



# MEAX-3L-SMA

Cellular/LTE Connector Mount  
Part #: 100-00166-01



## Description

The MEA-3L-SMA is an external narrowband antenna designed for cellular/LTE frequencies (698-960 MHz - 1710-2170 MHz). The antenna provides exceptional pattern control, polarization purity and high efficiency. The MEA-3L-SMA is available in two configurations: a straight, and right angle SMA-Male connector. Featuring a rugged housing allows the antenna to be considered for various demanding installations. MEA-3L-SMA provides outstanding performance for NB-IoT applications.

## Electrical Specifications

Parameter	Specification	
Frequency Range	698-960 MHz	1710-2170 MHz
Band	700/850/900 MHz	1700/1800/1900/2100 MHz
Return Loss	-5 dB	-9 dB
VSWR	3.9:1	2.7:1
Efficiency	62.4%	62.4%
Peak Gain	1.5 dBi	3.5 dBi
Average Gain	-2.1 dB	-2.1 dB
Impedance	50 Ω	
Polarisation	Linear	
Radiation Pattern	Omni-Directional	
Max. Input Power	25 W	

## Mechanical Specification

Parameter	Specification
Antenna Dimensions	Ø 9 x 38 mm
Operating Temperature	-40°C to 85°C
Connector Type	SMA-Male Standard
Mounting Type	Connector Mount
Radome	TPC-ET
Radome color	Black
Substance Compliance	RoHS

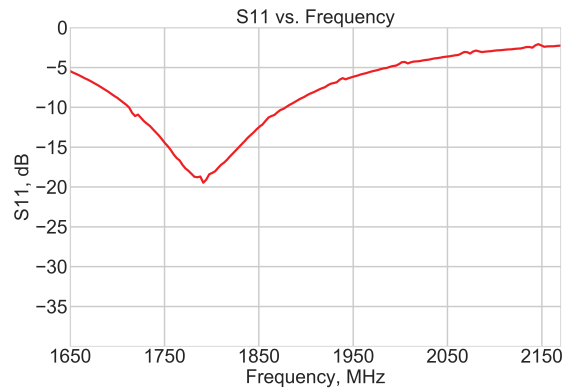
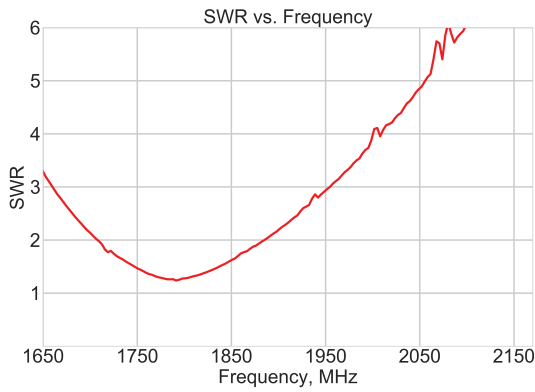
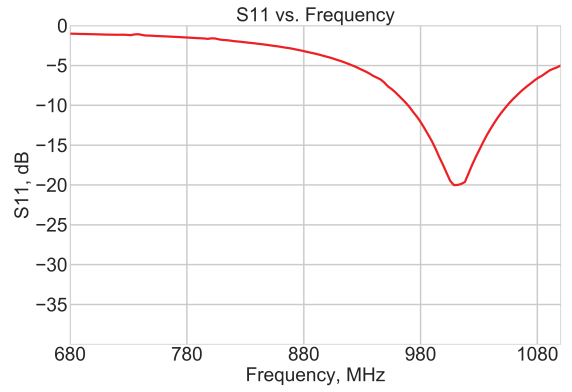
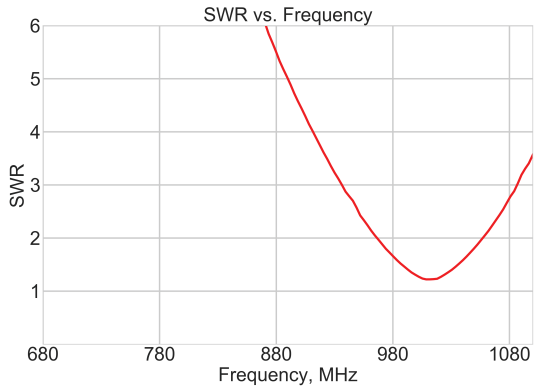
\*Mounted on Ground Plane of 115x45 mm

## Features

- CELLULAR / LTE frequency
- Connector Mount
- Low Profile
- Wide band Antenna
- Dimensions 48 x Ø 9 mm
- Easy integration
- High performance

