

MEA-2700-UWB-SM 4G/LTE/CELLULAR/CDMA ANTENNA

Part #: 100-00141-01

Description

The MEA-2700-UWB-SM is a high efficiency cellular wide band LTE antenna for use with all 4G LTE frequencies. This antenna was designed for automotive, IOT, and telematics communication. High efficiency, high gain and omni-directional properties provides the antenna consistent and stable connectivity with high throughput data to devices with cellular needs. The antenna housing consists of black ABS UV resistant plastic, with a heavy-duty metal in the base.

Electrical Specifications

| Parameter | Specification |
|---------------------|-----------------------|
| Frequency Range | 698-960/1710-2700 MHz |
| Band width | 266/990 MHz |
| Gain | 3 dBi |
| V.S.W.R | ≤ 2.5 |
| Radiation | Omni-Directional |
| Polarization | Vertical |
| Maximum Input Power | 50W |
| Impedance | 50 Ω |

Mechanical Specifications

| Parameter | Specification |
|-------------------------|------------------|
| Antenna Dimensions | Φ 48 x 82 mm |
| Weight | 160 g |
| Operating Temperature | -40 °C to +70 °C |
| Antenna Radome Material | ABS |
| Connector | N-connector |
| Cable Type | RG58U |
| Cable Length | 3M |
| Mount Type | Screw |
| Antenna Color | Black |
| ROHS Compliant | Yes |



Features

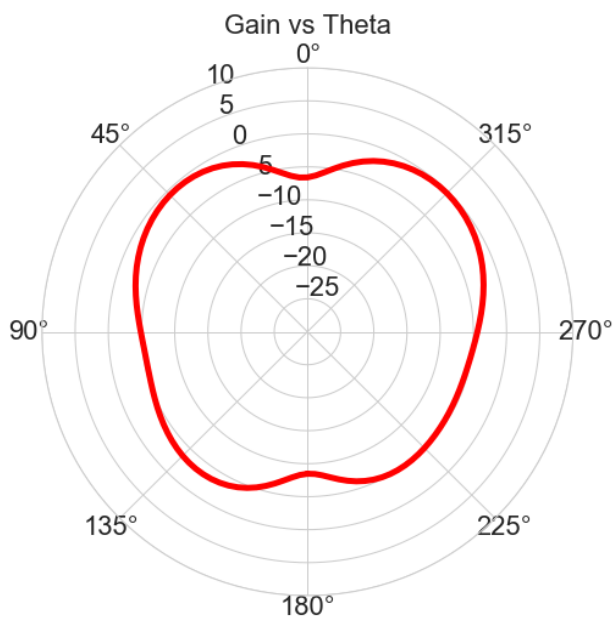
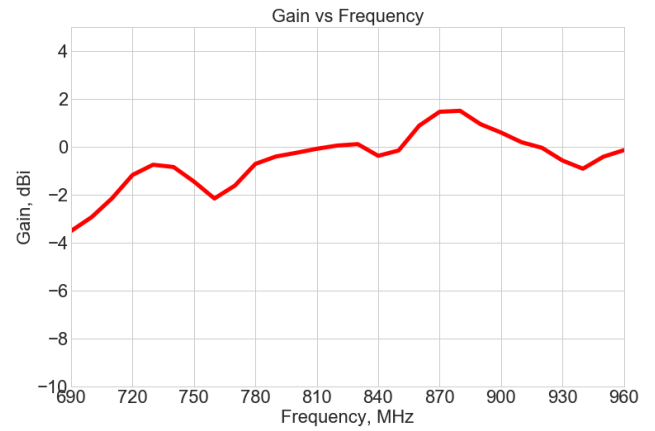
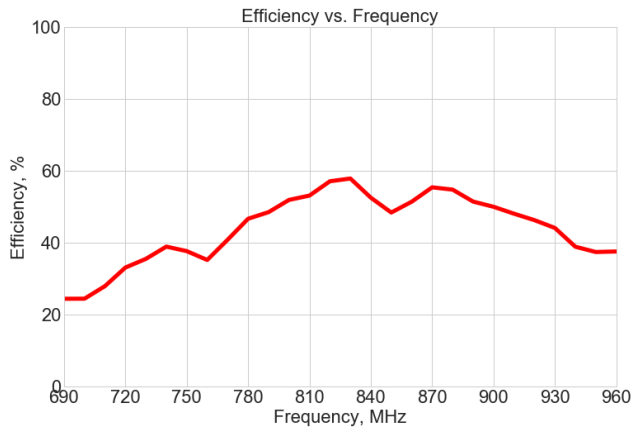
- High Performance
- 4G LTE Ultra-Wideband Automotive Antenna
- ROHS Compliant
- Frequency ranges: 698 - 960 MHz and 1710 - 2700 MHz
- Custom Cable and Connector
- Rated IP67

