

# Part No. X1005246-4GA1SA10A1

## LTE External Antenna

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

Supports: Tracking, Smart Home, Agriculture, Automotive Aftermarket, Healthcare, Digital Signage, Logistics, Industrial Devices



### LTE External Antenna

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

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

### 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

#### 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.

##### Reliability

Products are the latest RoHS & REACH version compliant.

#### APPLICATIONS

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

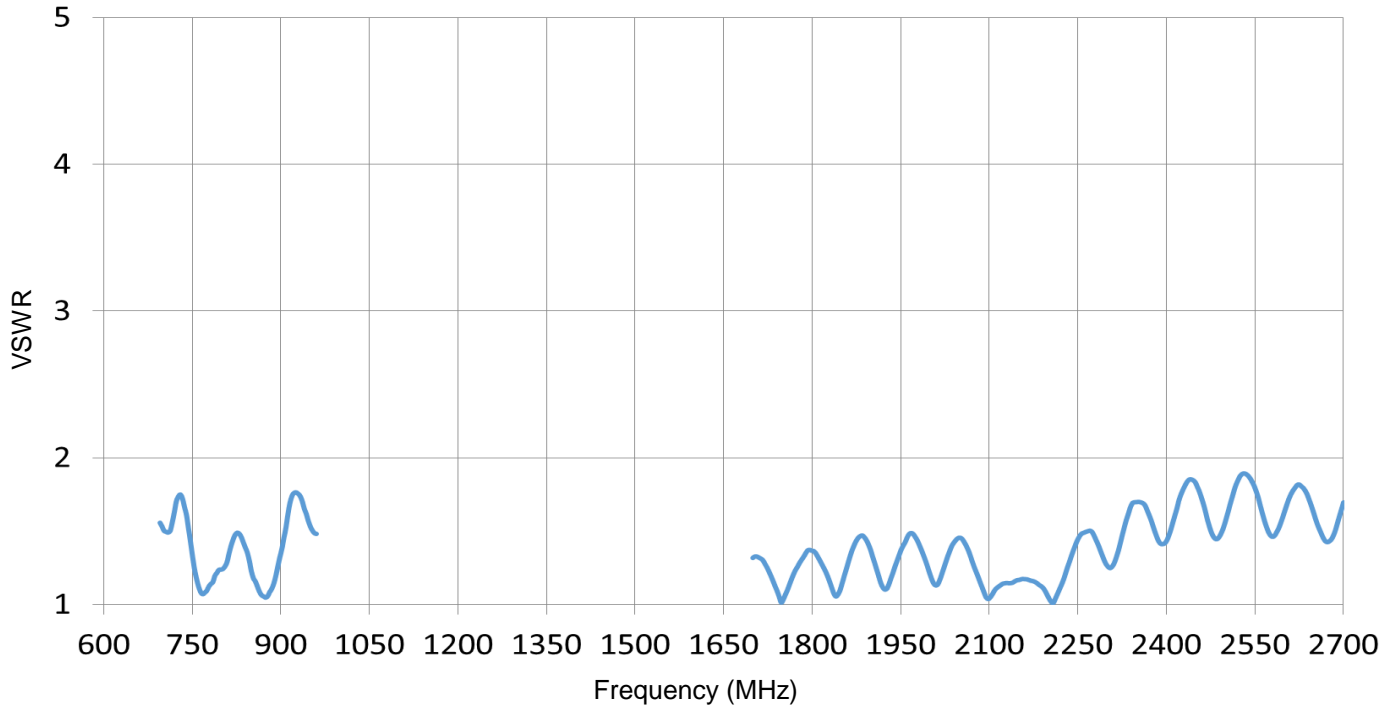


LTE External Antenna Specifications.  
Ethertronics produces a wide variety of standard and custom antennas to meet user needs.

