

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

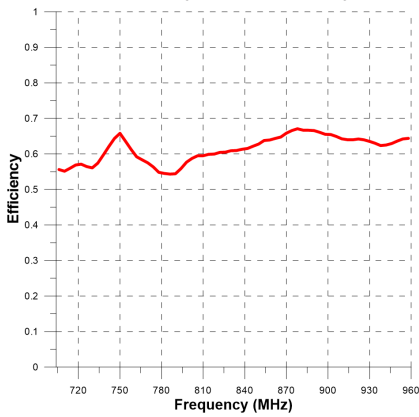
- Automotive
- Fleet tracking
- IOT
- Telematics

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

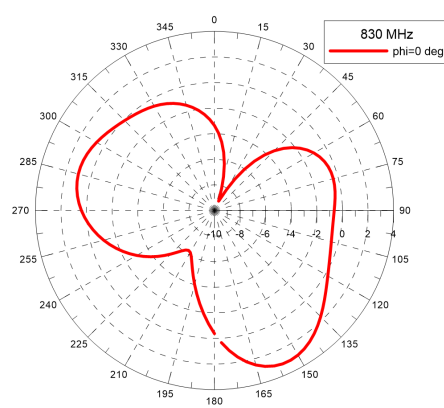
Radiation Specifications

698~960 MHz

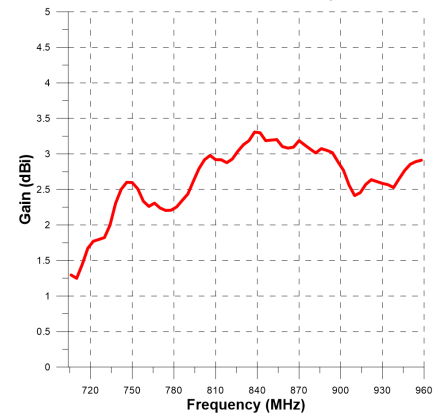
Efficiency vs. Frequency



Ettotal vs. Theta



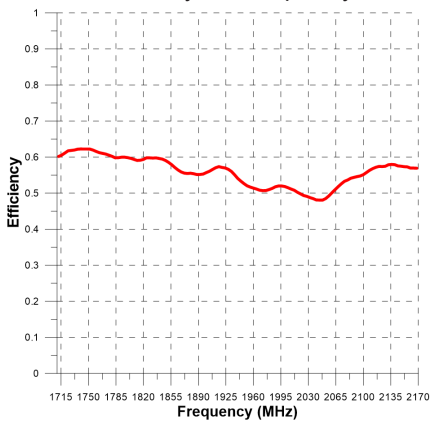
Gain vs. Frequency



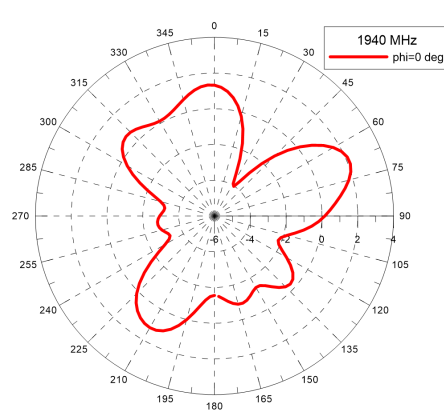
Radiation Specifications

1710~2170 MHz

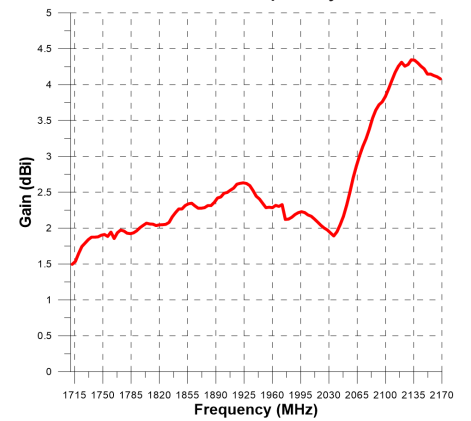
Efficiency vs. Frequency



Ettotal vs. Theta



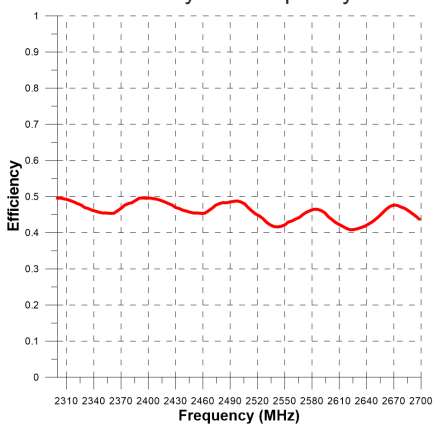
Gain vs. Frequency



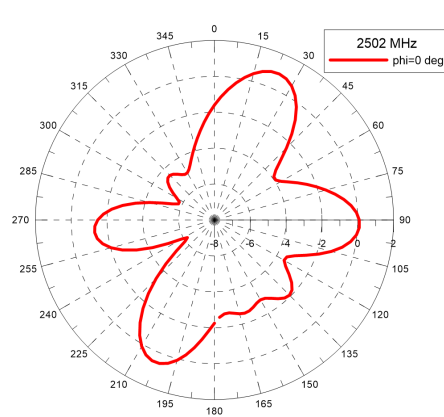
Radiation Specifications

2300~2700 MHz

Efficiency vs. Frequency



Ettotal vs. Theta



Gain vs. Frequency

