

MEA-5000-LP-CM

2.4/5.0 GHz ISM Connector Mount

Part #: 100-00298-01

Description

The MEA-5000-LP-CM connector mount Antenna is a low profile antenna solution, with a very high-performance ideal for maintaining constant network connectivity. The MEA-5000-LP-CM covers ISM standard frequencies. This is an ideal antenna for telematics systems, remote surveillance, asset tracking and any IOT system applications.

The MEA-5000-LP-CM is easy to install with maximum durability housing and anti-rotation mounting. The high performance and low profile make this antenna ideal for the most challenging installations.

Electrical Specification

Parameter	Specifications	
Standards	WiFi, BT, ZigBee, ISM	
Band	2.4 GHz	5.0 GHz
Frequency Range	2410-2490 MHz	4920-5925 MHz
Return Loss	~-10.7	~-7.4
VSWR	~1.8:1	~2.8:1
Efficiency (%)	~59.0	~45.0
Peak Gain (dBi)	~3.0	~1.0
Average Gain (dB)	~-2.3	~-3.5
Impedance (Ohm)	50	
Polarization	Linear	
Radiation Pattern	Omni-Directional	
Max Input Power	25	
Connector Type	RP-SMA-Male Standard	

Mechanical Specification

Parameter	Specifications
Antenna Dimensions (mm)	Ø 10 x 71
Operating Temperature (C)	-40 to +85
Storage Temperature (C)	-40 to +85
Mounting Type	Connector Mount
Radome/Color	POM/ Black
Substance Compliance	RoHS
Measured in	Certified CTIA 3D Anechoic Chamber