Applications

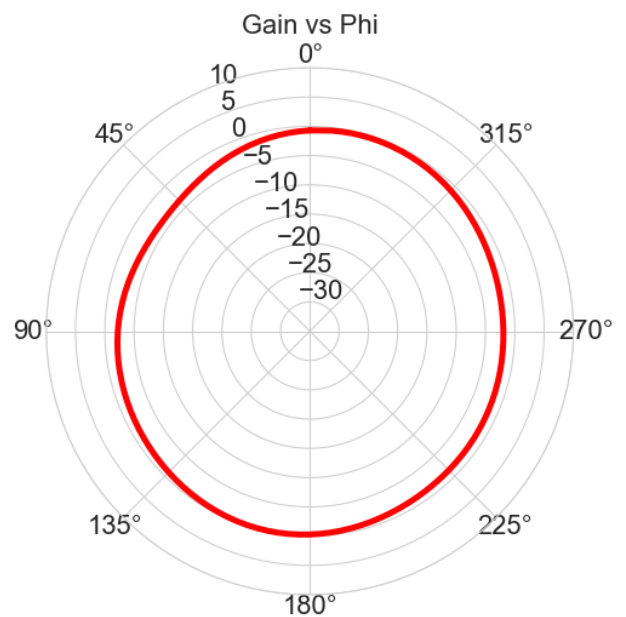
- Telematics
- LTE
- Automotive
- Fleet tracking
- IOT
- Telematics

Radiation Specifications

698-960 MHz



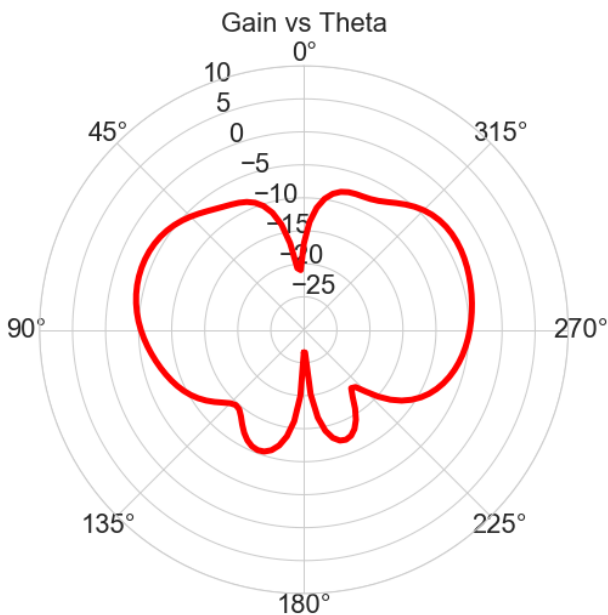
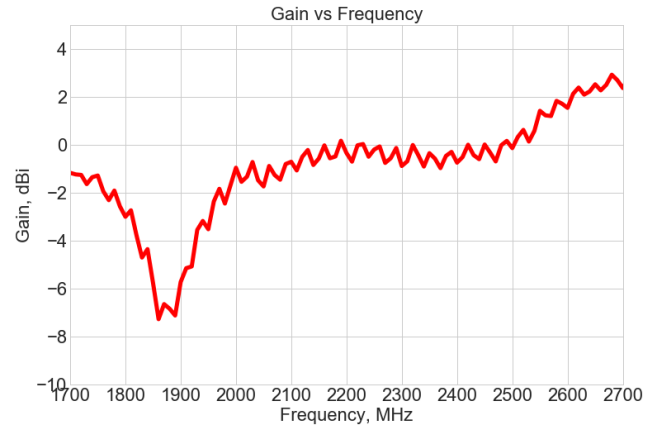
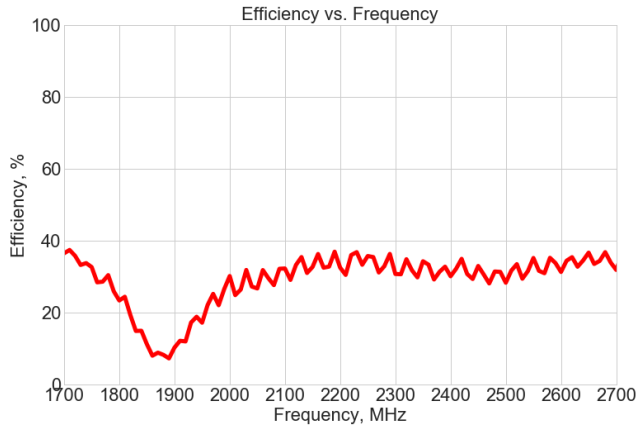
Gain dBi, Elevation Cut $\Phi = 0$, Frequency 850.00(MHz)



