

# ME A-UWB-01-AM

## LOW PROFILE LTE ANTENNA

Part #: 100-00106-01



### Description

The MEA-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.

### 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

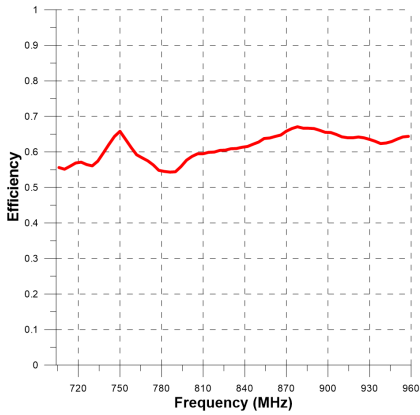
LTE Antenna Electrical Specifications	
Frequency Range (MHz)	698~960 / 1710~2170 / 2300~2700 MHz
VSWR	698~960<3.5 / 1710~2170<2.5 / 2300~2700<2.5
Impedance	50 Ω
Peak Gain	3.8 dBi Typ. @698~960 MHz 2.9 dBi Typ. @1710~2170 MHz 4.4 dBi Typ. @2300~2700 MHz
Average Efficiency	698~960 MHz ≥ 35% 1710~2170 MHz ≥ 40% 2300~2700 MHz ≥ 35%

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

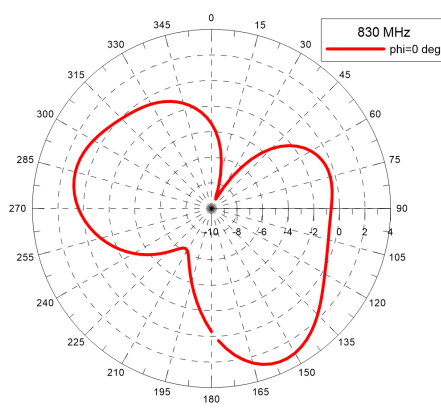
### Radiation Specifications

698~960 MHz

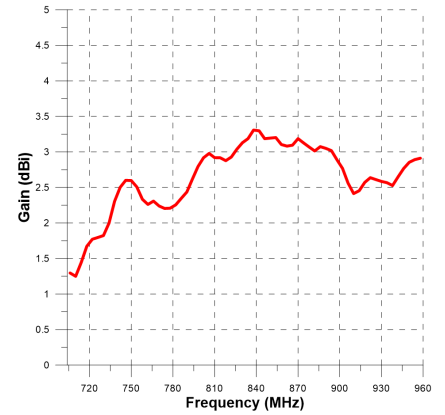
Efficiency vs. Frequency



Etotal vs. Theta



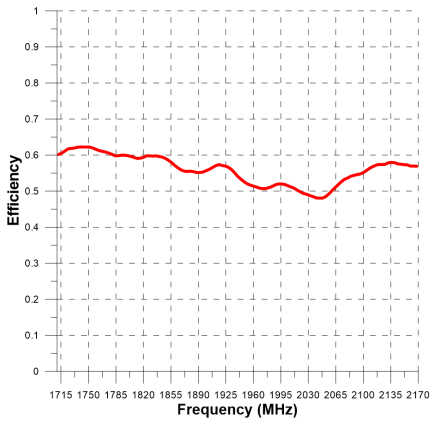
Gain vs. Frequency



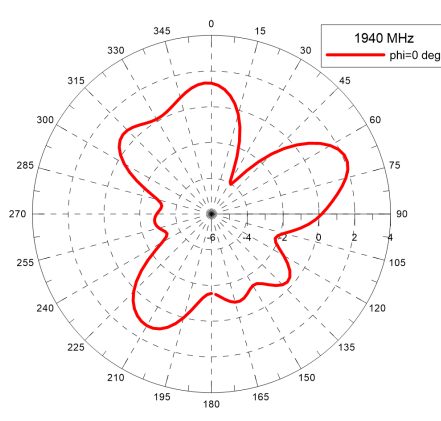
### Radiation Specifications

1710~2170 MHz

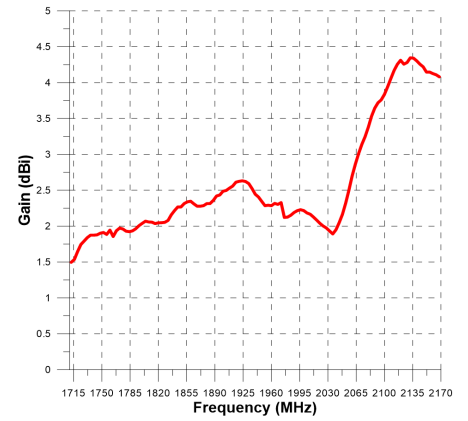
Efficiency vs. Frequency



Etotal vs. Theta



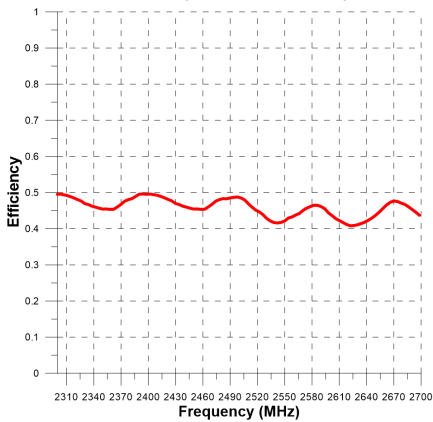
Gain vs. Frequency



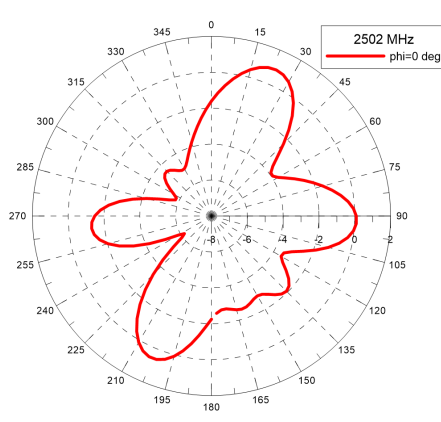
### Radiation Specifications

2300~2700 MHz

Efficiency vs. Frequency



Etotal vs. Theta



Gain vs. Frequency

