# MEA-915-SM

## External 915Mhz ISM Band Antenna

Part #: 100-00156-01

### Description

The MEA-915-SM is a high gain & efficiency antenna to be used for 915MHz wireless applications. This external mount rugged antenna is ideal for high performance outdoor or indoor applications. It is designed for IOT, Telematics and remote metering mesh installations and systems. The high efficiency and gain along with the omni-directional properties provide this antenna a consistent and stable long range connectivity with high throughput data to devices for 915MHz needs. The antenna housing consist of black UV resistant rugged plastics and a heavy-duty metal base for optimal installations. The cable & connector are customizable.

### Electrical Specification

| Parameter | |
|---|---|
| Frequency Range | 902-928MHz |
| Gain | 3-5 dBi |
| V.S.W.R | ≤ 2.5:1 |
| Radiation | Omni-Directional |
| Polarization | Vertical |
| Maximum Input Power | 50W |
| Impedance | 50 Ω |

### Features

- 915MHz frequencies
- IP67 rated
- High gain & efficiency
- Custom cable & connector options

### Mechanical Specification

| Parameter | |
|---|---|
| Antenna Dimensions | Φ 48 x 82 mm |
| Weight | 160 g |
| Operating Temperature | -40 ˚C to +70 ˚C |
| Antenna Radome Material | ABS |
| Connector | SMA Male |
| Cable Type | RG58U |
| Cable Length | 3M |
| Mount Type | Screw |
| Antenna Color | Black |
| ROHS Compliant | Yes |

### Applications

- Remote mesh networks
- Smart meters
- IOT
- Public Safety

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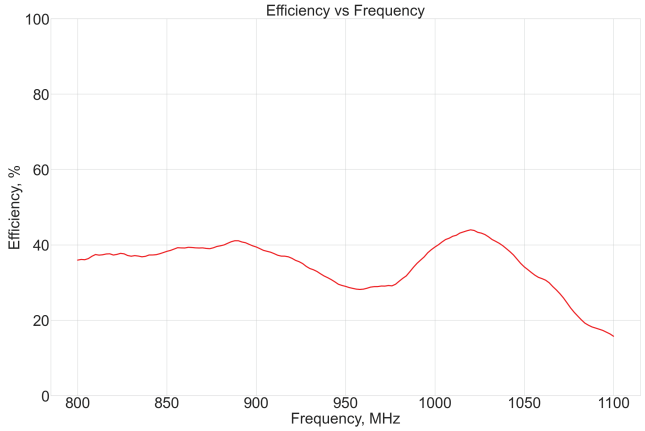
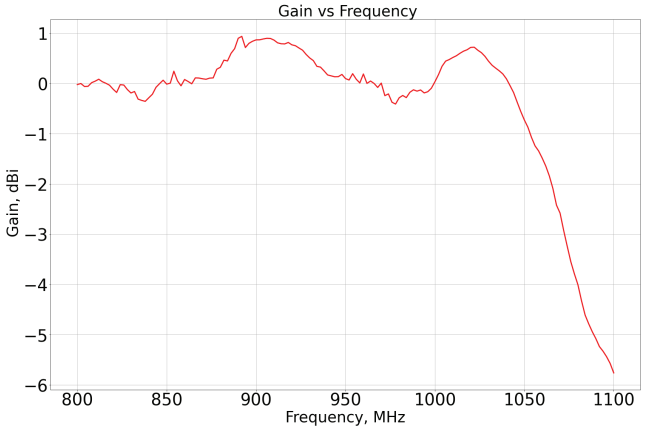
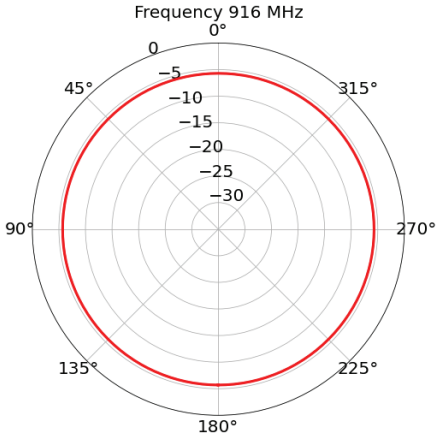
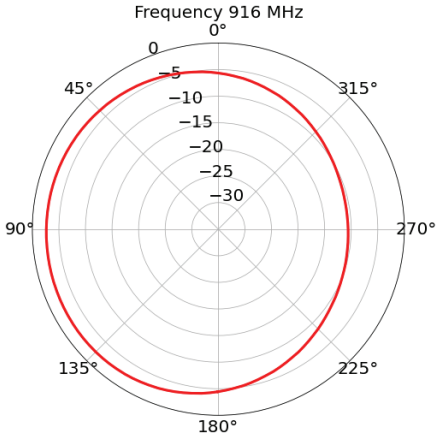


