



# MEA-915-SM-LP

External 915MHz ISM Screw Mount antenna

Part #: 100-00171-01



## Description

The MEA-915-SM-LP is a high gain & efficiency antenna to be used for 915MHz ISM wireless applications. This external mount rugged antenna is ideal for high performance outdoor or indoor applications. It is designed for IOT, Telematics and remote metering mesh installations and systems. The high efficiency and gain along with the omni-directional properties provide this antenna a consistent and stable long range connectivity with high throughput data to devices for 915 MHz needs. The antenna housing consist of black UV resistant rugged plastics and a heavy-duty metal base for optimal installations. The cable & connector are customizable. This is an ideal antenna for LoRa, Sigfox and NB-IOT applications.

## Electrical Specifications

Parameter	Specification
Frequency Range	902-928 MHz
Band	915 MHz
Return Loss	-17.6 dB
VSWR	1.5:1
Efficiency	50.3%
Peak Gain	1.9 dBi
Average Gain	-3 dB
Impedance	50 Ω
Polarisation	Linear
Radiation Pattern	Omni-Directional
Max. Input Power	25 W

## Mechanical Specification

Parameter	Specification
Antenna Dimensions	80 x 74 x 14.7 mm
Operating Temperature	-40°C to 85°C
Connector Type	SMA-Male Standard
Mounting Type	Screw Mount
Random	ABS
Radome color	Black
Substance Compliance	RoHS
Certificates	IP67

\*Mounted on Ground Plane of 30 x 30 cm

## Features

- 915 MHz ISM - 902-928 MHz
- Screw Mount
- Ground Plane Dependent
- High Performance
- Low Profile
- Customizable Cable and Connector
- Dimensions 80 x 74 x 14.7 mm
- IP67

