



# MEA-2500-LP-SM-LoRa

CELLULAR/LTE MIMO/LoRa Screw Mount

Part #: 100-00271-01



## Description

The MEA-2500-LP-SM-LoRa is a Cellular/LTE/MIMO/LoRa technology solution by Maxtena. The antenna features Cellular/LTE (698-960, 1710-2170, 2500-2700 MHz) reception.

The MEA-2500-LP-SM-LoRa is ideal for high data throughput and streaming, video, industrial and IOT applications. The antennas advanced technology ensures constant reception and transmission. The antenna is rated IP67. It is available with an SMA, FAKRA or customer specified connector and cable length.

## Electrical Specification

Parameter	Specifications		
Standards	2G,3G and 4G		
Band MHz	700/850/900	1700/1800/1900/2100	2600
Frequency Range	698-960 MHz	1710-2170 MHz	2500-2700 MHz
Return Loss	~11.1	~9.0	~19.7
VSWR	~2.2:1	~2.2:1	~1.3:1
Efficiency (%)	~40.1	~38.1	~48.1
Peak Gain (dBi)	~3.5	~4.0	~6.1
Average Gain (dB)	~4.0	~4.6	~3.2
Impedance (Ohm)	50		
Polarization	Linear		
Radiation Pattern	Omni-Directional		
Max Input Power	25		
Connector Type	SMA-Male Standard (Other Connectors Available)		
Cable Length	300 cm Standard (Any Cable Length Available)		
Cable Type	D302 Standard (Other Cables Available)		

Cable 1

## Features

- Cable 1 - 2: CELLULAR / LTE - 698-960 MHz - 1710-2170 MHz - 2500-2700 MHz
- Easy mounting: Screw Mount
- Anti-Rotation Mechanism
- Low Profile
- Ground Plane Independent
- Customizable Cable and Connector
- Dimensions 80 x 74 x 25.6 mm
- IP67
- IP69

Parameter	Specifications		
Standards	2G,3G and 4G		
Band MHz	700/850/900	1700/1800/1900/2100	2600
Frequency Range	698-960 MHz	1710-2170 MHz	2500-2700 MHz
Return Loss	~9.7	~8.2	~20.5
VSWR	~2.3:1	~2.3:1	~1.3:1
Efficiency (%)	~45.8	~38.0	~47.0
Peak Gain (dBi)	~3.9	~4.1	~6.1
Average Gain (dB)	~3.5	~4.6	~3.3
Impedance (Ohm)	50		
Polarization	Linear		
Radiation Pattern	Omni-Directional		
Max Input Power	25		
Connector Type	SMA-Male Standard (Other Connectors Available)		
Cable Length	300 cm Standard (Any Cable Length Available)		
Cable Type	D302 Standard (Other Cables Available)		