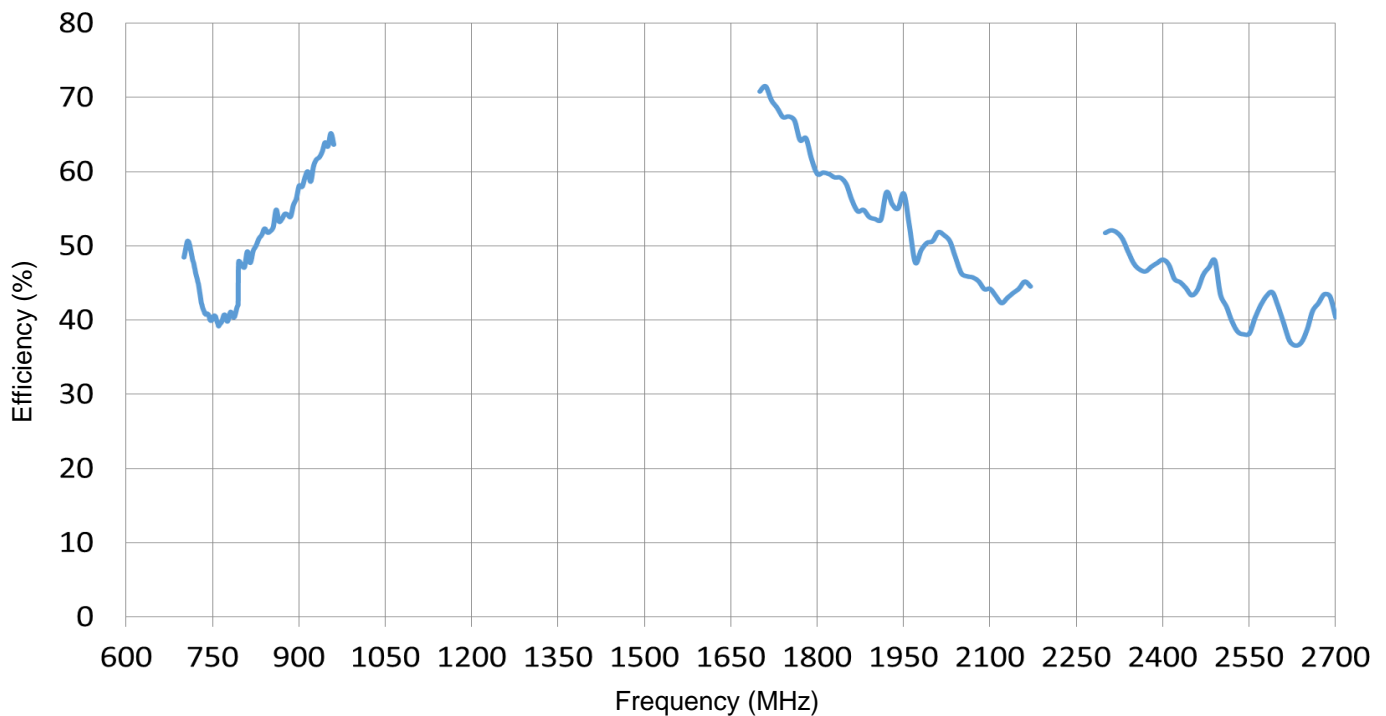
## VSWR, Efficiency Plots (LTE 698-2690 MHz)

