

## 2J6615B-868

868 MHz ISM Screw Mount

### Key Features

**868 MHz ISM**

- 863-870 MHz

Screw Mount

Low Profile

Ground Plane Dependent

Customized Cable and Connector

Dimensions 77.3 × 15 mm

Certificates: IP67, IP69



## 1. Antenna and electrical specifications

| Parameters                  | 868 MHz ISM Antenna                     |
|-----------------------------|-----------------------------------------|
| <b>Standards</b>            | ZigBee, ISM, SIGFOX, LoRa               |
| <b>Band (MHz)</b>           | 868 MHz                                 |
| <b>Frequency (MHz)</b>      | 863-870                                 |
| <b>Return Loss (dB)</b>     | ~-21.3                                  |
| <b>VSWR</b>                 | ~1.2:1                                  |
| <b>Efficiency (%)</b>       | ~42.1                                   |
| <b>Peak Gain (dBi)</b>      | ~2.0                                    |
| <b>Average Gain (dB)</b>    | ~-3.8                                   |
| <b>Impedance (Ohm)</b>      | 50                                      |
| <b>Polarisation</b>         | Linear                                  |
| <b>Radiation Pattern</b>    | Omni-Directional                        |
| <b>Max. Input Power (W)</b> | 25                                      |
| <b>Connector Type</b>       | Most RF Connectors (SMA-Male Standard)  |
| <b>Cable Length</b>         | Any Cable Length (300cm Standard)       |
| <b>Cable Type</b>           | Other Cables Available (RG174 Standard) |

### Antenna Measurement Conditions:

Mounted on 30x30 cm Metal Plate

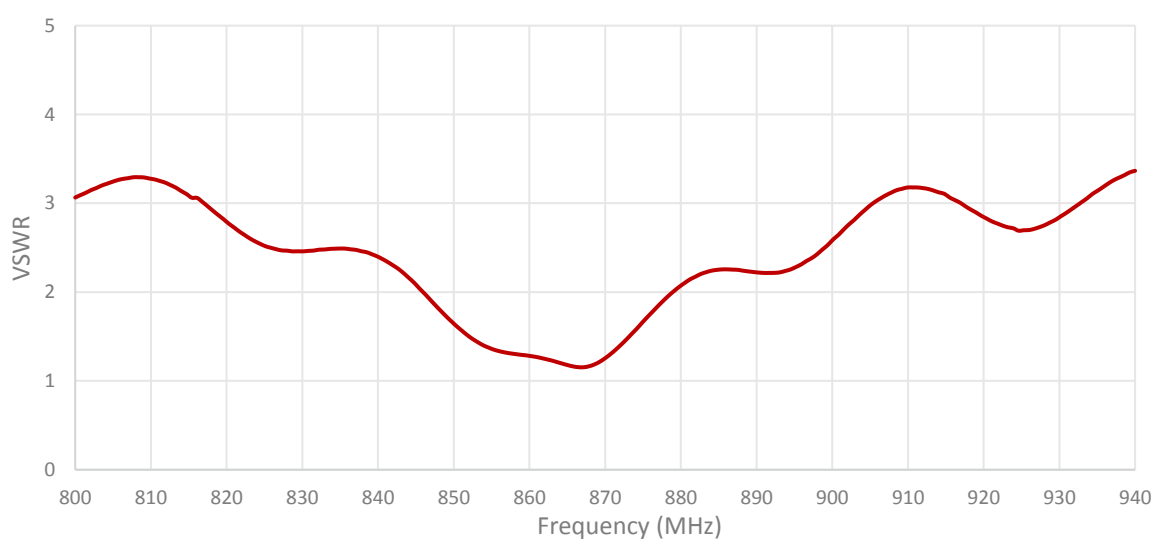
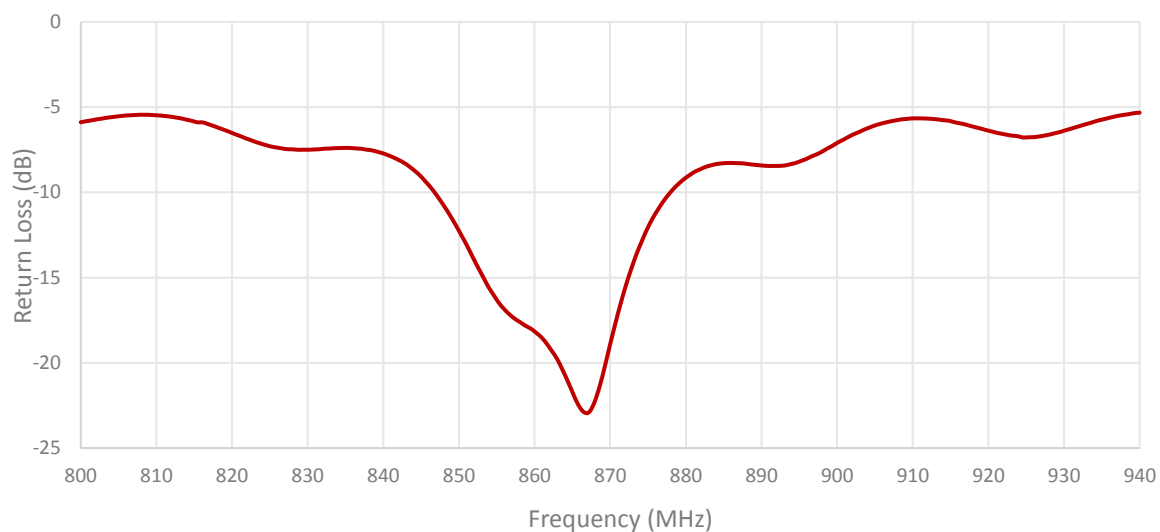
200 cm RG174 Cable