Cable 2

## Applications

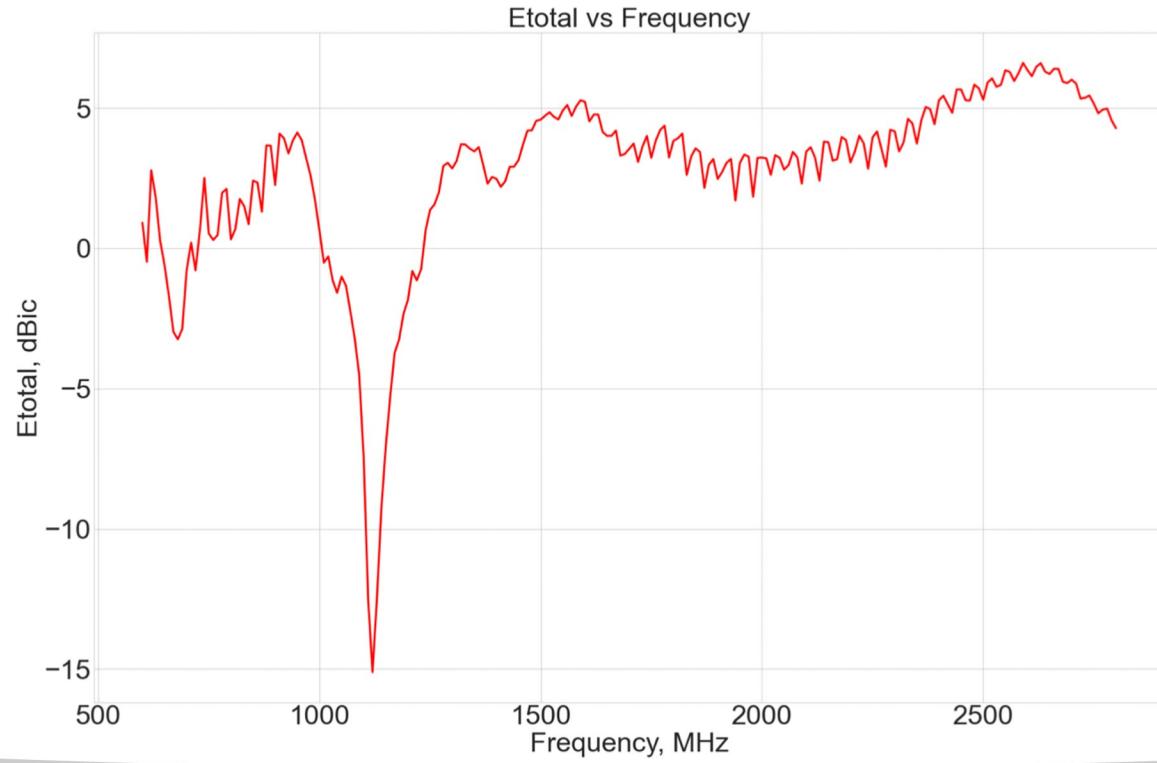
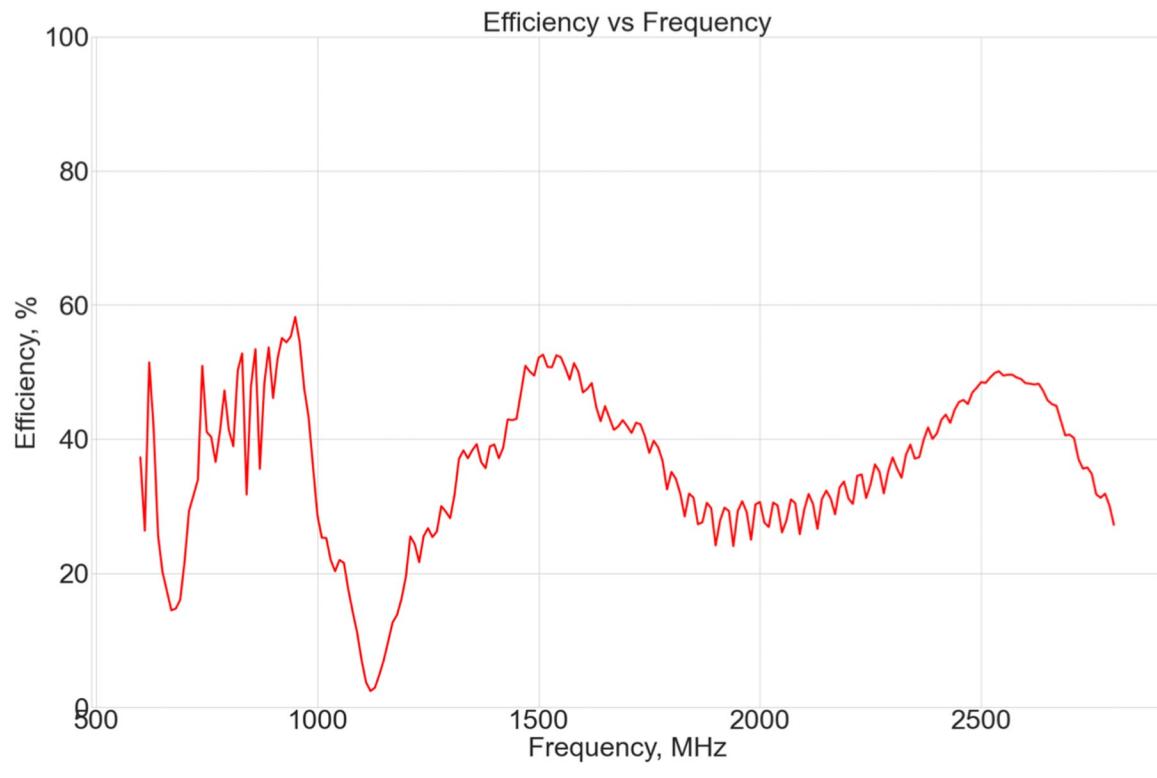
- Fleet Management
- Commercial Transport
- HD Video Monitoring
- Buses, Train & Commercial Applications
- Smart Cities