Typical characteristics in free-space

### VSWR:



### Efficiency:



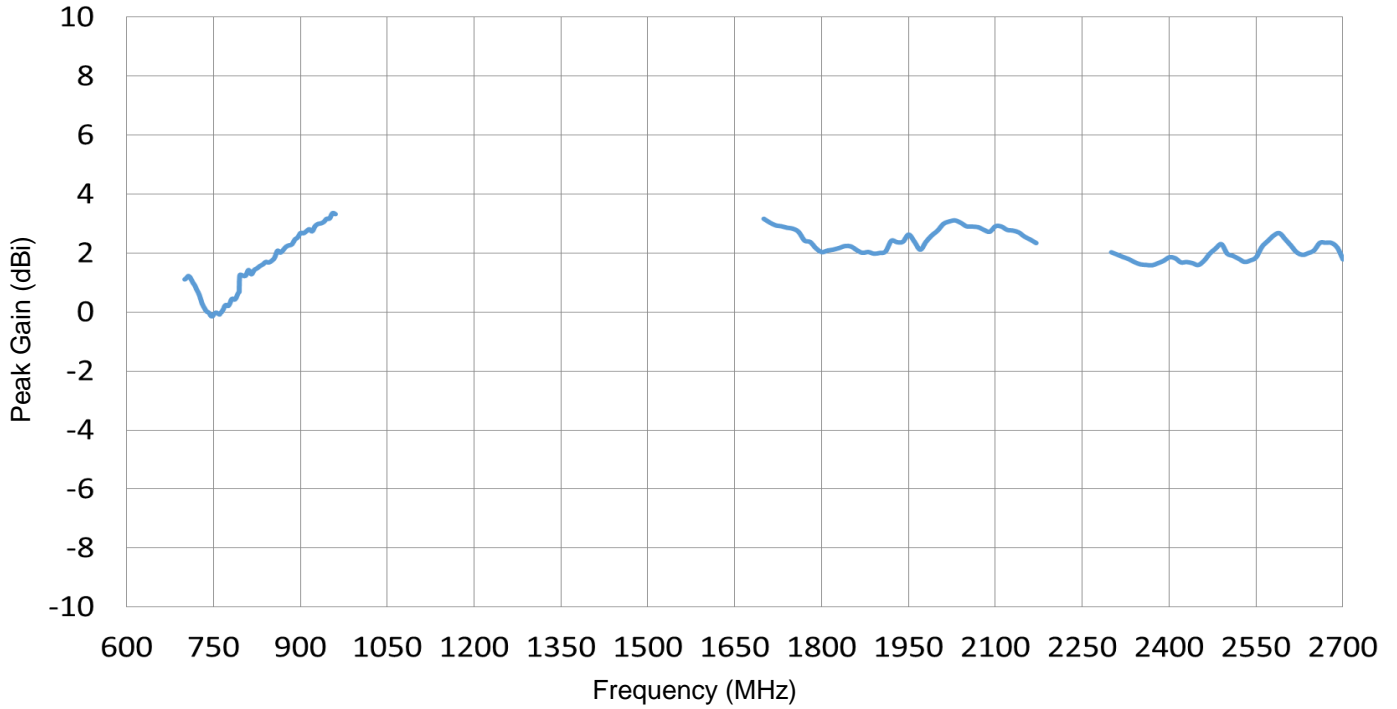


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## Peak Gain Plots (LTE 698-2690 MHz)