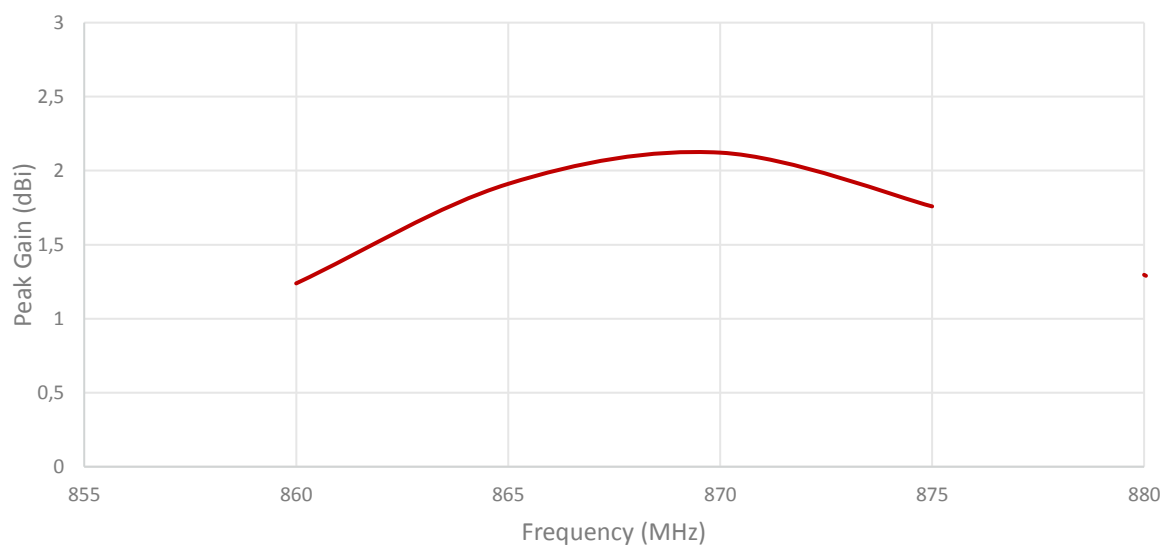
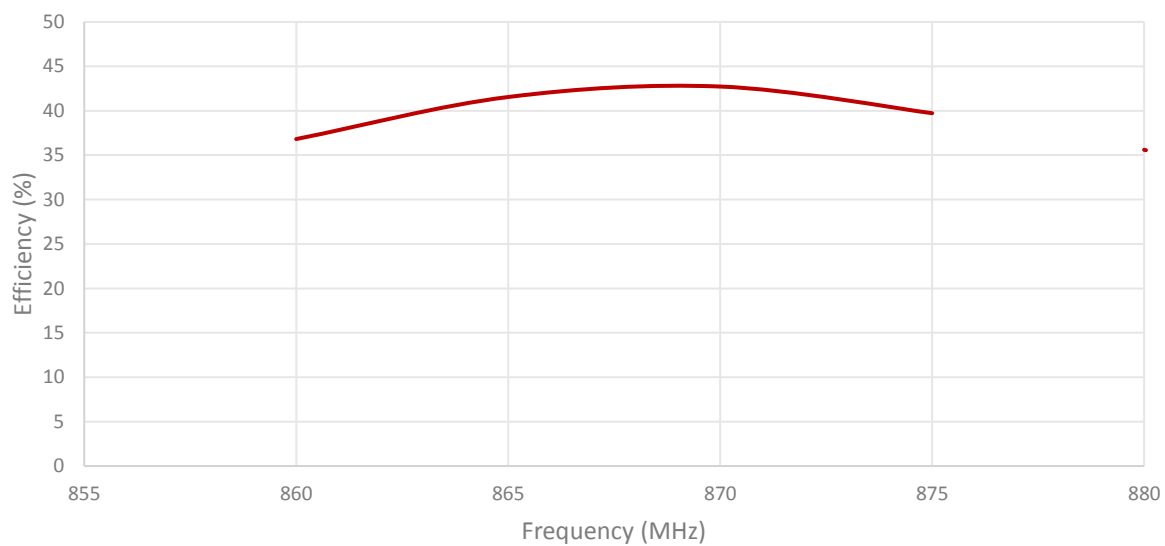
Measured in Certified CTIA 3D Anechoic Chamber