## Mechanical Specification

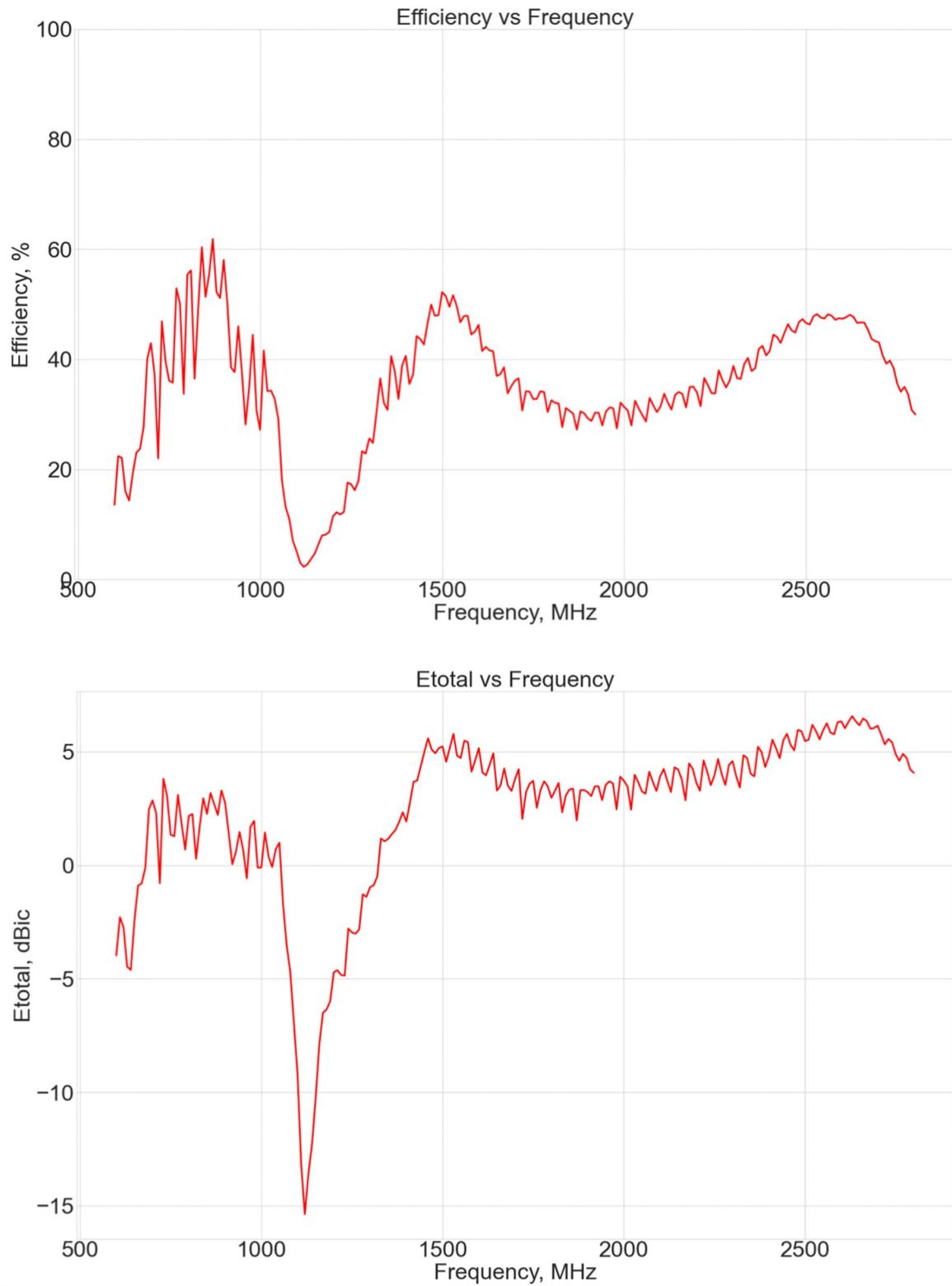
Parameter	Specifications
Antenna Dimensions (mm)	80 x 74 x 25.6
Operating Temperature (C)	-40 to +85
Storage Temperature (C)	-40 to +85
Mounting Type	Screw Mount
Radome/Color	ABS UV Stable/ Black, White
Substance Compliance	RoHS
Certificates	IP67, IP69
Max. Tighten Torque (Nm)	5 Nm