*Mounted on Ground Plane of 70x35mm

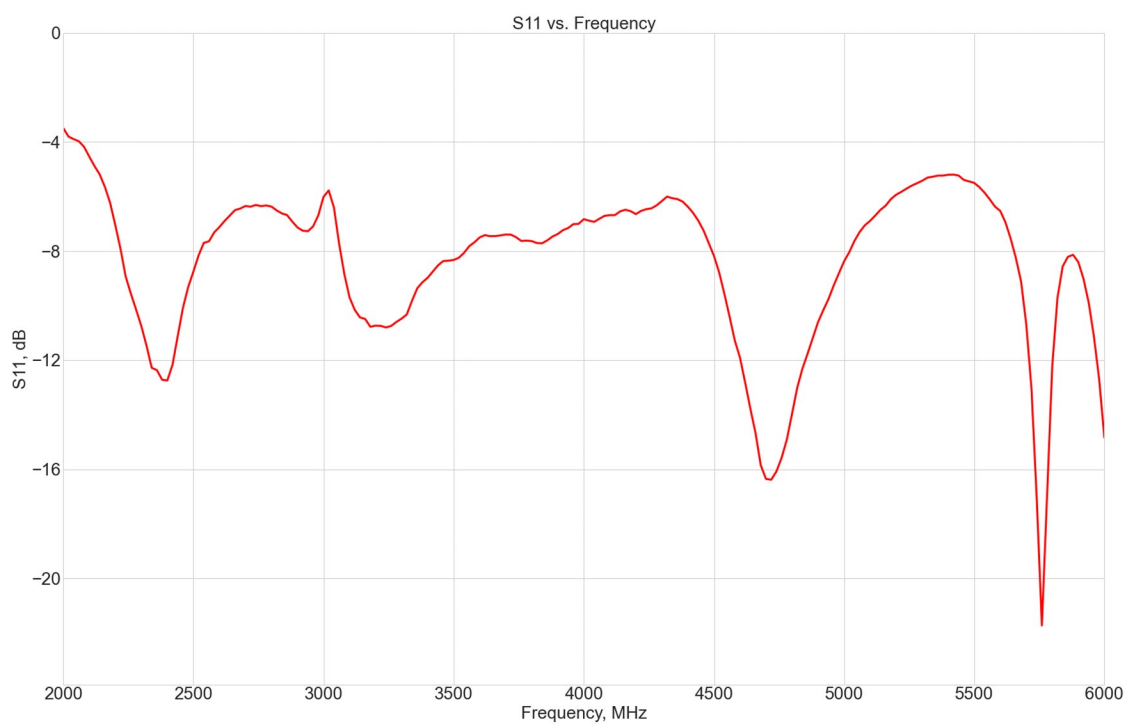
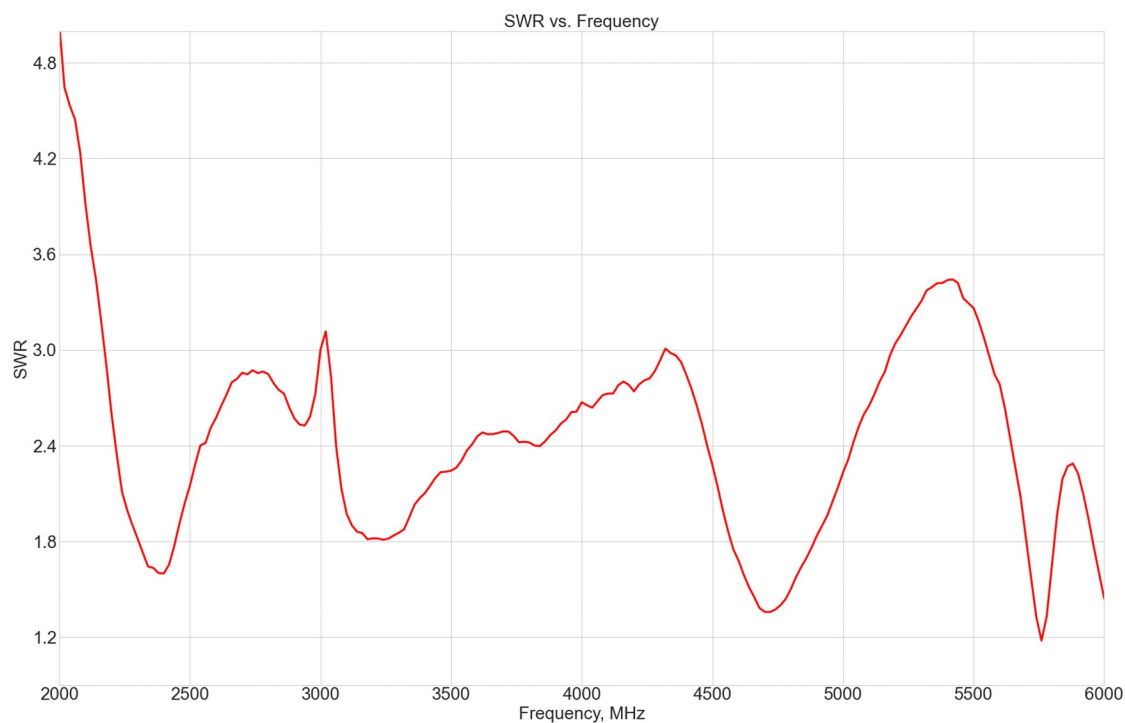