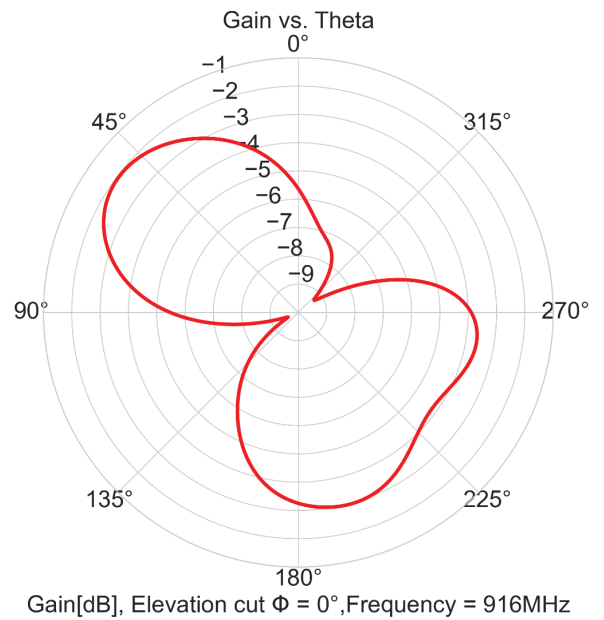
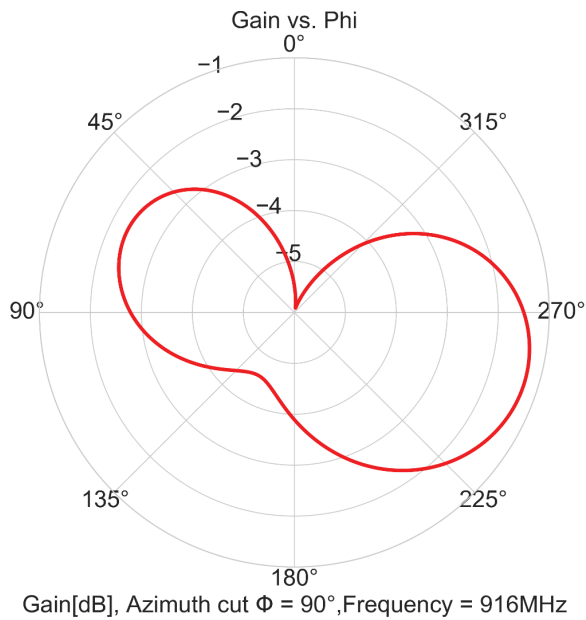
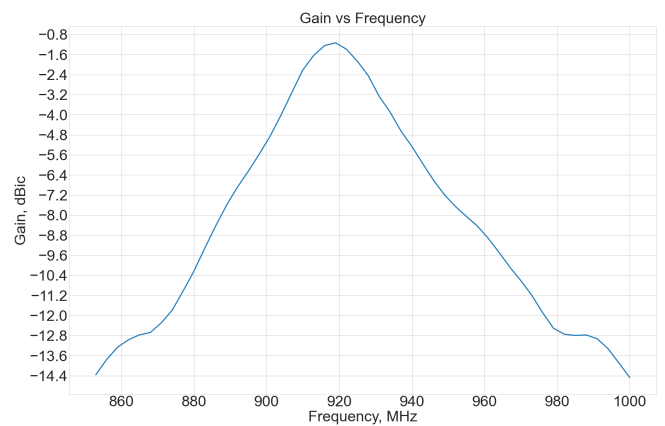
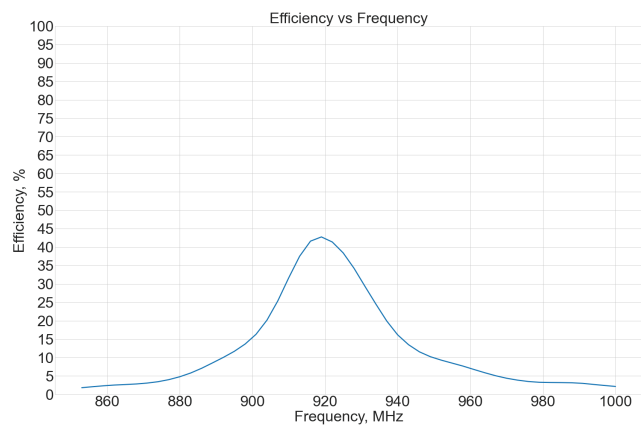
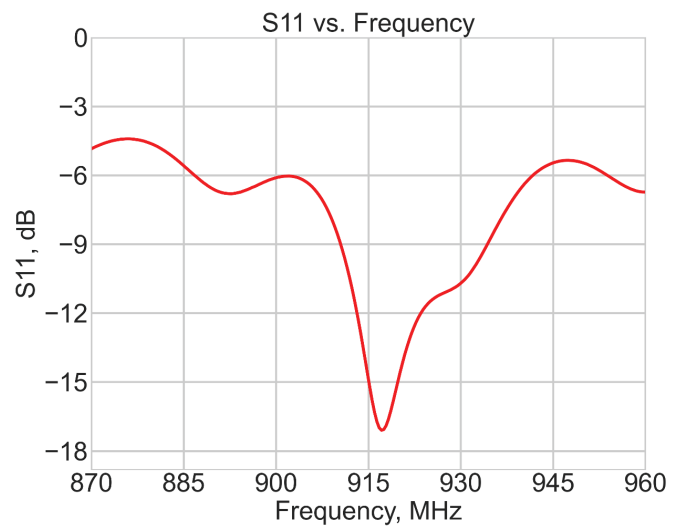
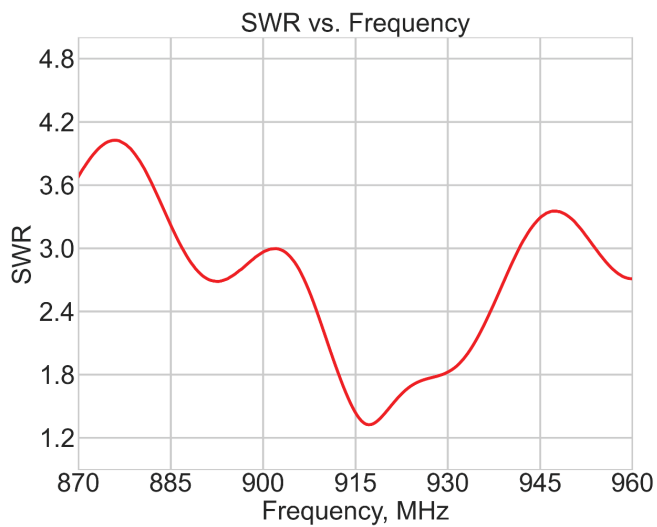
## Applications

