

Part No. X1005619-4GDSMB

External 4G Antenna

698-960 MHz; 1710-2700 MHz

Supports: Broadband LTE, 4G, LTE CAT-M, NB-IoT, Cellular LPWA



KYOCERA AVX X1005619 external antenna delivers on the key needs of device designers for higher functionality and performance across the LTE/4G frequency bands. Its hinged connector and low-profile design allows for diverse integration and functionality.

External 4G Antenna

Low Band: 698 – 960 MHz

High Band: 1710 – 2700 MHz

KEY BENEFITS

Stay-in-Tune

KYOCERA AVX antenna technology provides superior RF field containment, resulting in less interaction with surrounding components.

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

- External design
- Cellular, Headsets, Tablets
- Handheld
- Telematics
- Tracking
- Healthcare
- M2M, Industrial devices
- Smart Grid
- OBD-II

Electrical Specifications

Typical Performance in Free space

Frequency (MHz)	698-800	800-960	1710-2700
Peak Gain	1.8 dBi	1.8 dBi	5.2 dBi
Average Efficiency	51%	62%	63%
Return Loss (dB)	< 13.5:1	< 3:1	< 2.5:1
Feed Point Impedance	50Ω unbalanced		
Polarization	Linear		
Max Power	5.0 W		

Mechanical Specifications & Ordering Part Number

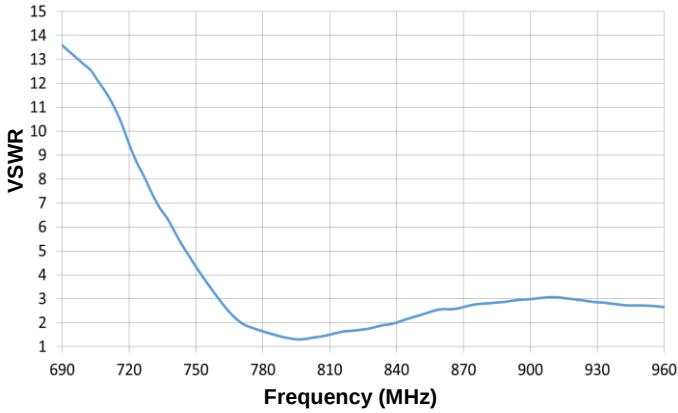
Ordering Part #	X1005619-4GDSMB
Dimensions (mm)	201.0 x Ø13.0
Connector	SMA Connector Male (Plug), Hinged
Weight (grams)	18
Mounting	External Mounting Antenna
Compliance	RoHS, WEEE
Color	Black