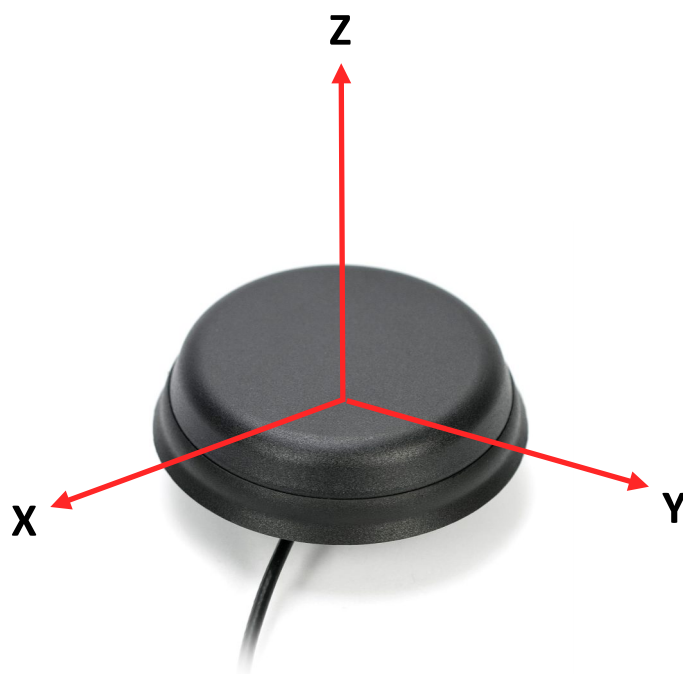
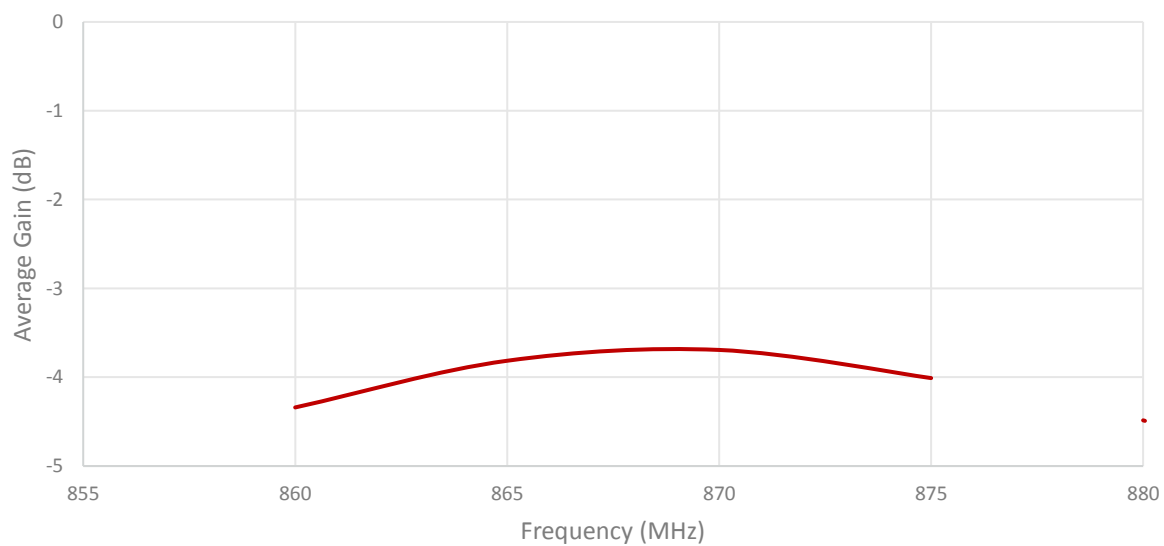
## 2. Mechanical and environmental specifications

