



# MEA-2410-LP-CM

2.4 GHz ISM Connector Mount

Part #: 100-00274-01

## Description

The MEA-2410-LP-CM connector mount Antenna is a low profile antenna solution, with a very high-performance ideal for maintaining constant network connectivity. The MEA-2410-LP-CM covers all WiFi, BT, ZigBee, and ISM standard frequencies. This is an ideal antenna for telematics systems, remote surveillance, asset tracking and any IOT system applications.

The MEA-2410-LP-CM is easy to install with maximum durability 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                 |
| Frequency Range (MHz) | 2410-2490               |
| Return Loss (dB)      | ~16.4                   |
| VSWR                  | ~1.3:1                  |
| Efficiency (%)        | ~71                     |
| Peak Gain (dBi)       | ~3.2                    |
| Average Gain (dB)     | ~-1.4                   |
| Impedance (Ohm)       | 50                      |
| Polarization          | Linear                  |
| Radiation Pattern     | Omni-Directional        |
| Max Input Power       | 25                      |
| Connector Type        | RP-SMA-Male-RA Standard |

## Mechanical Specification

| Parameter                 | Specifications                     |
|---------------------------|------------------------------------|
| Antenna Dimensions (mm)   | 53 × 10 × 18                       |
| Operating Temperature (C) | -40 to +85                         |
| Storage Temperature (C)   | -40 to +85                         |
| Mounting Type             | Connector Mount                    |
| Radome/Color              | TPE/ Black                         |
| Substance Compliance      | RoHS                               |
| Measured in               | Certified CTIA 3D Anechoic Chamber |

\*Mounted on Ground Plane of 70x35 mm



## Features

- 2.4 GHz ISM (2410-2490 MHz)
- Easy mounting: Connector Mount
- High efficiency
- Low Profile
- Dimensions 53 × 10 × 18 mm