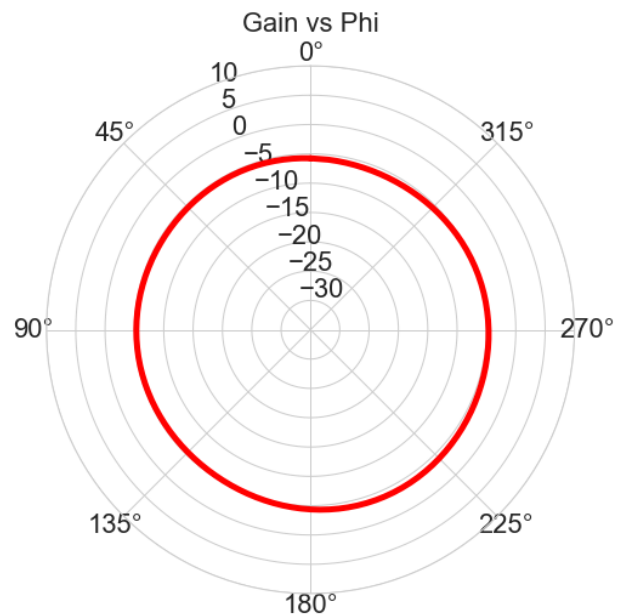
Gain dBi, Conical Cut $\Theta = 45$, Frequency 850.00(MHz)

Radiation Specifications

1710-2700 MHz

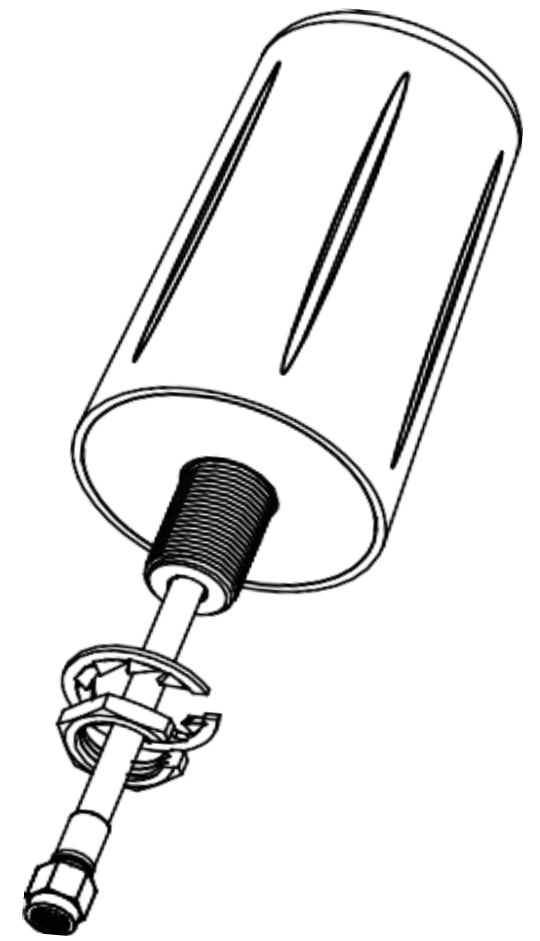
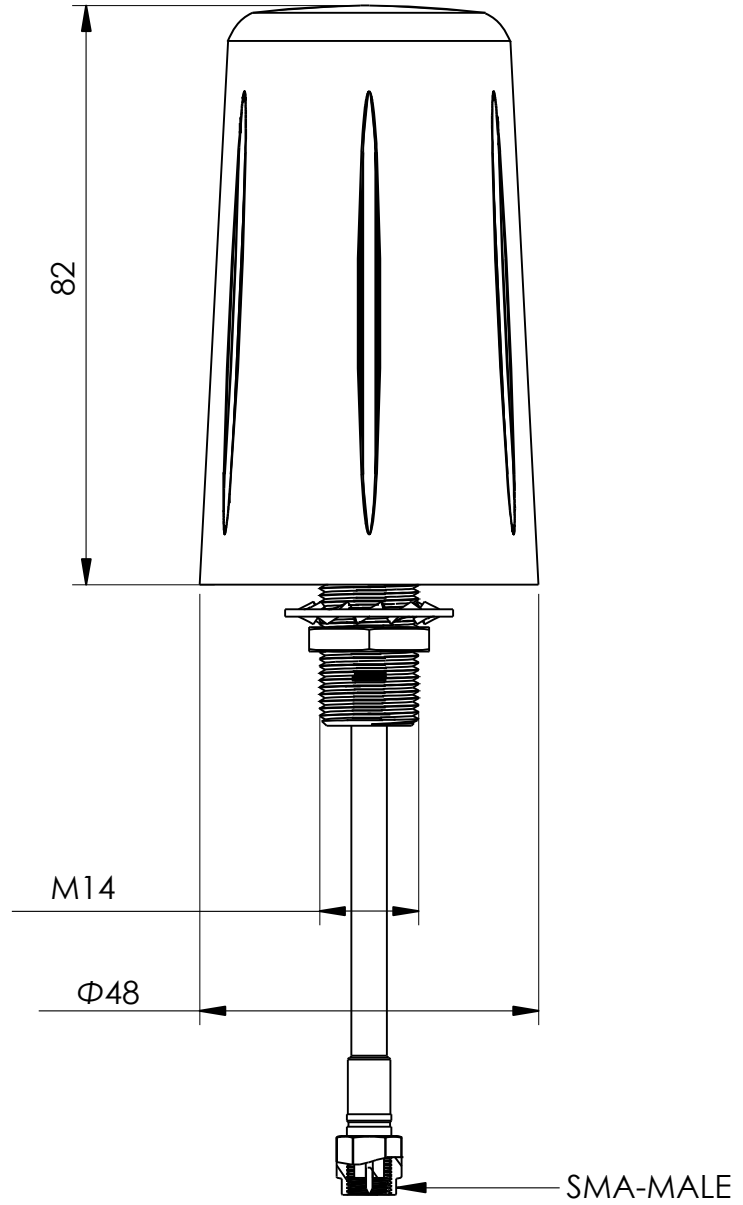
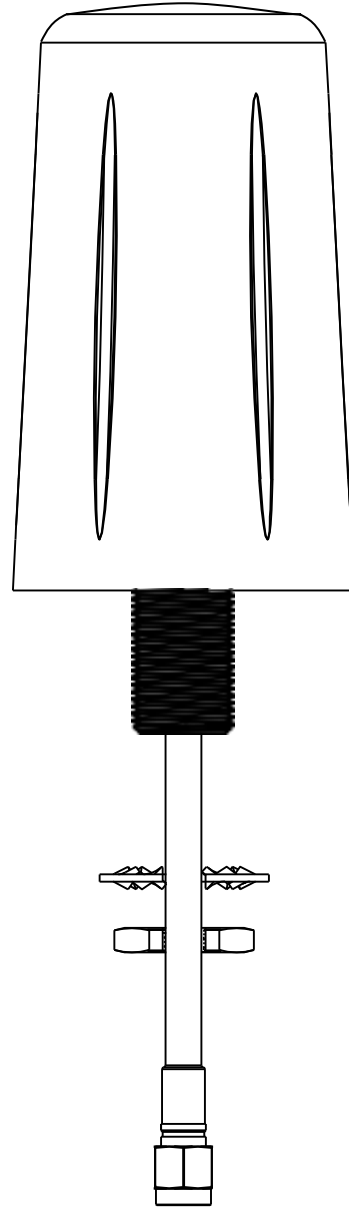