\*Mounted on 30 x 30 x 0.25 cm Metal Plate

**Cable 1**

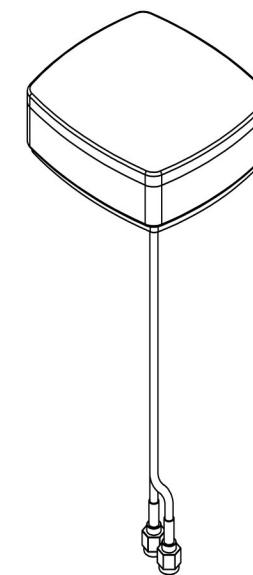
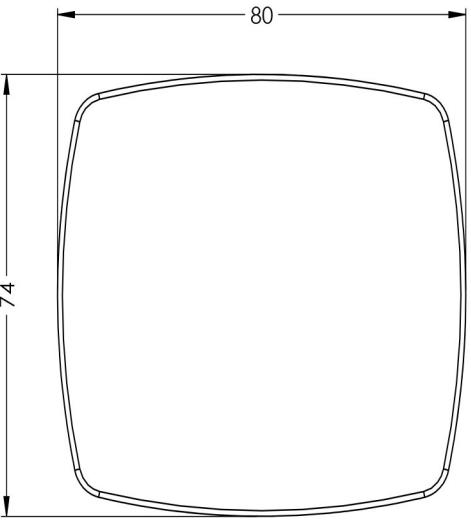
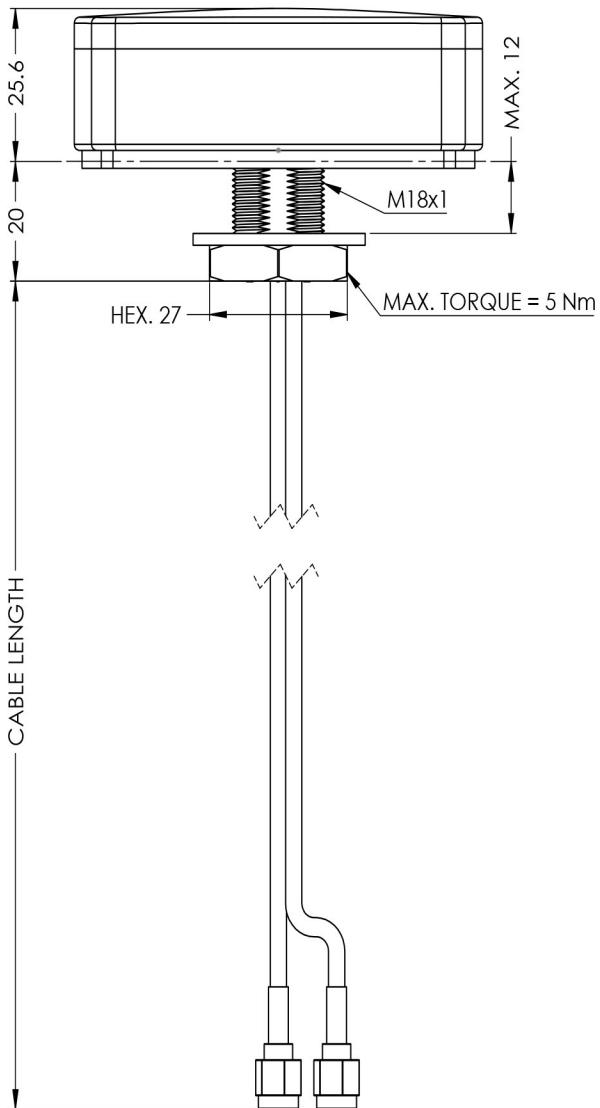


