

## AMC-ANT-2J1015B-868

### 868MHz ISM screw mount antenna

#### Features

- 868MHz ISM
  - 863 - 870MHz
- Screw mount
- Low profile
- Ground plane dependent
- Dimensions: 50 x Ø 16mm
- Customisable cable and connector



## 1. Antenna and electrical specifications

|                             |  |
|-----------------------------|--|
| <b>Parameters</b>           | 868MHz ISM antenna                             |
| <b>Standards</b>            | LoRa, Sigfox, ZigBee, ISM                      |
| <b>Band (MHz)</b>           | 868  |
| <b>Frequency (MHz)</b>      | 863 - 870                                      |
| <b>Return Loss (dB)</b>     | ~-14.8   |
| <b>VSWR</b>                 | ~1.4:1   |
| <b>Efficiency (%)</b>       | ~37  |
| <b>Peak Gain (dBi)</b>      | ~-0.3  |
| <b>Average Gain (dB)</b>    | ~-4.7  |
| <b>Impedance (Ohms)</b>     | 50   |
| <b>Polarisation</b>         | Linear   |
| <b>Radiation Pattern</b>    | Omni-directional                               |
| <b>Max. Input Power (W)</b> | 25   |
| <b>Connector Type</b>       | SMA male standard (other connectors available) |
| <b>Cable Length</b>         | 300cm standard (other lengths available)       |
| <b>Cable Type</b>           | RG174 standard (other cables available)        |

### Antenna measurement conditions:

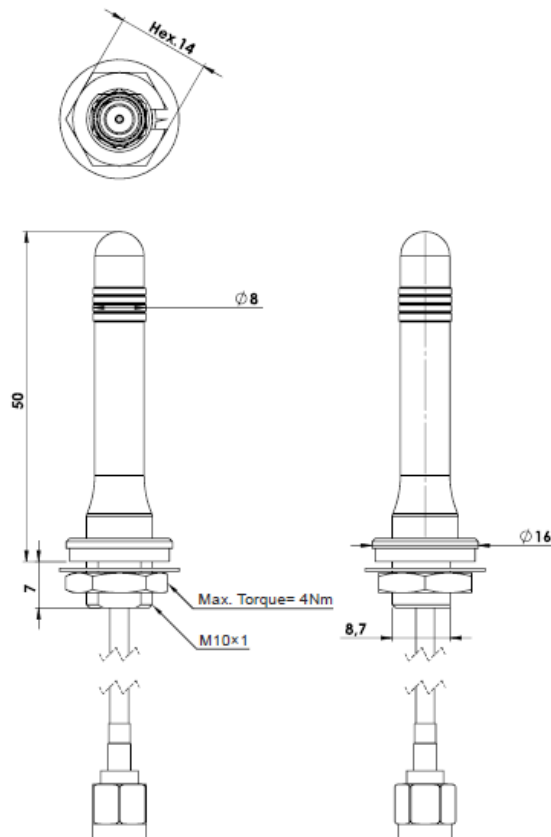
- Mounted on 30 x 30cm ground plane
- 100cm RG174 cable
- Measured in certified CTIA 3D anechoic chamber