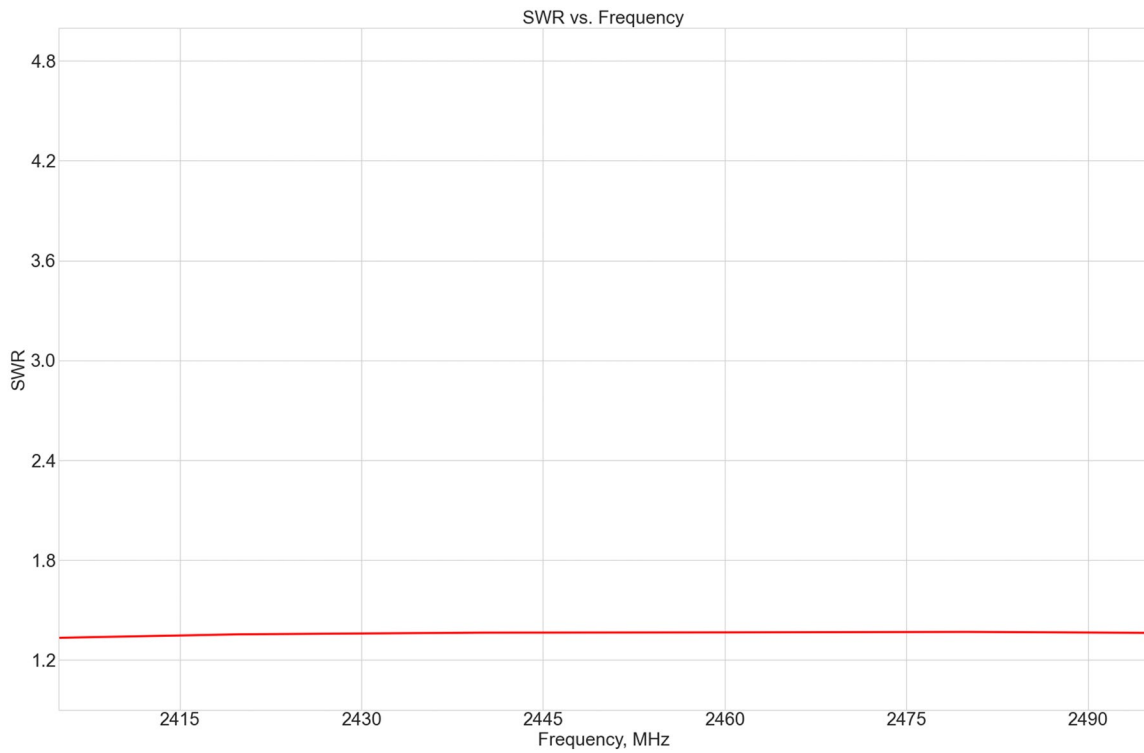
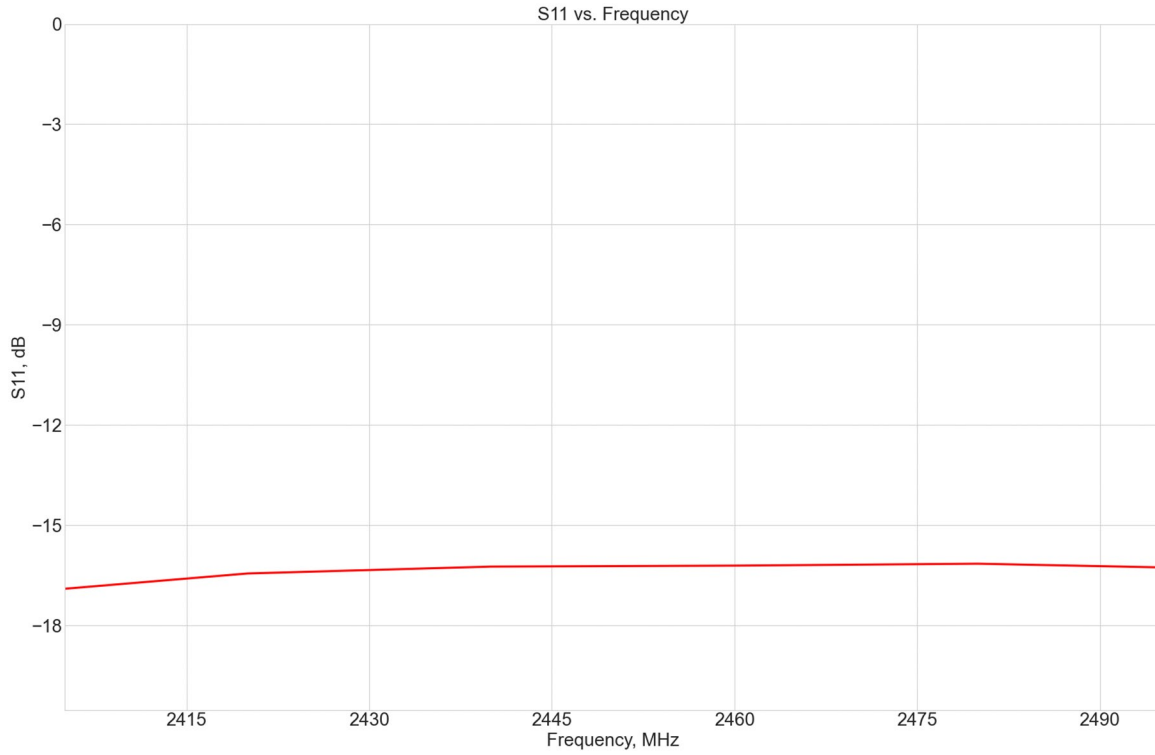
## Applications