Features

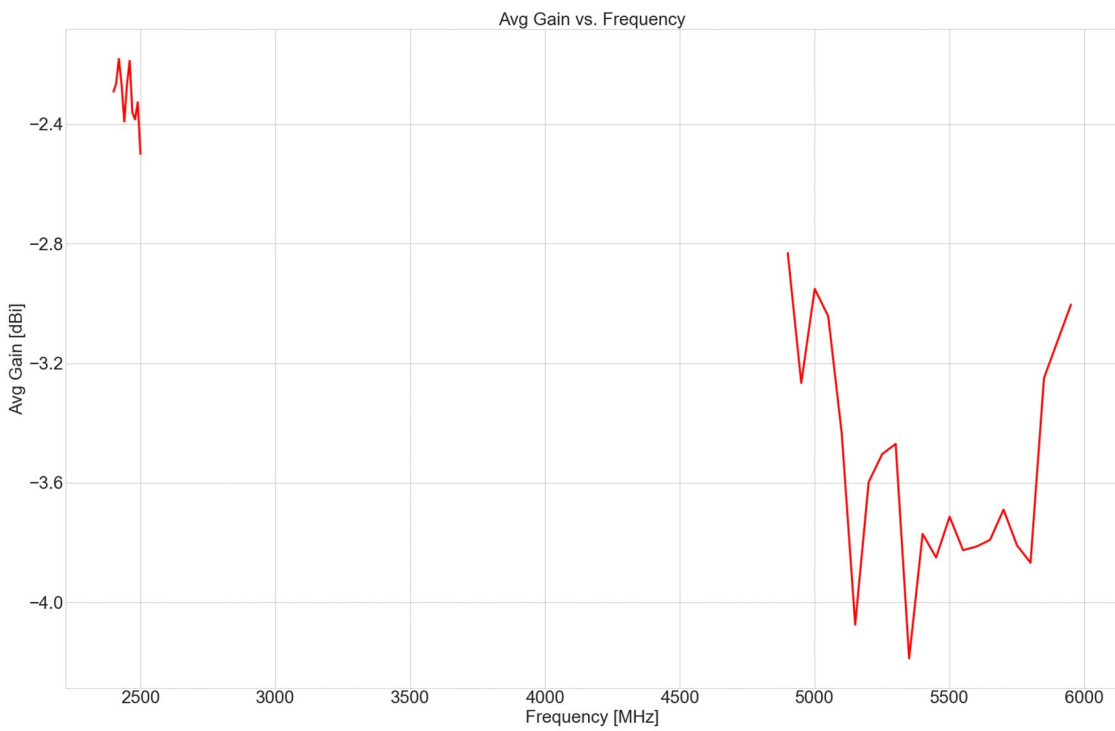
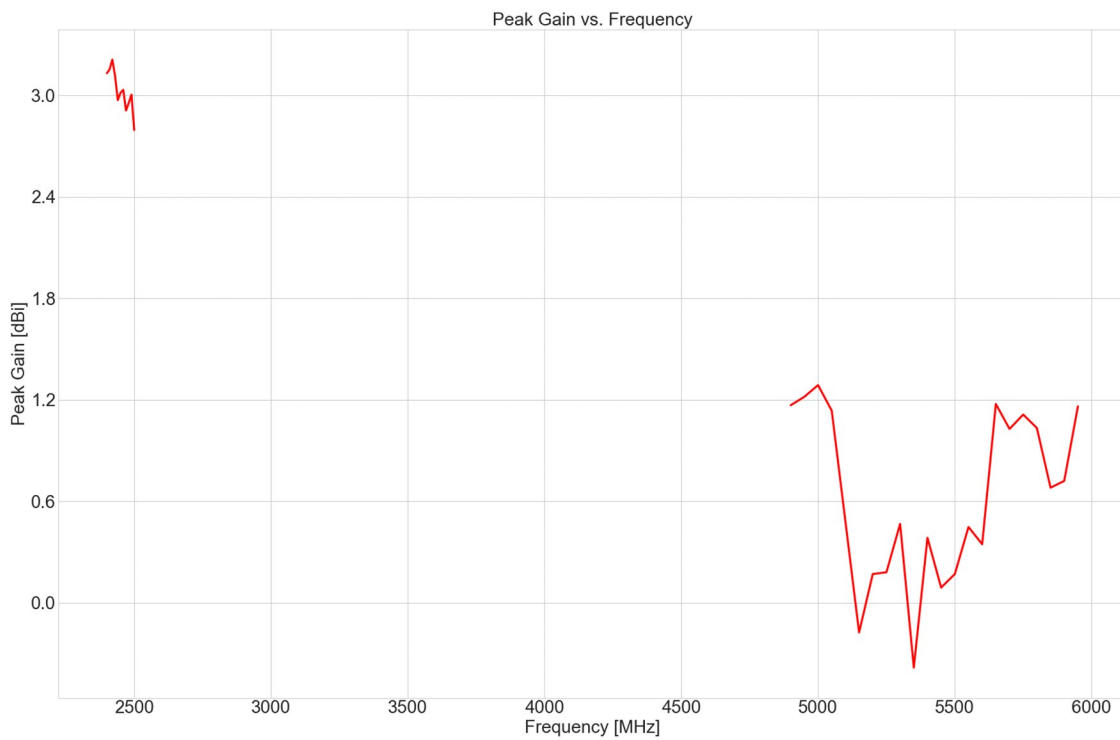
- 2.4/5.0 GHz
ISM - 2410-2490 MHz - 4920-5925 MHz
frequency coverage
- Easy mounting: Connector Mount
- Low Profile
- High Efficiency
- Dimensions Ø 10 x 71 mm

