

## 2J6639BGF-915

915 MHz ISM and GPS/GLONASS Screw Mount

### Key Features

**Cable 1: 915 MHz ISM**

- 902-928 MHz

**Cable 2: GPS/GLONASS**

- 1575-1606 MHz

Screw Mount

Anti-Rotation Mechanism

Low Profile

High Gain

Ground Plane Dependent

Customizable Cable and Connector

Dimensions  $\varnothing 77.3 \times 15$  mm

Certificates: IP67, IP69



## 1. Antenna and electrical specifications

**Cable 1**

Parameters	915 MHz ISM Antenna
<b>Standards</b>	ZigBee, ISM, SIGFOX, LoRa
<b>Band (MHz)</b>	915 MHz
<b>Frequency (MHz)</b>	902-928
<b>Return Loss (dB)</b>	~-21.3
<b>VSWR</b>	~1.2:1
<b>Efficiency (%)</b>	~51.0
<b>Peak Gain (dBi)</b>	~3.7
<b>Average Gain (dB)</b>	~-3.0
<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>	200 cm (Customizable length available)
<b>Cable Type</b>	D302 (Other cable type available)

**Cable 2**

Parameters	GPS/GLONASS Antenna	
<b>Standard</b>	GPS/QZSS/Galileo	GLONASS
<b>Band (MHz)</b>	1575	1602
<b>Frequency(MHz)</b>	1575.42	1598-1606
<b>Patch Size (mm)</b>	25 x 25 x 4	
<b>Return Loss (dB)</b>	<=-15.0 dB	
<b>VSWR</b>	<=1.4:1 dB	
<b>Impedance</b>	50	
<b>Radiation Pattern</b>	Hemispherical	
<b>Polarization</b>	RHCP	
<b>Saw Filter</b>	Pre-filter	
<b>Active Gain (dB)</b>	28 @ 2.7 V	
<b>Noise Figure (dB)</b>	1.5 Typ	
<b>Voltage (V)</b>	1.5 - 3.6	
<b>Current (mA)</b>	9 Typ	
<b>Power Consumption (mW)</b>	24.3 Typ	
<b>ESD Protection (kV)</b>	2kV	
<b>Connector Type</b>	SMA-Male Standard (Other Connectors Available)	
<b>Cable Length</b>	200 cm Standard (Any Cable Length Available)	
<b>Cable Type</b>	LL100 Standard (Other Cables Available)	

