

# 2J6915MPa

2× 868/915 MHz ISM MIMO Magnetic/Adhesive Mount

## Key Features

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

- 863-870 MHz

- 902-928 MHz

Magnetic/Adhesive Mount

Low Profile

High Gain

Ground Plane Independent

Customizable Cable and Connector

Dimensions 89 × 76 × 27/30 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>	~-8.5	~-10.9
<b>VSWR</b>	~2.2:1	~2.0:1
<b>Efficiency (%)</b>	~58	~63.0
<b>Peak Gain (dBi)</b>	~3.5	~4.8
<b>Average Gain (dB)</b>	~-2.3	~-2.2
<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>	~-8.0	~-9.0
<b>VSWR</b>	~2.3:1	~2.1:1
<b>Efficiency (%)</b>	~48.5	~52.6
<b>Peak Gain (dBi)</b>	~3.0	~3.9
<b>Average Gain (dB)</b>	~-3.1	~-2.5
<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

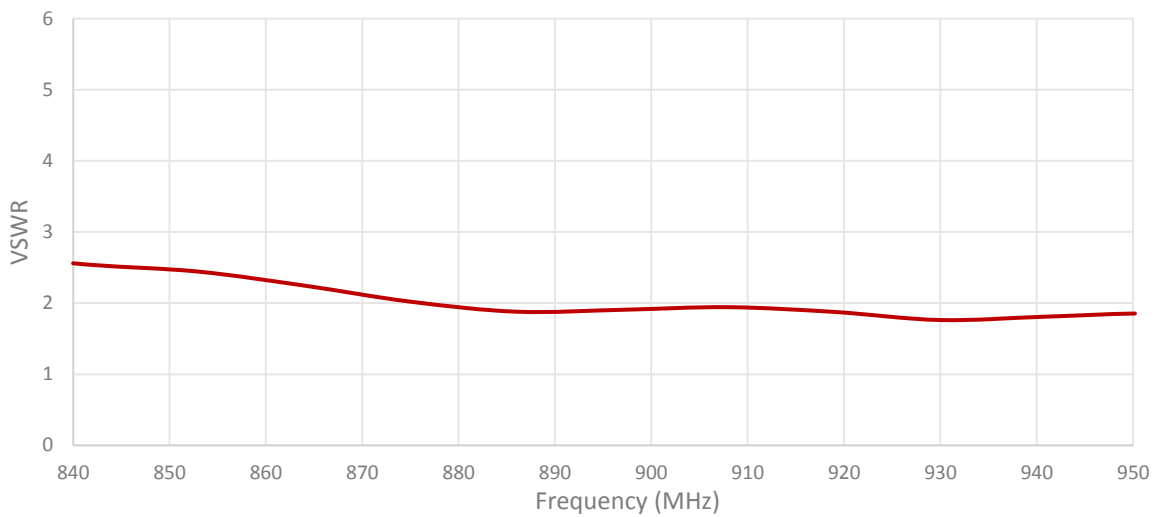
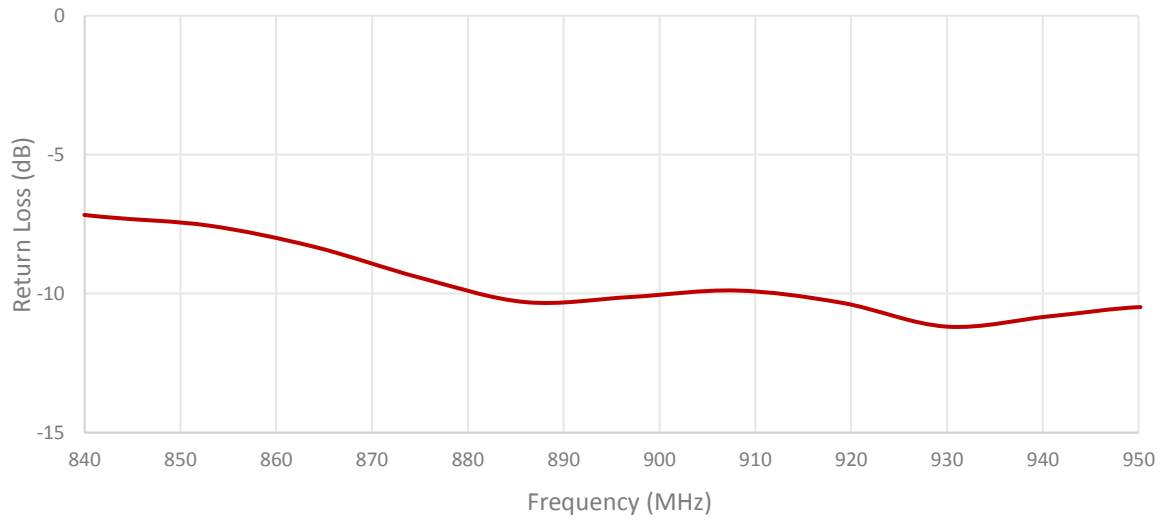
Measured in Certified CTIA 3D Anechoic Chamber

