

# 2J6915Ba

2× 868/915 MHz ISM MIMO Screw Mount

## Key Features

### Cable 1 - 2: 868/915 MHz ISM

- 863-870 MHz

- 902-928 MHz

Screw Mount

Anti-Rotation Mechanism

Low Profile

Ground Plane Independent

Customizable Cable and Connector

Dimensions 80 × 74 × 25.6 mm

Certificates: IP67, IP69



## 1. Antenna and electrical specifications

**Cable 1**

Parameters	868/915 MHz ISM Antenna	
<b>Standards</b>	ZigBee, ISM, SigFox, LoRa	
<b>Band (MHz)</b>	868	915
<b>Frequency (MHz)</b>	863-870	902-928
<b>Return Loss (dB)</b>	~-27.1	~-10.0
<b>VSWR</b>	~1.2:1	~1.9:1
<b>Efficiency (%)</b>	~45.4	~40.8
<b>Peak Gain (dBi)</b>	~-3.8	~-2.4
<b>Average Gain (dB)</b>	~-3.4	~-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>	SMA-Male Standard (Other Connectors Available)	
<b>Cable Length</b>	300 cm Standard (Any Cable Length Available)	
<b>Cable Type</b>	D302 Standard (Other Cables Available)	

**Cable 2**

Parameters	868/915 MHz ISM Antenna	
<b>Standards</b>	ZigBee, ISM, SigFox, LoRa	
<b>Band (MHz)</b>	868	915
<b>Frequency (MHz)</b>	863-870	902-928
<b>Return Loss (dB)</b>	~-14.6	~-13.5
<b>VSWR</b>	~1.4:1	~1.5:1
<b>Efficiency (%)</b>	~49.9	~45.6
<b>Peak Gain (dBi)</b>	~-5.0	~-4.0
<b>Average Gain (dB)</b>	~-3.0	~-3.4
<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>	D302 Standard (Other Cables Available)	

**Antenna Measurement Conditions:**

Mounted on Metal Plate of 30 x 30 cm

200 cm of Cable D302

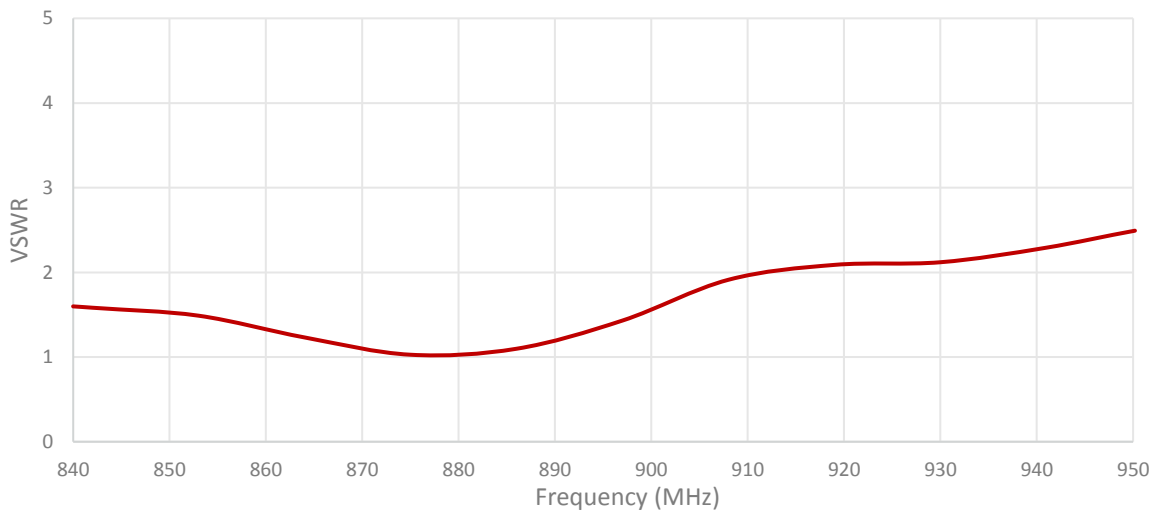
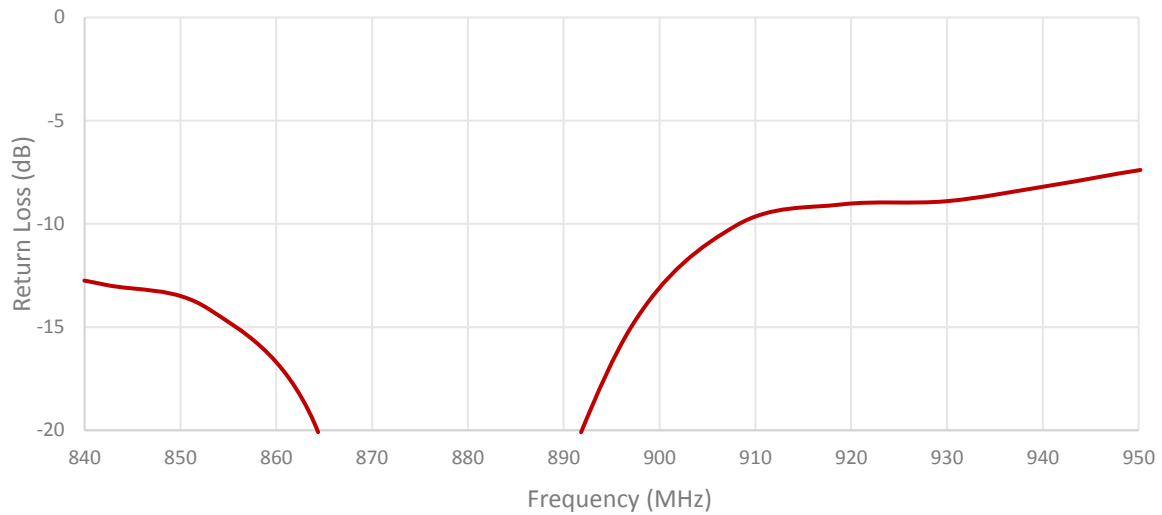
Measured in Certified CTIA 3D Anechoic Chamber

