Part No. X1005246-4GA1SA10A1

LTE External Antenna

698-960; 1710-2170; 2300-2690 MHz

Supports: LTE, LTE CAT-M, NB-IoT, Cellular LPWA

KYOCERA AVX's LTE external antenna delivers on the key needs of device designers for higher functionality and performance within a thin sleek design.

LTE External Antenna

698 - 960 MHz
1710 - 2170 MHz
2300 - 2690 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 & REACH version compliant.

APPLICATIONS

- Remote Monitoring
- Point of Sale
- IoT
- Gateway
- Telematics
- Tracking
- Agriculture
- M2M, Industrial devices
- Smart Grid
- Logistics
- Energy
- Retail

Electrical Specifications

Typical characteristics in free-space

Frequency (LTE)	698 - 960 MHz	1710 - 2170 MHz	2300 - 2690 MHz
Peak Gain	2.8 dBi	3.1 dBi	2.7 dBi
Average Efficiency	46%	54%	44%
VSWR	1.8:1 max	1.5:1 max	2.0:1 max
Impedance		50 Ω	

Mechanical Specifications

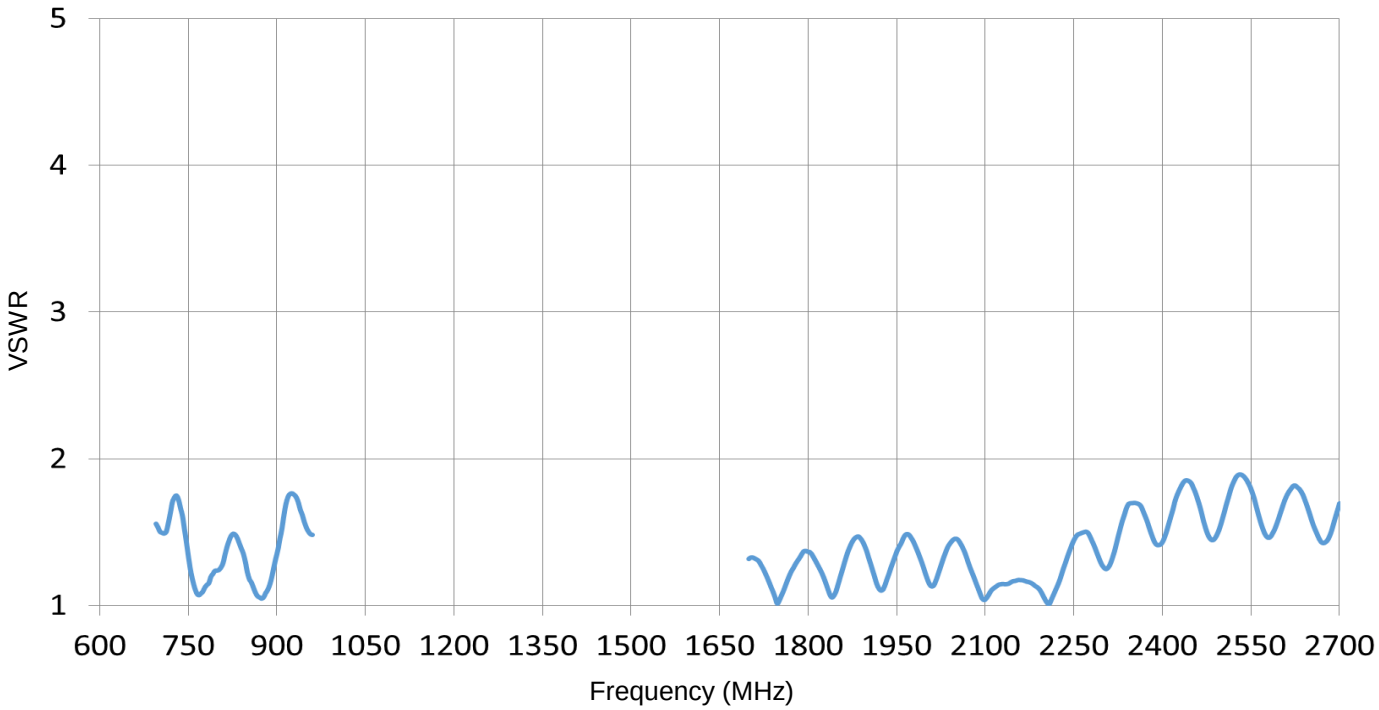
Ordering Part #	X1005246-4GA1SA10A1
Dimensions (mm)	105.1 x 30.1 x 6.7
Mounting Type	Adhesive Foam
Operating Temperature (°C)	-40 ~ +85
Weight (grams)	36
Housing Material & Color	PC + ABS (Black)
Cable	Length: 1M Type: RG-174
Connector	LTE SMA(M)
Waterproof	IPX7