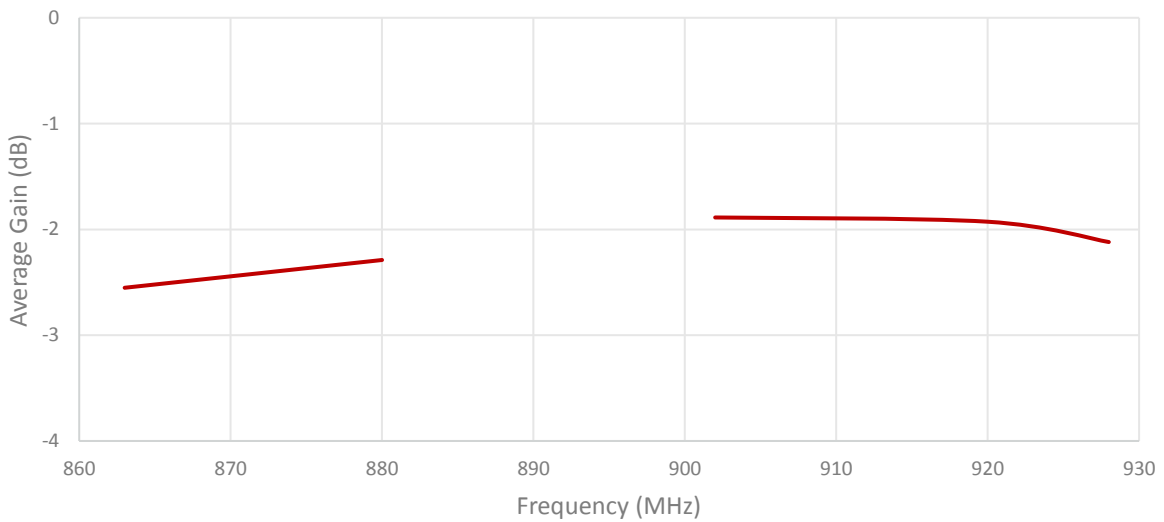
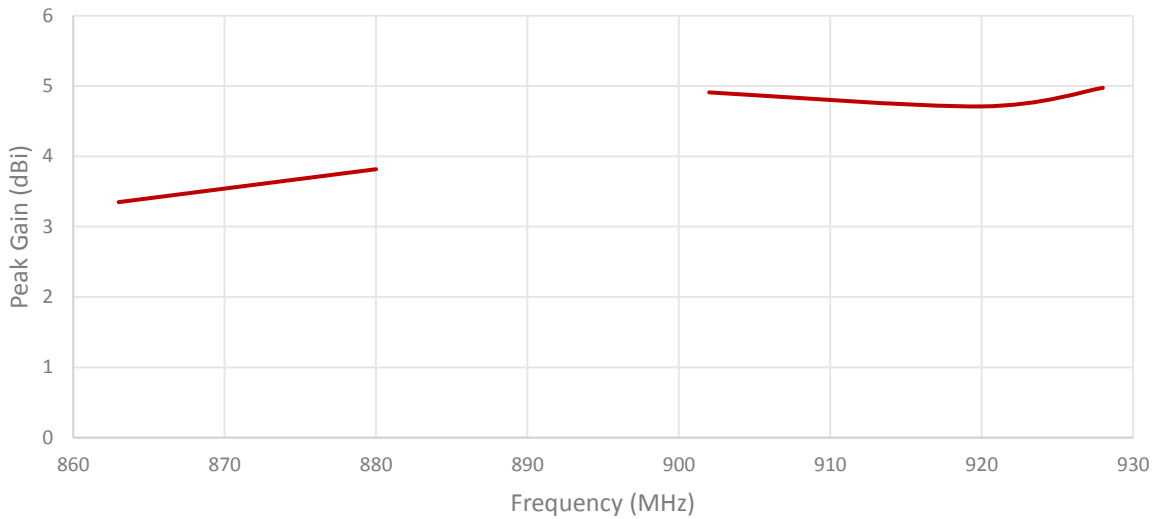
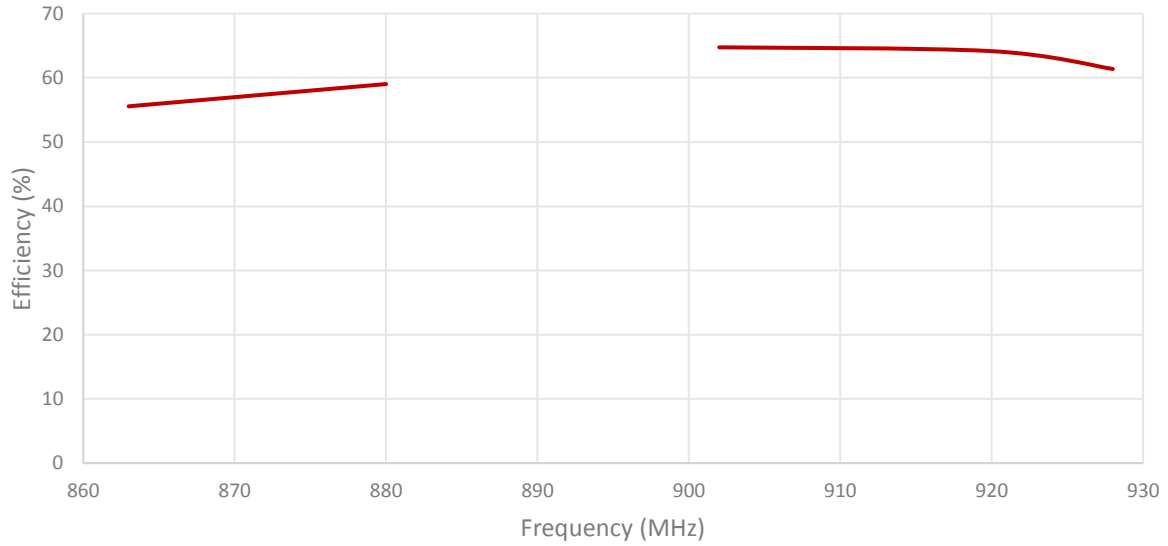
## 2. Mechanical and environmental specifications

