



# 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 antenna's 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

Cable 1	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 2	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)		



## 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

## Applications

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



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## Mechanical Specification

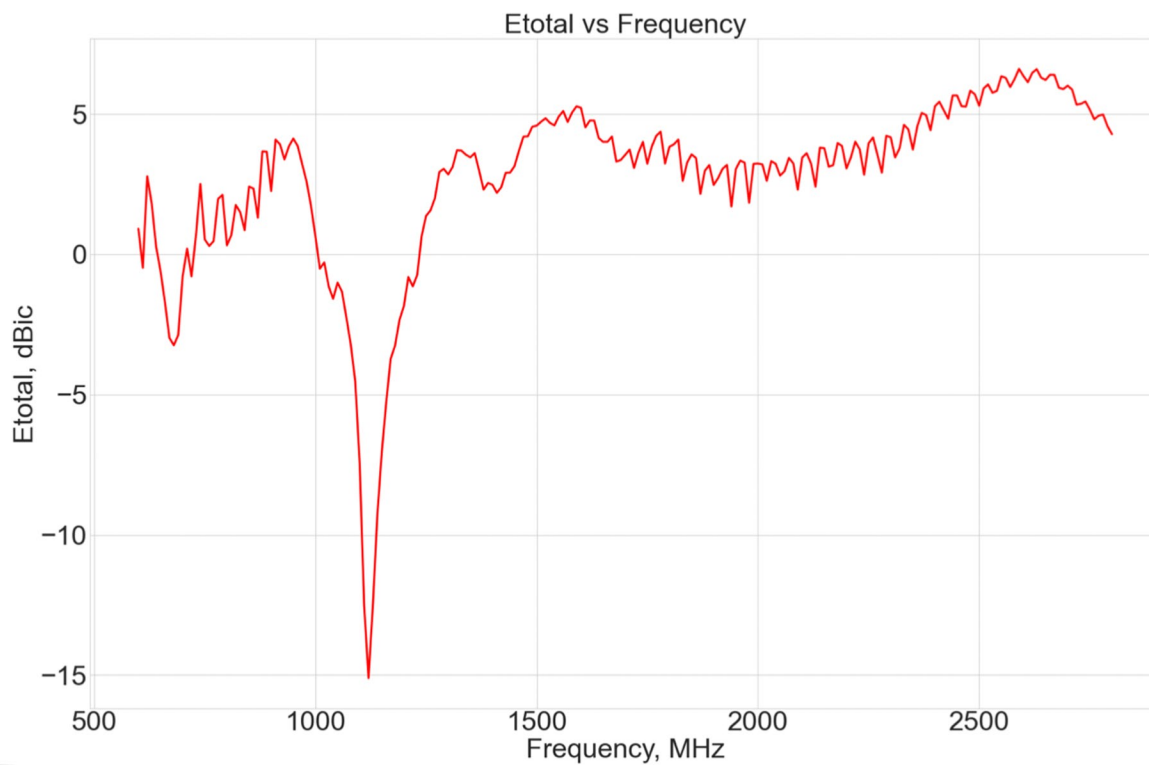
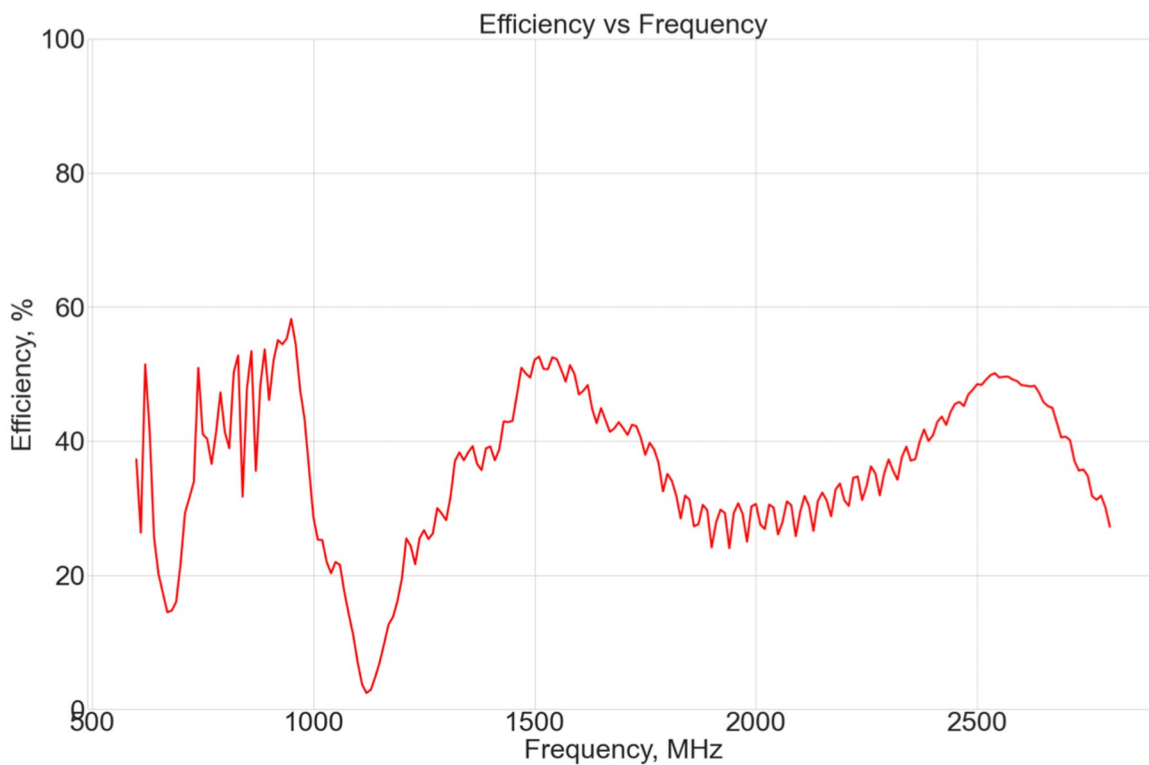
Parameter	Specifications
Antenna Dimensions (mm)	80 × 74 × 25.6
Operating Temperature (C)	-40 to +85
Storage Temperature (C)	-40 to +85
Mounting Type	Screw Mount
Radome/Color	ABS UV Stable/ Black, White
Substance Compliance	RoHS
Certificates	IP67, IP69
Max. Tighten Torque (Nm)	5 Nm

