



MEA-2500-AM

CELLULAR/LTE Flexible Polymer

Part #: 100-00268-01

Description

MEA-2500-AM is a high performance embedded antenna that provides broad coverage 698 MHz- 960 MHz / 1710 MHz-2700 MHz and is compatible with most 4G LTE, 3G and 2G standards. This is a high efficiency high gain antenna ideally suited for LTE connectivity such as gateways, healthcare, HD video, routers, access points, repeaters and other LTE applications. The antenna is built out of flex material and is very easy to integrate. The antenna size is 40 × 20 × 0.2 mm featuring a 38 cm cable and U.FL connector.



Electrical Specification

Parameter		Specification		
CELLULAR / LTE Antenna	Center Frequency	698-960 MHz	1710-2170 MHz	2500-2700 MHz
	Band	700/850/900 MHz	1700/1800/1900/2100 MHz	2600 MHz
	Return Loss	-10.8dB	-7.5dB	-8.0dB
	VSWR	2.1:1	2.5:1	26.1:1
	Efficiency	69.0%	65.8%	56.3%
	Peak Gain	4.1dBi	2.7 dBi	2.2dBi
	Average Gain	-1.7 dB	-1.9 dB	-2.5 dB
	Impedance	50 Ω		
	Polarization	Linear		
	Radiation Pattern	Omni-Directional		
Max. Input Power	25 W			

Features

- High Performance Antenna
- CELLULAR / LTE frequency bands.
- Easy mounting: Self-Adhesive
- Left-Hand Feed
- Small Size: Dimensions 40 × 20 × 0.2 mm
- Flexible Material
- Dimensions 40 × 20 × 0.2 mm
- Customizable Cable and Connector