Specifications	2J6915MPa
<b>Mounting Type</b>	Magnetic/Adhesive Mount
<b>Dimensions (mm)</b>	89 × 76 × 27/30
<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,

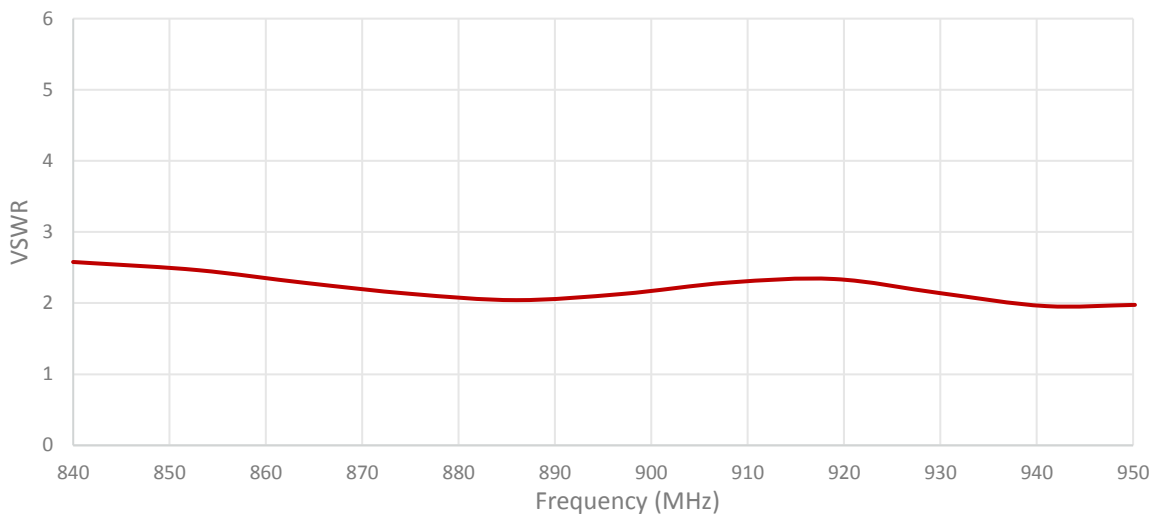
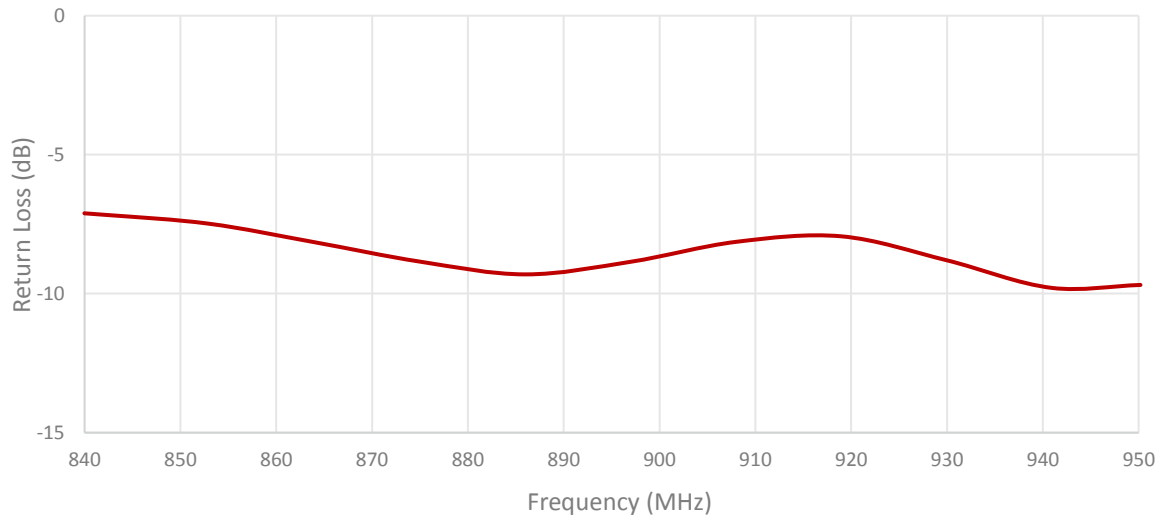
## 3. Antenna parameters