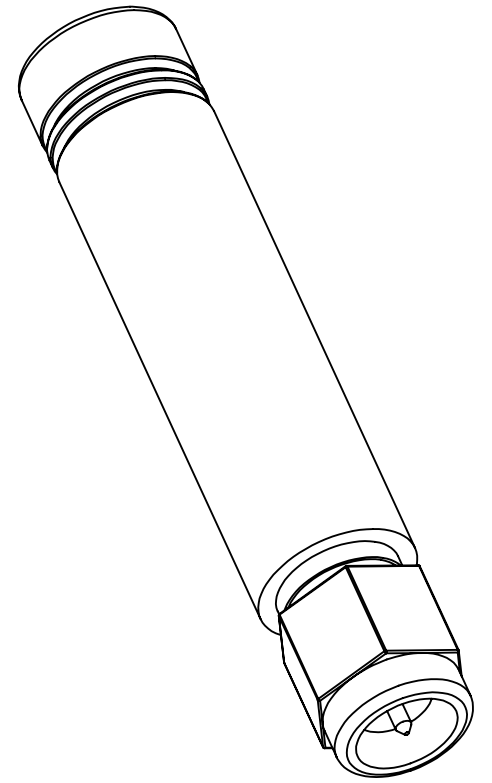
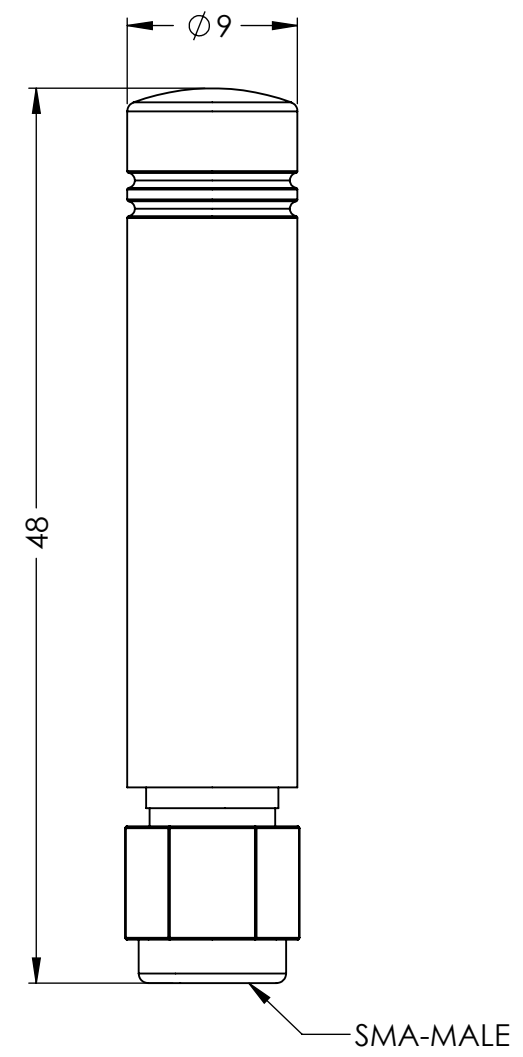
## Applications

- Public transportation
- Video transmission
- IoT
- Fleet Management
- Gateway/ Routers
- Public transportation
- Autonomous cars



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DRAWING REVISION HISTORY			
REV	DESCRIPTION	DATE	BY
A	INITIAL RELEASE	2021-07-26	SZ



NOTES:

1. FREQUENCY:
  - CELLULAR: 698-960 MHz
  - LTE(NB-IoT): 1710-2170 MHz
2. MOUNTING TYPE: CONNECTOR MOUNT
3. MATERIALS:
  - RADOME: TPC-ET
  - RADOME COLOR: BLACK
4. OPERATING TEMPERATURE: -40 °C ~ +85 °C
5. STORAGE TEMPERATURE: -40 °C ~ +85 °C

ITEM 100-00166 REVISION HISTORY			
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100-00166 CONFIGURATION TABLE	
DASH NO	CONNECTOR TYPE
-01	SMA-MALE

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN MM  
 TOLERANCES:  
 FRACTIONAL: ±  
 ANGULAR: MACH ± .5° BEND ±  
 INTEGER ± 2  
 ONE PLACE DECIMAL ± 1.0  
 TWO PLACE DECIMAL ± .50

INTERPRET GEOMETRIC TOLERANCING PER:

THIRD ANGLE PROJECTION

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	SZ	2021-07-26
CHECKED	ZX	2021-07-26
ENG APPR.	NPC	2021-07-26
MFG APPR.		
	Q.A.	

CAD MAINTAINED. CHANGES SHALL BE INCORPORATED BY THE DESIGN ACTIVITY.

MAXTENA, INC

TITLE: 100-00166  
ME-A-3L-SMA

SIZE B DWG. NO. 117-00422-01 REV A

CAGE CODE: 5KQH7 SCALE: NONE SHEET 1 OF 1