

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

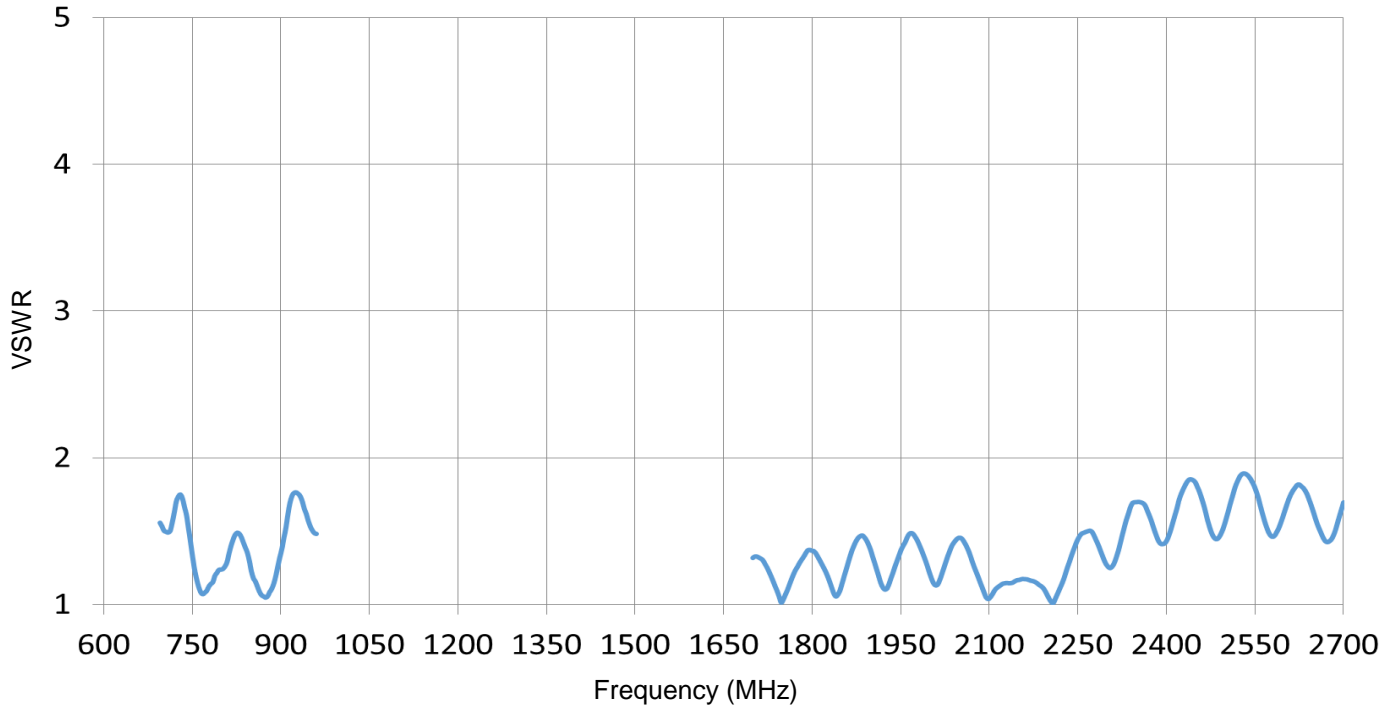


LTE External Antenna Specifications.
Ethertronics produces a wide variety of standard and custom antennas to meet user needs.