**Antenna Measurement Conditions:**

Mounted on 30 x 30 x 0.25 cm Steel Plate

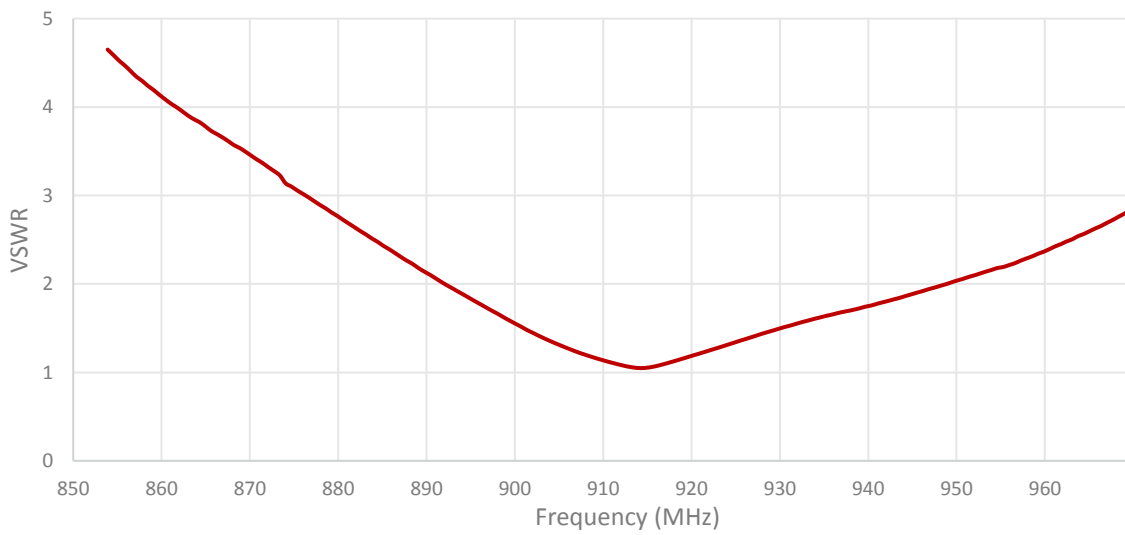
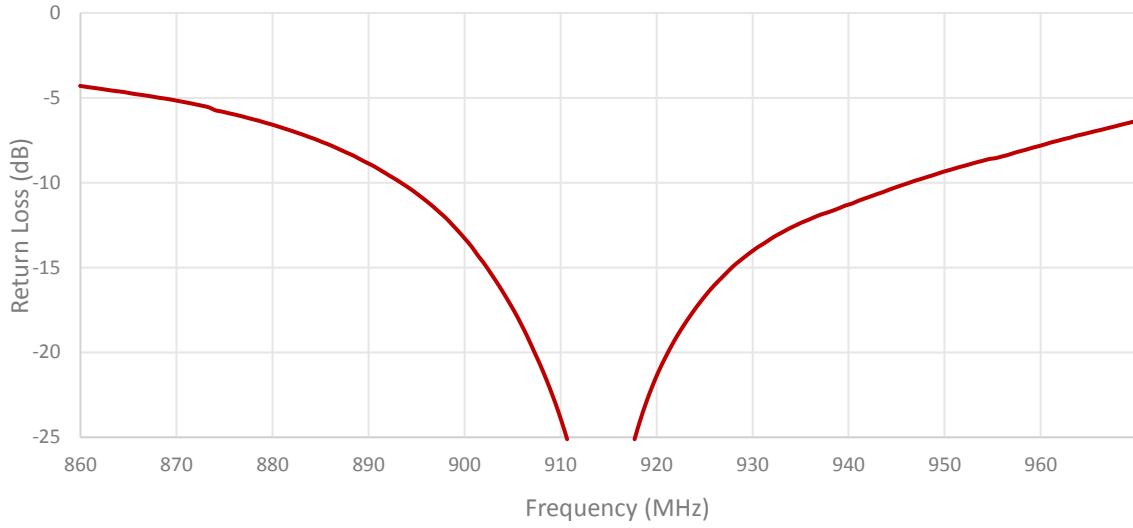
200 cm D302 Cable

