



### Description

The MEA-3L-SMA-LP is an external narrowband antenna designed for cellular/LTE frequencies (698-960 MHz – 1710-2170 MHz- 2500-2700 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-LP provides outstanding performance for NB-IoT applications.



### Electrical Specification

Parameter	Specifications		
Standards	2G,3G and 4G		
Technologies	GSM, CDMA, DCS, PCS, GPRS, WCDMA, UMTS, HSPA, EVDO and LTE		
Band MHz	700/850/900	1700/1800/1900/2100	2600
Frequency Range	698-960 MHz	1710-2170 MHz	2500-2700 MHz
Return Loss (dB)	~5.8	~13.9	~3.6
VSWR	~3.5:1	~2.1:1	~5.5:1
Efficiency (%)	~66.6	~66.1	~25.8
Peak Gain (dBi)	~0.9	~2.7	~1.5
Average Gain (dB)	~-1.9	~1.8	~-6.1
Impedance (Ohm)	50		
Polarization	Linear		
Radiation Pattern	Omni-Directional		
Max Input Power	25		
Connector Type	SMA-Male Standard (Right-Angle)		

### Mechanical Specifications

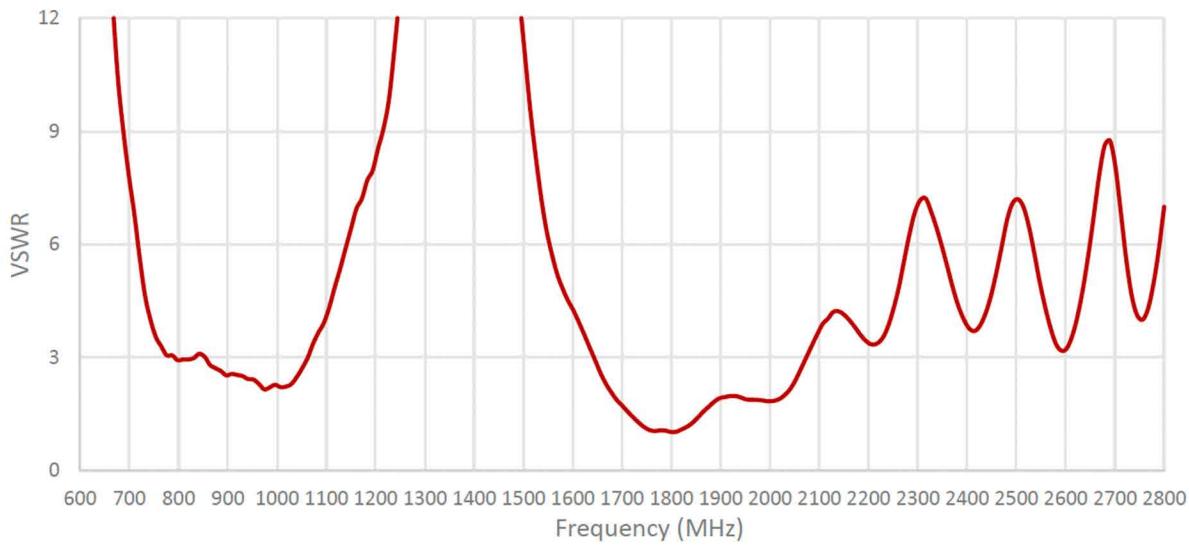
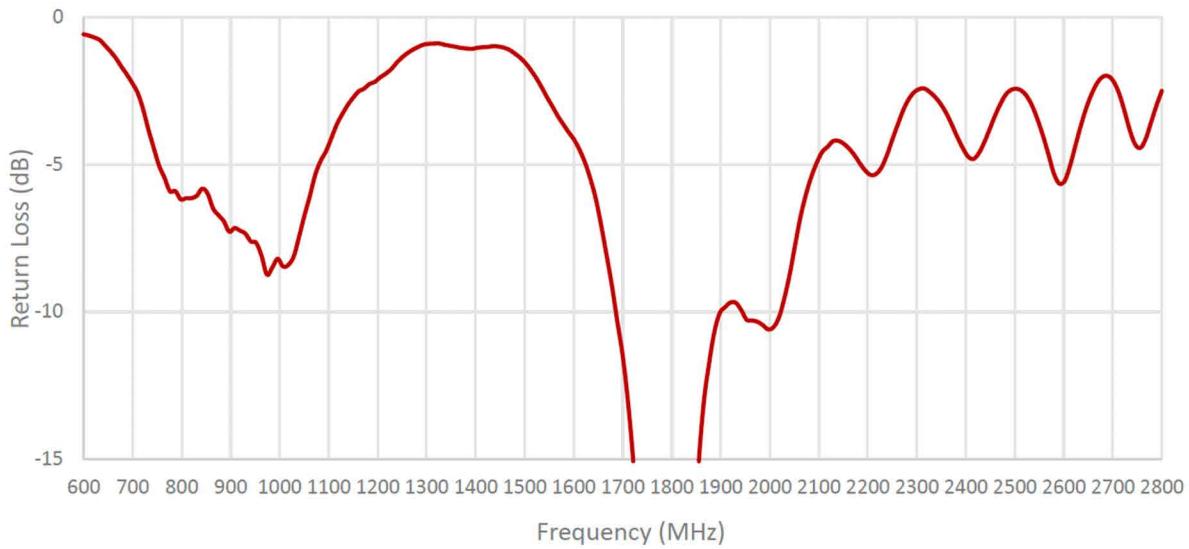
Parameter	Specifications
Antenna Dimensions (mm)	44 x 19.1 x 9
Operating Temperature (C)	-40 to +85
Storage Temperature (C)	-40 to +85
Mounting Type	Connector Mount
Radome/Color	TPC-ET/ Black
Substance Compliance	RoHS
*Mounted on Ground Plane of 115x45 mm	