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

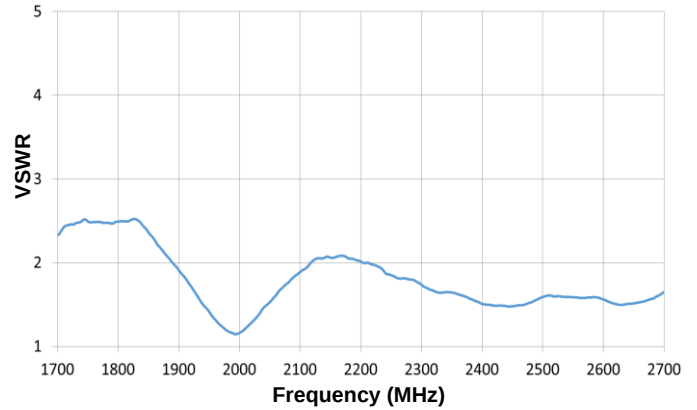
VSWR, Efficiency and Peak Gain Plots

Typical Performance in Freespace

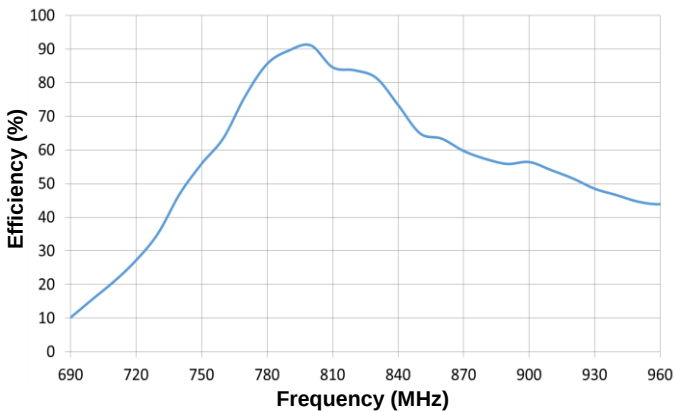
Low Band VSWR



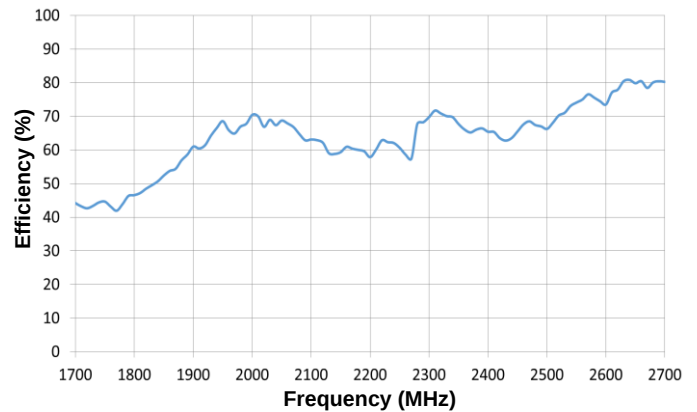
High Band VSWR



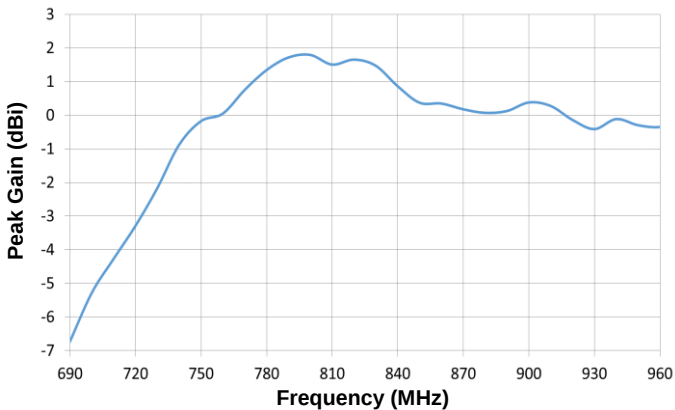
Low Band Efficiency



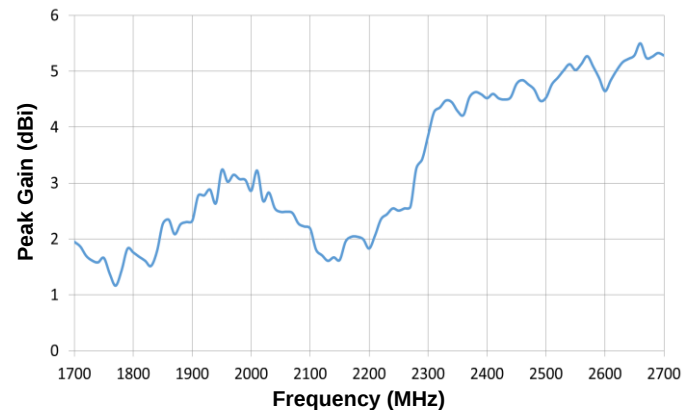
High Band Efficiency



Low Band Peak Gain



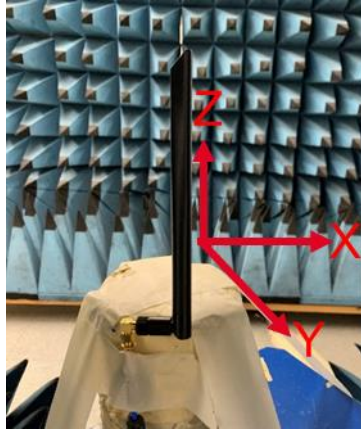
High Band Peak Gain



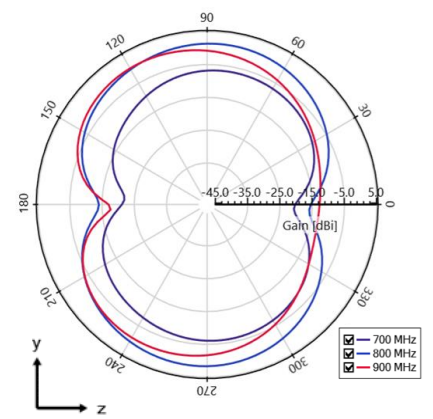
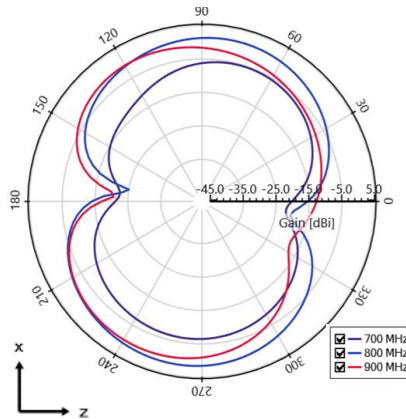
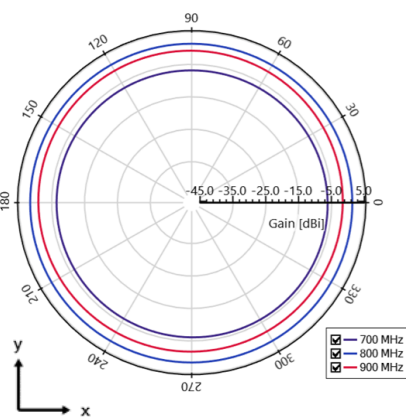