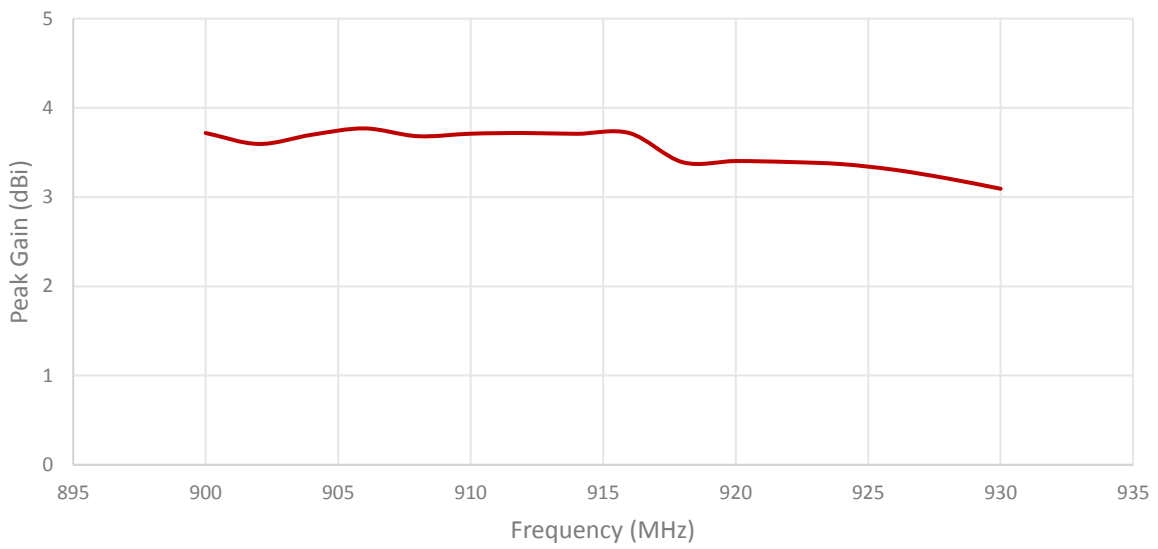
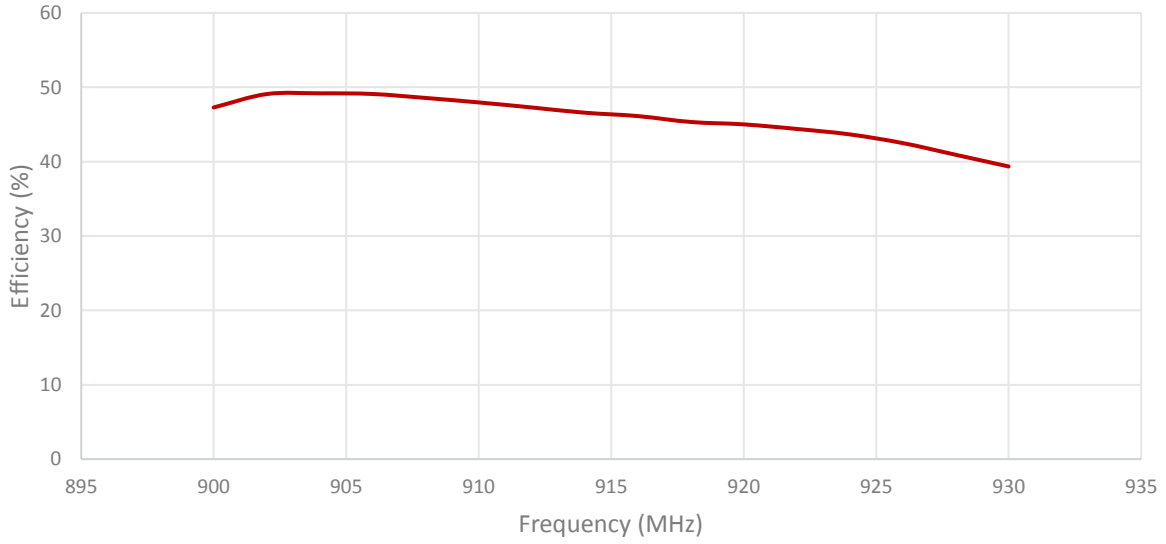
Measured in Certified CTIA 3D Anechoic Chamber