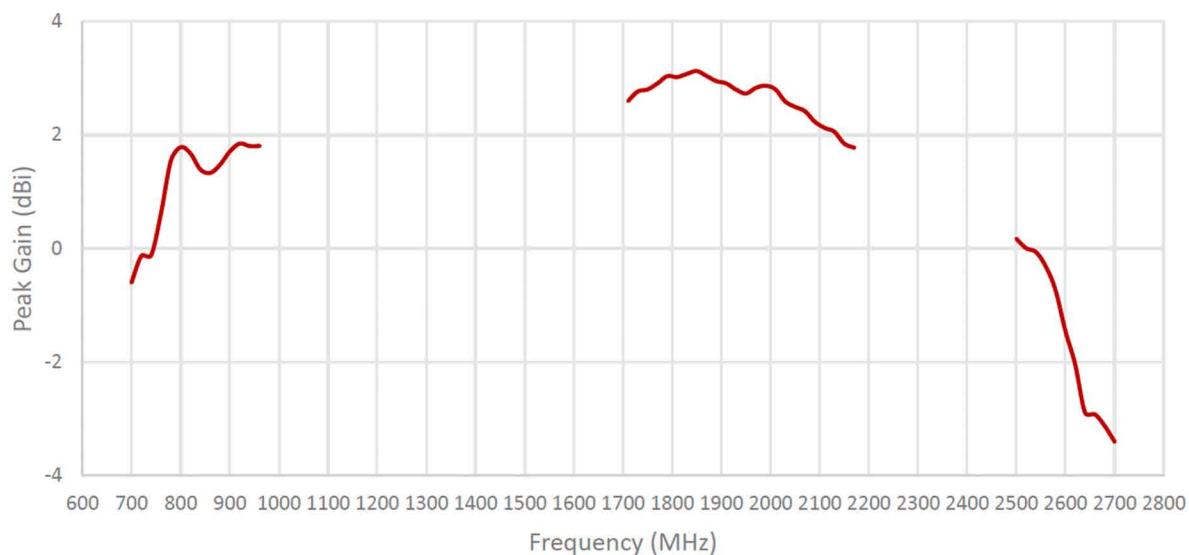
### Features

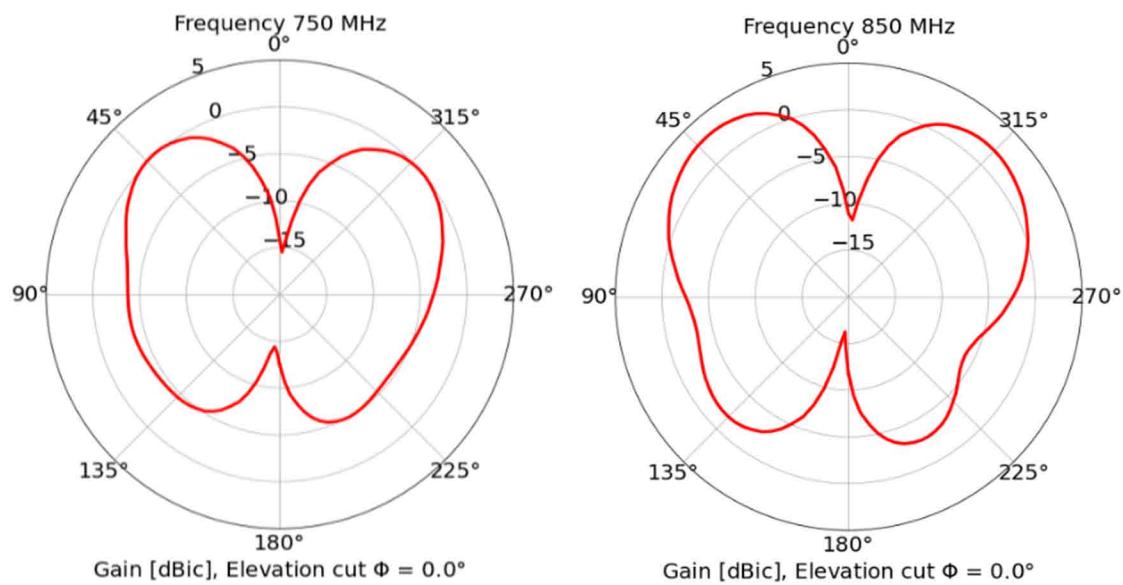
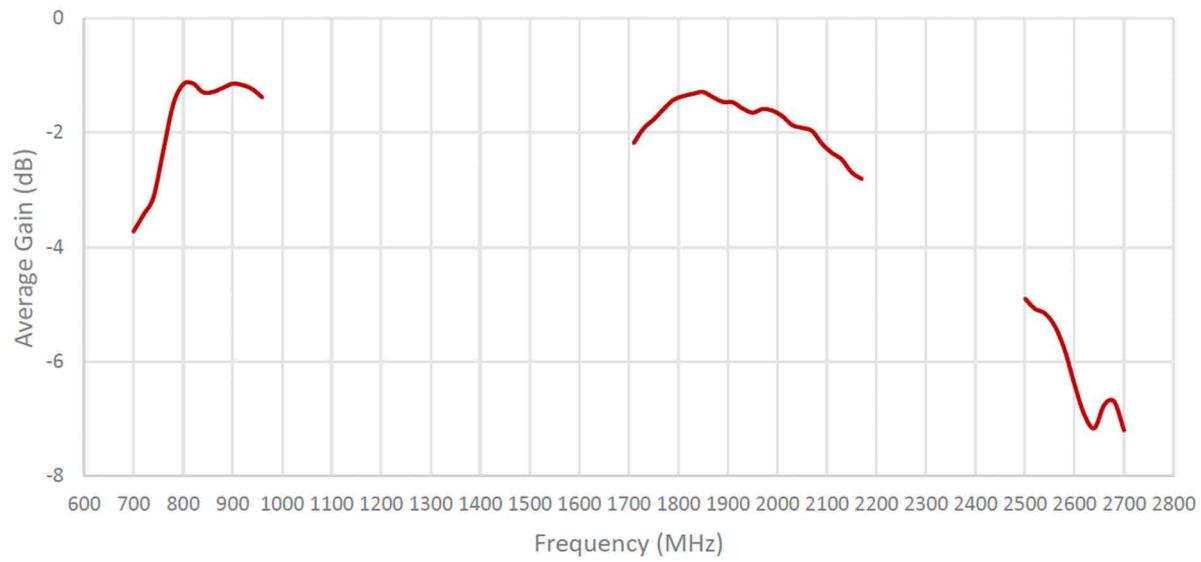
- CELLULAR / LTE bands (698-960 MHz - 1710-2170 MHz - 2500-2700 MHz)
- Easy mounting: Connector Mount
- Low Profile
- Wide band Antenna
- Dimensions 44 x 19.1 x 9 mm