LTE External Antenna Specifications.
KYOCERA AVX produces a wide variety of standard and custom antennas to meet user needs.

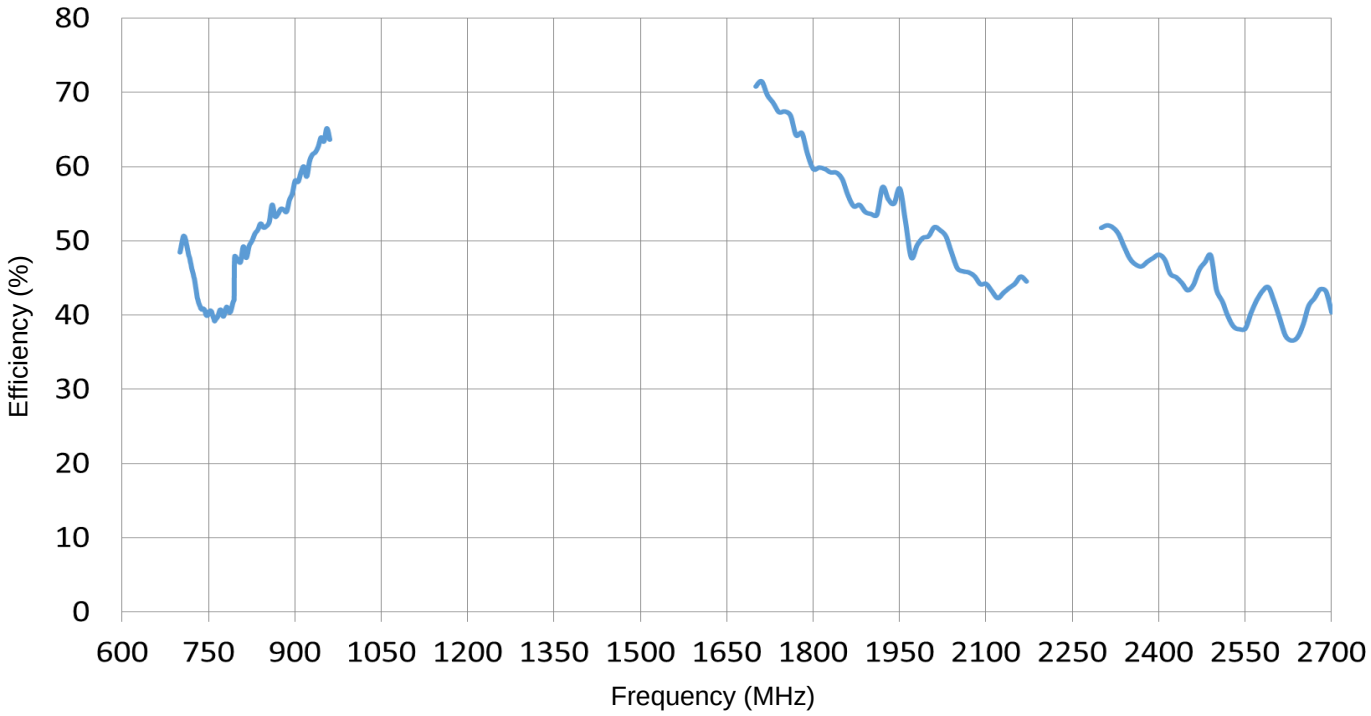
VSWR, Efficiency Plots (LTE 698-2690 MHz)