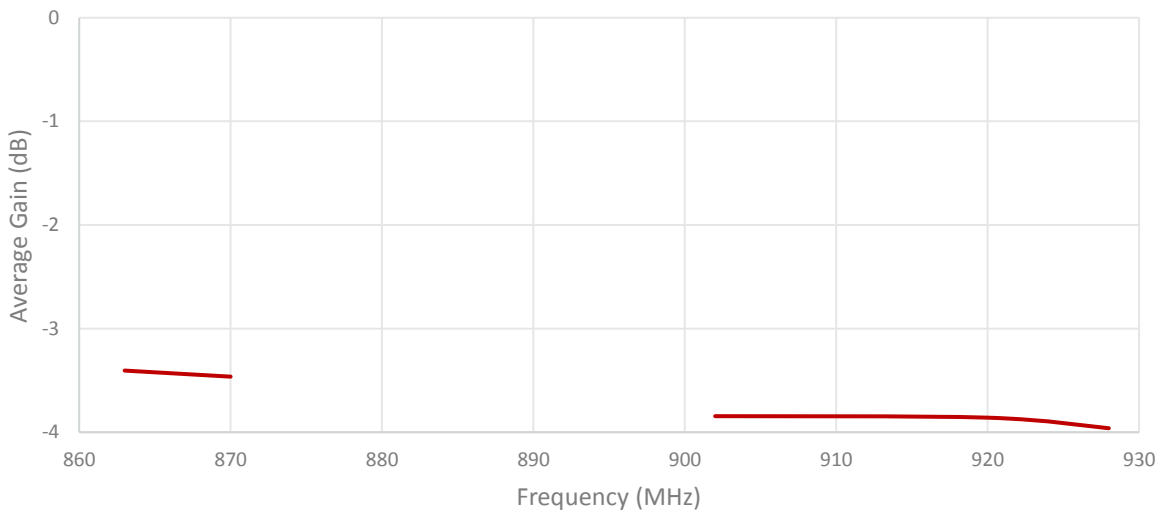
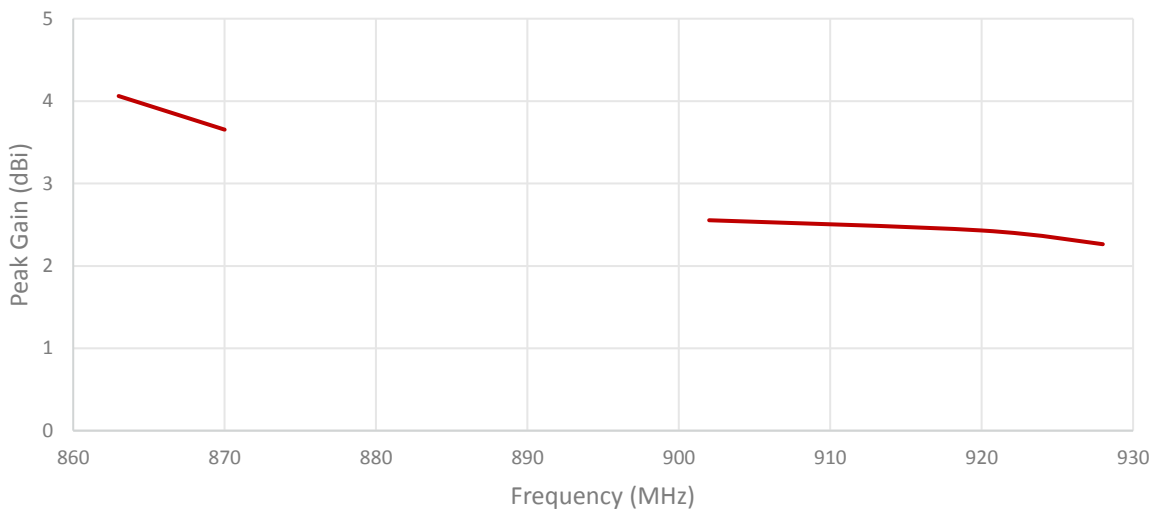
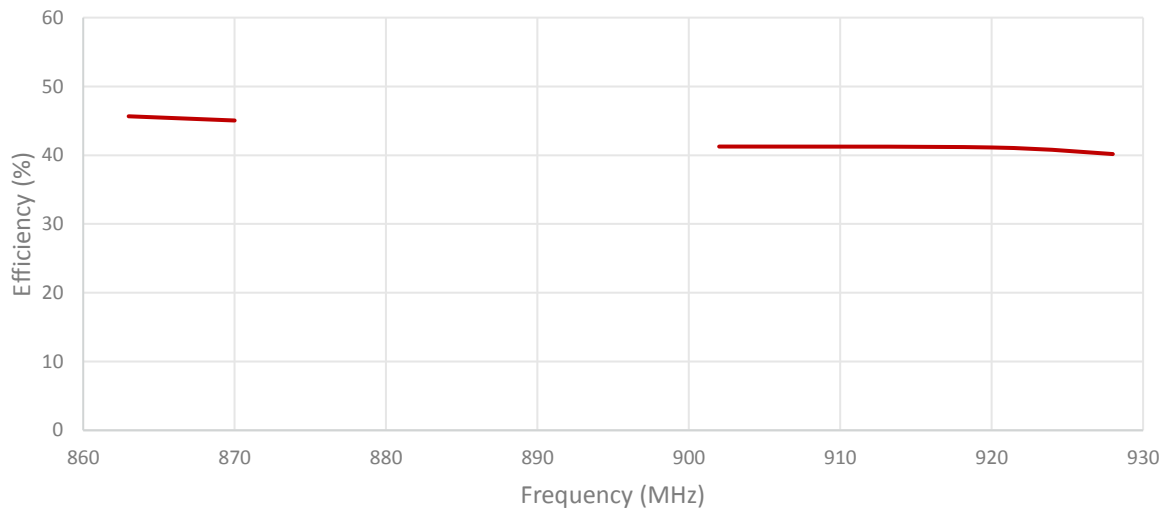
## 2. Mechanical and environmental specifications