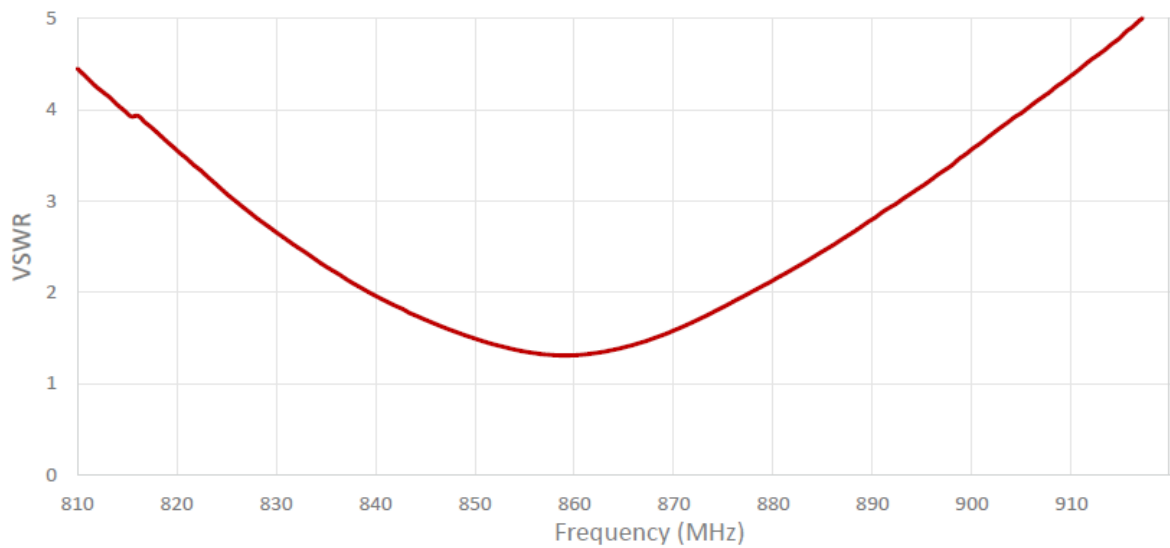
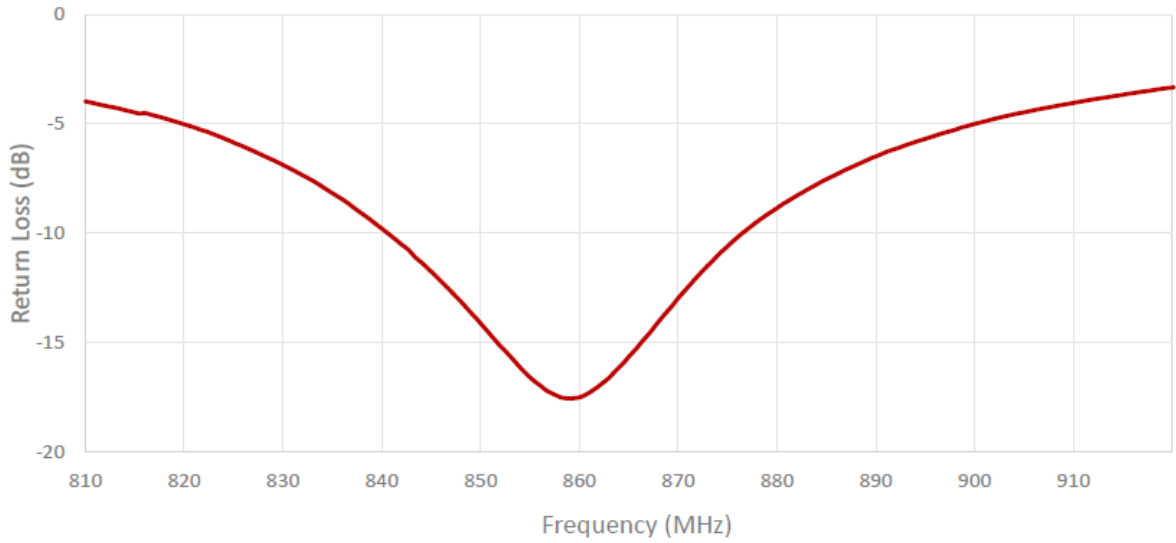
## 2. Mechanical and environmental specifications