- Remote mesh networks
- Smart meters
- IOT
- Public Safety



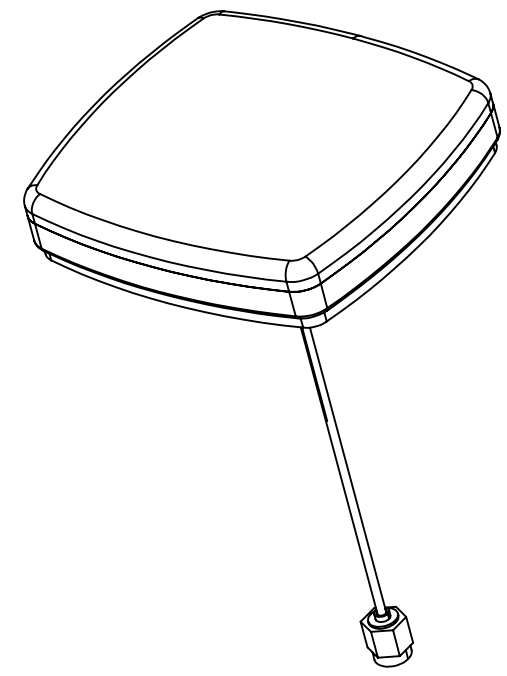
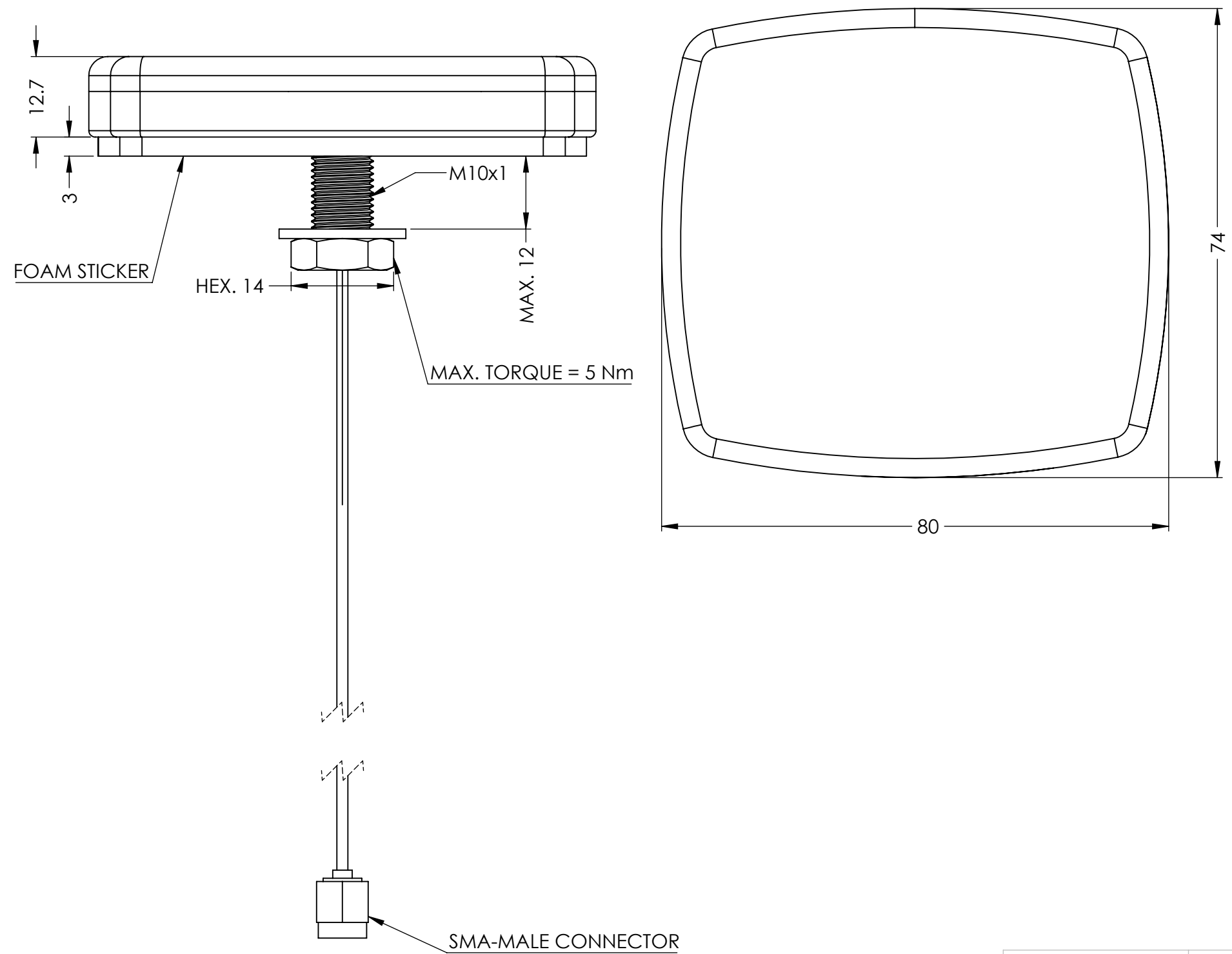
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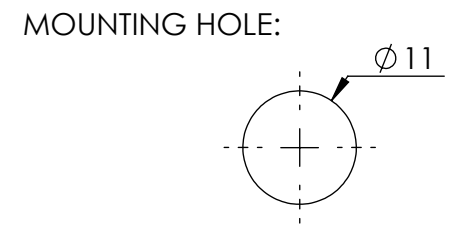