Typical characteristics in free-space

VSWR:



Efficiency:



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email: antenna.info@kyocera-avx.com
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LTE External Antenna Specifications.
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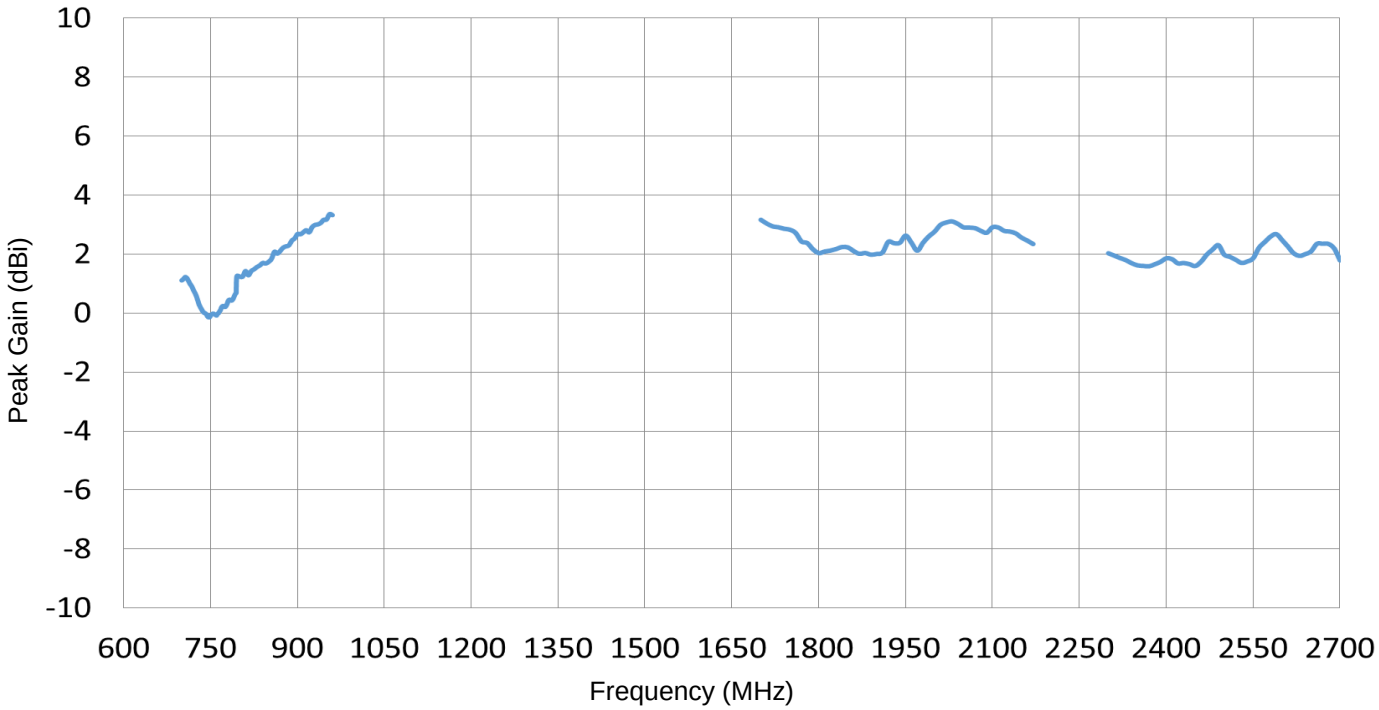
Peak Gain Plots (LTE 698-2690 MHz)

Typical characteristics in free-space

Peak Gain:



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LTE External Antenna Specifications.
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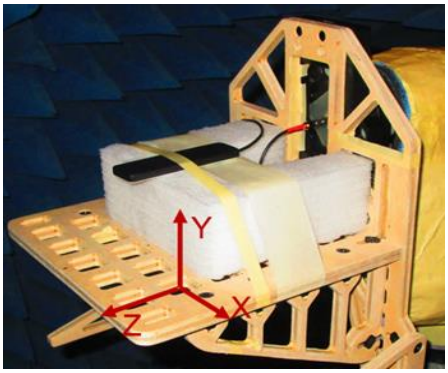
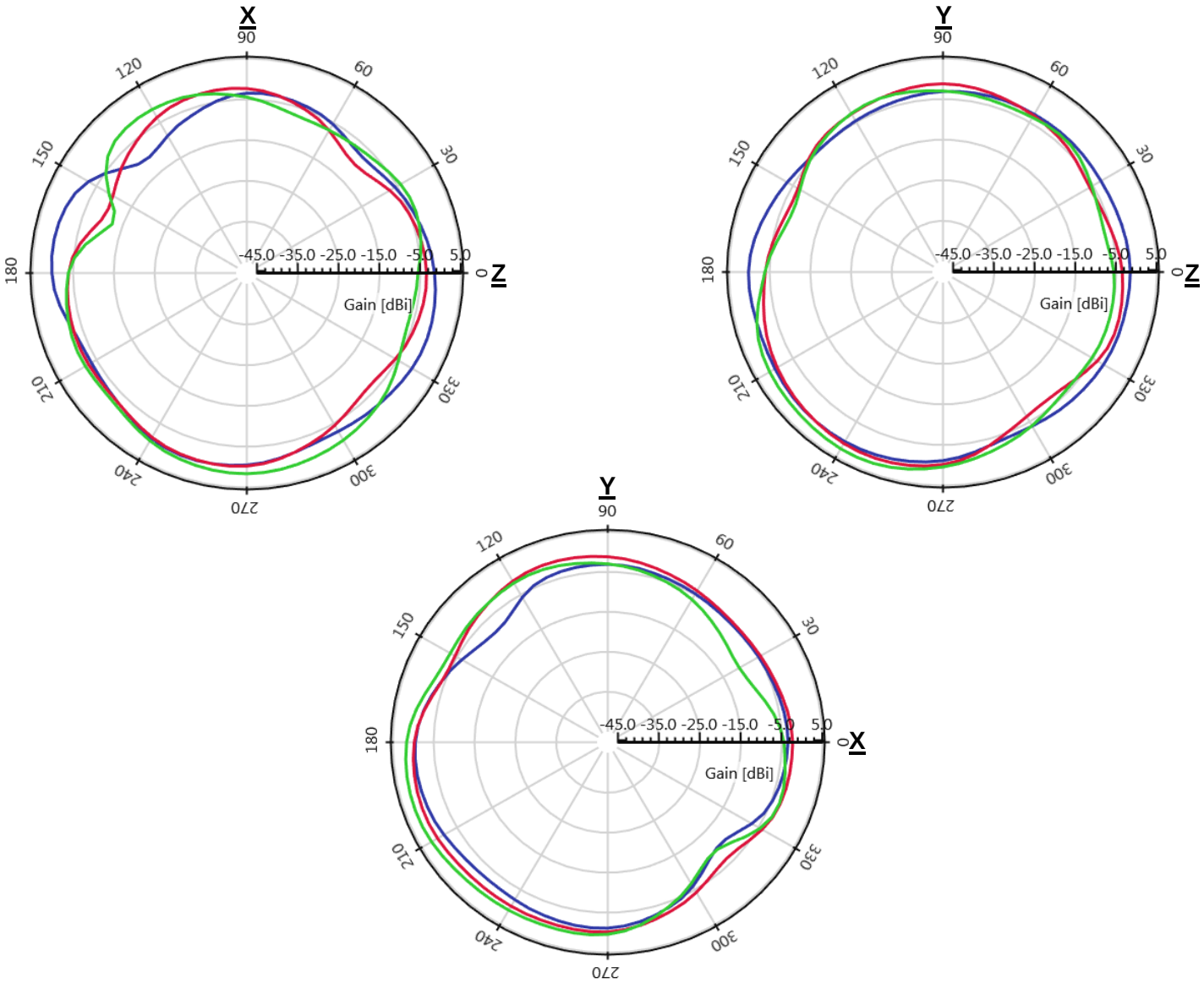
2D Radiation Patterns (LTE 698-960 MHz)