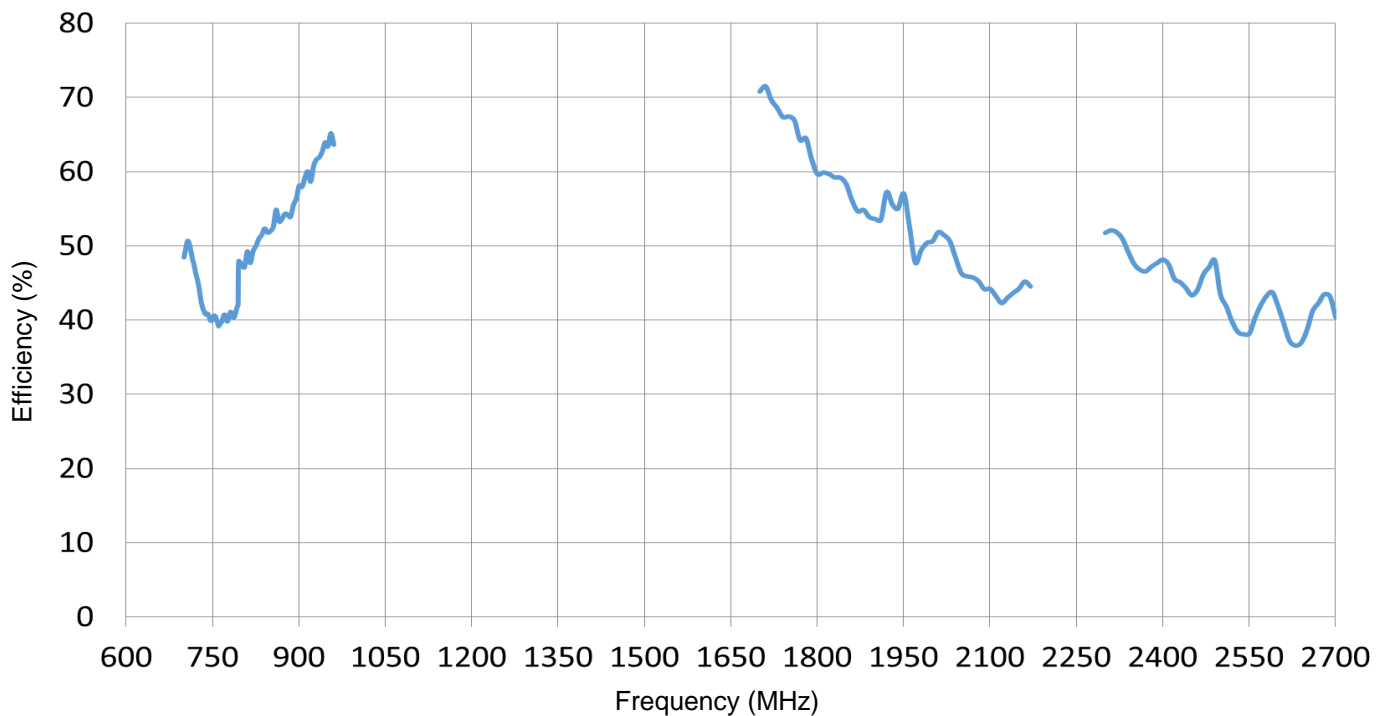
VSWR, Efficiency Plots (LTE 698-2690 MHz)

Typical characteristics in free-space

VSWR:



Efficiency:



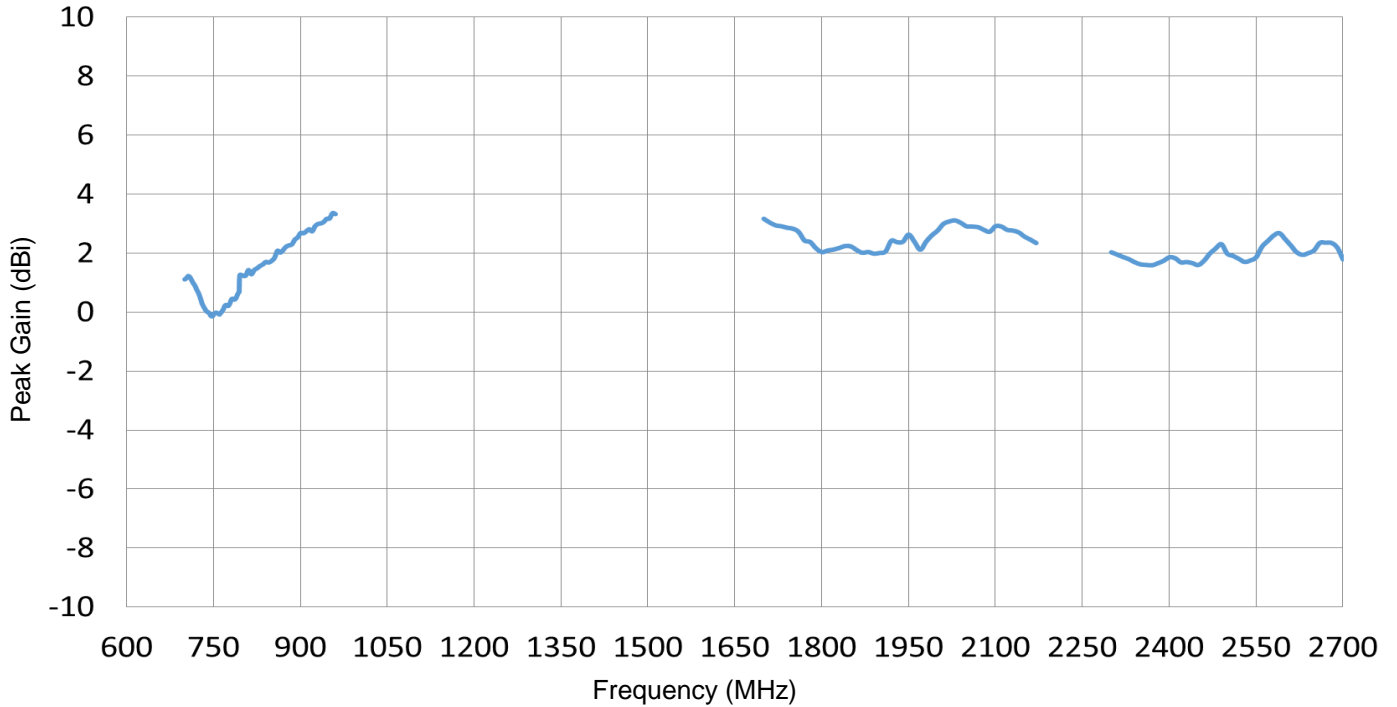


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Peak Gain Plots (LTE 698-2690 MHz)

Typical characteristics in free-space

Peak Gain:

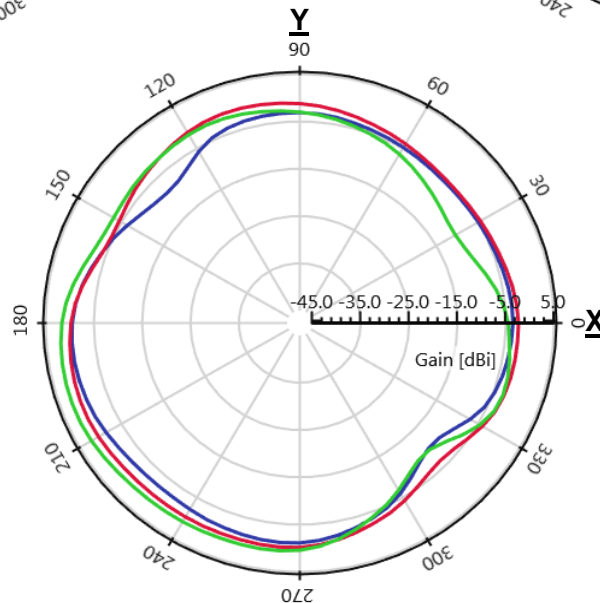
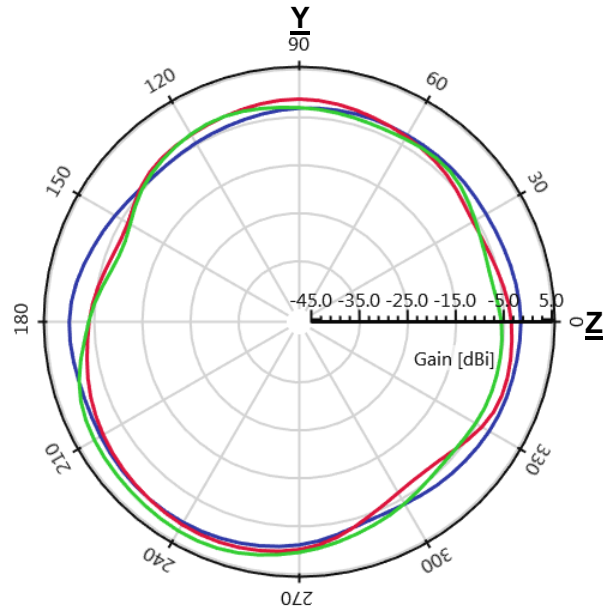
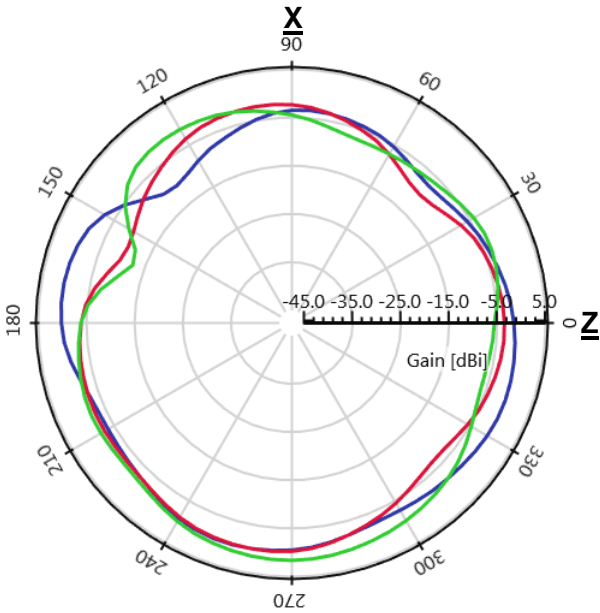
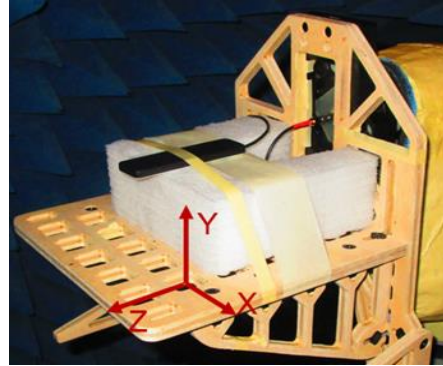




