

MEU-UWB-01-AM

LOW PROFILE LTE ANTENNA

Part #: 100-00106-01



Description

The MEU-UWB-01-AM is a high efficiency cellular wide band LTE antenna for use with all 2G/3G and 4G LTE frequencies. This antenna was designed for automotive, IOT, and telematics communication. The antenna's advanced technology ensures constant reception and transmission. The back side of the antenna contains a foam adhesive for easy, reliable mounting. The antenna is waterproof and rated IP67. It is available with an SMA, FAKRA or customer specified connector and cable length.

LTE Antenna Electrical Specifications

| | |
|-----------------------|---|
| Frequency Range (MHz) | 698~960 / 1710~2170 / 2300~2700 MHz |
| VSWR | 698~960<3.5 / 1710~2170<2.5 / 2300~2700<2.5 |
| Impedance | 50 Ω |
| Peak Gain | 3.8 dBi Typ. @698~960 MHz 2.9 dBi Typ. @1710~2170 MHz 4.4 dBi Typ. @2300~2700 MHz |
| Average Efficiency | 698~960 MHz \geq 35% 1710~2170 MHz \geq 40% 2300~2700 MHz \geq 35% |

Features

- 2G/3G/4G Ultra-Wideband Automotive Antenna
- Low profile for easy installation
- Small size: 105.1mm x 30.1mm x 6.7mm
- Fully customizable cable length and connector
- ROHS Compliant

Applications

- Automotive
- Fleet tracking
- IOT
- Telematics

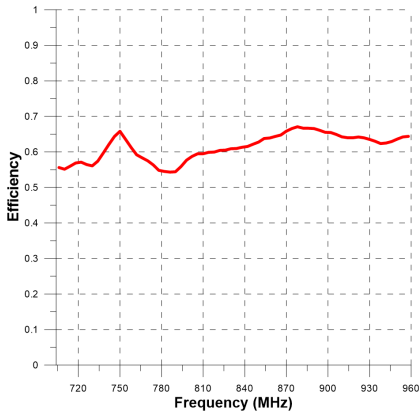
Mechanical Specifications

| | |
|--------------------------|---------------------------------------|
| Antenna Dimensions (mm) | 105.1 x 30.1 x 6.7 mm |
| Mounting Function | Foam Adhesive |
| Operating Temperature | -40 °C +85 °C |
| Housing Material & Color | PC+ABS & Black |
| Cable | RG-174 |
| Cable Length | 1 Meter or customer specification |
| Connector | SMA / FAKRA or customer specification |
| Waterproof | IP67 |