Gain dBi, Elevation Cut $\Phi = 0$, Frequency 1800.00(MHz)



Gain dBi, Conical Cut $\Theta = 45$, Frequency 1800.00(MHz)

| DRAWING REVISION HISTORY | | | |
|--------------------------|-----------------|-----------|----|
| REV | DESCRIPTION | DATE | BY |
| A | INITIAL RELEASE | 9/28/2020 | QZ |



- NOTES:
1. FREQUENCY: 698-960/1710-2700MHZ
 2. GAIN: 3dBi
 3. CONNECTOR: SMA-MALE
 4. IMPEDANCE: 50 Ω
 5. TEMPERATURE: -40 °C TO +70 °C
 6. INPUT POWER: 50W
 7. WEIGHT: 160g

| ITEM 100-00141-01 REVISION HISTORY | | | |
|------------------------------------|-----------------|------------|----|
| REV | DESCRIPTION | DATE | BY |
| A | INITIAL RELEASE | 2020-09-28 | QZ |

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| UNLESS OTHERWISE SPECIFIED: | NAME | DATE |
| DIMENSIONS ARE IN MM | DRAWN | QZ 2020-09-28 |
| TOLERANCES: | CHECKED | ZX 2020-09-30 |
| FRACTIONAL ± | ENG APPR. | NPC 2020-09-30 |
| ANGULAR: MACH ± 0.5° BEND ± | MFG APPR. | |
| INTEGER ± 2 | Q.A. | |
| INTERPRET GEOMETRIC TOLERANCING PER: | CAD MAINTAINED. CHANGES SHALL BE INCORPORATED BY THE DESIGN ACTIVITY. | |
| | DO NOT SCALE DRAWING | |

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|----------------------------------------|-----------------------|--------------|
| MAXTENA, INC | | |
| TITLE: 100-00141-01 MEA-2700-UWB-SM | | |
| SIZE B | DWG. NO. 117-00357-01 | REV A |
| CAGE CODE: 5KQH7 | SCALE: NONE | SHEET 1 OF 1 |

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