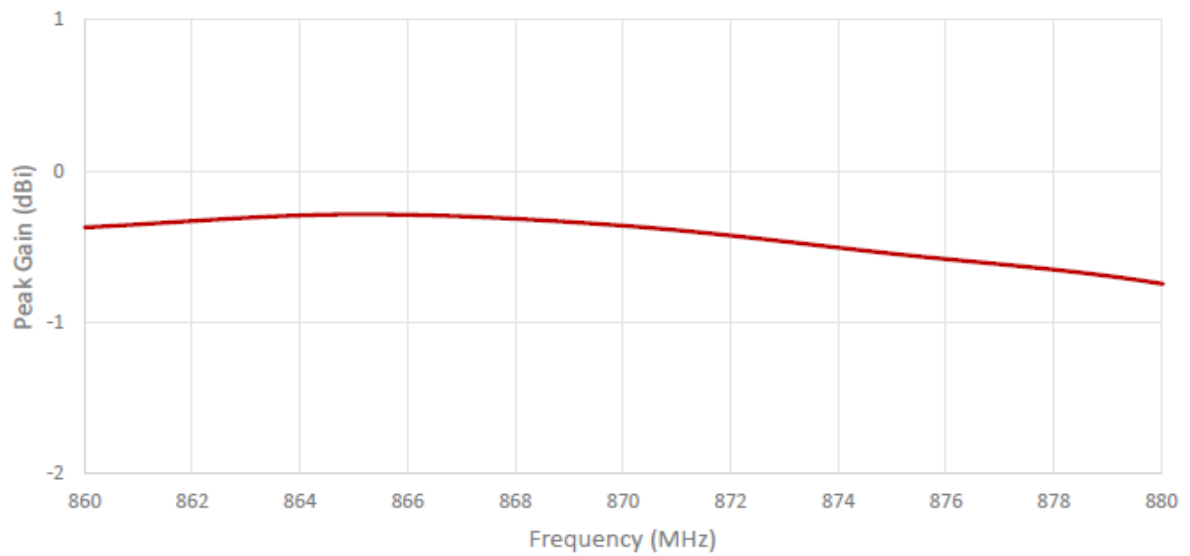
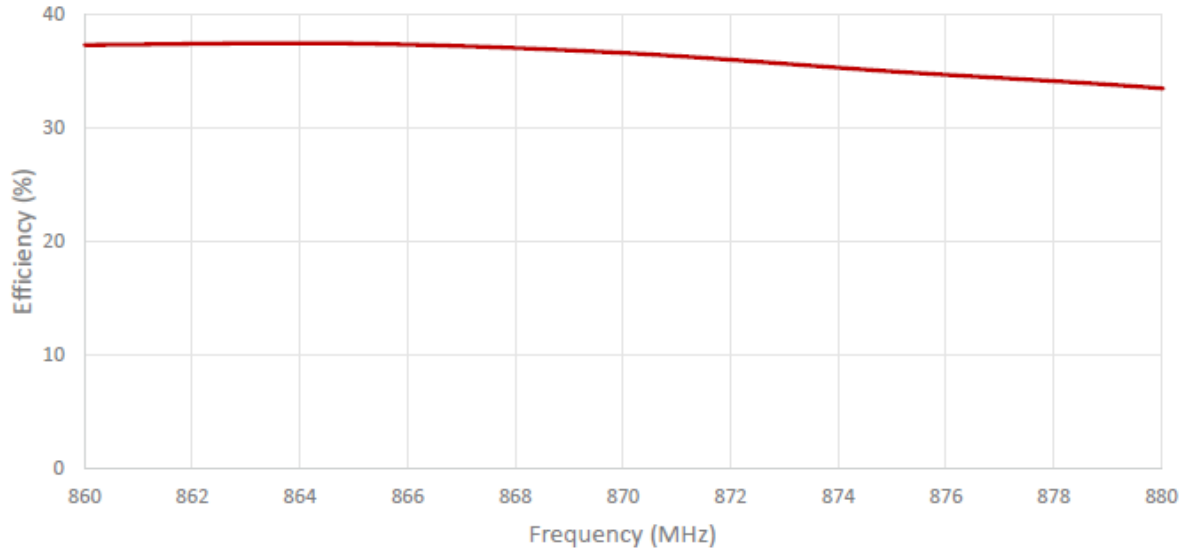
|                                   |               |
|-----------------------------------|---------------|
| <b>Mounting Type</b>              | Screw mount   |
| <b>Max. Tighten Torque (Nm)</b>   | 4             |
| <b>Dimensions (mm)</b>            | 50 x Ø 16     |
| <b>Radome</b>                     | ABS UV Stable |
| <b>Radome Colour</b>              | Black         |
| <b>Operating Temperature (°C)</b> | -40 to +85    |
| <b>Storage Temperature (°C)</b>   | -40 to +85    |
| <b>Substance Compliance</b>       | RoHS          |