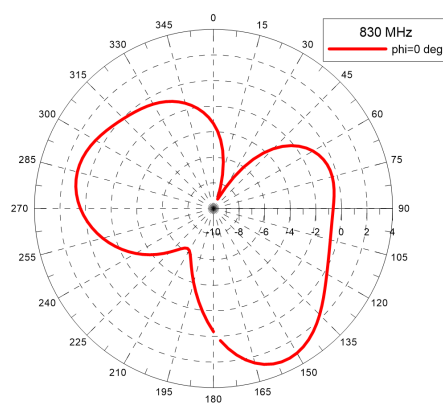
Radiation Specifications

698~960 MHz

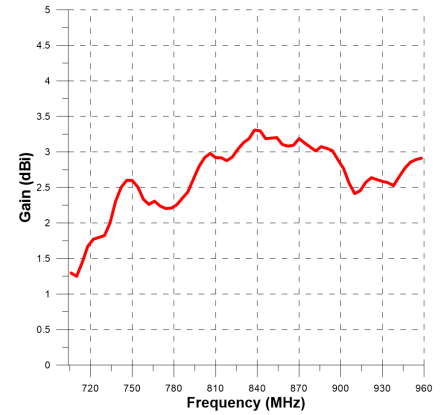
Efficiency vs. Frequency



Etotal vs. Theta



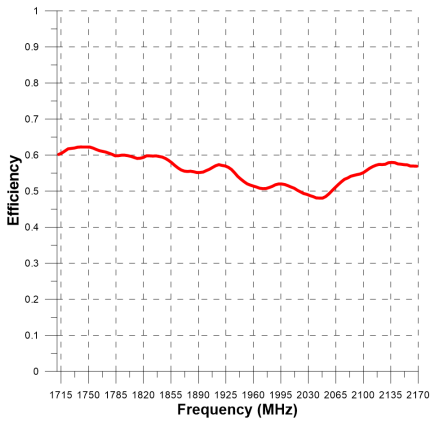
Gain vs. Frequency



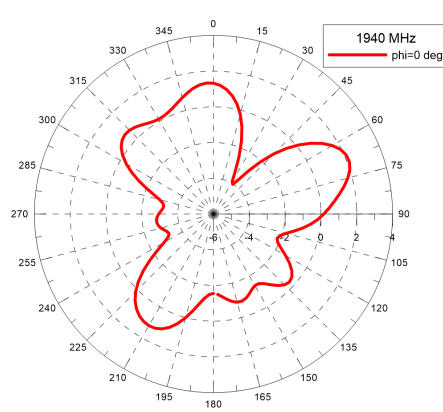
Radiation Specifications

1710~2170 MHz

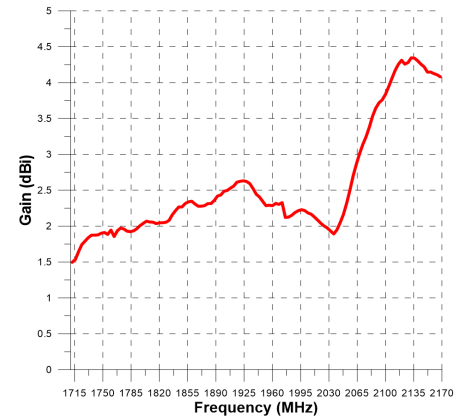
Efficiency vs. Frequency



Etotal vs. Theta



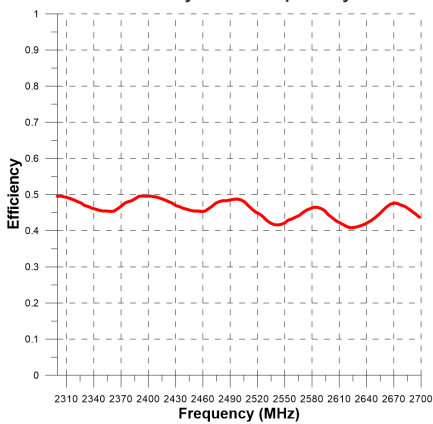
Gain vs. Frequency



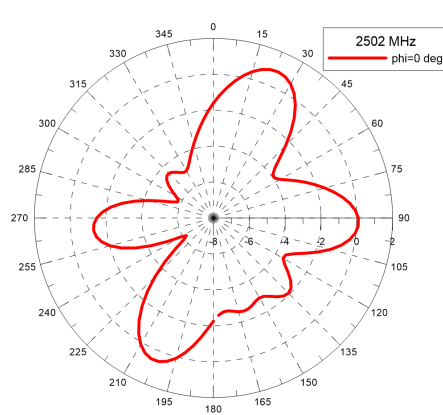
Radiation Specifications

2300~2700 MHz

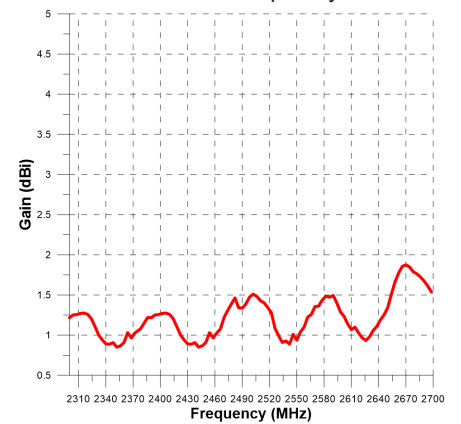
Efficiency vs. Frequency



Etotal vs. Theta



Gain vs. Frequency



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