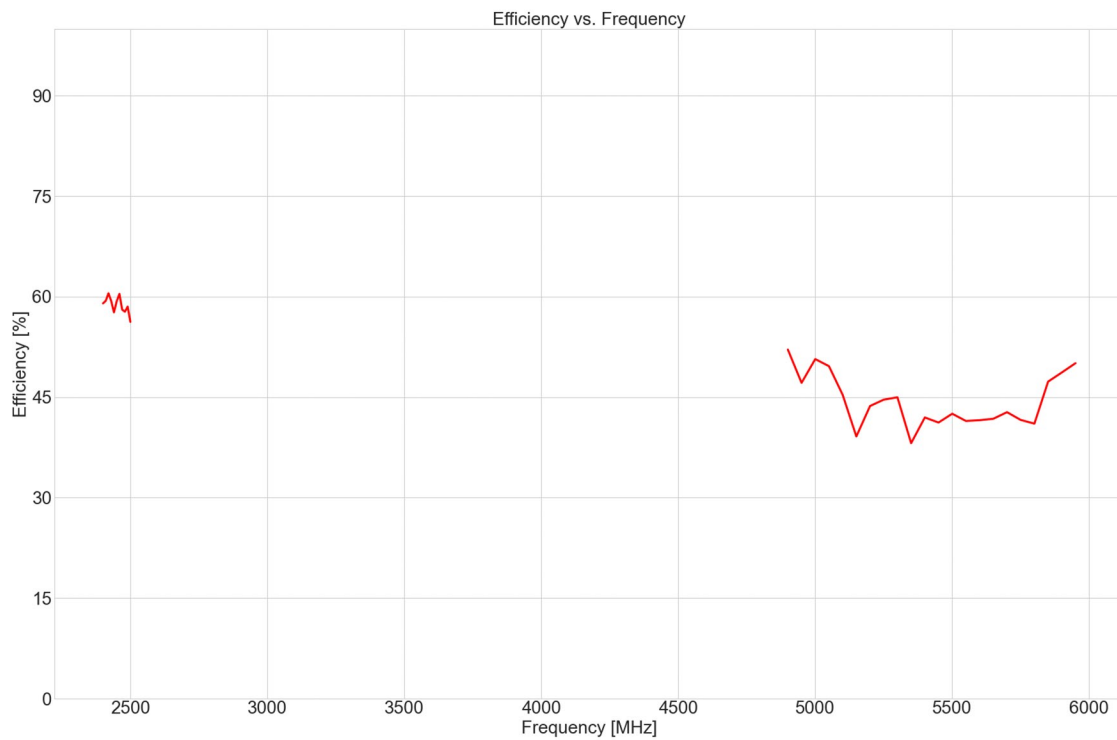
Applications

- Wi-Fi applications
- Navigation and telematics systems
- IoT
- Automotive connectivity
- Multimedia
- Fleet management
- HD video and audio streaming