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2D Radiation Patterns (LTE 698-960 MHz)

Typical characteristics in free-space

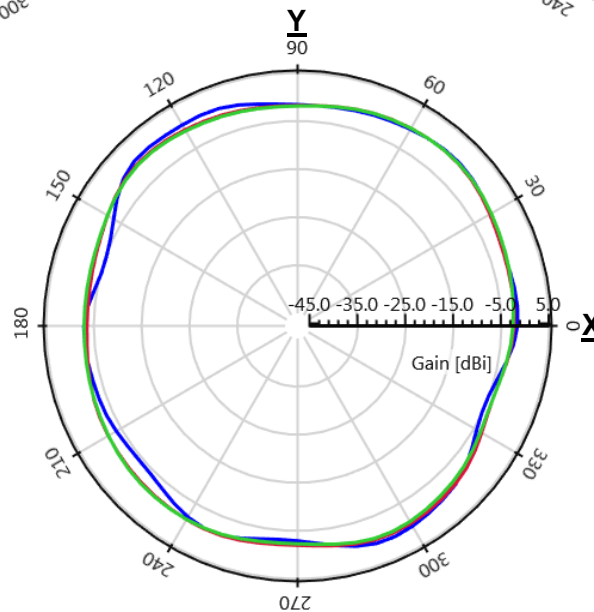
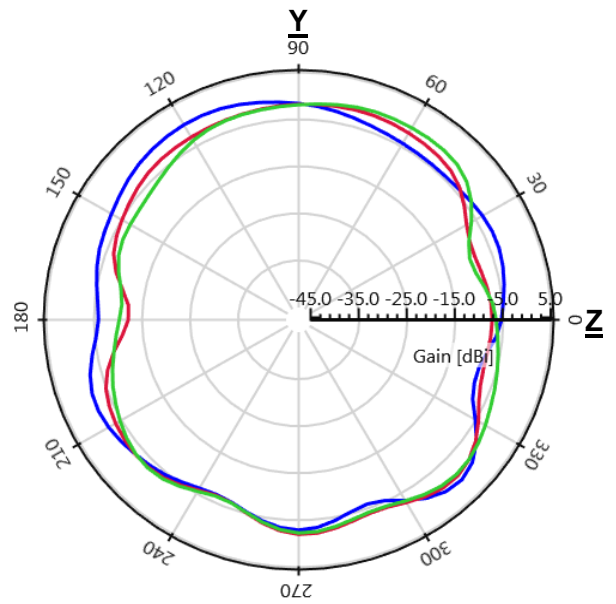
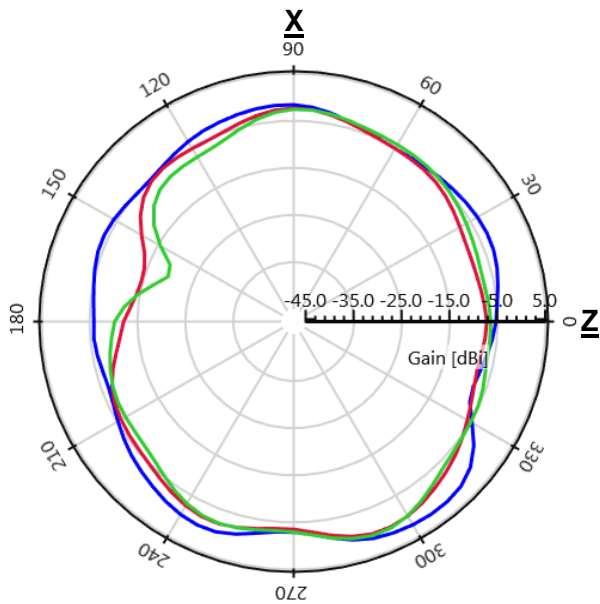
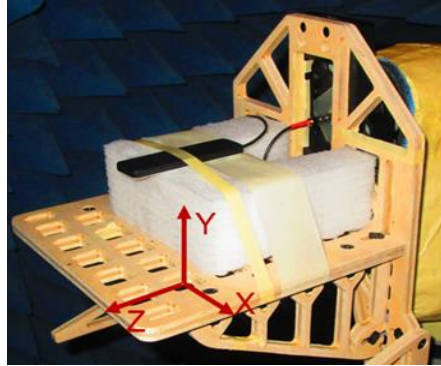
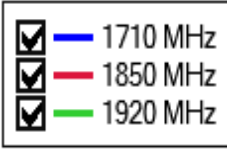