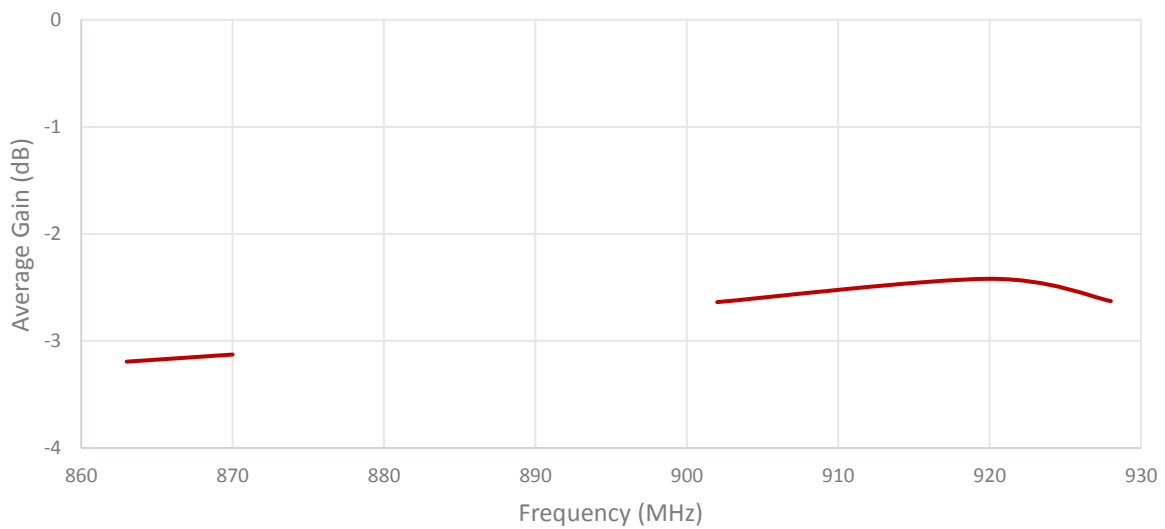
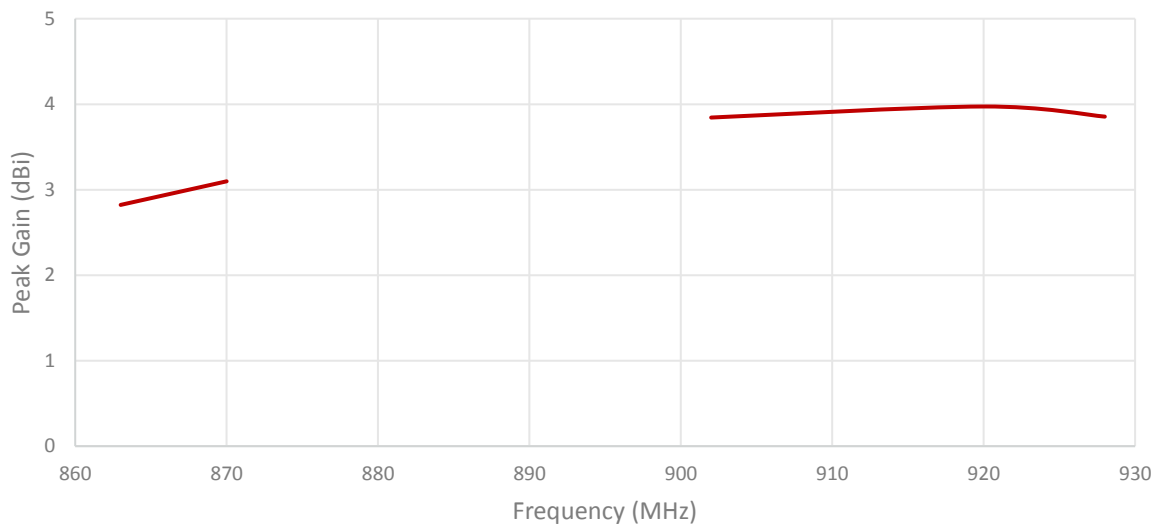
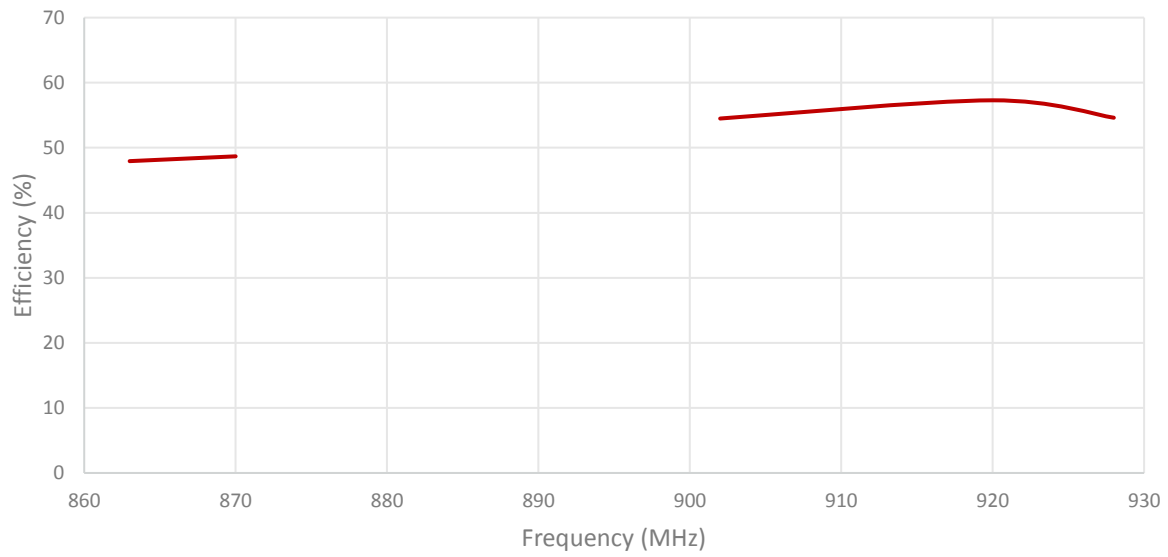
Cable 1: 868/915 MHz ISM