Specifications	2J6915Ba
<b>Mounting Type</b>	Screw Mount
<b>Dimensions (mm)</b>	80 × 74 × 25.6
<b>Max. Tighten Torque (Nm)</b>	5 Nm
<b>Radome Type</b>	ASA
<b>Radome Color</b>	Black, White
<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

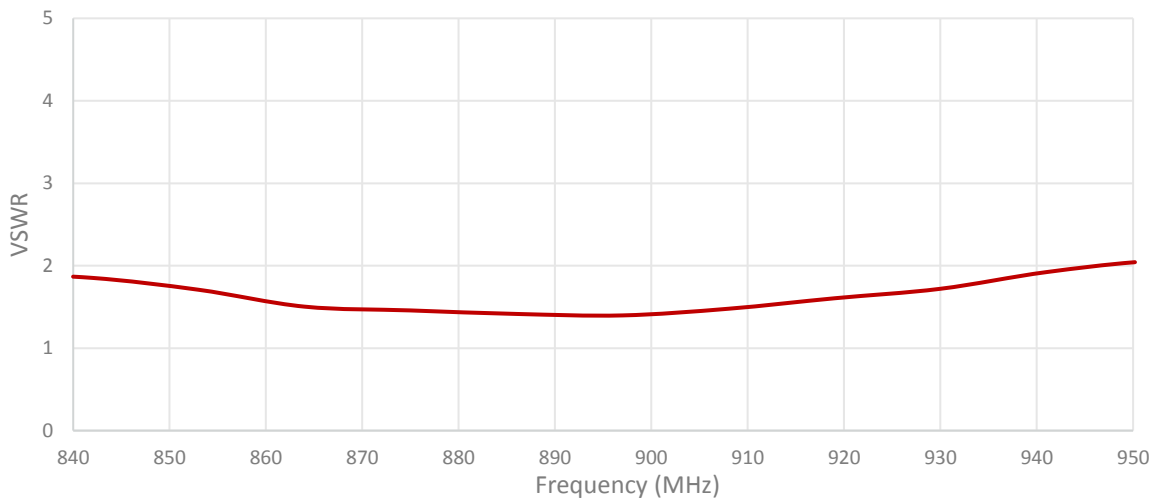
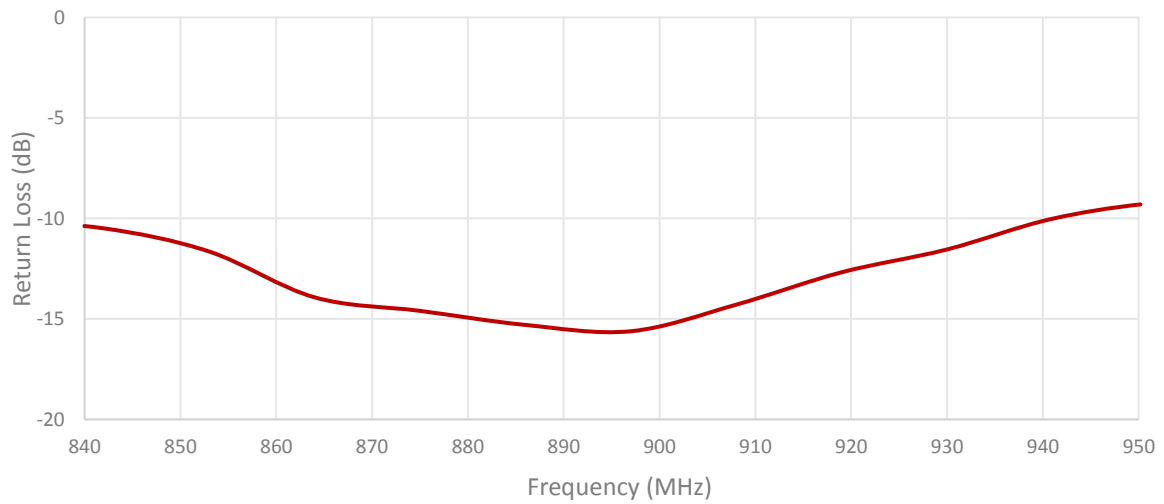
## 3. Antenna parameters