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Antenna Radiation Patterns – Low Band, High Band

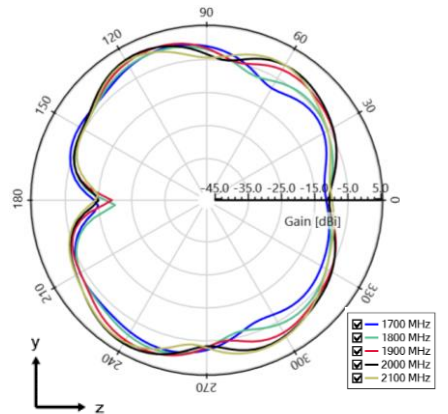
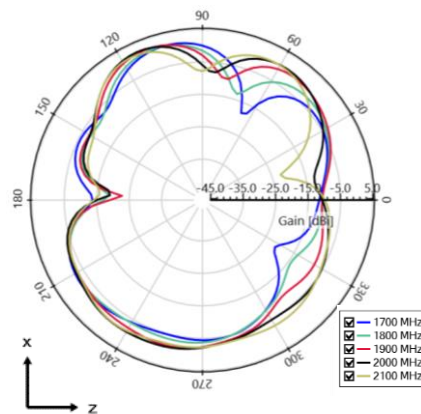
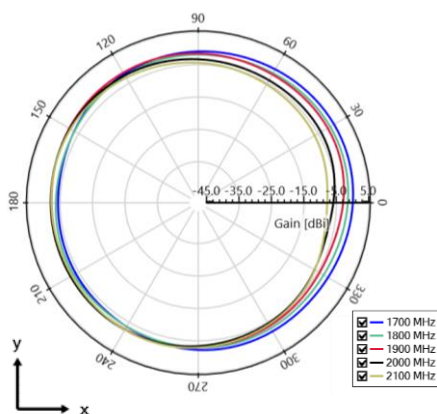
Typical Performance in Freespace



Low Band measured at
700, 800, 900 MHz



High Band measured at
1700, 1800, 1900, 2000, 2100 MHz



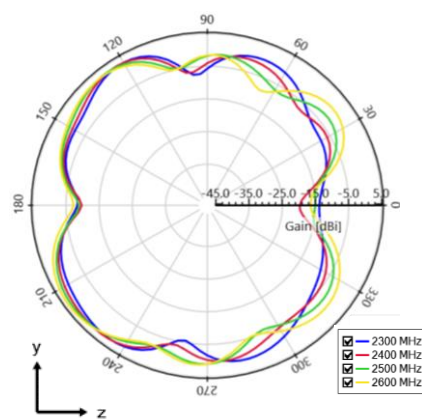
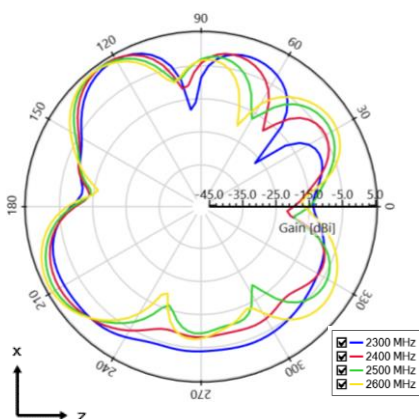
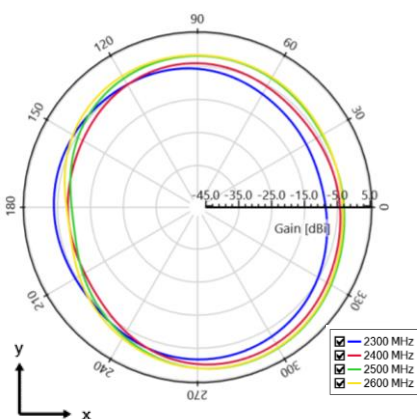
LTE KYOCERA AVX External Antenna Specifications
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Antenna Radiation Patterns – High Band cont.