| Specifications                   | 2J6615B-868 |
|----------------------------------|-------------|
| <b>Mounting Type</b>             | Screw Mount |
| <b>Dimensions (mm)</b>           | 77.3 x 15   |
| <b>Max. Tighten Torque (Nm)</b>  | 6 Nm        |
| <b>Radome</b>                    | ASA         |
| <b>Radome color</b>              | Black       |
| <b>Antenna Base</b>              | Zamak       |
| <b>Gasket</b>                    | TPE         |
| <b>Operating Temperature (C)</b> | -40 to +85  |
| <b>Storage Temperature (C)</b>   | -40 to +85  |
| <b>Substance Compliance</b>      | RoHS        |
| <b>Certificates</b>              | IP67, IP69K |

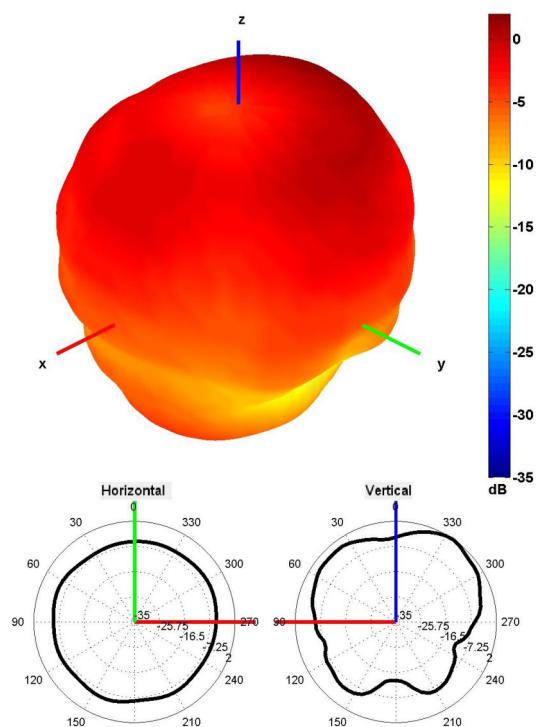
### 3. Antenna parameters





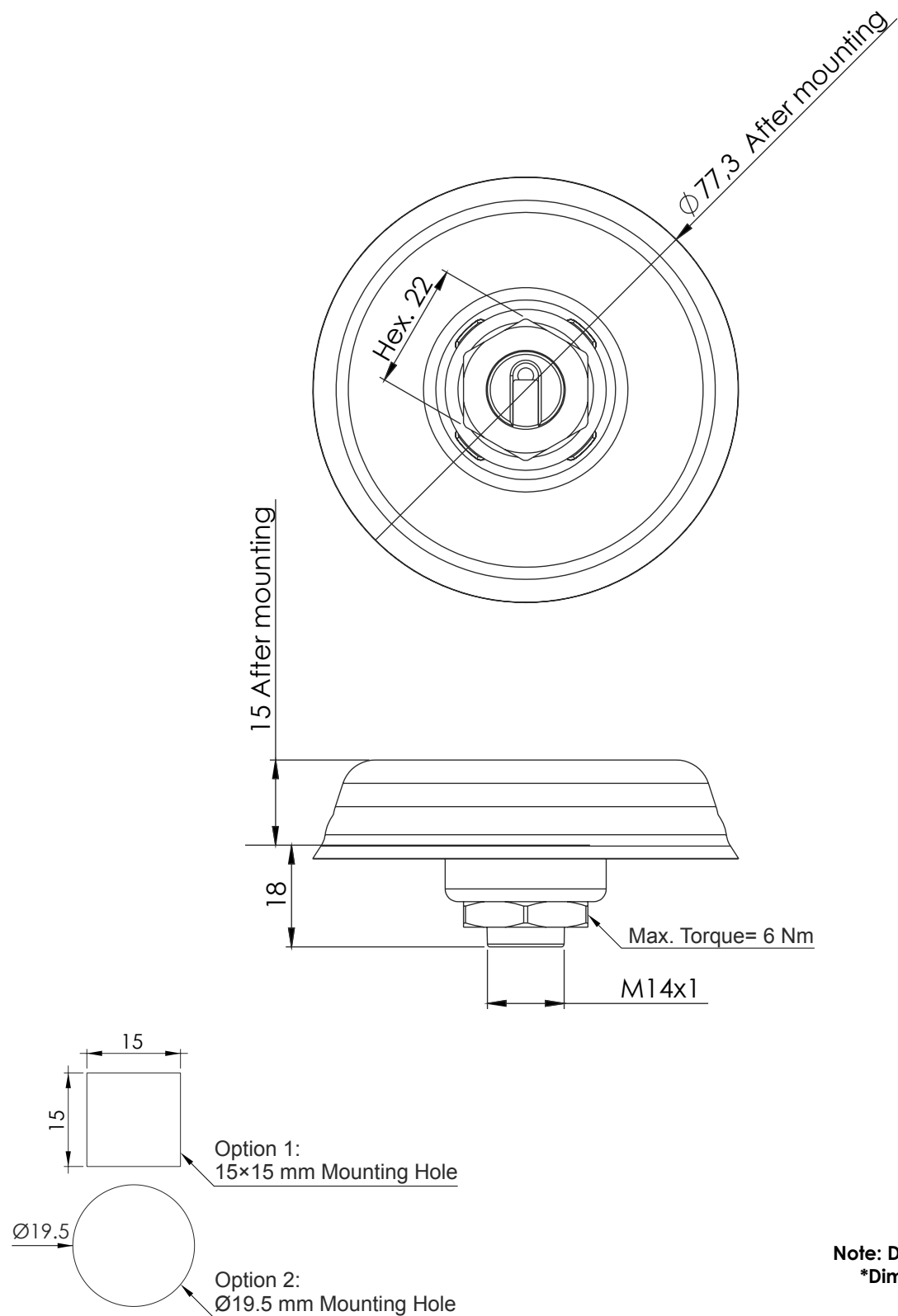


Radiation pattern reference



868 MHz Radiation pattern

## 4. Antenna drawings



**Note:** Dimensions are in millimeters  
 \*Dimensions are after mounting  
 \*\*Max. Torque= 6 Nm

## 5. Antenna Images

