

2J0C15-915-C884G

915 MHz ISM Connector Mount

Key Features

915 MHz ISM

- 902-928 MHz

Connector Mount

Low Profile

Ground Plane Dependent

Dimensions 34 x 19.1 x 9 mm



1. Antenna Description

2J0C15-915-C884G

The High-Efficiency Antenna Optimized for ISM

This 2J0C15-915 connector mount low profile ground plane dependent antenna has been optimized specifically for the ISM frequency bands of 902MHz to 928MHz in the US market.

This antenna was developed for system installations such as industrial, scientific and medical applications. IoT applications can also take advantage of this system as it provides high throughput as it has no restrictions on the type of application or duty cycle. In addition, the power output permitted by the regulations is considerably higher than it is in other portions of the ISM spectrum allowing IoT implementations that can range from home automation, security, industrial control, remote sensing, automatic meter reading, toys, weather stations, among many other consumer applications.

Application Parameters

The 2J0C15-915 915MHz band antenna provides a stable connection through walls and transmission is not disturbed by obstacles such as human bodies (this is the case for WIFI and Bluetooth technologies at 2,4 GHz).

Typical applications

- IoT applications
- Remote Monitoring
- Smart Metering
- Home Automation
- Medical Devices
- M2M automation
- And others

Key Features

- ISM specifically optimized
- 12 variations with straight, right-angle and reversed polarity connectors
- Sustained High Efficiency and Performance
- High Gain
- Compact and Elegant
- Ground Plane Dependent
- Easy Integration
- Different colors available upon request

Installation

For specialized applications, this cable free antenna solution can be retrofitted with a straight or right-angle SMA-Male-R/A standard connector.

2. Antenna and electrical specifications

| Parameters | 915 MHz ISM Antenna |
|----------------------|---------------------------|
| Standards | ZigBee, ISM, SIGFOX, LoRa |
| Band (MHz) | 915 MHz |
| Frequency (MHz) | 902-928 |
| Return Loss (dB) | ~-11.0 |
| VSWR | ~1.8:1 |
| Efficiency (%) | ~66 |
| Peak Gain (dBi) | ~3.3 |
| Average Gain (dB) | ~-1.8 |
| Impedance (Ohm) | 50 |
| Polarisation | Linear |
| Radiation Pattern | Omni-Directional |
| Max. Input Power (W) | 25 |
| Connector Type | SMA-Male-R/A Standard |

Antenna Measurement Conditions:

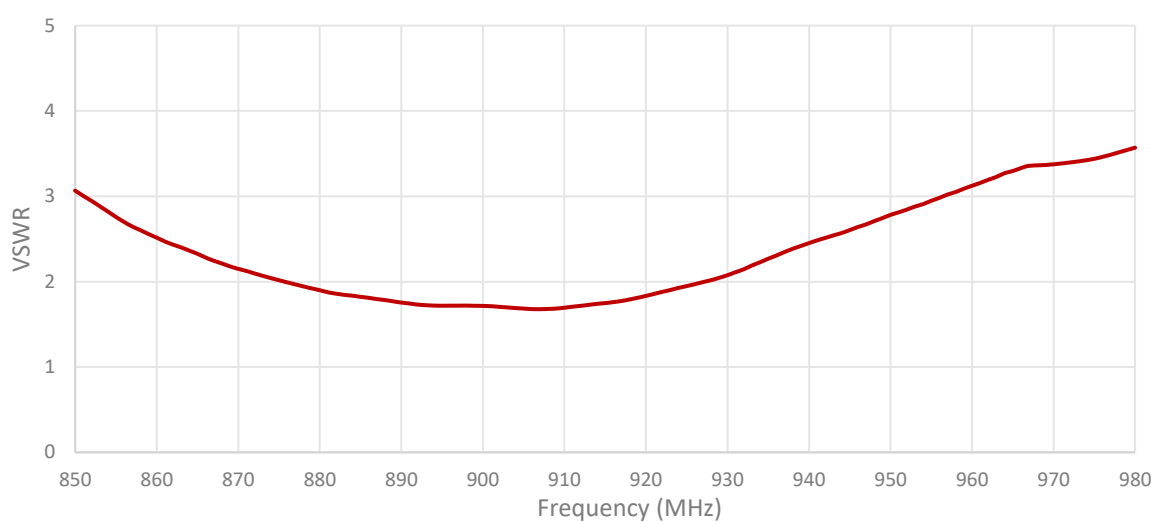
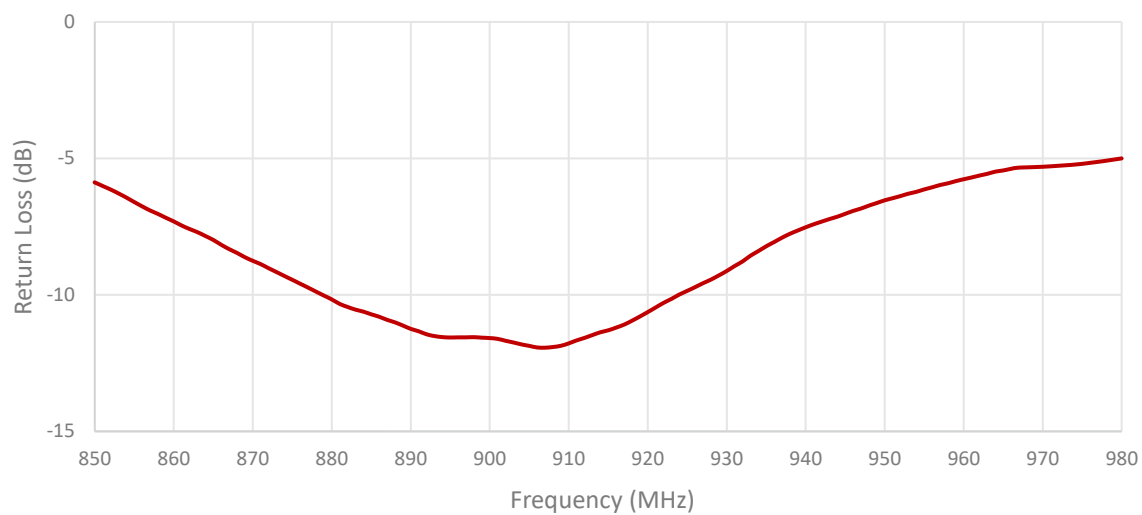
Mounted on Ground Plane of 95x40 mm

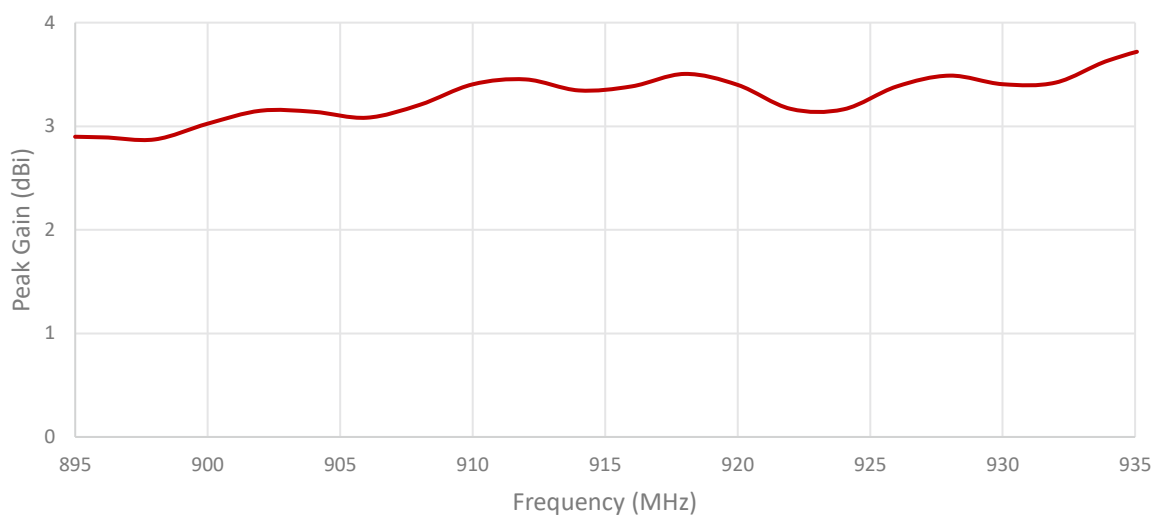
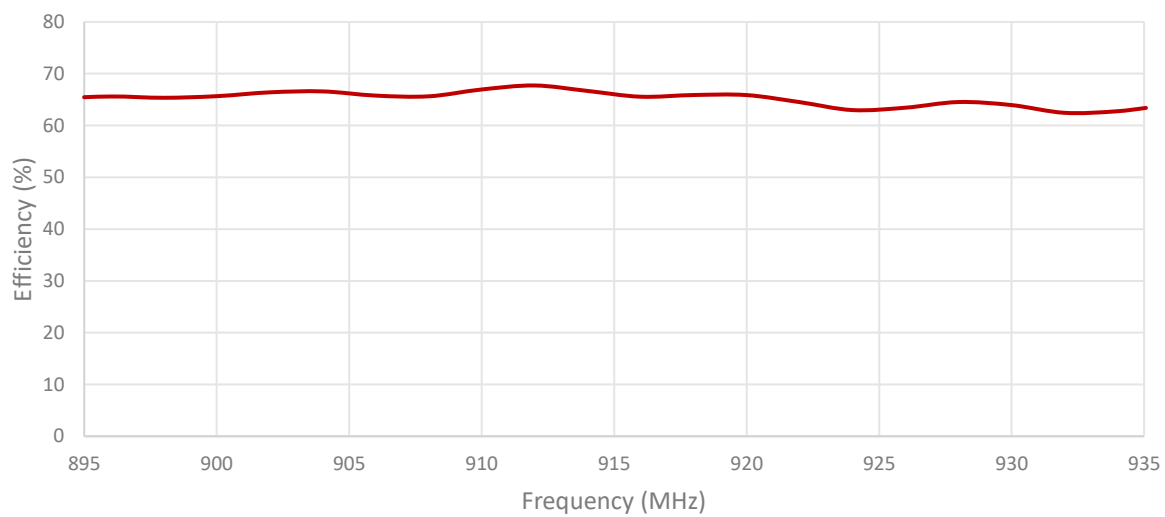
Measured in Certified CTIA 3D Anechoic Chamber