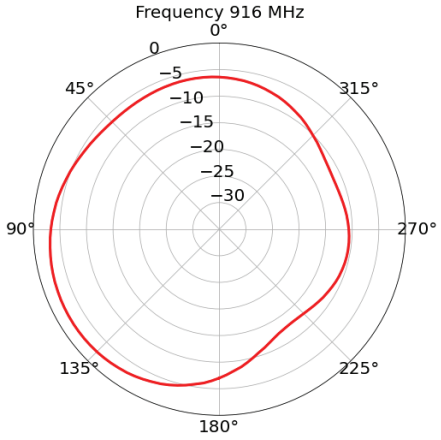



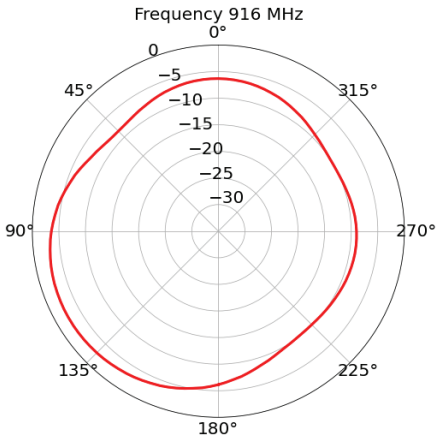

Gain [dBi], Azimuth cut Θ = 0°



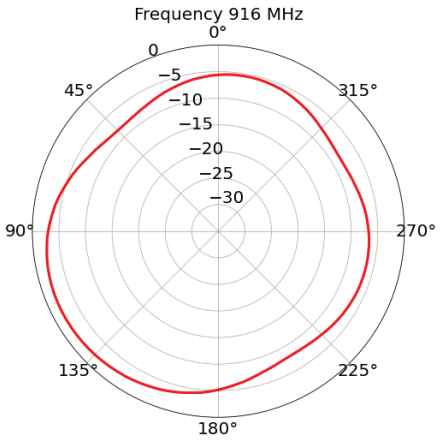

Gain [dBi], Azimuth cut Θ = 30°




Gain [dBi], Azimuth cut Θ = 45°




Gain [dBi], Azimuth cut Θ = 60°




RHCP [dBic], Azimuth cut Θ = 72°

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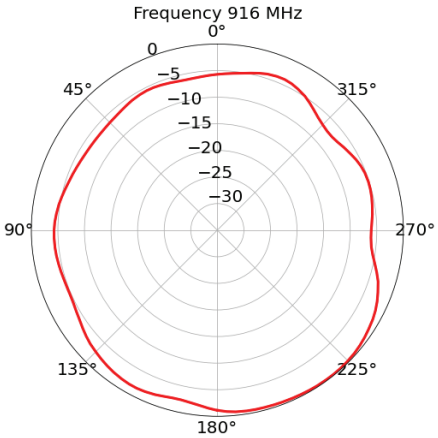
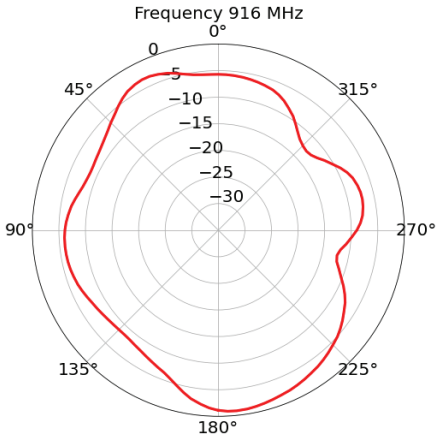
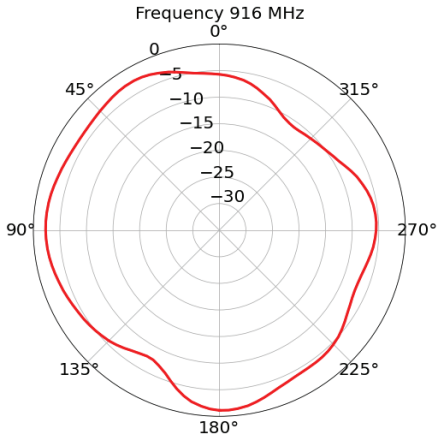