Typical characteristics in free-space





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LTE External Antenna Specifications.
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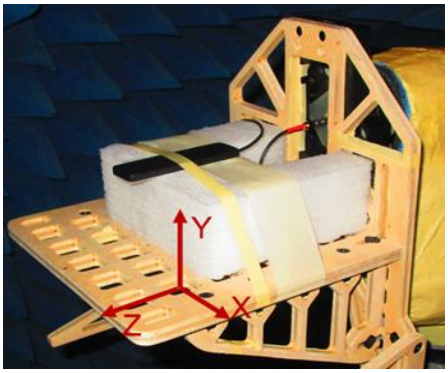
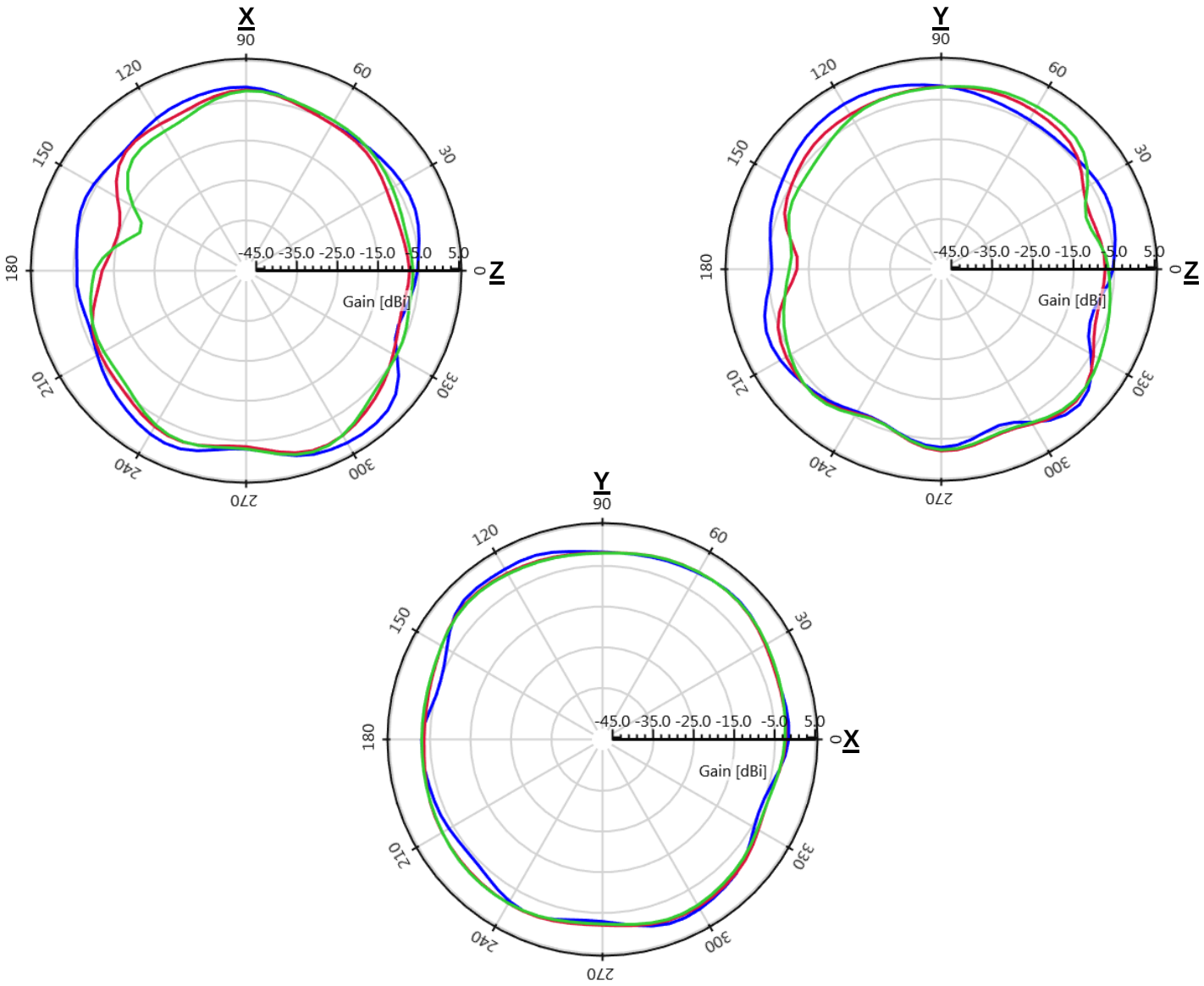
2D Radiation Patterns (LTE 1710-2170 MHz)