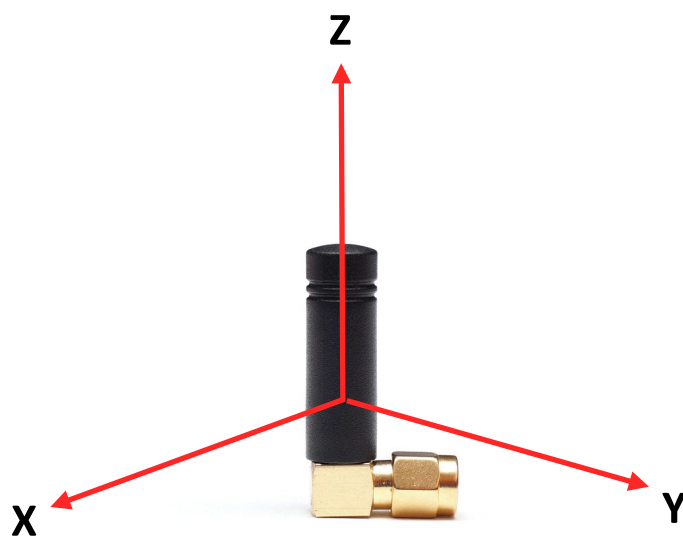
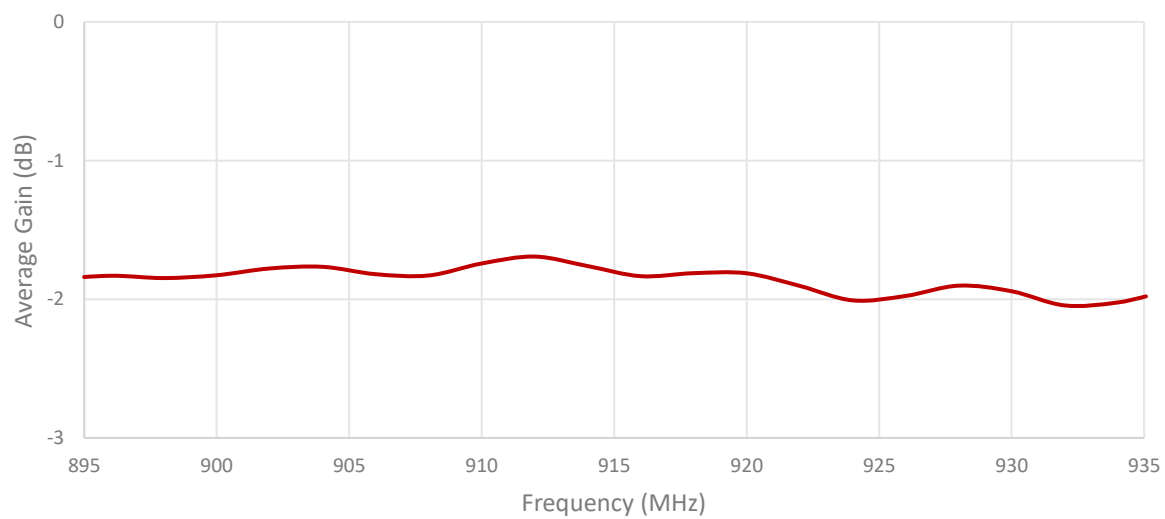
3. Mechanical and environmental specifications