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

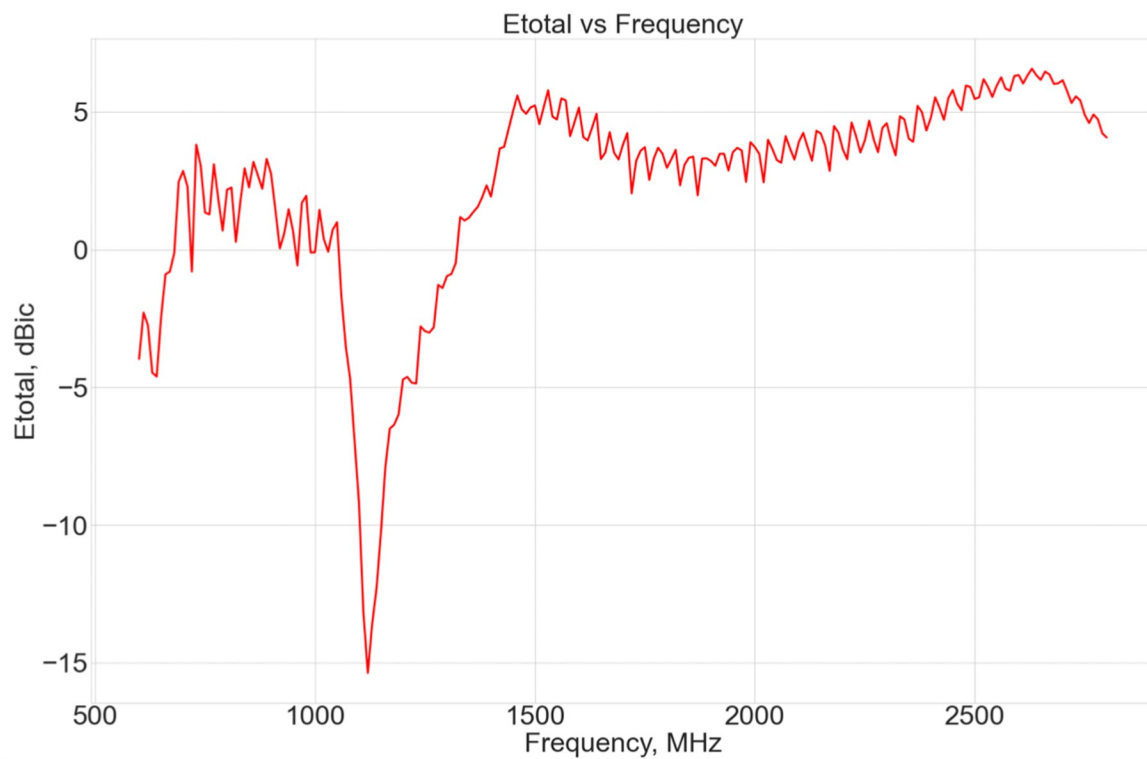
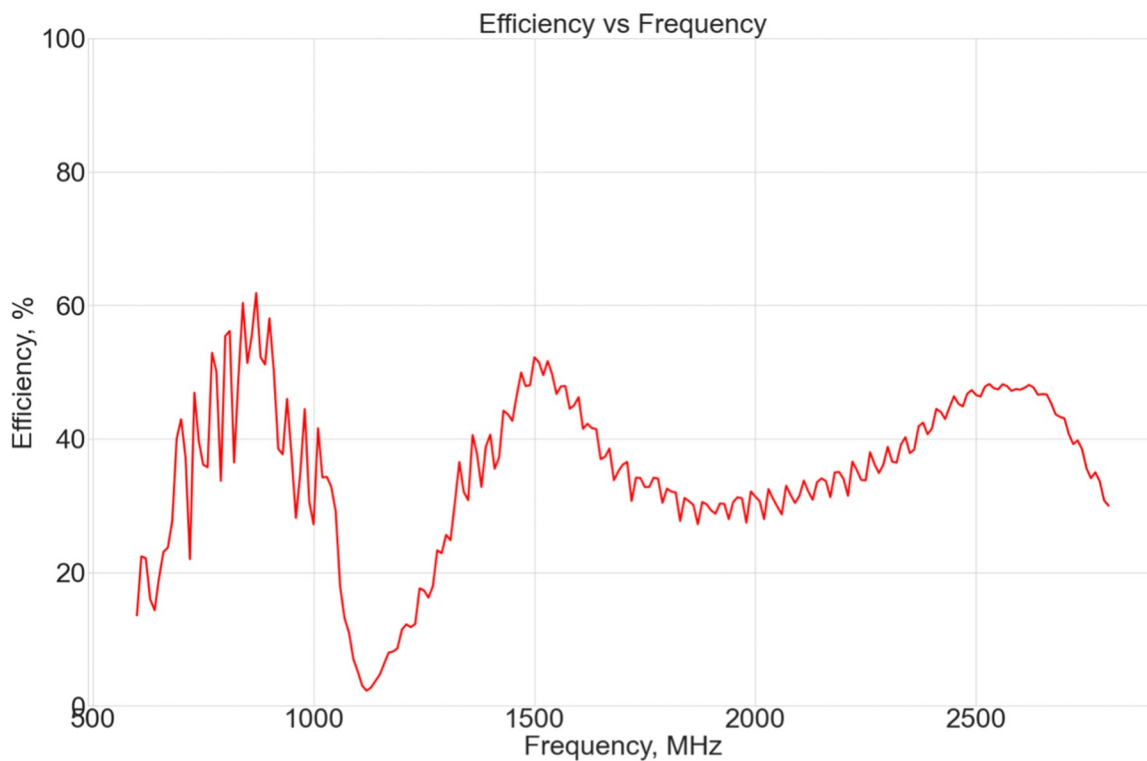