Typical characteristics in free-space





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LTE External Antenna Specifications.
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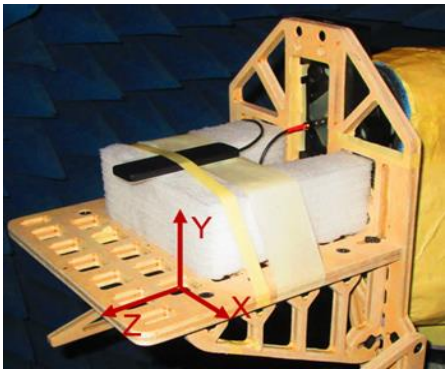
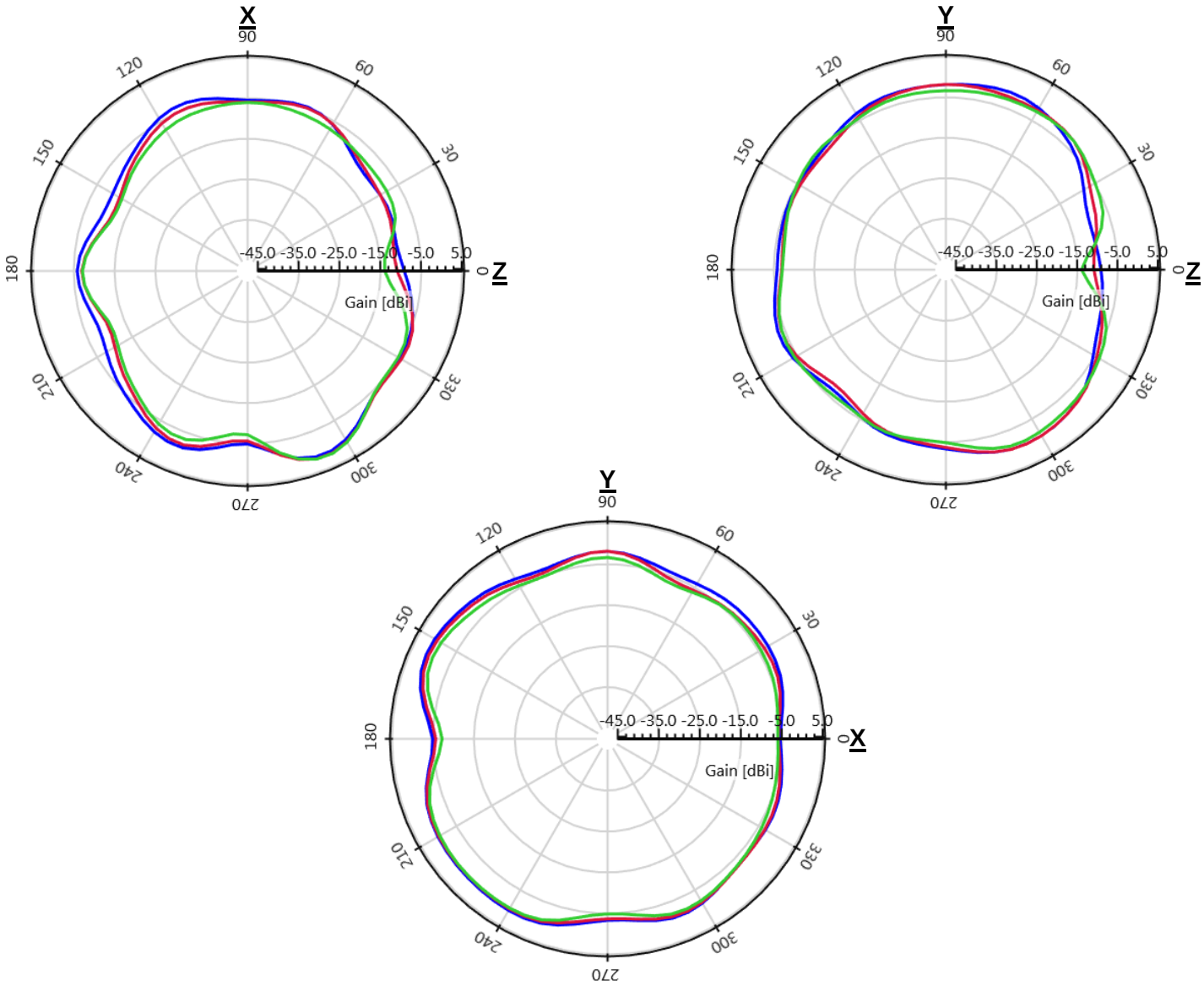
2D Radiation Patterns (LTE 2300-2690 MHz)