Applications

- IOT
- Smart City
- Vending Machines
- HD Video
- Gateways

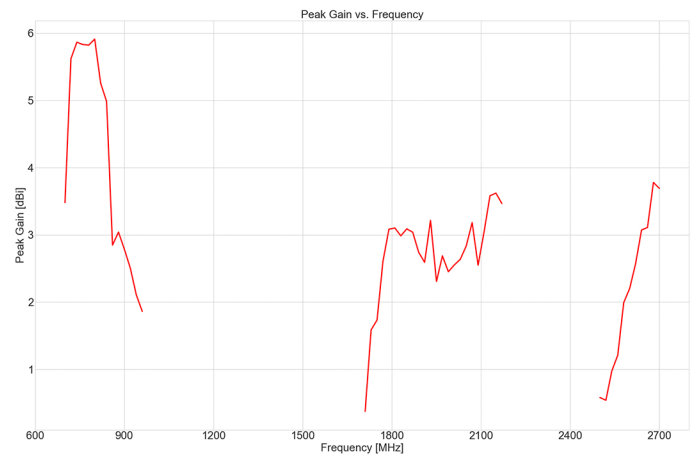
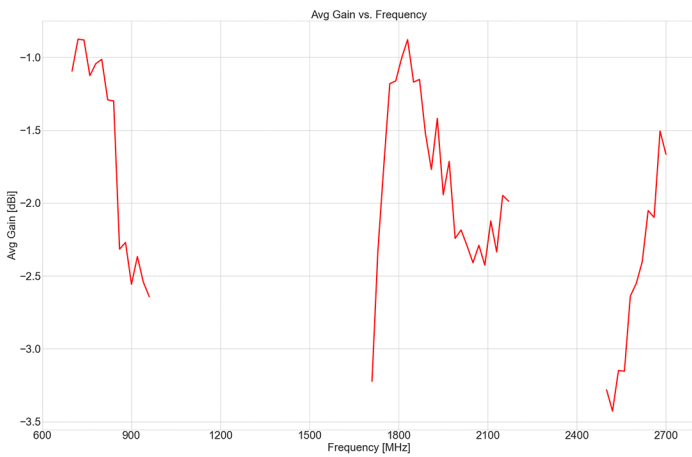
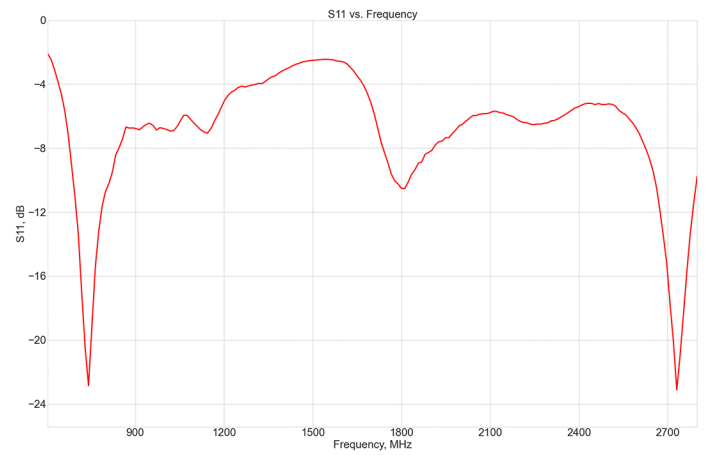
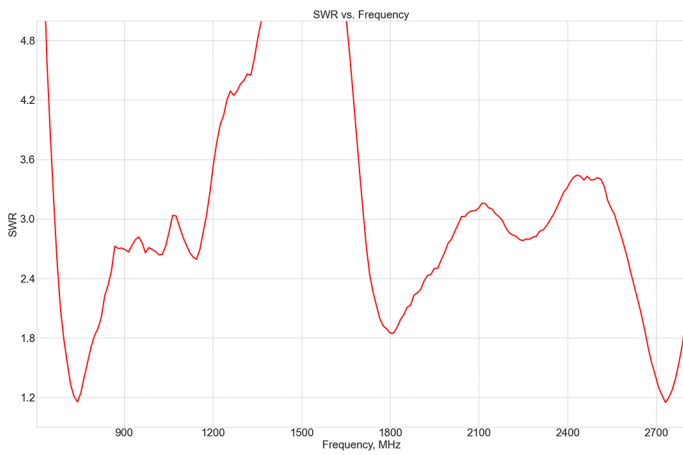
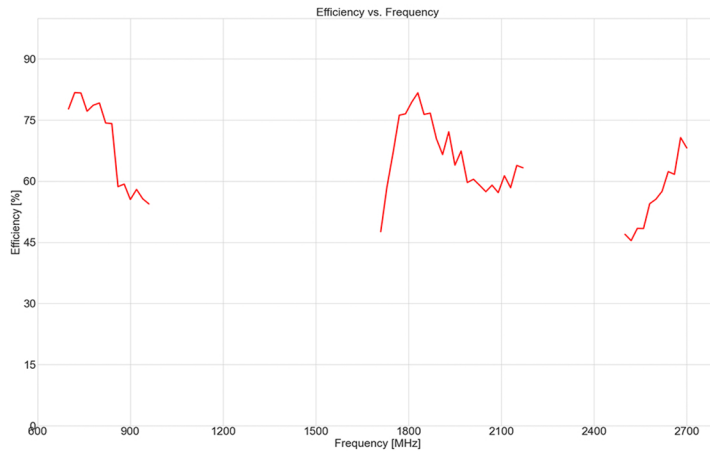
Mechanical Specification

Parameter	Specification
Antenna Dimensions	40 x 20 x 0.2 mm
Operating Temperature	-40°C to + 85°C
Mounting Type	Self-Adhesive
Connector	U.FL Standard (Other connectors available)
Cable	1.35mm Mini-Coax Standard (other cables available)
Substance Compliance	RoHS
Certificates	CTIA 3D Anechoic



