

## 2J7615B-868

868 MHz ISM Screw Mount

### Key Features

**868 MHz ISM**

- 863-870 MHz

Screw Mount

Anti-Rotation Mechanism

Ground Plane Independent

Customizable Cable and Connector

Dimensions: Ø 50 x 50.8 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>	~-10.4
<b>VSWR</b>	~1.9:1
<b>Efficiency (%)</b>	~32.7
<b>Peak Gain (dBi)</b>	~-0.8
<b>Average Gain (dB)</b>	~-4.9
<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>	SMA-Male Standard (Other Connectors Available)
<b>Cable Length</b>	300 cm Standard (Any Cable Length Available)
<b>Cable Type</b>	DACAR100 Standard (Other Cables Available)

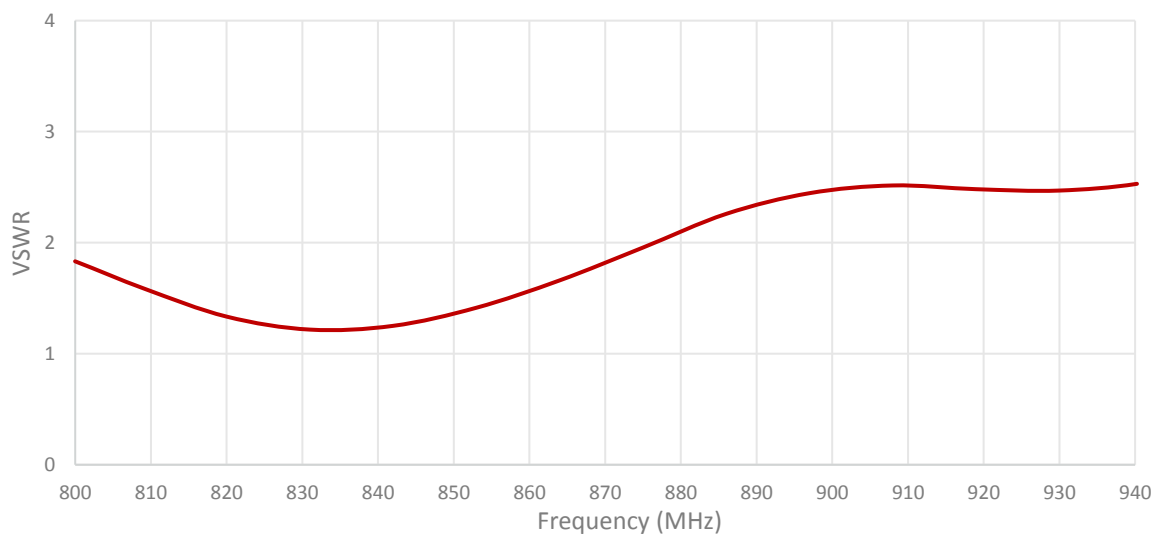
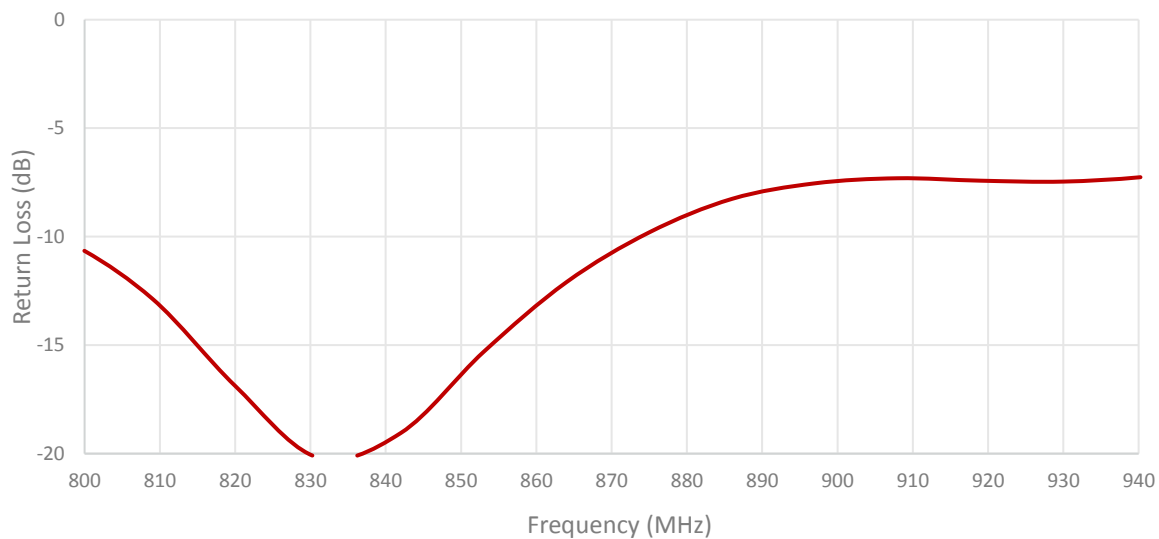
### Antenna Measurement Conditions:

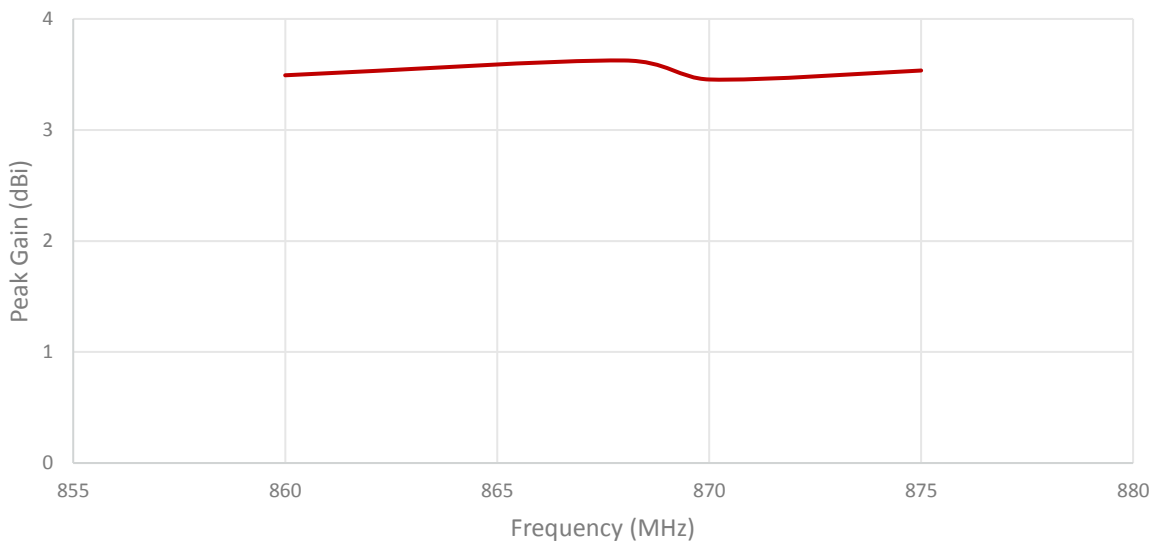
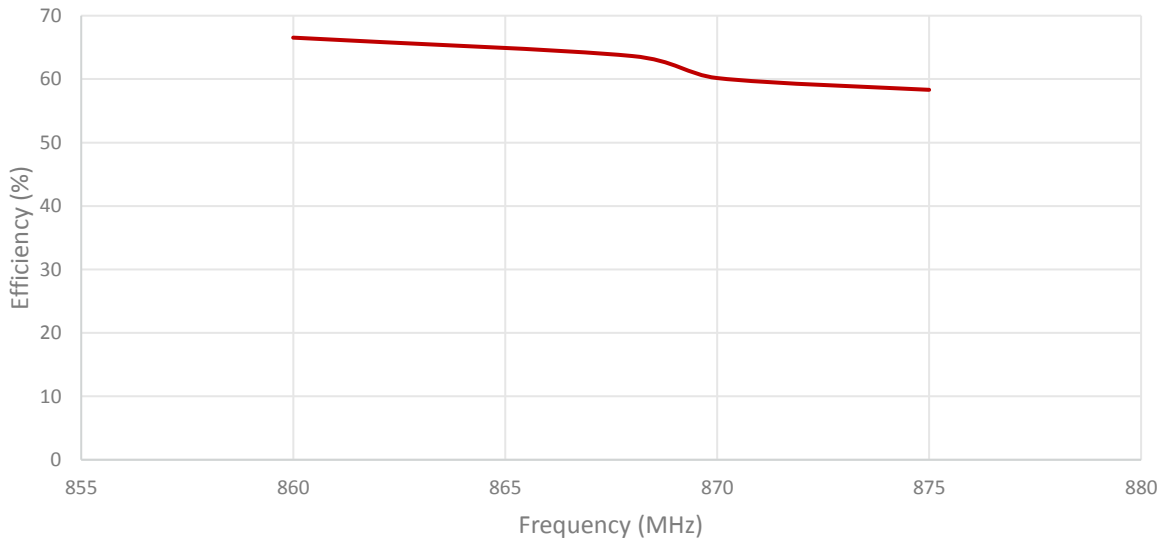
Mounted on 30 x 30 cm Ground Plane  
 DACAR100 100 cm Cable Length  
 Measured in Certified CTIA 3D Anechoic Chamber