Typical characteristics in free-space





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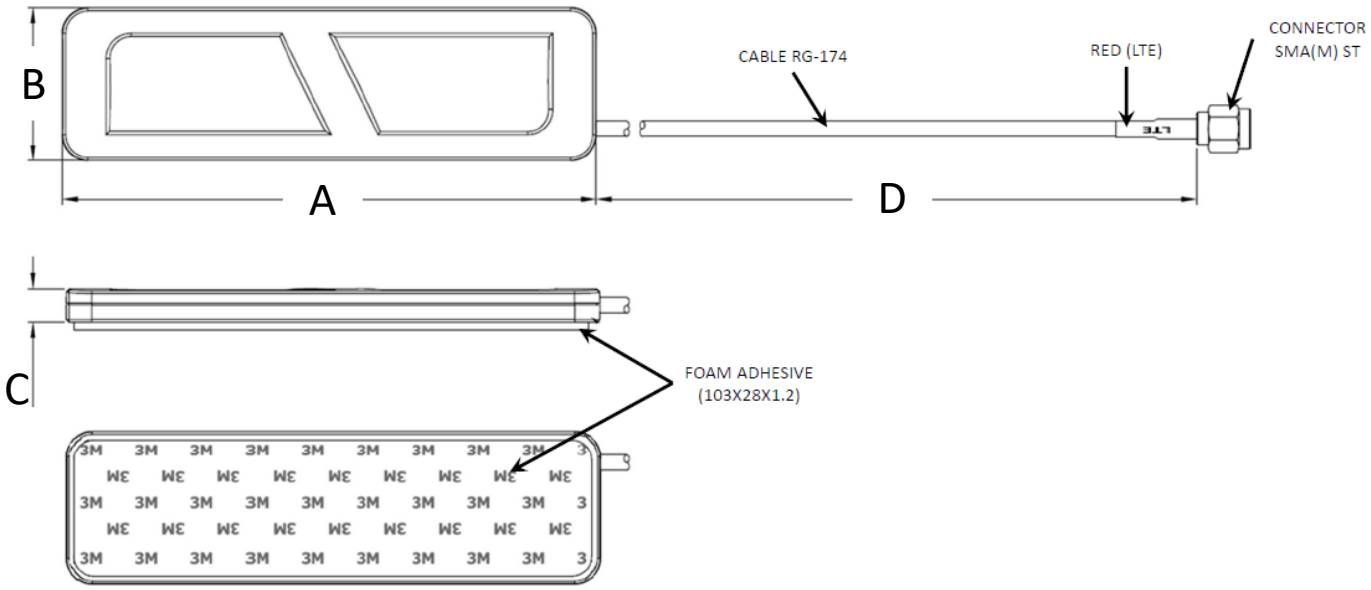
LTE External Antenna Specifications.
KYOCERA AVX produces a wide variety of standard and custom antennas to meet user needs.

Mechanical Dimensions

Typical antenna dimensions (mm)

Part Number	A (mm)	B (mm)	C (mm)	D (mm)
X1005246-4GA1SA10A1	105.1 ± 3.0	30.1 ± 1.5	6.7 ± 1.0	1000 ± 40.0



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