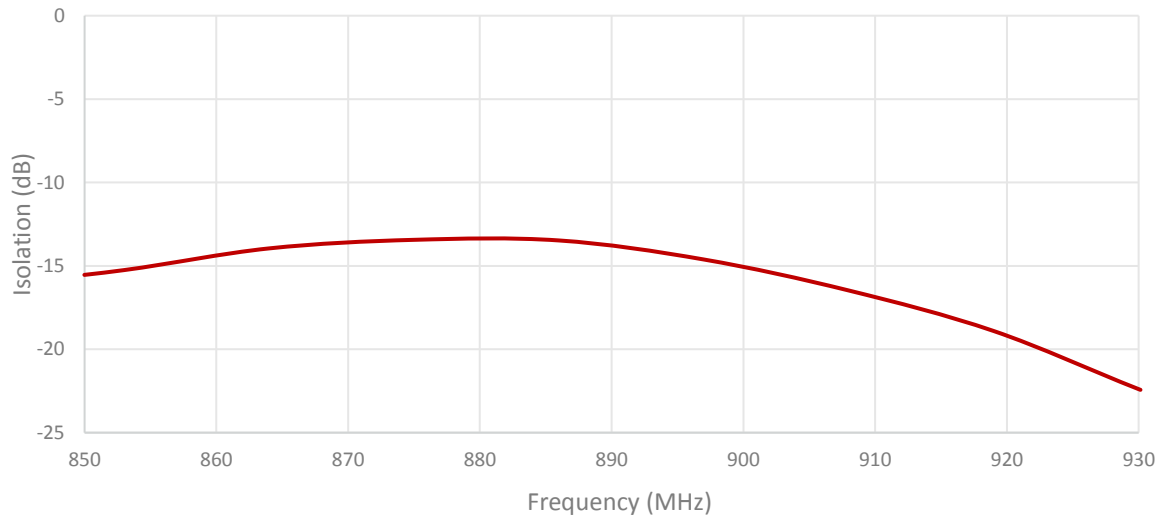


Cable 2: 868/915 MHz ISM

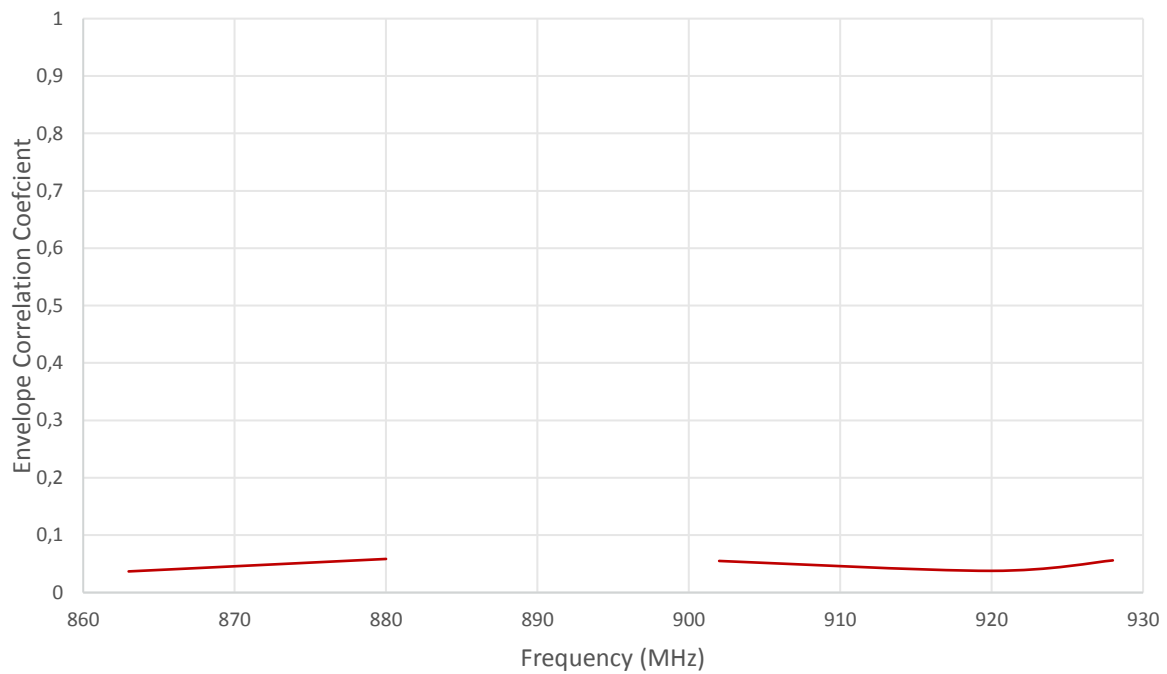




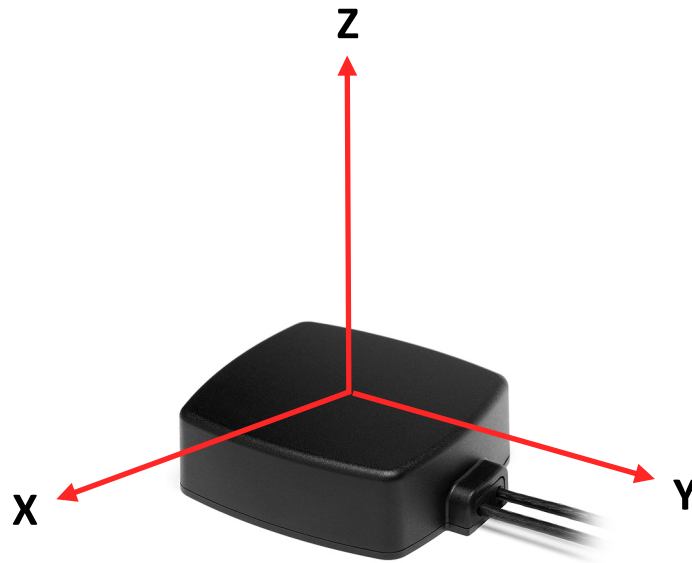