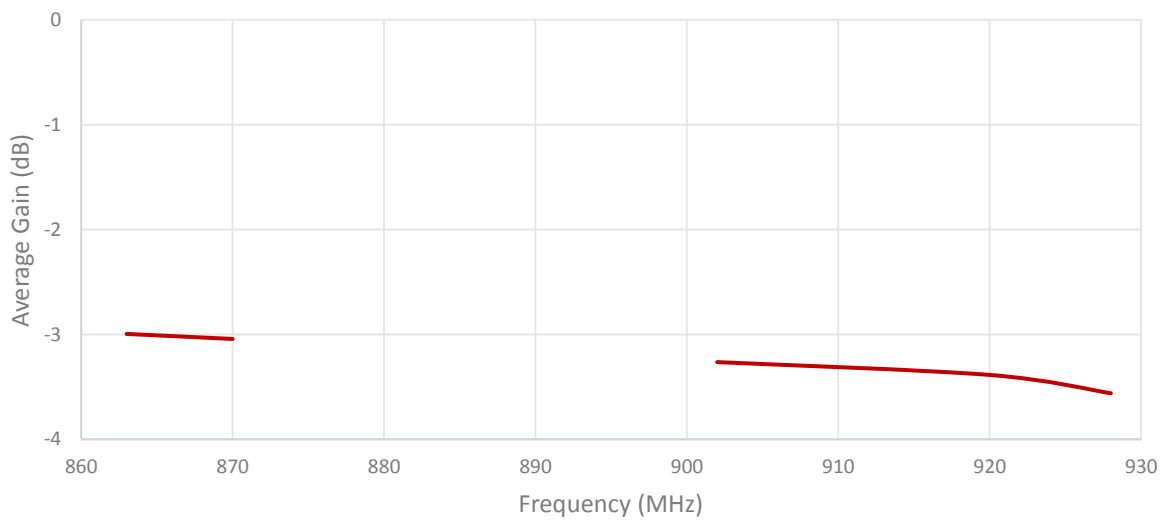
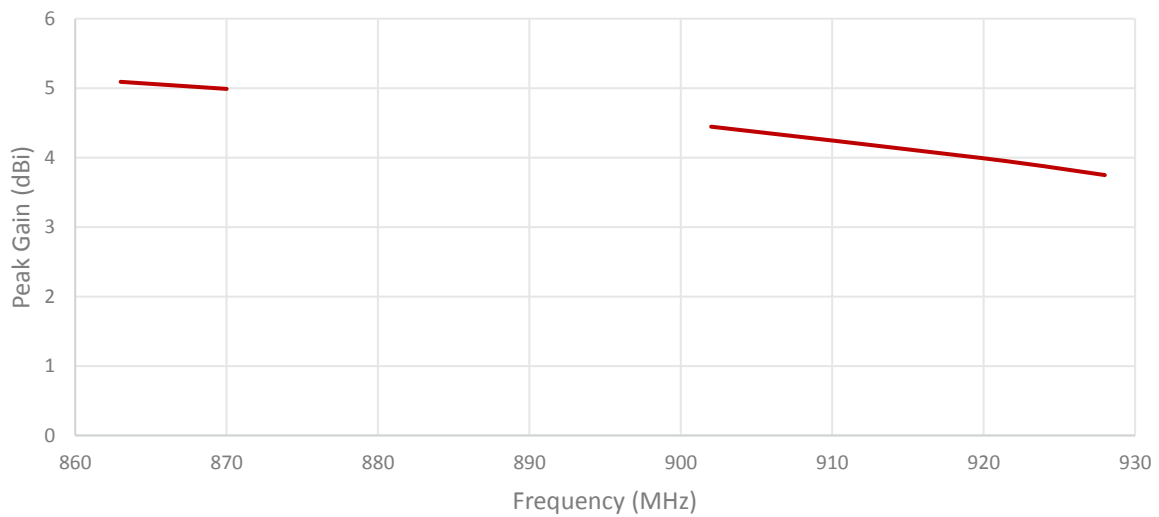
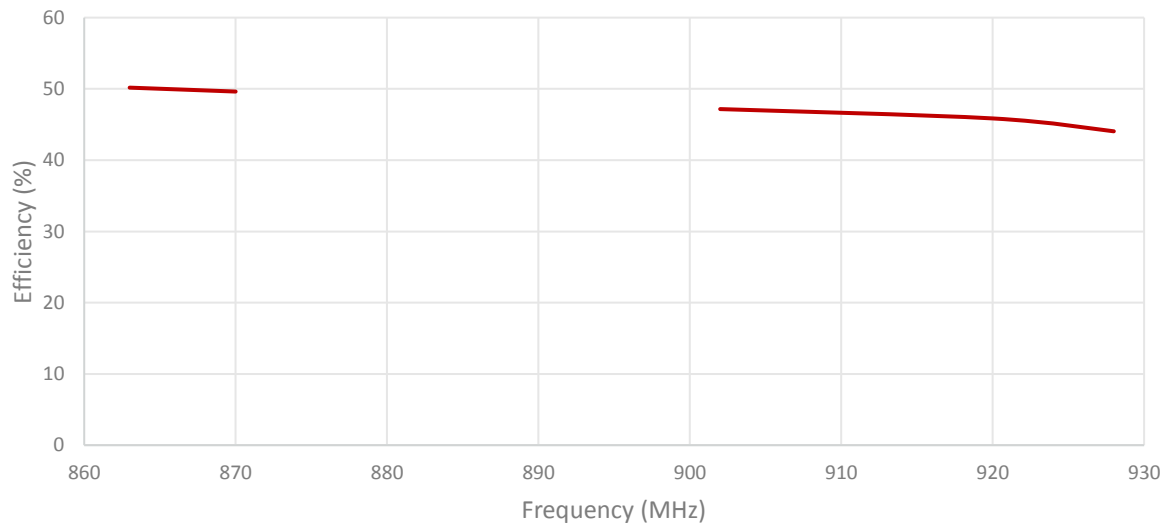
Cable 1: 868/915 MHz ISM



