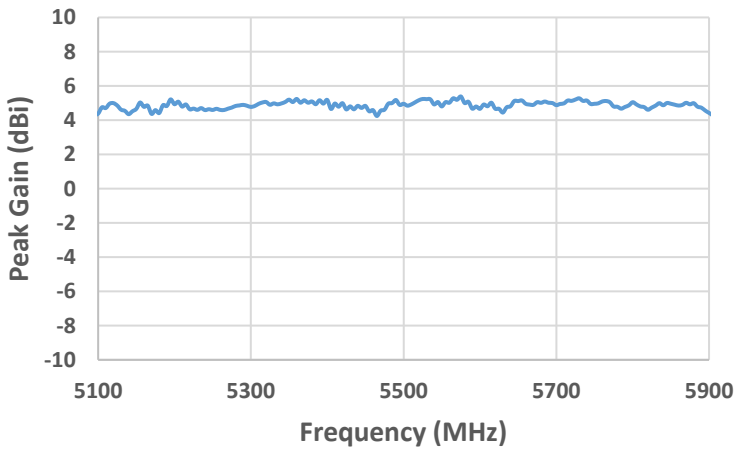
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Peak Gain

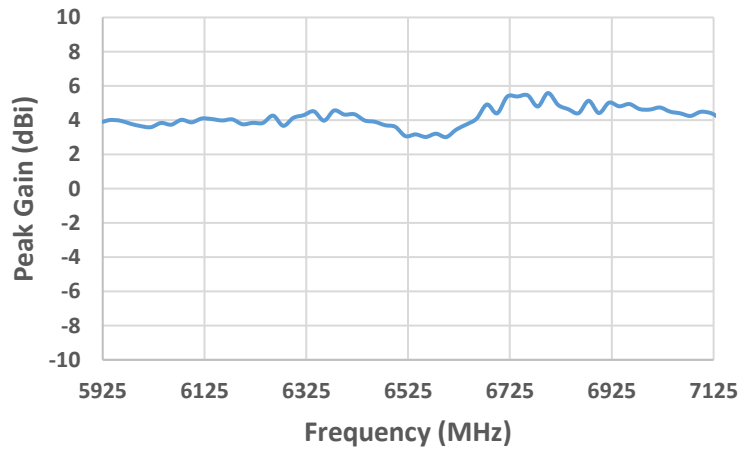
Peak Gain (2400 – 2500 MHz)



Peak Gain (5100 – 5900 MHz)



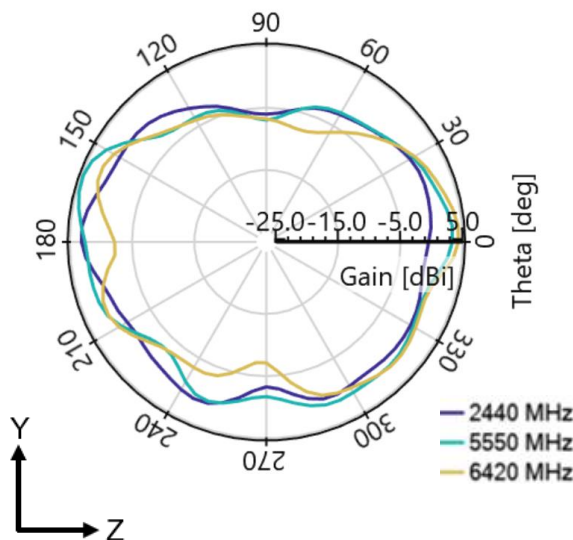
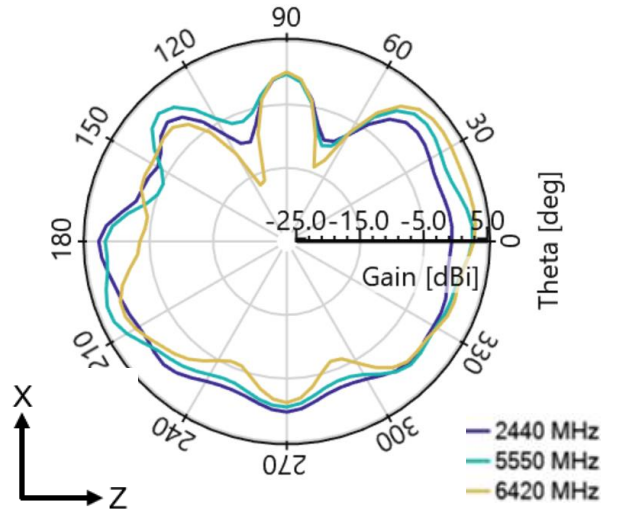
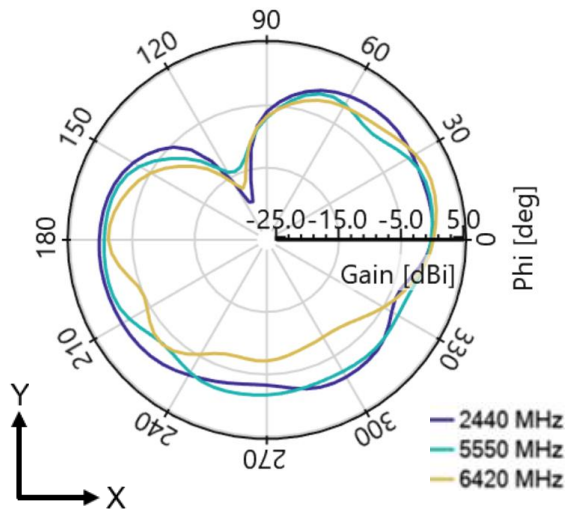
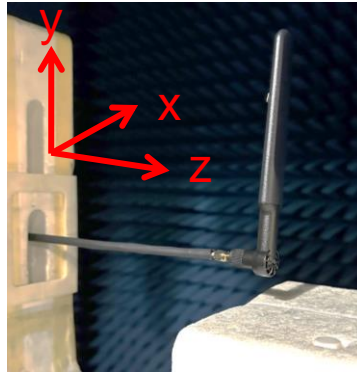
Peak Gain (5925 – 7125 MHz)