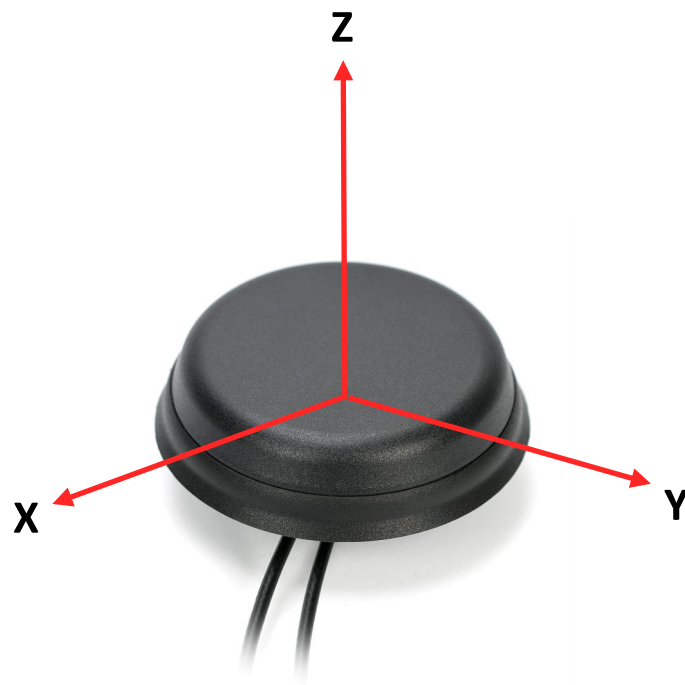
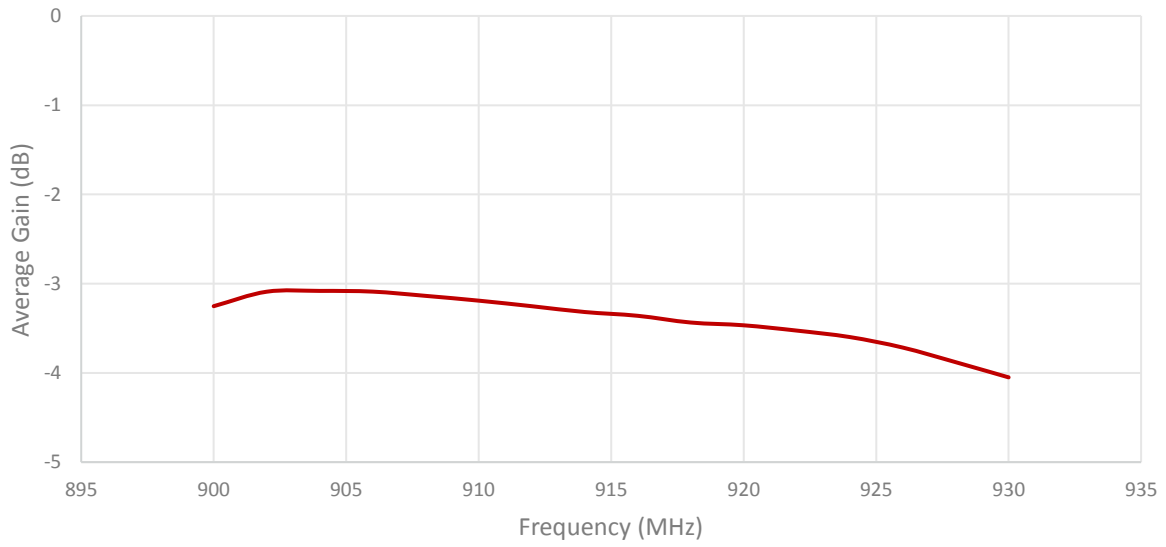
## 2. Mechanical and environmental specifications

Specifications	2J6639BGF-915
<b>Mounting Type</b>	Screw Mount
<b>Dimensions (mm)</b>	Ø 77.3 × 15
<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, IP69