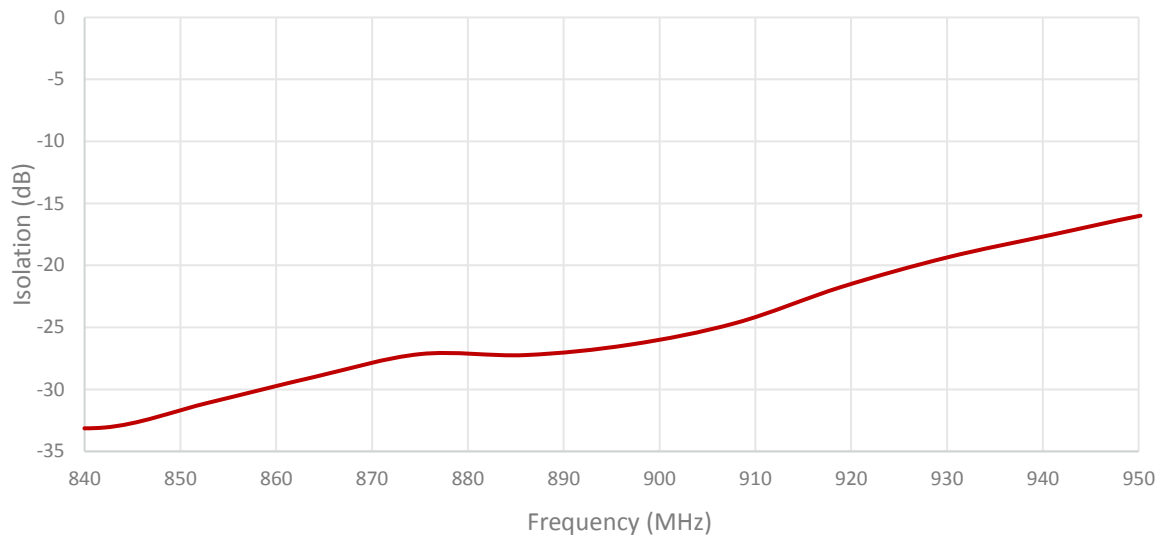


Cable 2: 868/915 MHz ISM

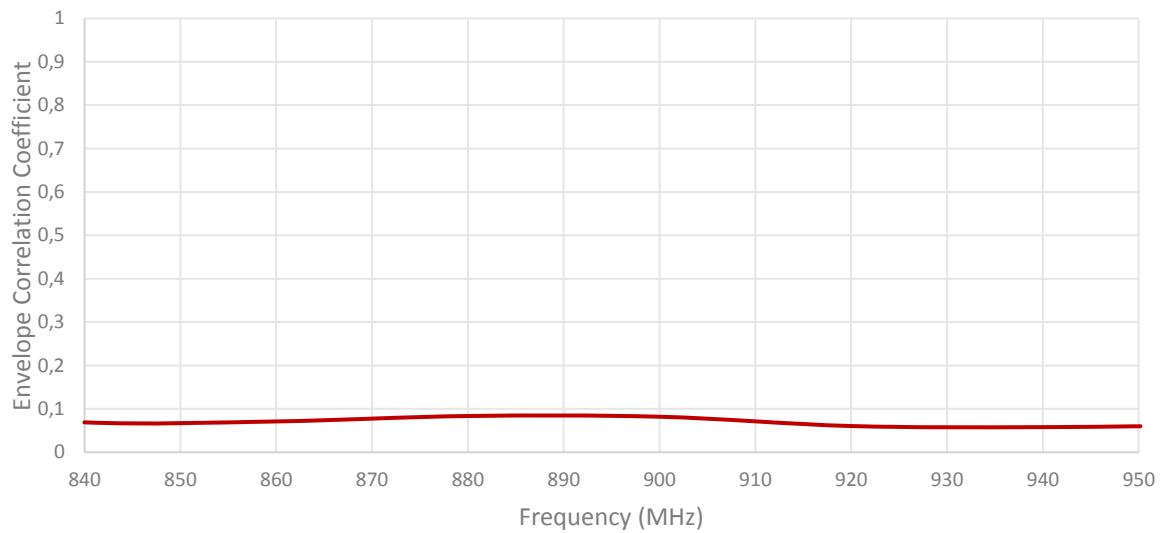




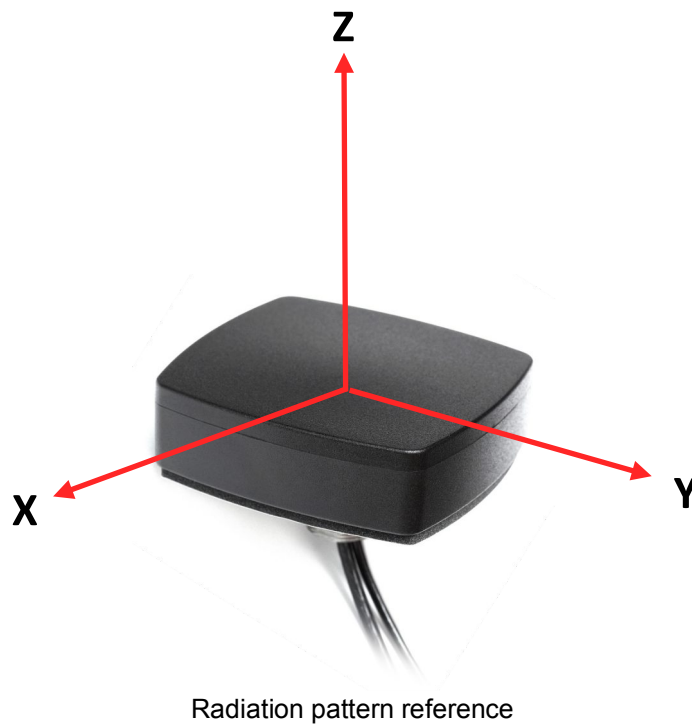
## ISOLATION FOR CABLES 1 AND 2



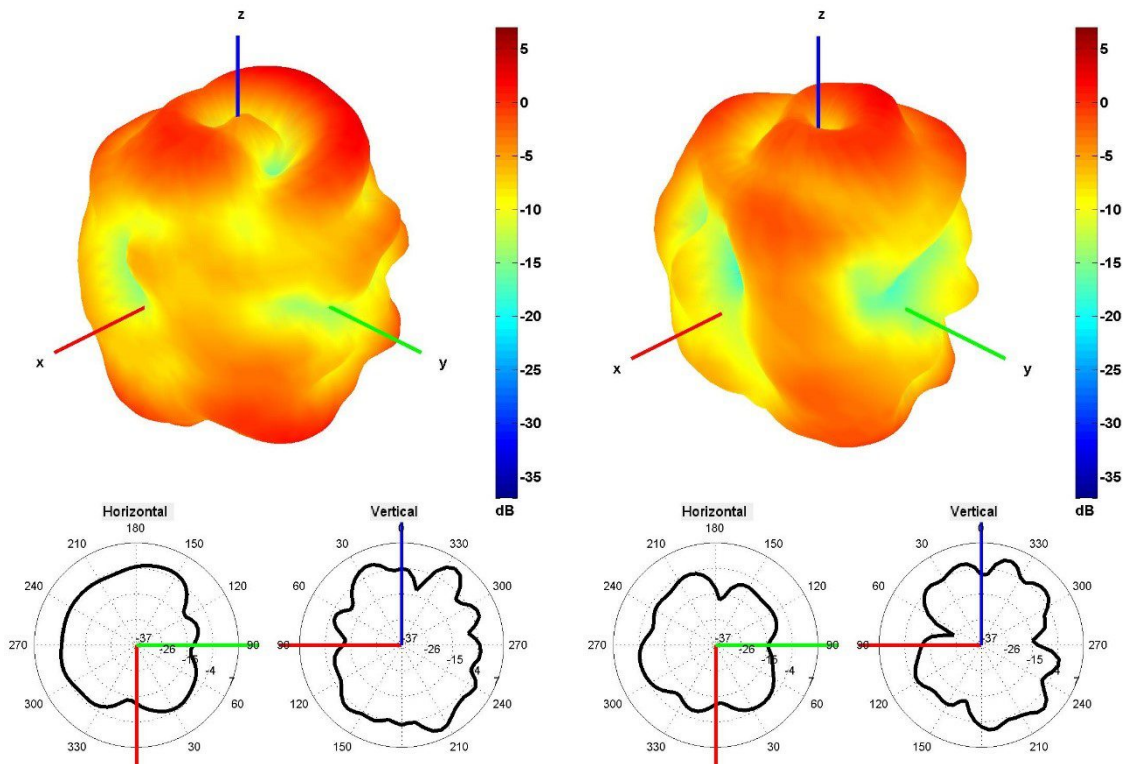