LTE External Antenna Specifications.
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2D Radiation Patterns (LTE 1710-2170 MHz)

Typical characteristics in free-space

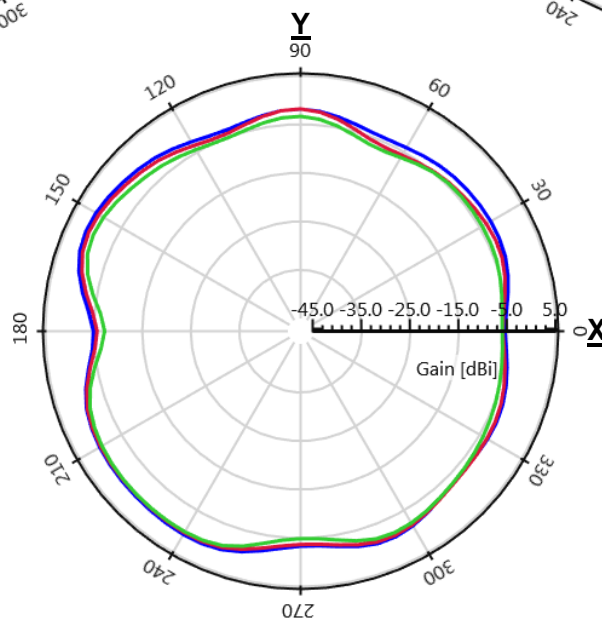
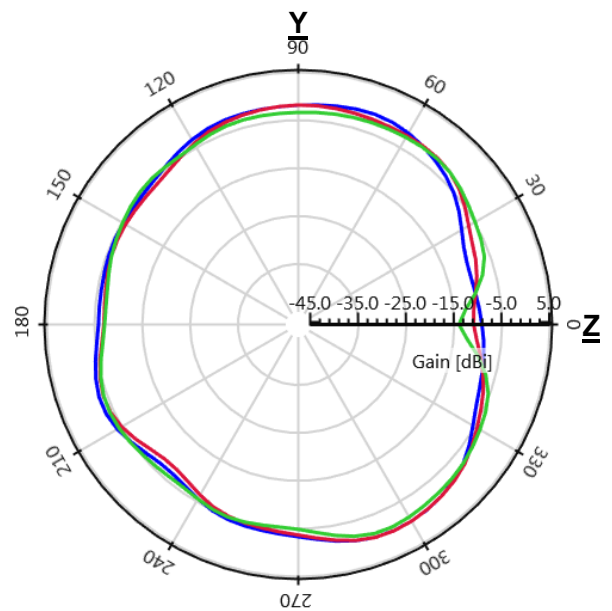
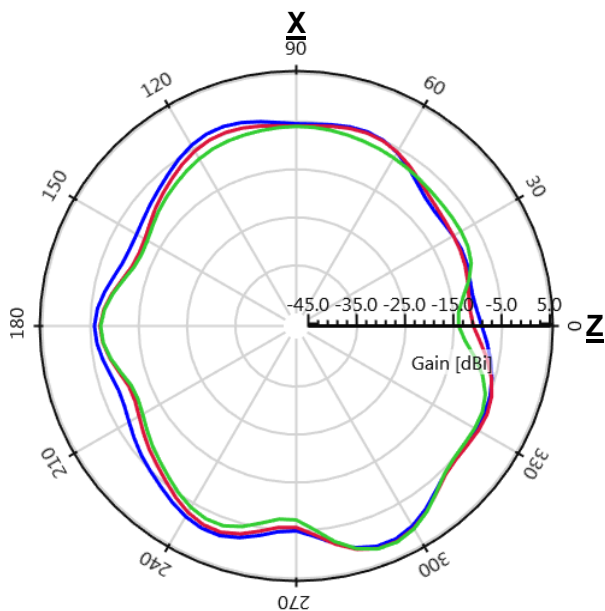
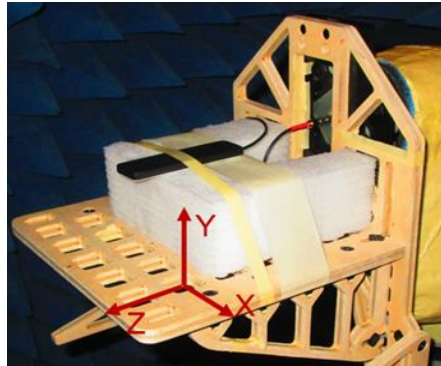
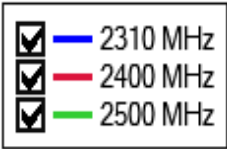