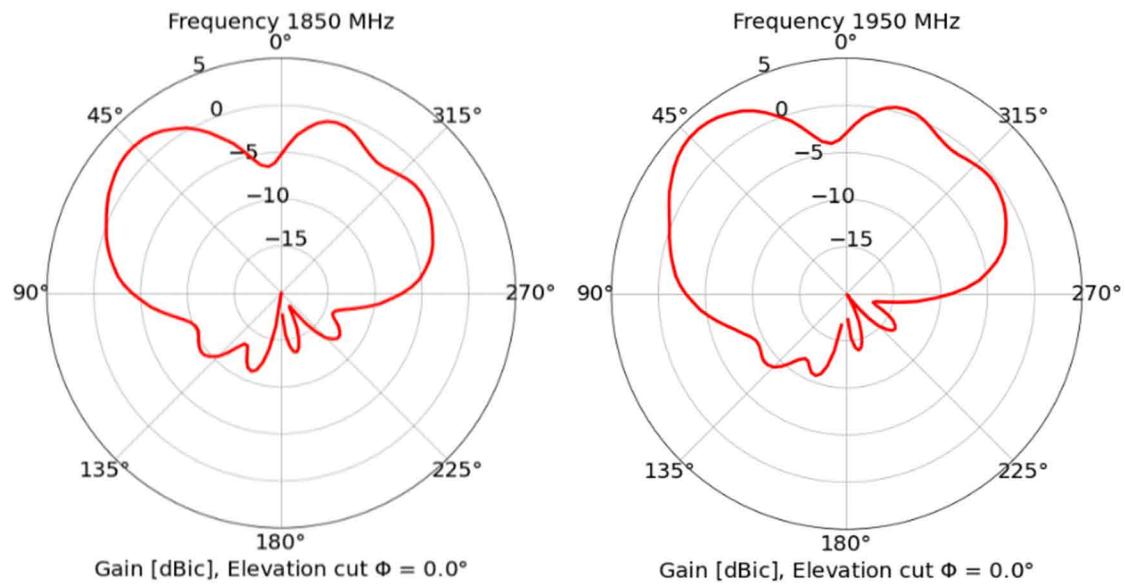
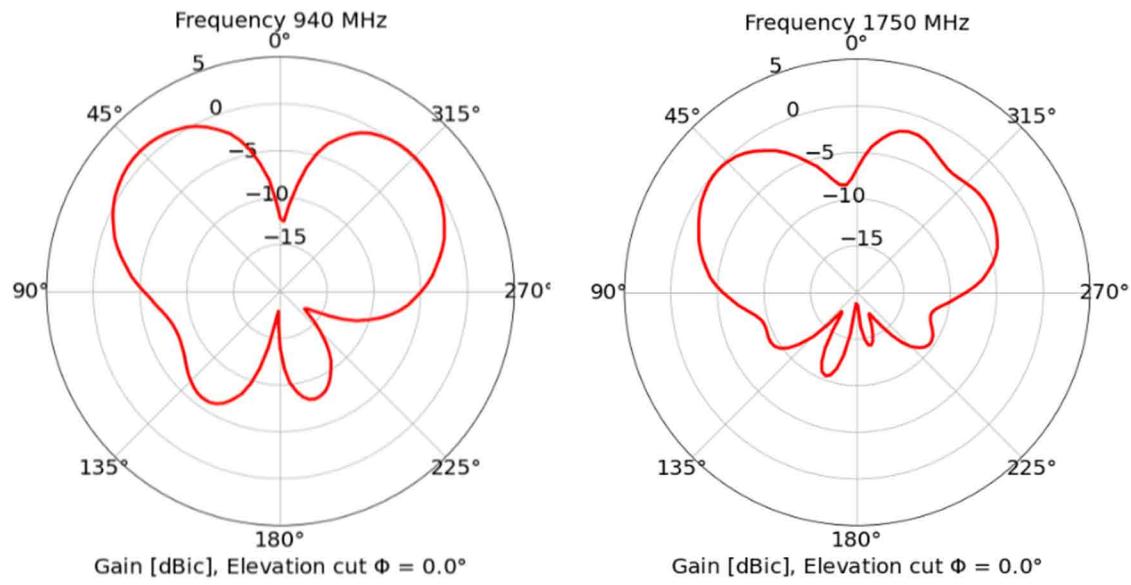
### Applications

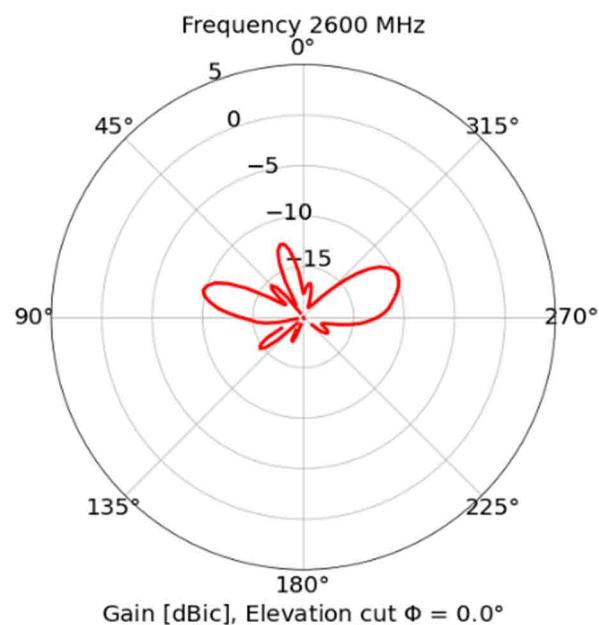