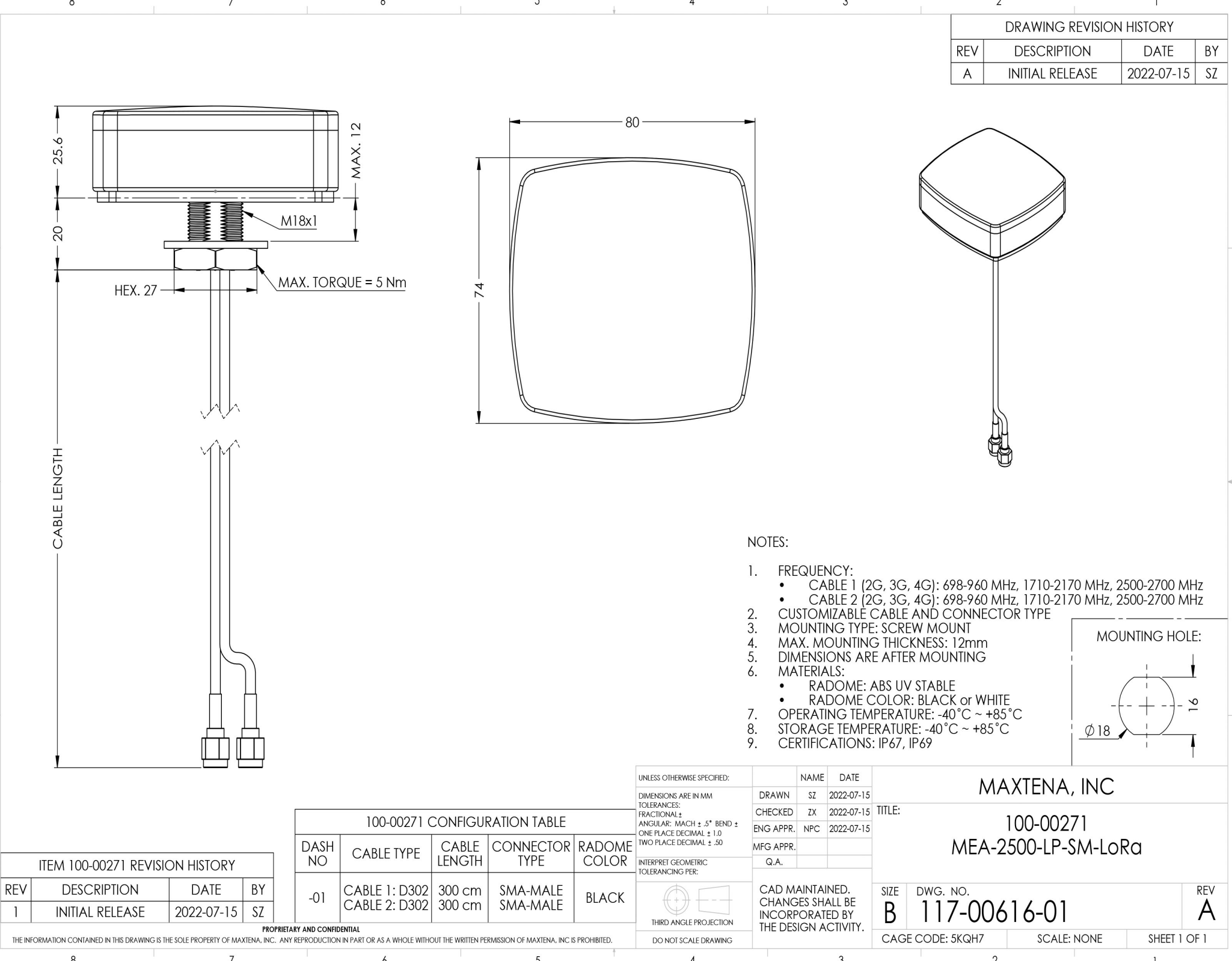
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**Cable 1**



**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
- MOUNTING HOLE:

ITEM 100-00271 REVISION HISTORY			
REV	DESCRIPTION	DATE	BY
1	INITIAL RELEASE	2022-07-15	SZ

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:	NAME	DATE
DIMENSIONS ARE IN MM	DRAWN	SZ 2022-07-15
TOLERANCES:	CHECKED	ZX 2022-07-15
FRACTIONAL ±	ENG APPR.	NPC 2022-07-15
ANGULAR: MACH ± .5° BEND ±	MFG APPR.	
ONE PLACE DECIMAL ± 1.0	Q.A.	
TWO PLACE DECIMAL ± .50		
INTERPRET GEOMETRIC TOLERANCING PER:	CAD MAINTAINED. CHANGES SHALL BE INCORPORATED BY THE DESIGN ACTIVITY.	
THIRD ANGLE PROJECTION		
DO NOT SCALE DRAWING		

MAXTENA, INC		
TITLE:		
100-00271		
MEA-2500-LP-SM-LoRa		
SIZE	DWG. NO.	REV
B	117-00616-01	A
CAGE CODE: 5KQH7	SCALE: NONE	SHEET 1 OF 1

# Mouser Electronics

Authorized Distributor

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