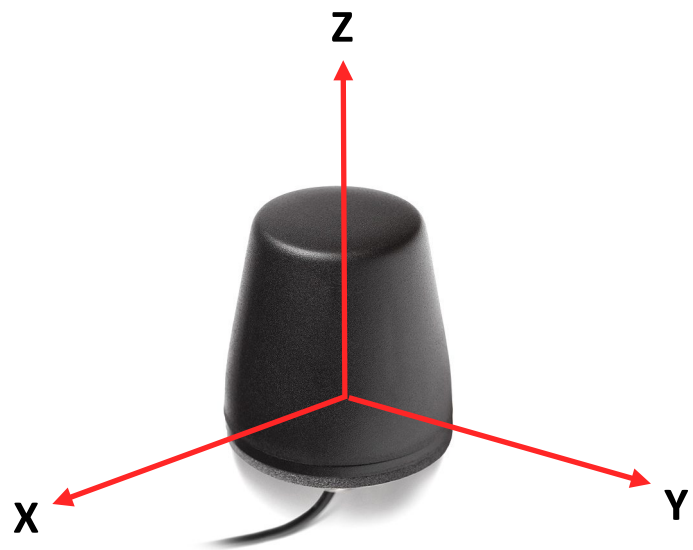
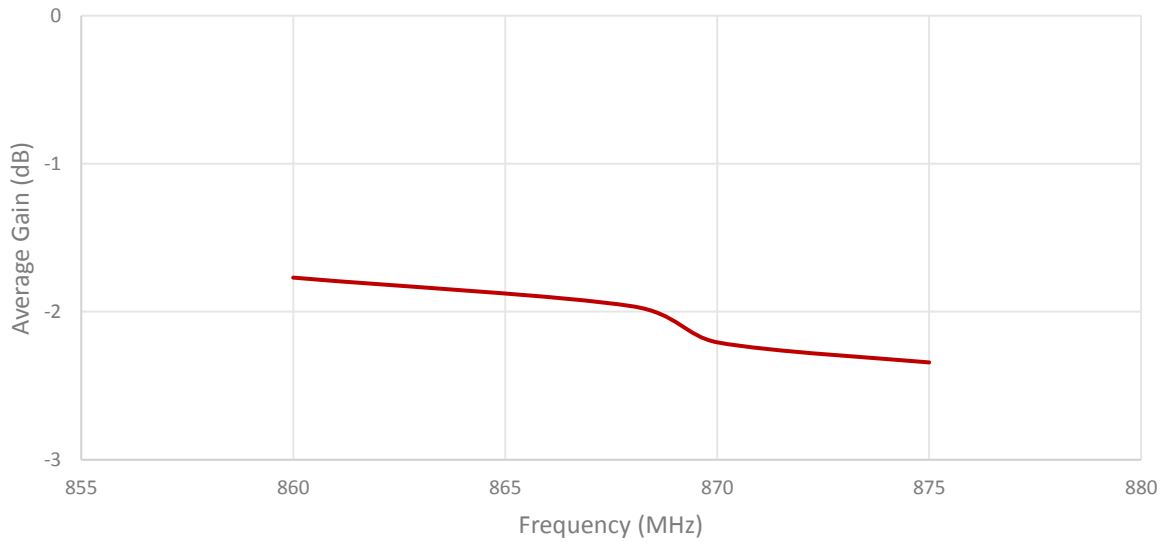
## 2. Mechanical and environmental specifications

Specifications	2J7615B-868
<b>Mounting Type</b>	Screw Mount
<b>Dimensions (mm)</b>	Ø 50 x 50.8
<b>Max. Tighten Torque (Nm)</b>	3 Nm
<b>Radome Type</b>	ASA
<b>Radome Color</b>	Black
<b>Antenna Base</b>	Zamak
<b>Gasket</b>	Double Sided Foam
<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, IP69