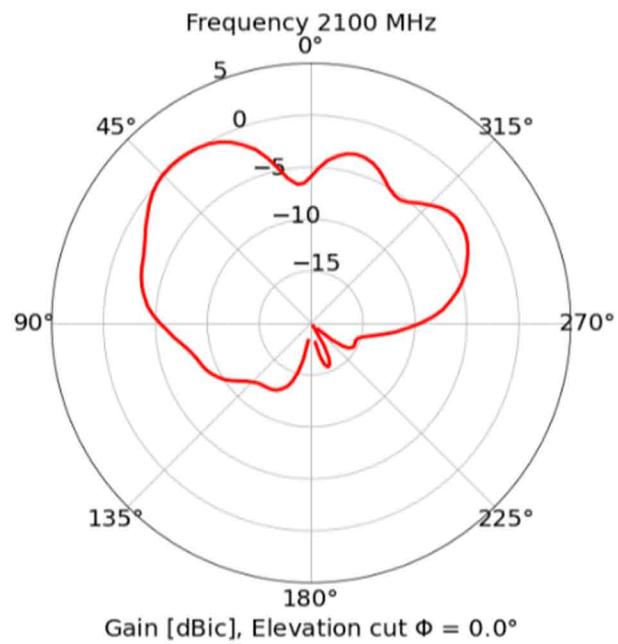
- Public transportation
- Video transmission
- IoT
- Fleet Management
- Gateway/ Routers
- Public transportation
- Autonomous cars