**Cable 2**



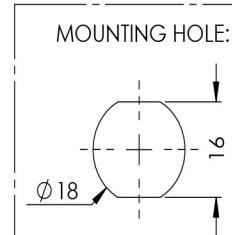
## DRAWING REVISION HISTORY

REV	DESCRIPTION	DATE	BY
A	INITIAL RELEASE	2022-07-15	SZ



## NOTES:

1. FREQUENCY:
  - CABLE 1 (2G, 3G, 4G): 698-960 MHz, 1710-2170 MHz, 2500-2700 MHz
  - CABLE 2 (2G, 3G, 4G): 698-960 MHz, 1710-2170 MHz, 2500-2700 MHz
2. CUSTOMIZABLE CABLE AND CONNECTOR TYPE
3. MOUNTING TYPE: SCREW MOUNT
4. MAX. MOUNTING THICKNESS: 12mm
5. DIMENSIONS ARE AFTER MOUNTING
6. MATERIALS:
  - RADOME: ABS UV STABLE
  - RADOME COLOR: BLACK or WHITE
7. OPERATING TEMPERATURE: -40°C ~ +85°C
8. STORAGE TEMPERATURE: -40°C ~ +85°C
9. CERTIFICATIONS: IP67, IP69



UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN MM

TOLERANCES:

FRACTIONAL ±

ANGULAR: MACH ± .5° BEND ±

ONE PLACE DECIMAL ± 1.0

TWO PLACE DECIMAL ± .50

INTERPRET GEOMETRIC

TOLERANCING PER:

Q.A.

MFG APPR.

ENG APPR.

CHECKED

DRAWN

NAME

DATE

TITLE:

MAXTENA, INC

100-00271  
MEA-2500-LP-SM-LoRa

TITLE:

100-00271

MEA-2500-LP-SM-LoRa

DWG. NO.

SIZE

REV

B

117-00616-01

CAGE CODE: 5KQH7

SCALE: NONE

SHEET 1 OF 1

## ITEM 100-00271 REVISION HISTORY

REV	DESCRIPTION	DATE	BY
1	INITIAL RELEASE	2022-07-15	SZ

PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF MAXTENA, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF MAXTENA, INC IS PROHIBITED.

100-00271 CONFIGURATION TABLE

DASH NO	CABLE TYPE	CABLE LENGTH	CONNECTOR TYPE	RADOME COLOR
-01	CABLE 1: D302 CABLE 2: D302	300 cm 300 cm	SMA-MALE SMA-MALE	BLACK

UNLESS OTHERWISE SPECIFIED:	DRAWN	SZ	2022-07-15
DIMENSIONS ARE IN MM	CHECKED	ZX	2022-07-15
TOLERANCES:	ENG APPR.	NPC	2022-07-15
FRACTIONAL ±	MFG APPR.		
ANGULAR: MACH ± .5° BEND ±	Q.A.		
ONE PLACE DECIMAL ± 1.0			
TWO PLACE DECIMAL ± .50			

INTERPRET GEOMETRIC

TOLERANCING PER:

Q.A.

MFG APPR.

ENG APPR.

CHECKED

DRAWN

NAME

DATE

TITLE:

100-00271

MEA-2500-LP-SM-LoRa

DWG. NO.

SIZE

REV

B

117-00616-01

CAGE CODE: 5KQH7

SCALE: NONE

SHEET 1 OF 1

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Maxtena:

[MEA-2500-LP-SM-LoRa](#)