Typical characteristics in free-space

### Peak Gain:

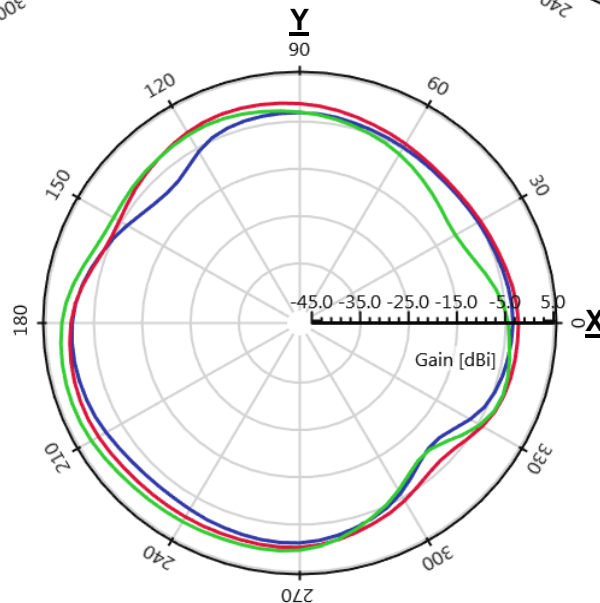
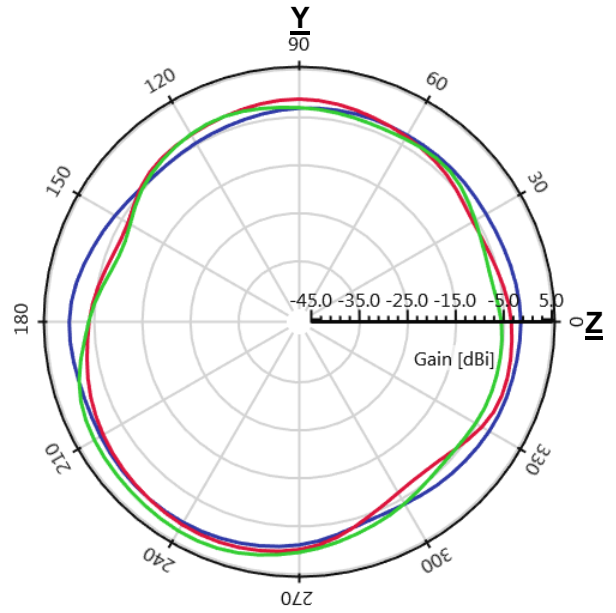
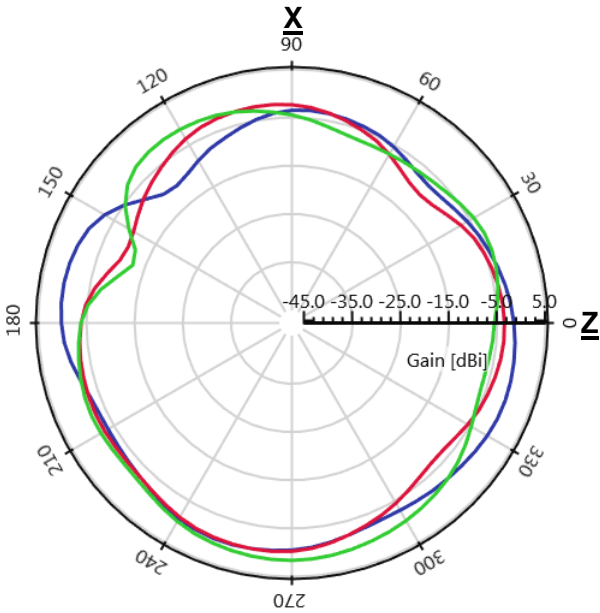
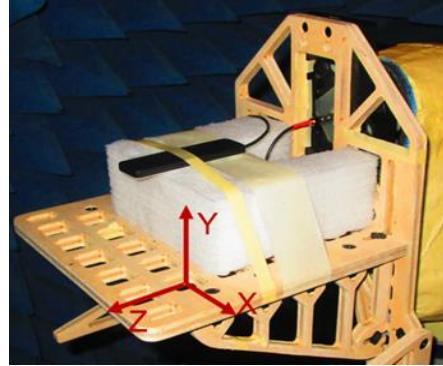




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## 2D Radiation Patterns (LTE 698-960 MHz)