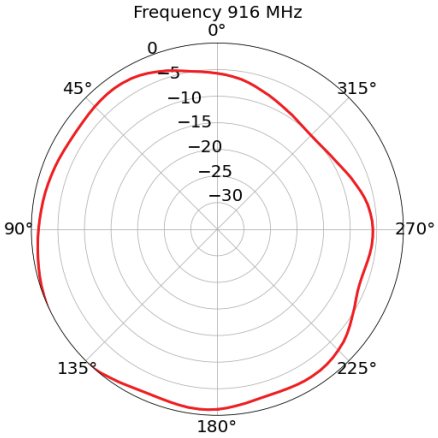
Gain [dBi], Elevation cut Φ = 0°



Gain [dBi], Elevation cut Φ = 45°



Gain [dBi], Elevation cut Φ = 90°



Gain [dBi], Elevation cut Φ = 135°

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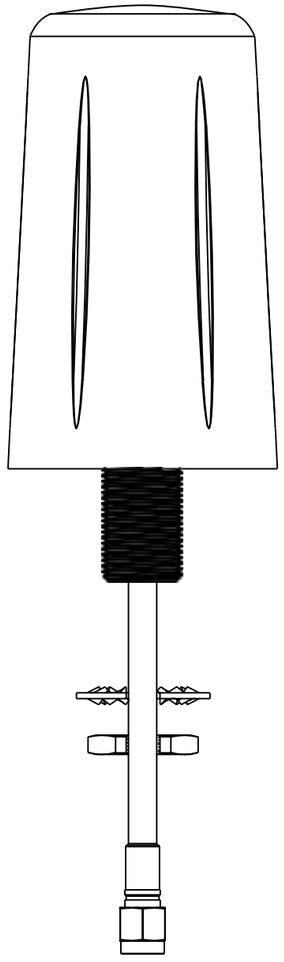

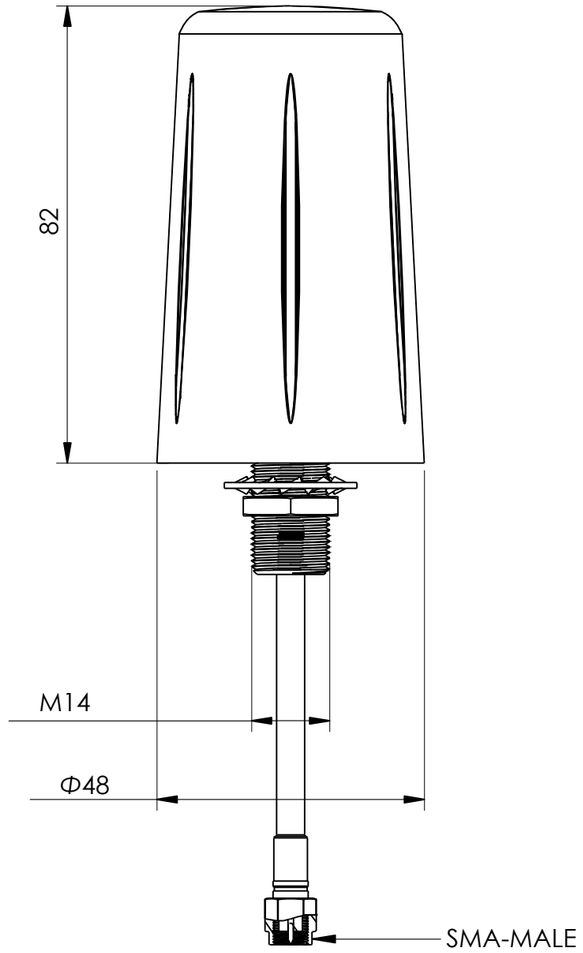


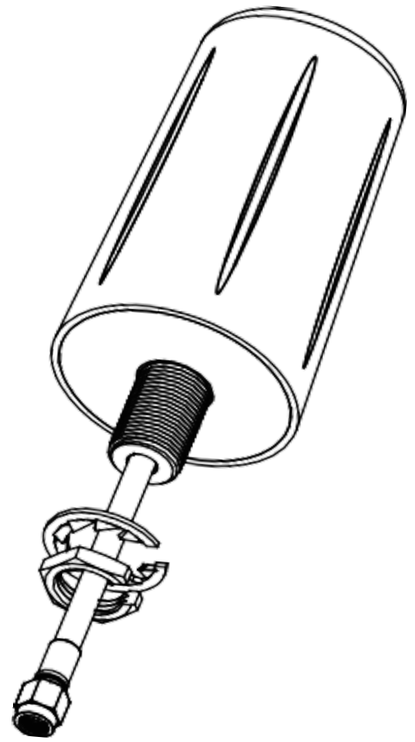

NOTES:
1. FREQUENCY: 902-928MHz
2. GAIN: 3~5dBi
3. V.S.W.R: ≤2.5
4. CONNECTOR: SMA-MALE
5. IMPEDANCE: 50 Ω
6. TEMPERATURE: -40 °C TO +70 °C
7. INPUT POWER: 50W
8. WEIGHT: 160g

| ITEM 100-00156-01 REVISION HISTORY | | | |
|---|---|---|---|
| REV | DESCRIPTION | DATE | BY |
| A | INITIAL RELEASE | 2020-12-11 | QZ |

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