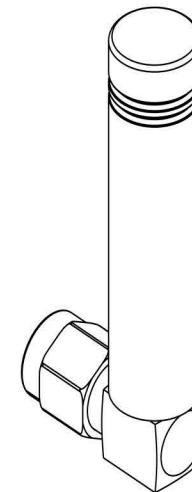
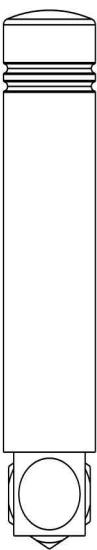
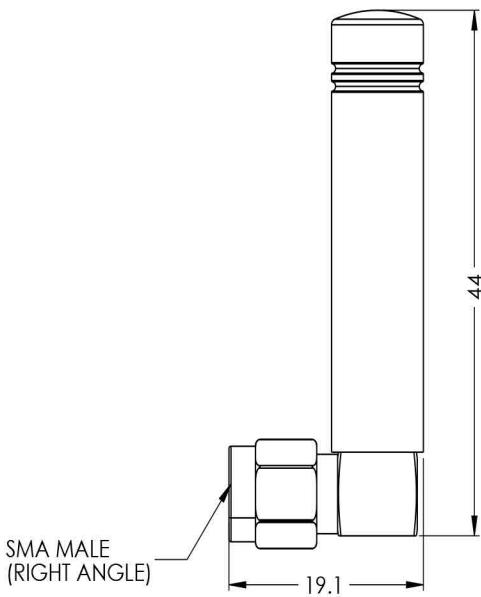
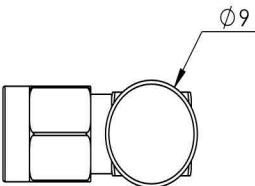








DRAWING REVISION HISTORY			
REV	DESCRIPTION	DATE	BY
A	INITIAL RELEASE	2022-10-14	MP



NOTES:

1. FREQUENCY: 698MHz-960MHz, 1710MHz-2170MHz, 2500MHz-2700MHz
2. MOUNTING TYPE: CONNECTOR MOUNT
3. OPERATING TEMPERATURE: -40°C ~ +85°C
4. STORAGE TEMPERATURE: -40°C ~ +85°C

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN MM

TOLERANCES:

FRACTIONAL  $\pm$

ANGULAR: MACH  $\pm .5^\circ$  BEND  $\pm$

ONE PLACE DECIMAL  $\pm 1.0$

TWO PLACE DECIMAL  $\pm .50$

INTERPRET GEOMETRIC

TOLERANCING PER:



DO NOT SCALE DRAWING

DRAWN MP 2022-10-14

CHECKED ZX 2022-10-19

ENG APPR. NPC 2022-10-31

MFG APPR. [ ]

Q.A. [ ]

MAXTENA, INC

100-00303  
MEA-3L-SMA-LP

TITLE:

SIZE

DWG. NO.

B

REV

A

ITEM 100-00303 REVISION HISTORY

REV	DESCRIPTION	DATE	BY
A	INITIAL RELEASE	2022-10-14	MP

PROPRIETARY AND CONFIDENTIAL

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100-00303 CONFIGURATION TABLE

DASH NO	CONNECTOR TYPE	RADOME COLOR
-01	SMA MALE (RIGHT ANGLE)	BLACK

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

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