Typical characteristics in free-space

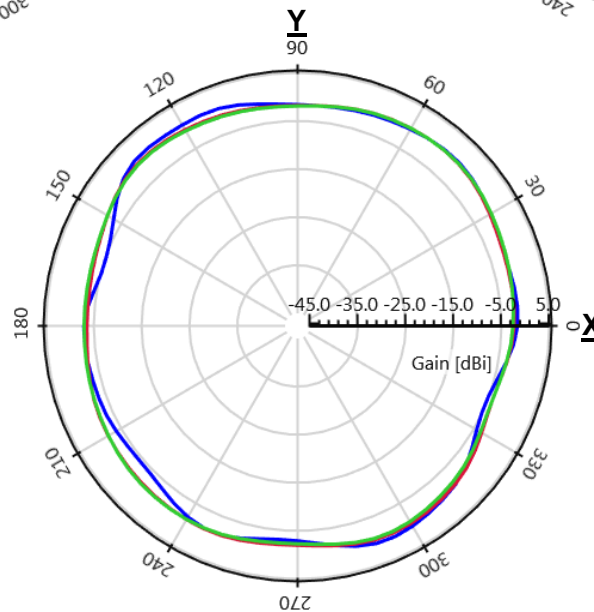
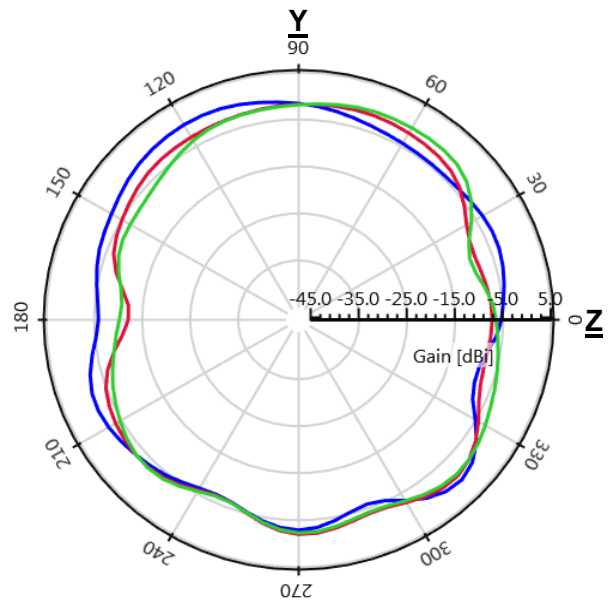
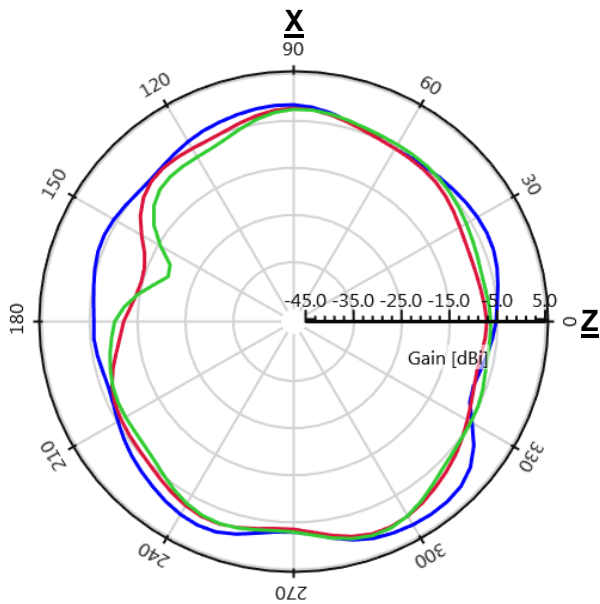
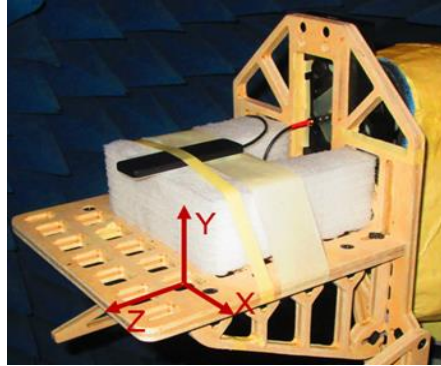
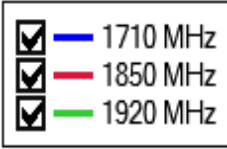




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## 2D Radiation Patterns (LTE 1710-2170 MHz)