## ENVELOPE CORRELATION COEFFICIENT FOR CABLES 1 AND 2





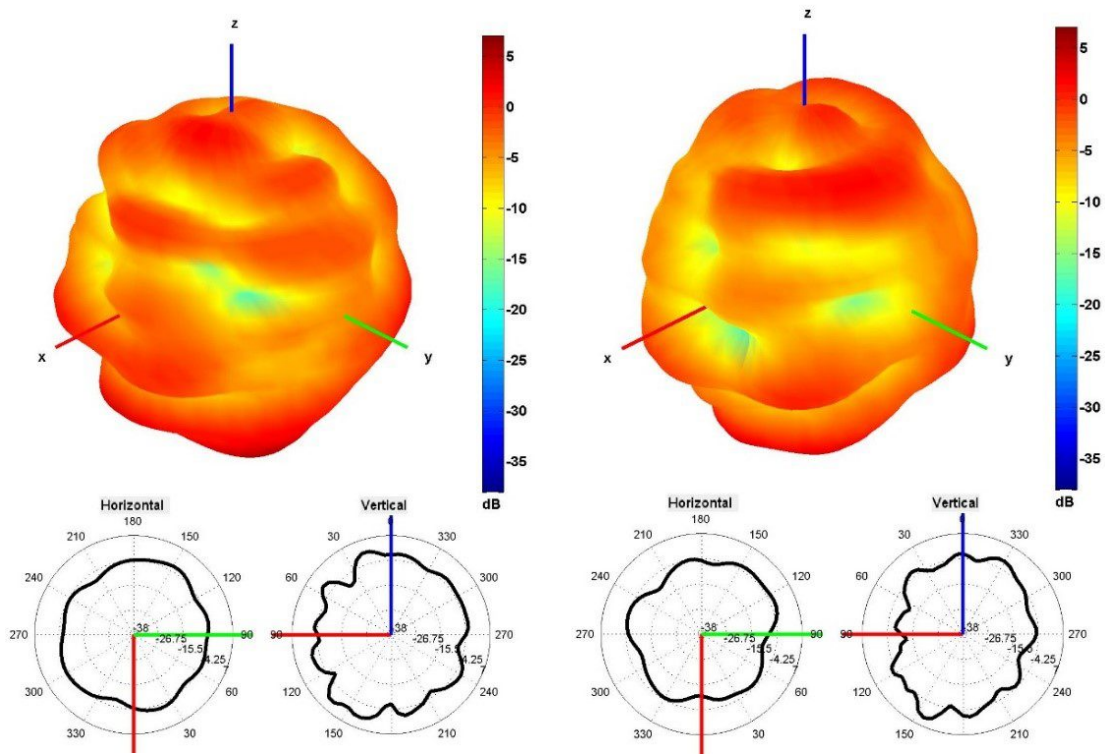


Cable 1: 868/915 MHz ISM



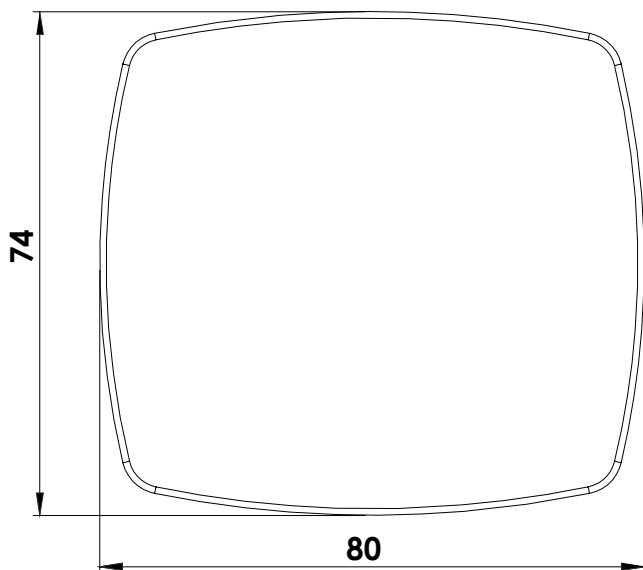