| Specifications | 2J0C15-915-C884G |
|---------------------------|------------------|
| Mounting Type | Connector Mount |
| Dimensions (mm) | 34 x 19.1 x 9 |
| Radome | TPC-ET |
| Radome color | Black |
| Operating Temperature (C) | -40 to +85 |
| Storage Temperature (C) | -40 to +85 |
| Substance Compliance | RoHS |

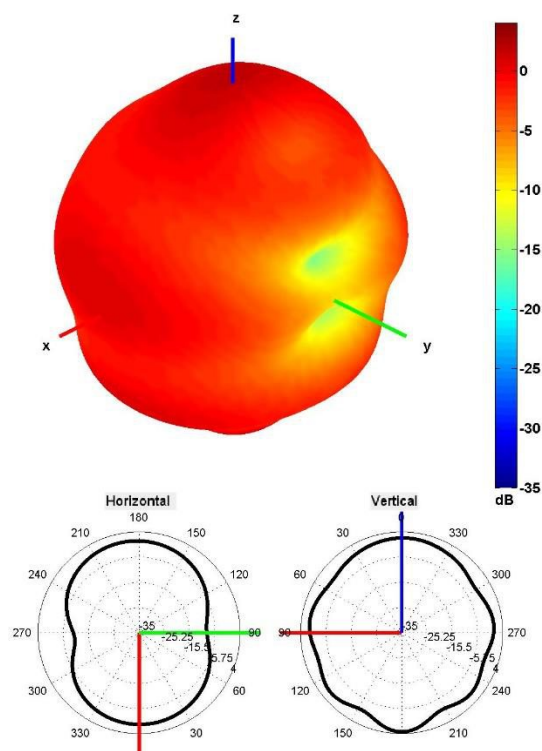
4. Antenna parameters





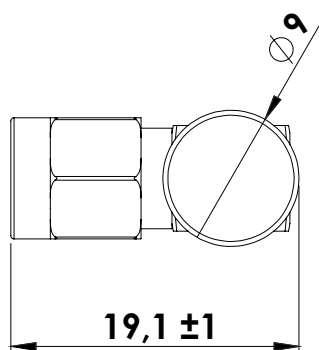
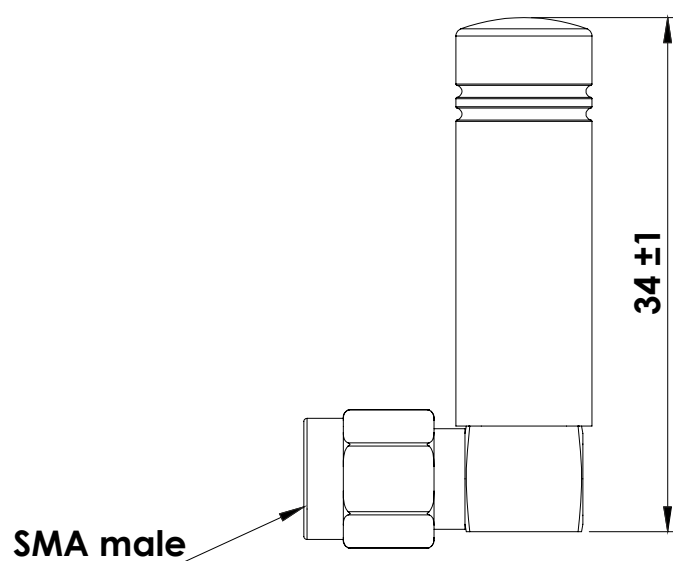


Radiation pattern reference



915 MHz Radiation pattern

5. Antenna drawings



6. Antenna Images