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

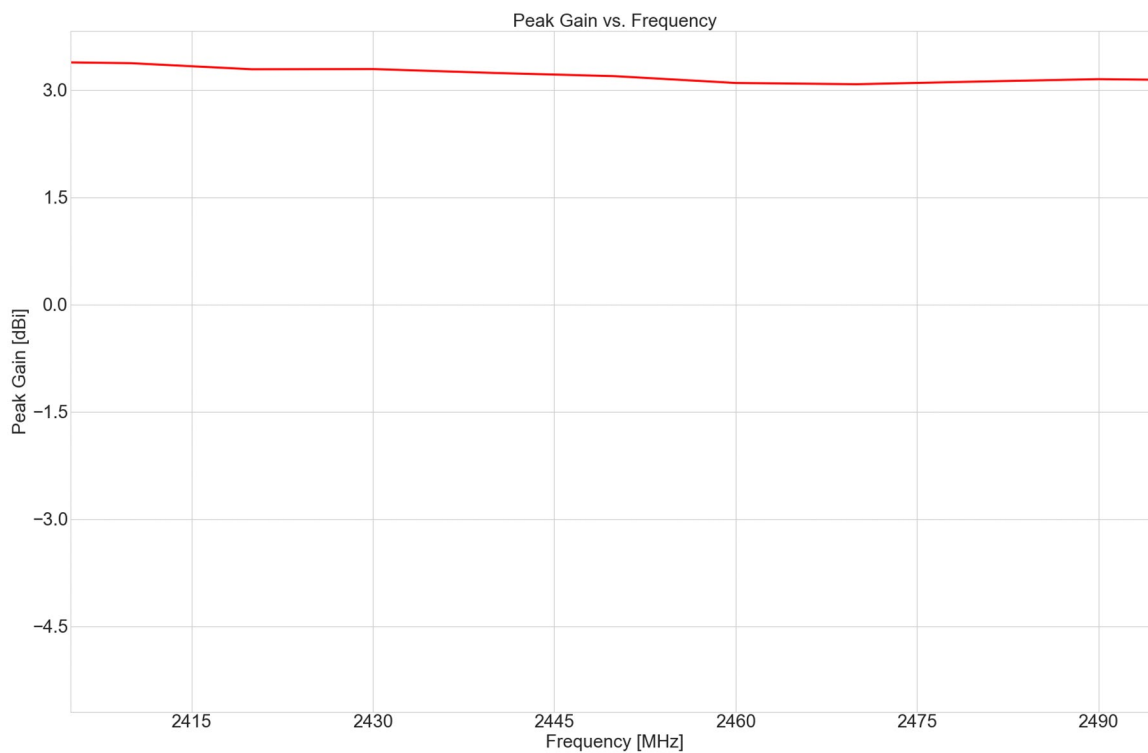
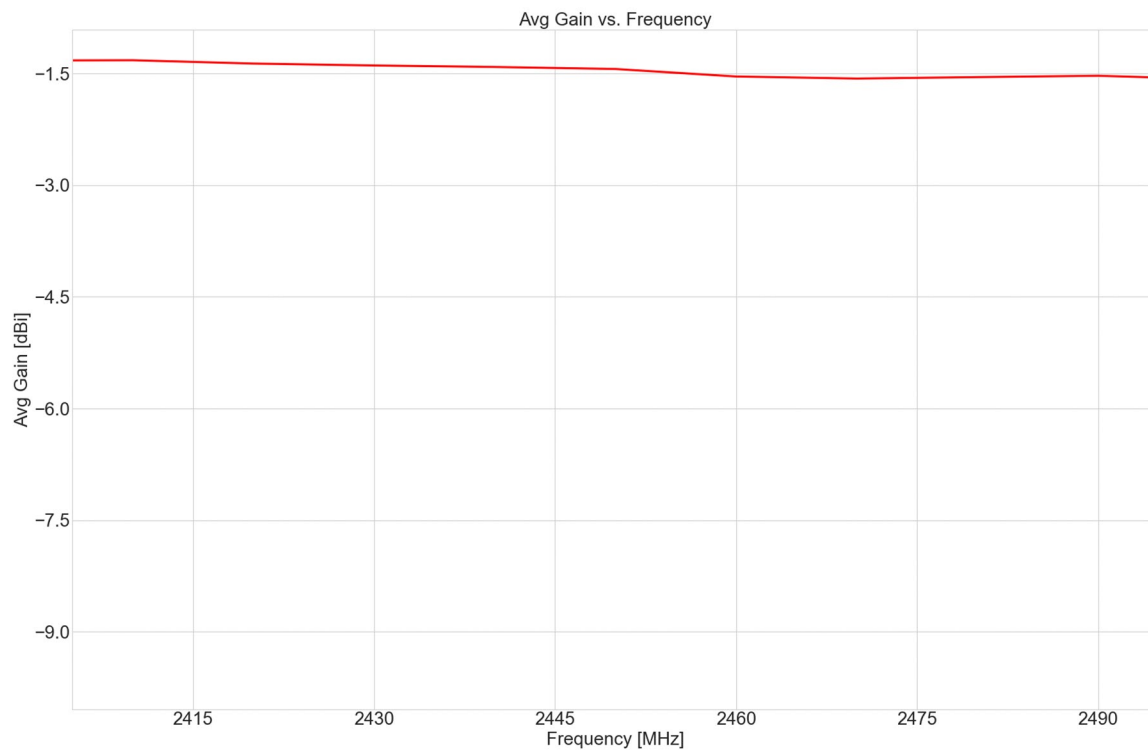