## ISOLATION FOR CABLES 1 AND 2



## ENVELOPE CORRELATION COEFFICIENT FOR CABLES 1 AND 2

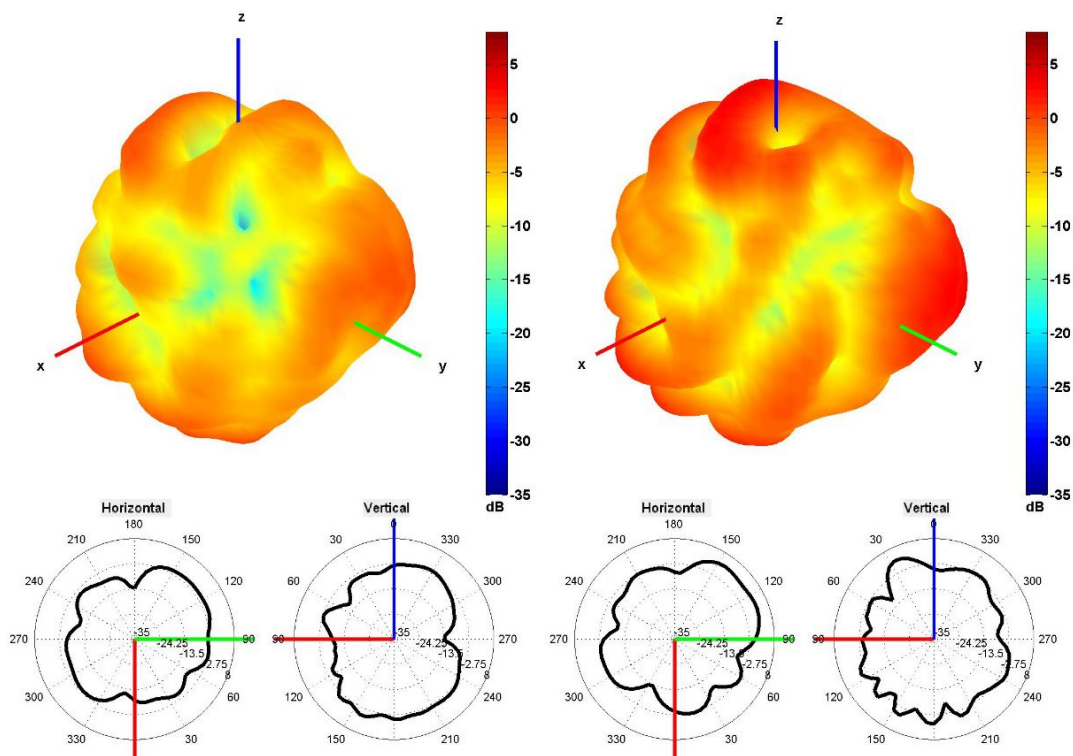






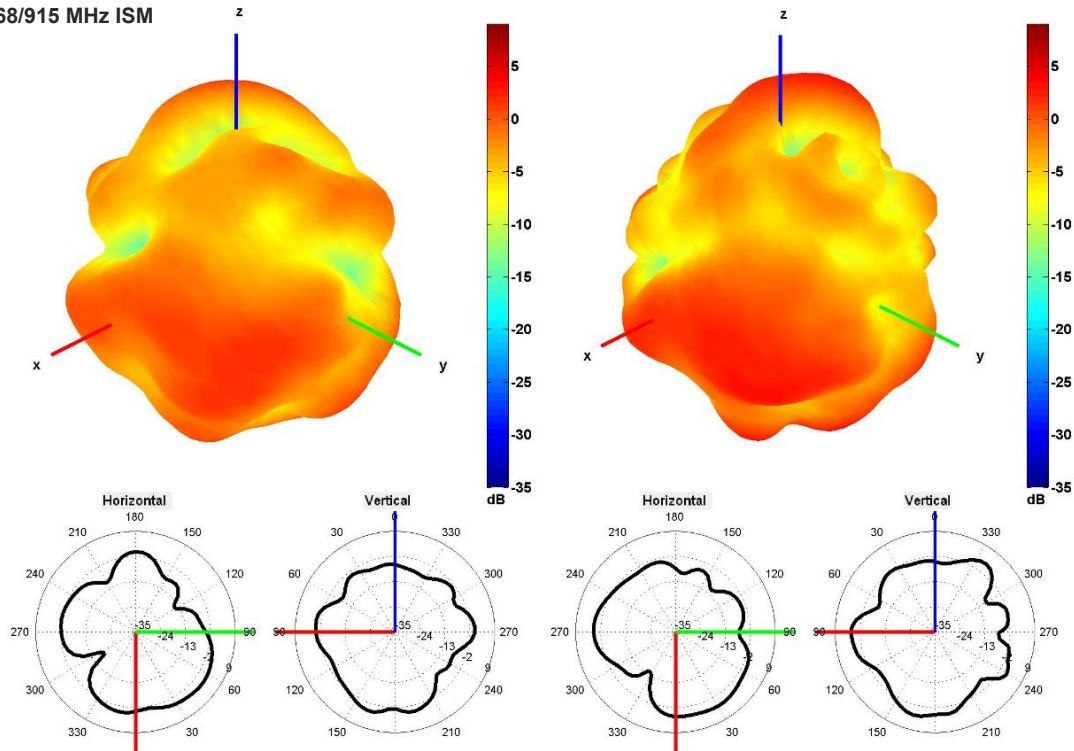