DRAWING REVISION HISTORY			
REV	DESCRIPTION	DATE	BY
A	INITIAL RELEASE	2021-07-15	SZ

D  
C  
B  
A



- NOTES:
- FREQUENCY: 902-928 MHz
  - DIMENSIONS ARE AFTER MOUNTING
  - CUSTOMIZABLE CABLE AND CONNECTOR TYPE
  - MOUNTING TYPE: SCREW MOUNT
  - MAX MOUNTING THICKNESS: 12 mm
  - MATERIALS:
    - RADOME: ABS
    - RADOME COLOR: BLACK
  - OPERATING TEMPERATURE: -40 °C ~ +85 °C
  - STORAGE TEMPERATURE: -40 °C ~ +85 °C
  - CERTIFICATIONS: IP67



ITEM 100-00171 REVISION HISTORY			
REV	DESCRIPTION	DATE	BY
A	INITIAL RELEASE	2021-07-15	SZ

100-00171 CONFIGURATION TABLE			
DASH NO	CABLE TYPE	CABLE LENGTH	CONNECTOR TYPE
-01	LL100	300 cm	SMA-MALE GOLD

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	2021-07-15
CHECKED	ZX	2021-07-15
ENG APPR.	NPC	2021-07-15
MFG APPR.		
Q.A.		

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

TITLE:

**MAXTENA, INC**

**100-00171**  
**MEA-915-SM-LP**

SIZE	DWG. NO.	REV
<b>B</b>	<b>117-00434-01</b>	<b>A</b>

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

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