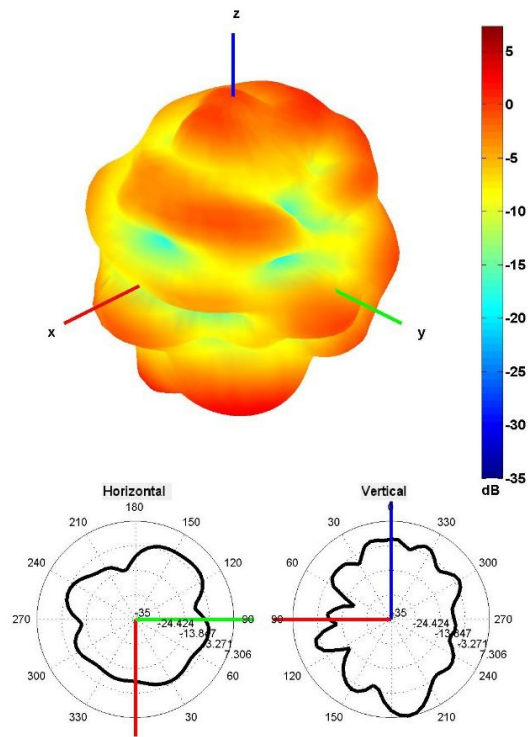
### 3. Antenna parameters





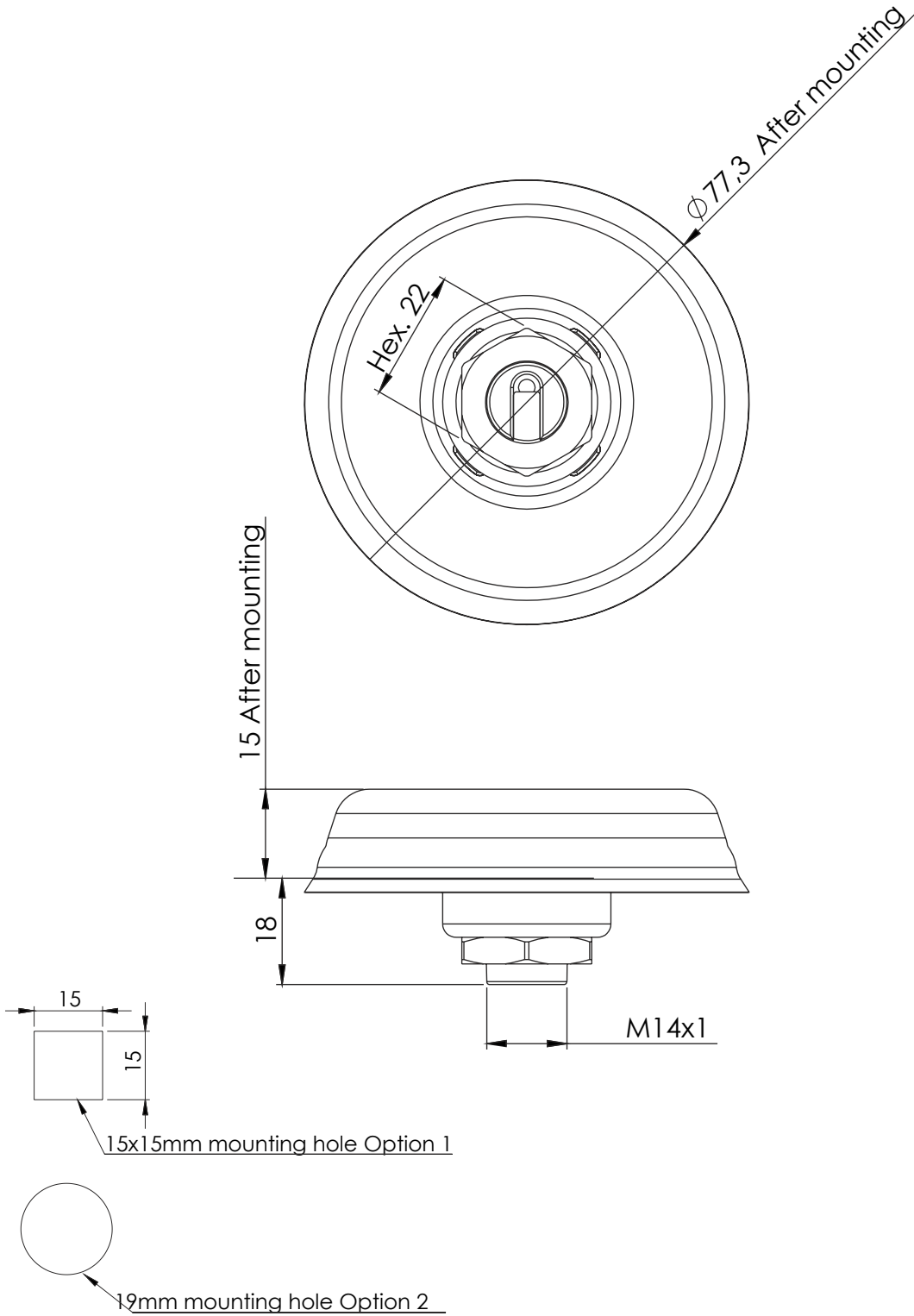


Radiation pattern reference



915 MHz Radiation pattern

## 4. Antenna drawings





## 5. Antenna Images