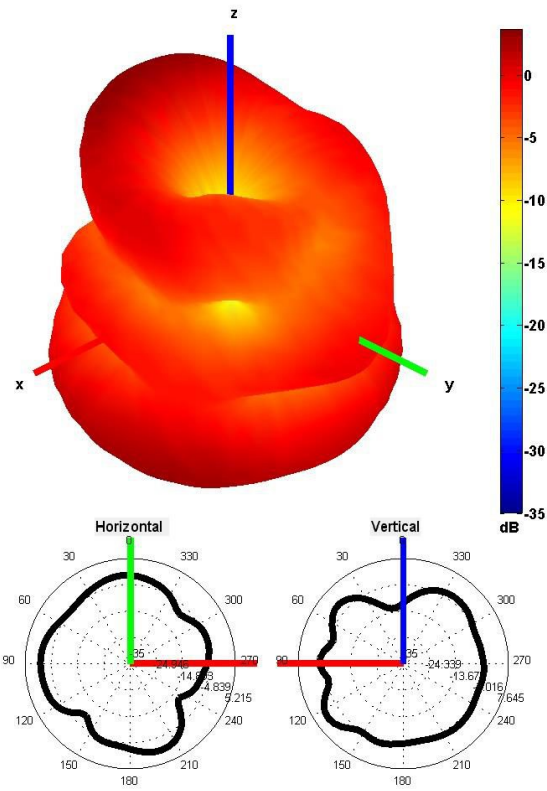
### 3. Antenna parameters





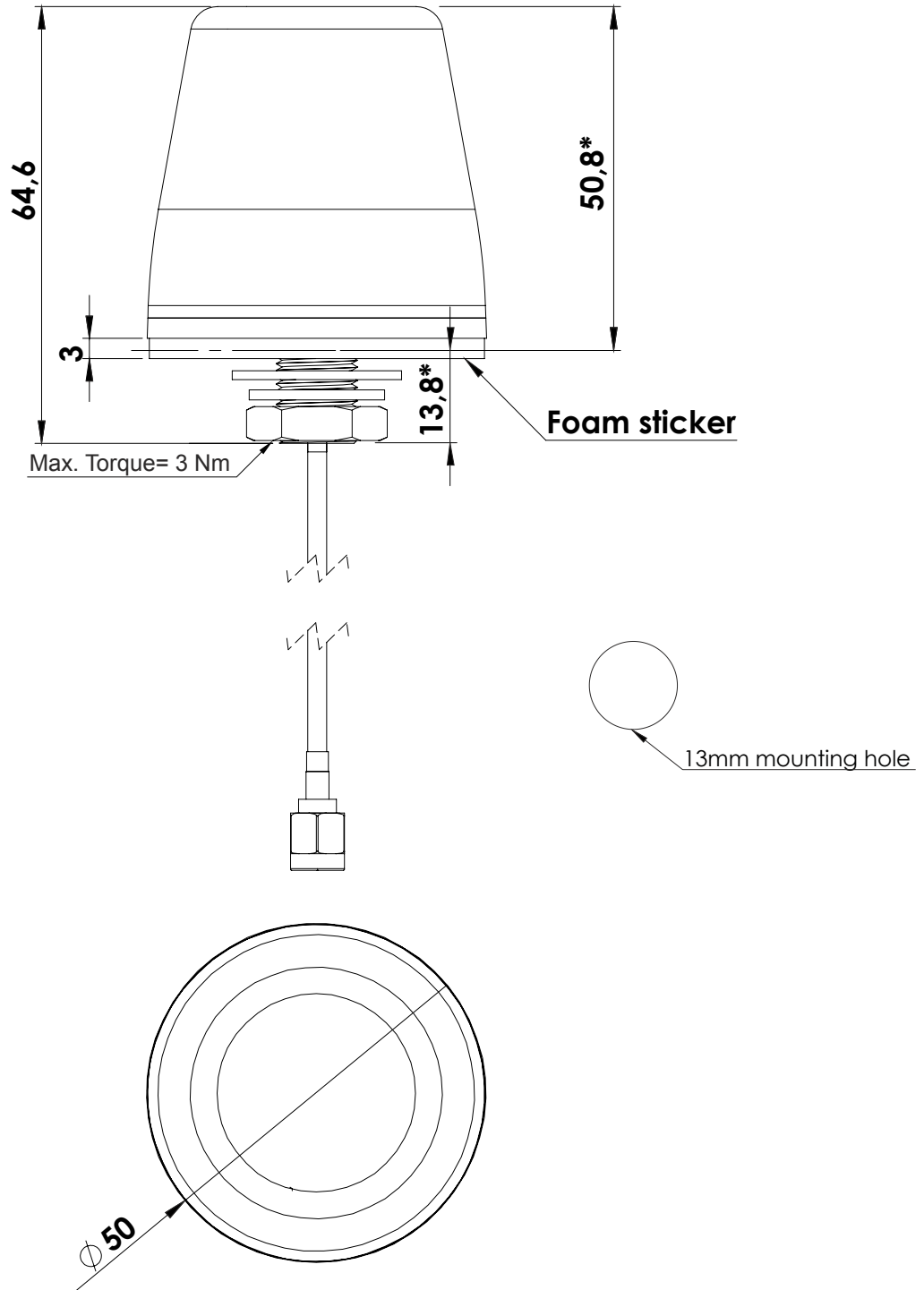


Radiation pattern reference



868 MHz Radiation pattern

## 4. Antenna drawings



Note: Dimensions are in millimeters  
\*Dimensions are after mounting  
\*\*Max. Torque= 3 Nm

## 5. Antenna Images