Radiation pattern reference

Cable 1: 868/915 MHz ISM



868 and 915 MHz Radiation pattern

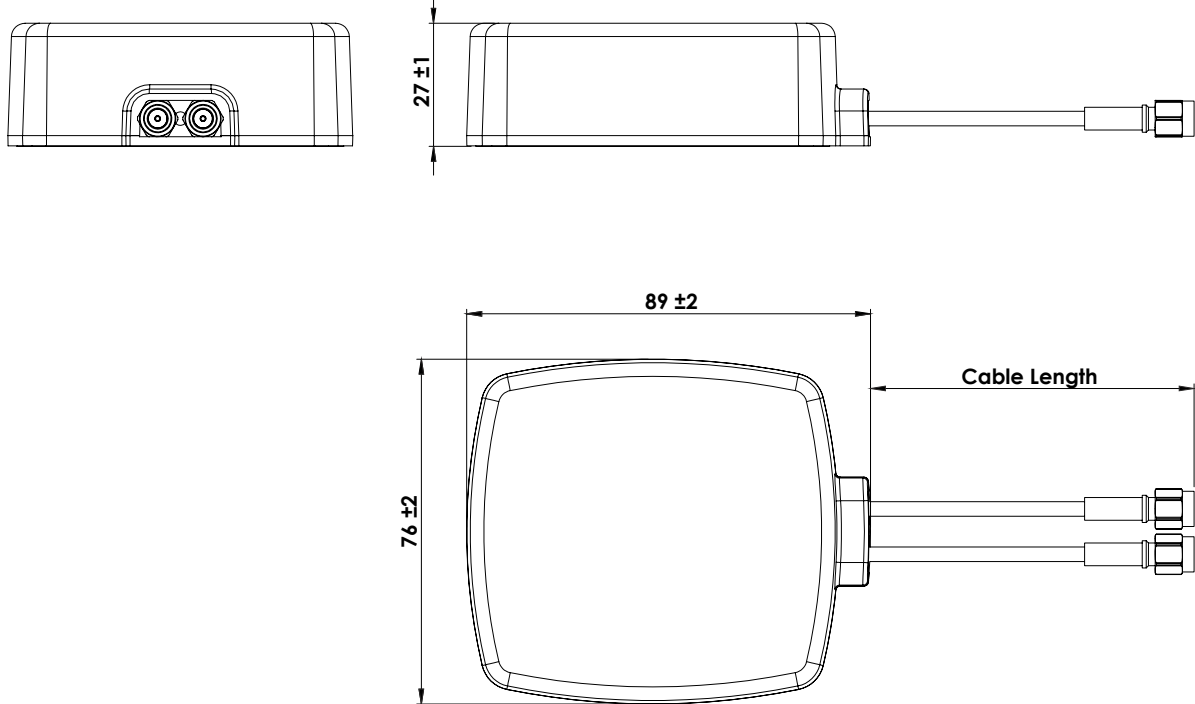
Cable 2: 868/915 MHz ISM