Typical Performance in Freespace



High Band measured at
2300, 2400, 2500, 2600 MHz



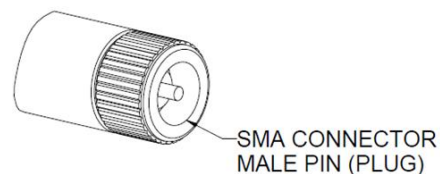
LTE KYOCERA AVX External Antenna Specifications
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Mechanical Dimensions

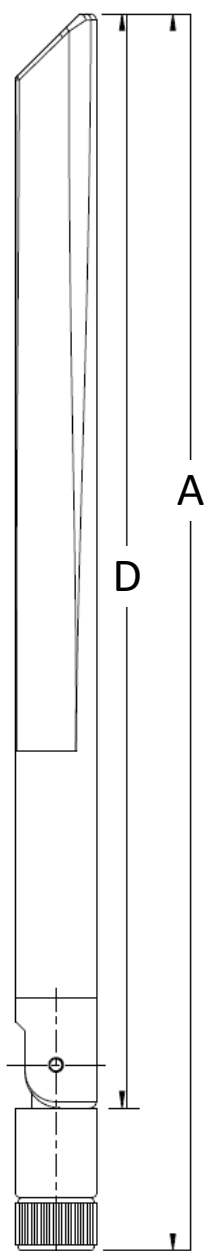
Typical antenna dimensions mm.

Part Number	A	B	C	D
X1005619-4GDSMB	201.0 ± 2.0	(Ø13.0)	(36.7)	(178.0)

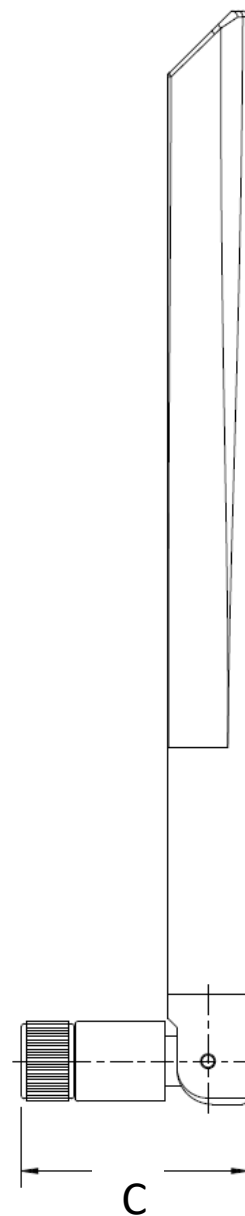
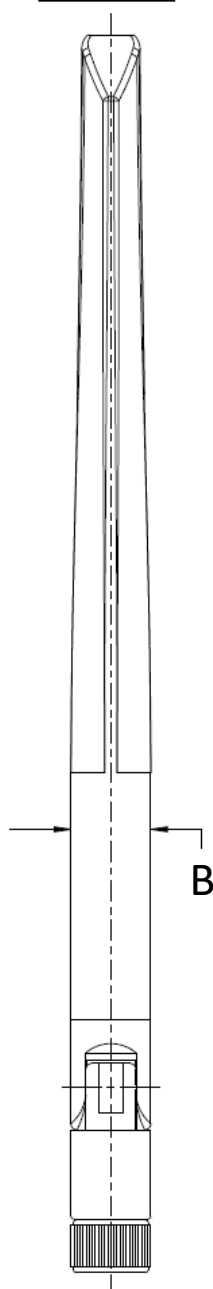
"()" for reference only.



Front View



Side View



Hinge View