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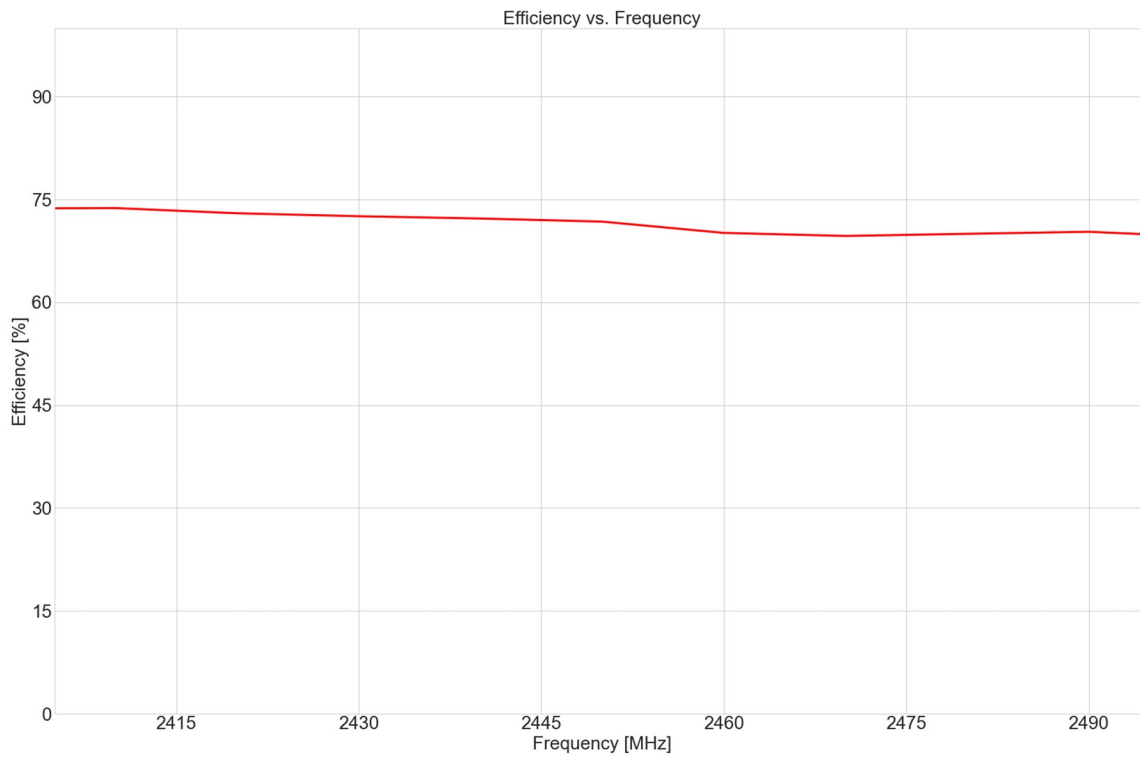
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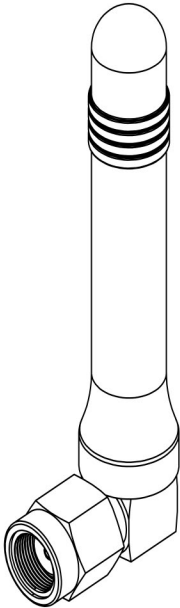
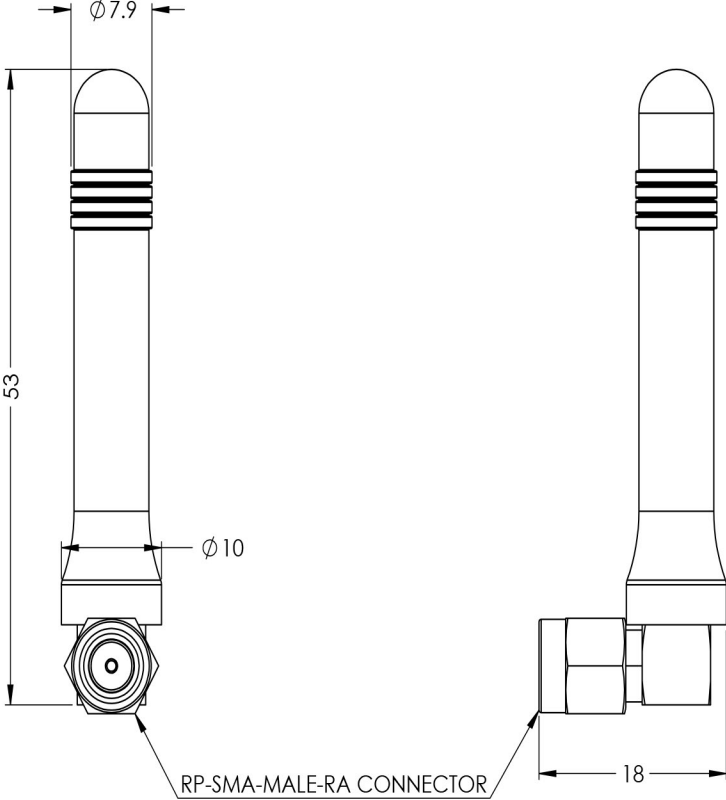