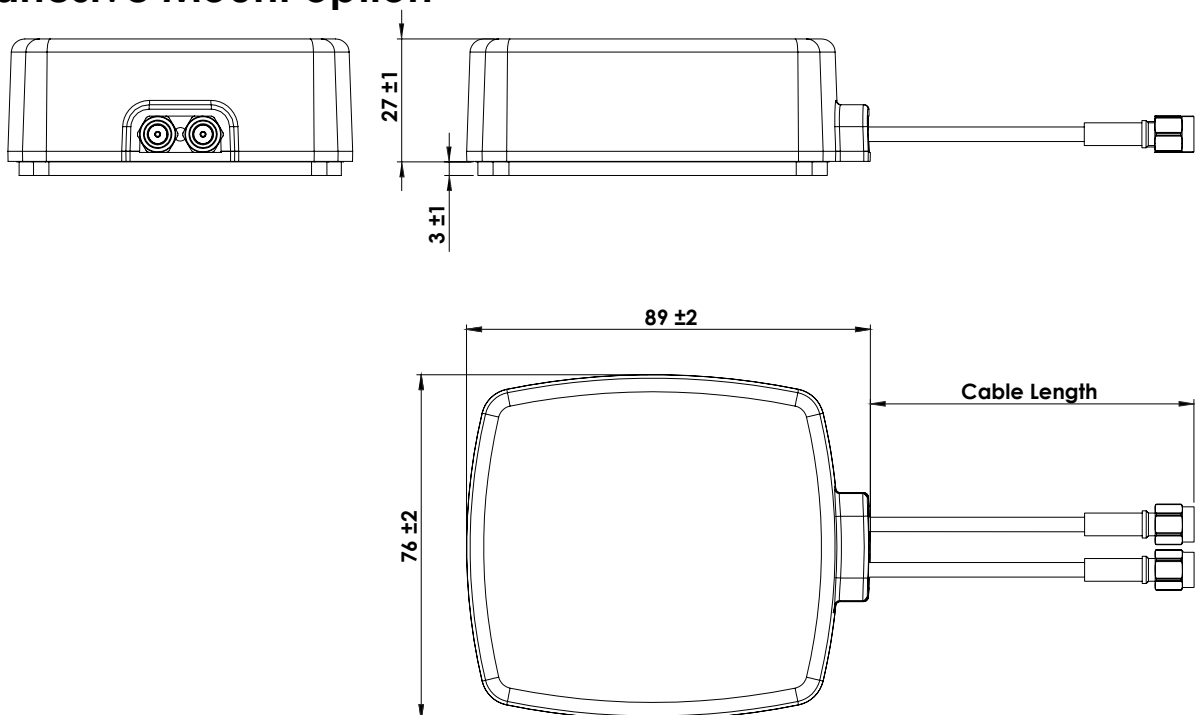
868 and 915 MHz Radiation pattern

## 4. Antenna drawings

### Magnetic Mount option



### Adhesive Mount option



## 5. Antenna Images