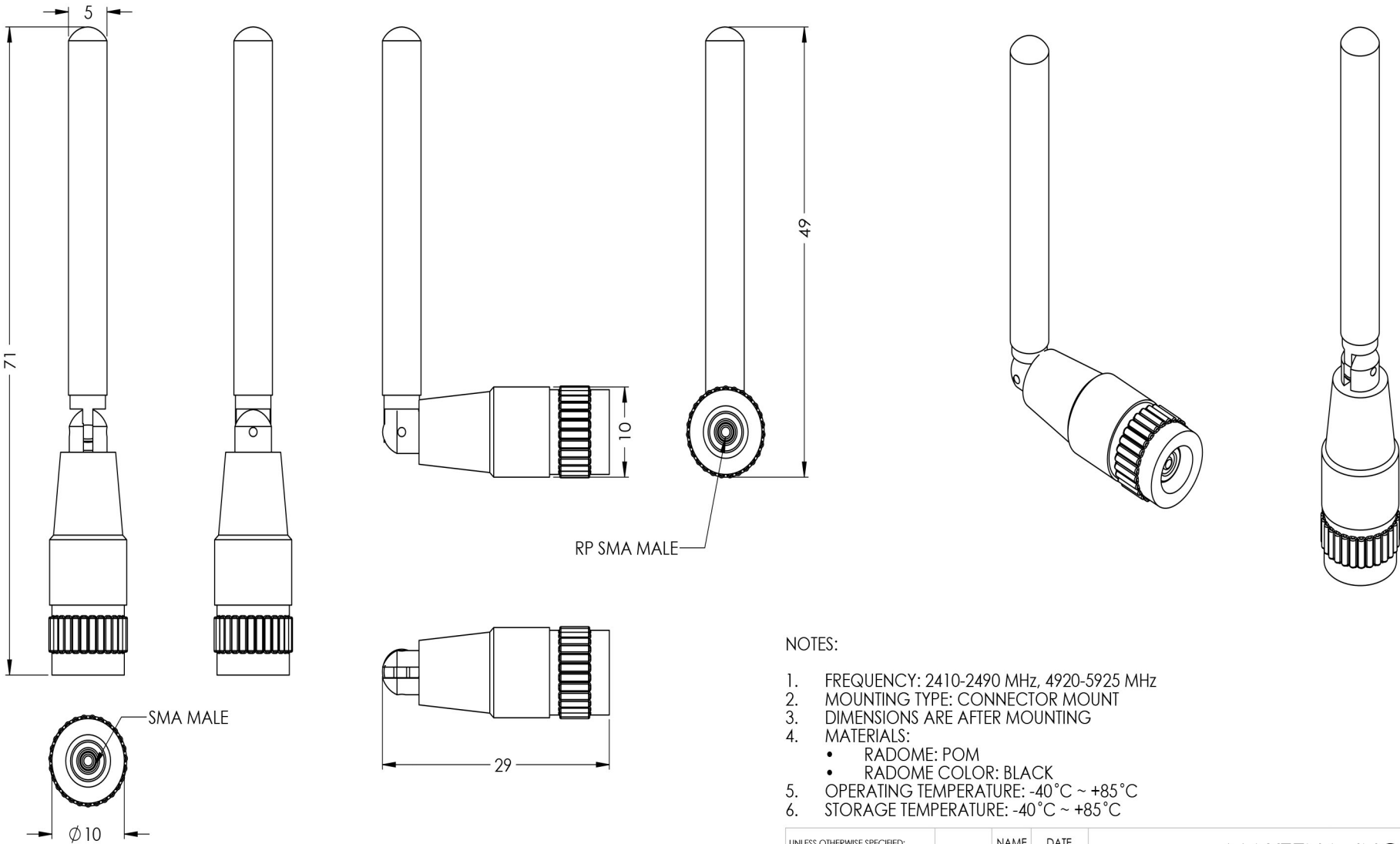
Maxtena Inc.
7361 Calhoun Place, Suite 102
Rockville, MD 20855
1-877-629-8362
info@maxtena.com
www.maxtena.com





Maxtena Inc.
7361 Calhoun Place, Suite 102
Rockville, MD 20855
1-877-629-8362
info@maxtena.com
www.maxtena.com

DRAWING REVISION HISTORY			
REV	DESCRIPTION	DATE	BY
A	INITIAL RELEASE	2022-08-19	MP



NOTES:

1. FREQUENCY: 2410-2490 MHz, 4920-5925 MHz
2. MOUNTING TYPE: CONNECTOR MOUNT
3. DIMENSIONS ARE AFTER MOUNTING
4. MATERIALS:
 - RADOME: POM
 - RADOME COLOR: BLACK
5. OPERATING TEMPERATURE: -40°C ~ +85°C
6. STORAGE TEMPERATURE: -40°C ~ +85°C

ITEM 100-00298 REVISION HISTORY			
REV	DESCRIPTION	DATE	BY
A	INITIAL RELEASE	2022-08-19	MP

100-00298 CONFIGURATION TABLE		
DASH NO	CONNECTOR TYPE	RADOM COLOR
-01	RP SMA MALE	BLACK

UNLESS OTHERWISE SPECIFIED:		NAME	DATE	MAXTENA, INC 100-00298 MEA-5000-LP-CM	
DIMENSIONS ARE IN MM		DRAWN	MP		
TOLERANCES:		CHECKED	ZX		
FRACTIONAL ±		ENG APPR.	NPC		
ANGULAR: MACH ± .5° BEND ±		MFG APPR.		TITLE:	
ONE PLACE DECIMAL ± 1.0		Q.A.			
TWO PLACE DECIMAL ± .50				REV	
INTERPRET GEOMETRIC TOLERANCING PER:		CAD MAINTAINED. CHANGES SHALL BE INCORPORATED BY THE DESIGN ACTIVITY.		SIZE	DWG. NO.
		DO NOT SCALE DRAWING		B	117-00665-01
				CAGE CODE: 5KQH7	SCALE: NONE
				SHEET 1 OF 1	

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