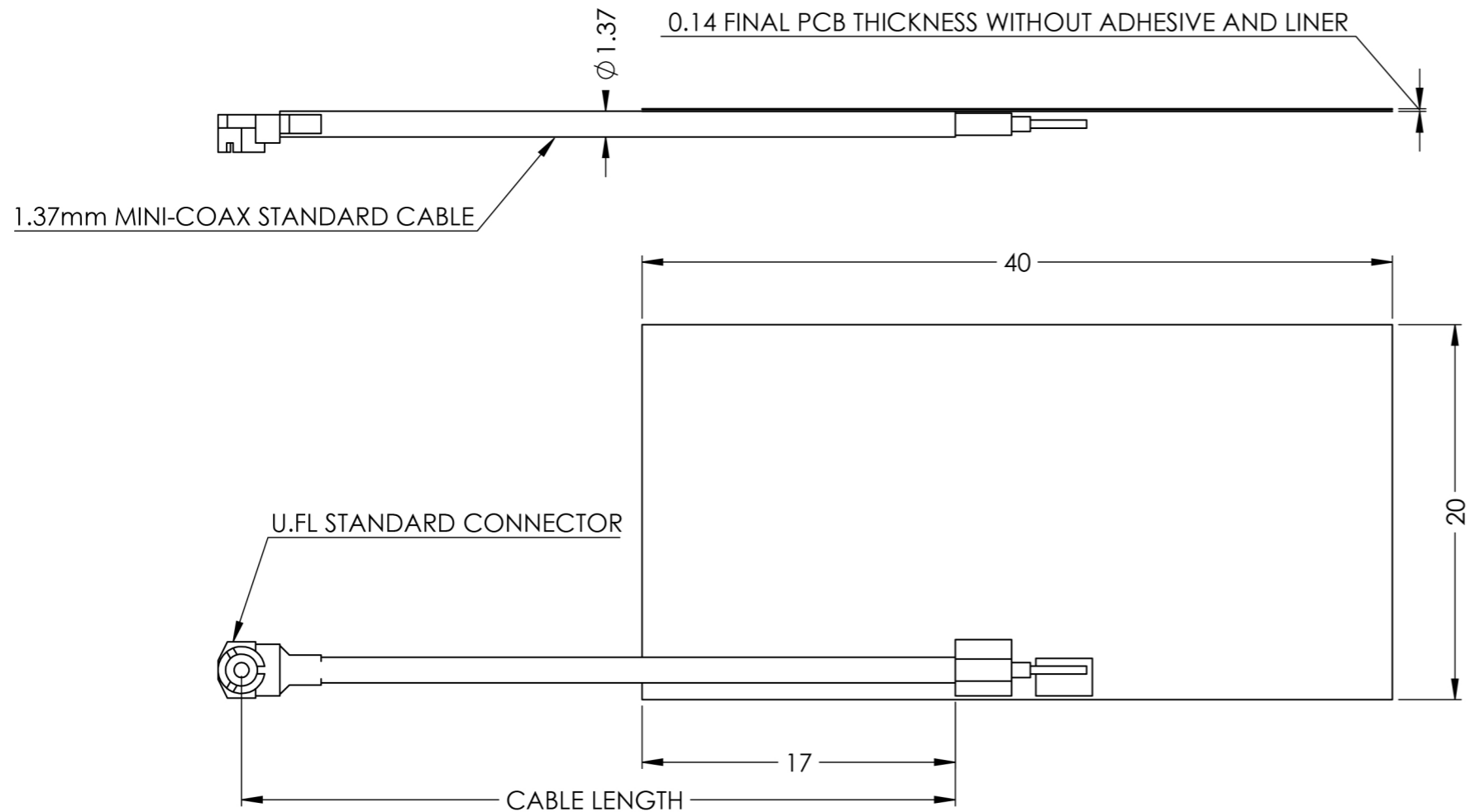
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DRAWING REVISION HISTORY			
REV	DESCRIPTION	DATE	BY
A	INITIAL RELEASE	2022-07-08	SZ



NOTES:

1. FREQUENCY (2G, 3G, 4G): 698-960 MHz, 1710-2170 MHz, 2500-2700 MHz
2. MOUNTING TYPE: SELF-ADHESIVE
3. CUSTOMIZABLE CABLE AND CONNECTOR TYPE
4. MATERIALS:
 - FLEXIBLE POLYMER
 - ADHESIVE TYPE: 3M 467MP
5. OPERATING TEMPERATURE: -40°C ~ + 85°C
6. STORAGE TEMPERATURE: -40°C ~ + 85°C

ITEM 100-00268 REVISION HISTORY			
REV	DESCRIPTION	DATE	BY
1	INITIAL RELEASE	2022-07-08	SZ

100-00268 CONFIGURATION TABLE			
DASH NO	CONNECTOR ORIENTATION	CABLE LENGTH	CONNECTOR TYPE
-01	OUTSIDE (AS SHOWN)	38mm	U.FL

UNLESS OTHERWISE SPECIFIED:	NAME	DATE
DIMENSIONS ARE IN MM	DRAWN SZ	2022-07-08
TOLERANCES:	CHECKED ZX	2022-07-08
FRACTIONAL ±	ENG APPR. NPC	2022-07-08
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.	
	DO NOT SCALE DRAWING	

MAXTENA, INC		
TITLE: 100-00268 MEA-2500-AM		
SIZE B	DWG. NO. 117-00613-01	REV A
CAGE CODE: 5KQH7	SCALE: NONE	SHEET 1 OF 1