LTE External Antenna Specifications.
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2D Radiation Patterns (LTE 2300-2690 MHz)

Typical characteristics in free-space





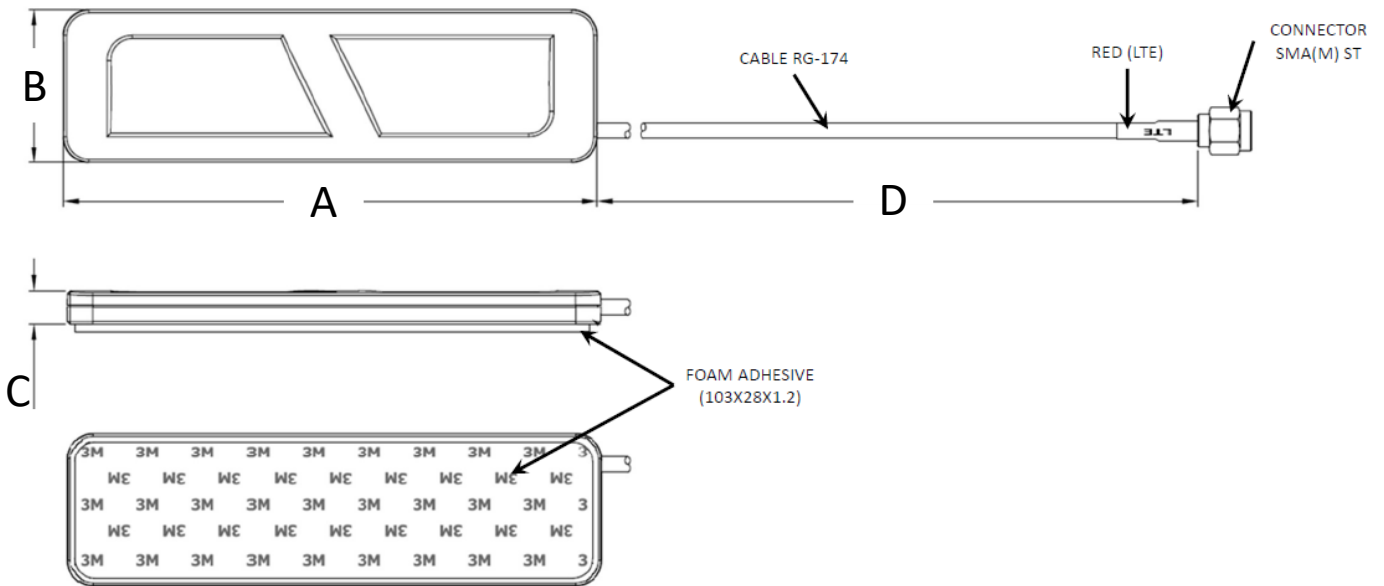
LTE External Antenna Specifications.

Ethertronics 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) | C (mm) |
|---------------------|-------------|------------|-----------|-------------|
| X1005246-4GA1SA10A1 | 105.1 ± 3.0 | 30.1 ± 1.5 | 6.7 ± 1.0 | 1000 ± 40.0 |



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