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| DRAWING REVISION HISTORY |                 |            |     |
|--------------------------|-----------------|------------|-----|
| REV                      | DESCRIPTION     | DATE       | BY  |
| A                        | INITIAL RELEASE | 2022-05-06 | JET |



- NOTES:
- 1. FREQUENCY (WIFI, BT, ZigBee, ISM): 2410-2490 MHz
  - 2. MOUNTING TYPE: CONNECTOR MOUNT
  - 3. MATERIALS:
    - RADOME: TPE
    - RADOME COLOR: BLACK
  - 4. OPERATING TEMPERATURE: -40° C ~ +85° C
  - 5. STORAGE TEMPERATURE: -40° C ~ +85° C

| ITEM 100-00274 REVISION HISTORY |                 |            |     |
|---------------------------------|-----------------|------------|-----|
| REV                             | DESCRIPTION     | DATE       | BY  |
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| 100-00274 CONFIGURATION TABLE |                       |              |
|-------------------------------|-----------------------|--------------|
| DASH NO                       | CONNECTOR TYPE        | RADOME COLOR |
| -01                           | RP-SMA-MALE-RA NICKEL | BLACK        |

|                                    |  |           |      |                                                                                |              |
|------------------------------------|--|-----------|------|--------------------------------------------------------------------------------|--------------|
| UNLESS OTHERWISE SPECIFIED:        |  | NAME      | DATE | MAXTENA, INC<br>TITLE:<br>100-00274<br>MEA-2410-LP-CM                          |              |
| DIMENSIONS ARE IN MM               |  | DRAWN     | JET  |                                                                                |              |
| TOLERANCES:                        |  | CHECKED   | ZX   |                                                                                |              |
| FRACTIONAL $\pm$                   |  | ENG APPR. | NPC  |                                                                                |              |
| ANGULAR: MACH $\pm$ .5° BEND $\pm$ |  | MFG APPR. |      | CAD MAINTAINED.<br>CHANGES SHALL BE<br>INCORPORATED BY<br>THE DESIGN ACTIVITY. |              |
| ONE PLACE DECIMAL $\pm$ 1.0        |  | Q.A.      |      |                                                                                |              |
| TWO PLACE DECIMAL $\pm$ .50        |  |           |      | SIZE                                                                           | DWG. NO.     |
| INTERPRET GEOMETRIC                |  |           |      | B                                                                              | 117-00627-01 |
| TOLERANCING PER:                   |  |           |      | REV<br>A                                                                       |              |
|                                    |  |           |      | CAGE CODE: 5KQH7                                                               |              |
| THIRD ANGLE PROJECTION             |  |           |      | SCALE: NONE                                                                    |              |
| DO NOT SCALE DRAWING               |  |           |      | SHEET 1 OF 1                                                                   |              |

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