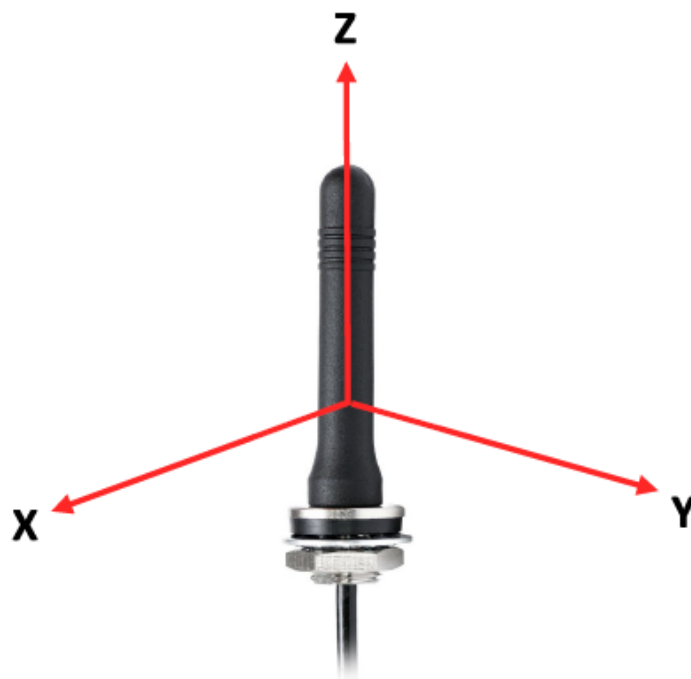
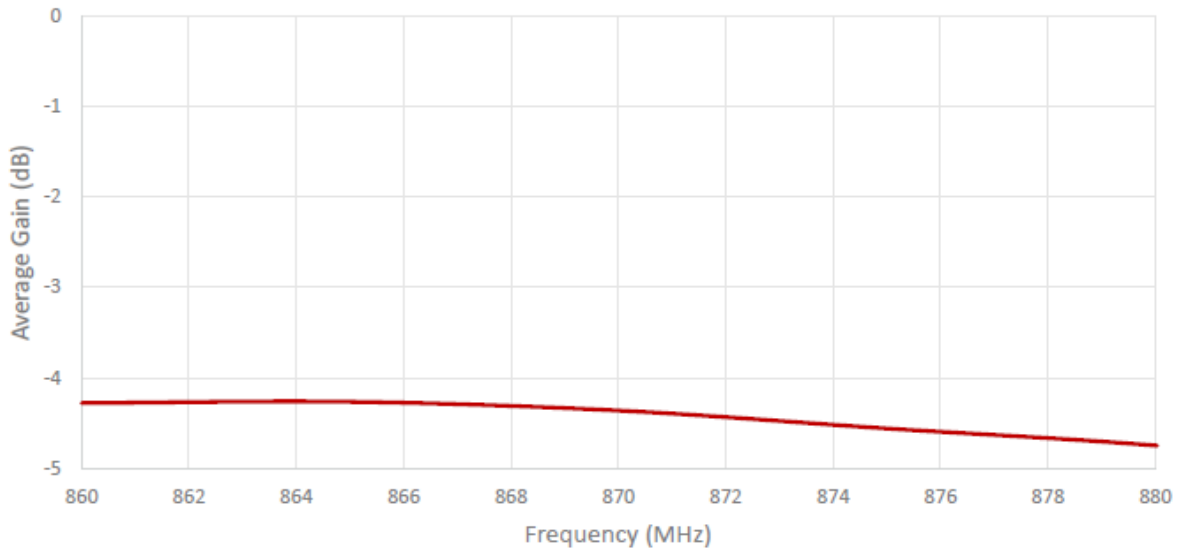
## 3. Antenna drawings



#### 4. Antenna parameters

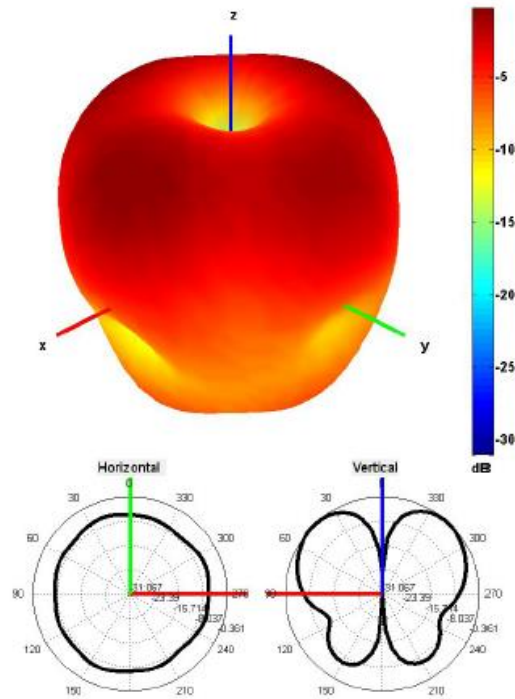






Radiation pattern reference





868 MHz Radiation pattern