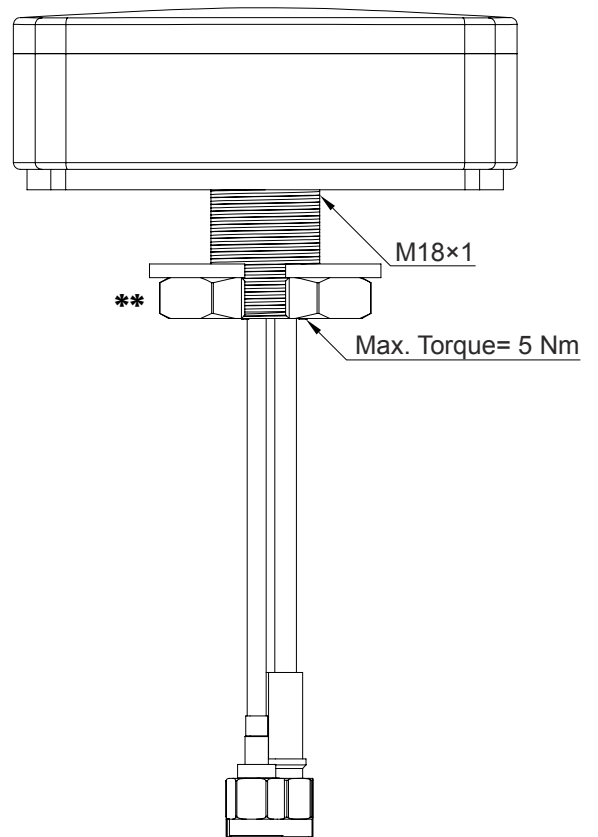
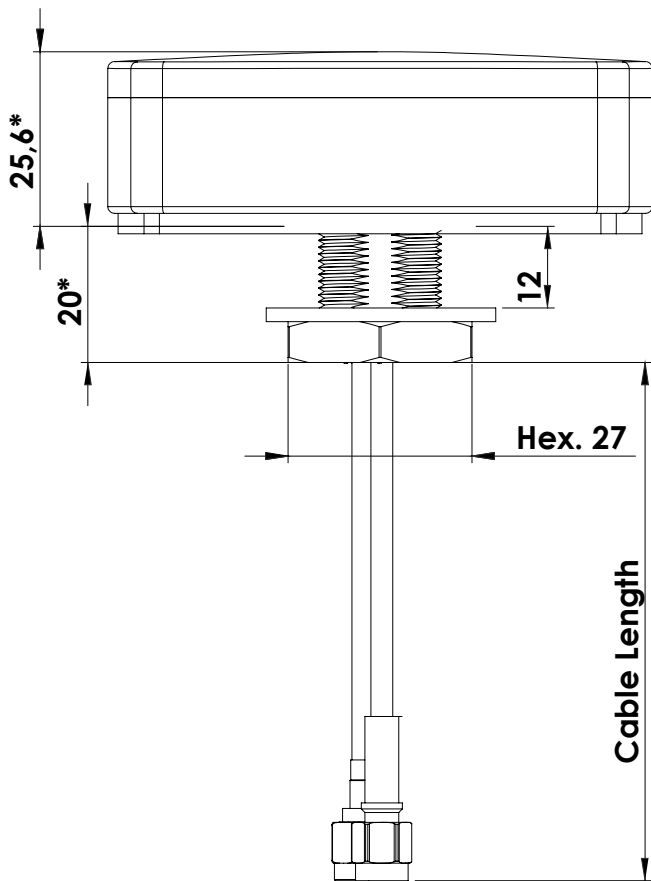
868 and 915 MHz Radiation pattern

Cable 2: 868/915 MHz ISM

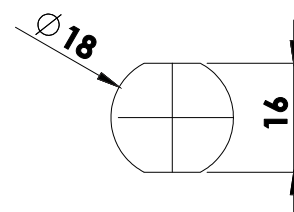


868 and 915 MHz Radiation pattern

## 4. Antenna drawings



### Mounting hole



Max. mounting thickness 12mm  
 Note: Dimensions are in millimeters  
 \*Dimensions are after mounting  
 \*\*Max. Torque= 5 Nm

## 5. Antenna Images