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Radiation Pattern

Typical performance X1005800 performance in Free Space
 Measured at 2.44 GHz, 5.55 GHz, 6.42 GHz

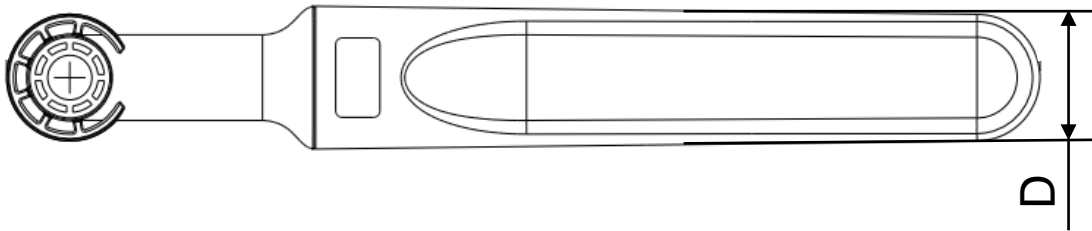


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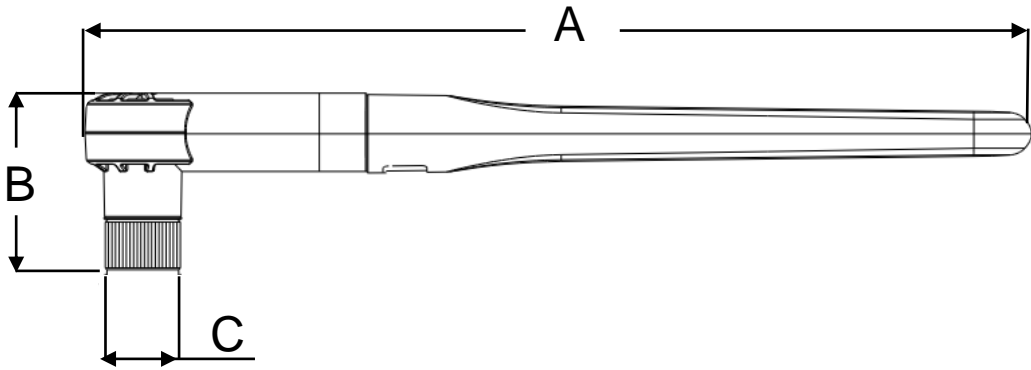
Mechanical Dimensions - X1005800

Typical antenna dimensions (mm)

Part Number	A	B	C	D
X1005800-W5DRMB	163.40 ± 0.30	32.80 ± 0.30	13.10 ± 0.30	22.5 ± 0.30



Front View (Straight)



Side View (90°)