Typical characteristics in free-space

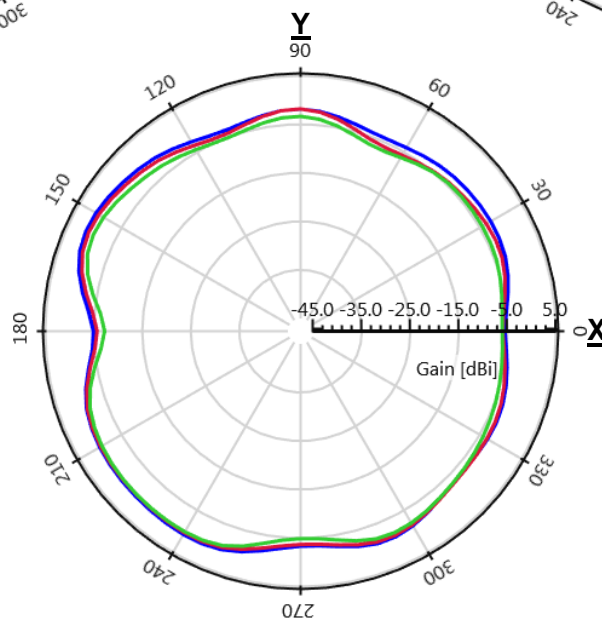
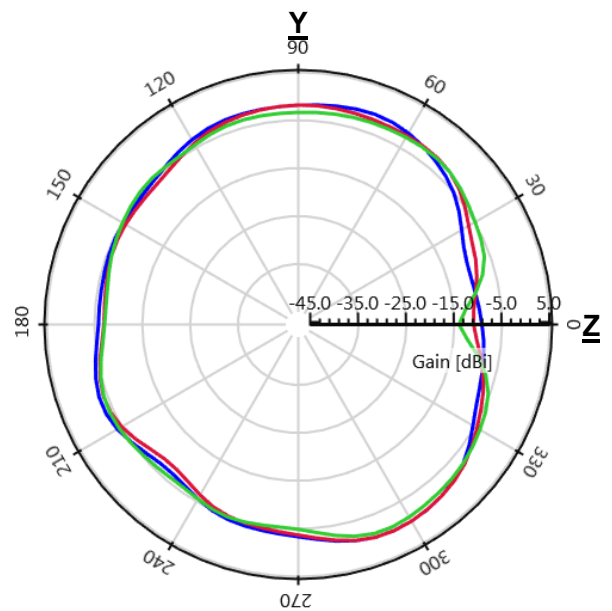
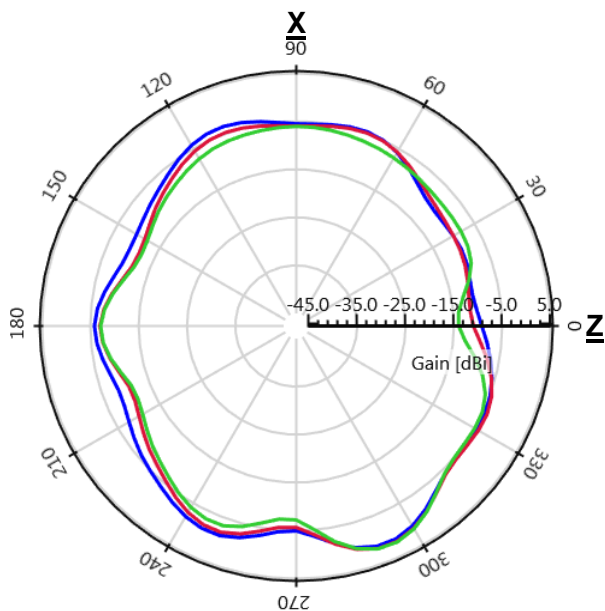
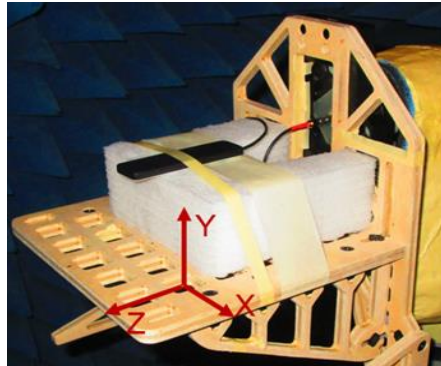
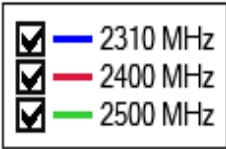




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## 2D Radiation Patterns (LTE 2300-2690 MHz)

Typical characteristics in free-space





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**Mechanical Dimensions**

Typical antenna dimensions (mm)

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

