

## 2J4841PGF

CELLULAR/LTE and GPS/GLONASS Adhesive Mount

### Key Features

#### Cable 1: CELLULAR/LTE

- 698-960 MHz
- 1710-2170 MHz
- 2500-2700 MHz

#### Cable 2: GPS/GLONASS/QZSS/Galileo

- 1575-1606 MHz

Adhesive Mount

Ground Plane Independent

Customizable Cable and Connector

Dimensions 83 x 35 x 13.3 mm

Certificates: IP67, IP69



**Note:** Antenna 2J4841PGFR equipped with 10K resistor for antenna detection is available.



## 1. Antenna and electrical specifications

**Cable 1**

Parameters	CELLULAR/LTE Antenna		
<b>Standards</b>	2G,3G and 4G		
<b>Band (MHz)</b>	700/850/900	1700/1800/1900/2100	2600
<b>Frequency (MHz)</b>	698-960	1710-2170	2500-2700
<b>Return Loss (dB)</b>	~-13.3	~-18.3	~-9.8
<b>VSWR</b>	~1.8:1	~1.3:1	~2.0:1
<b>Efficiency (%)</b>	~53	~49	~25
<b>Peak Gain (dBi)</b>	~-2.4	~-1.3	~-0.4
<b>Average Gain (dB)</b>	~-2.7	~-3.0	~-5.9
<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>	LMR100 Standard (Other Cables 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 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</b>	2kV	
<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>	LMR100 Standard (Other Cables Available)	

**Antenna Measurement Conditions:**

Mounted on 30 x 30 x 0.25 cm ABS Plate

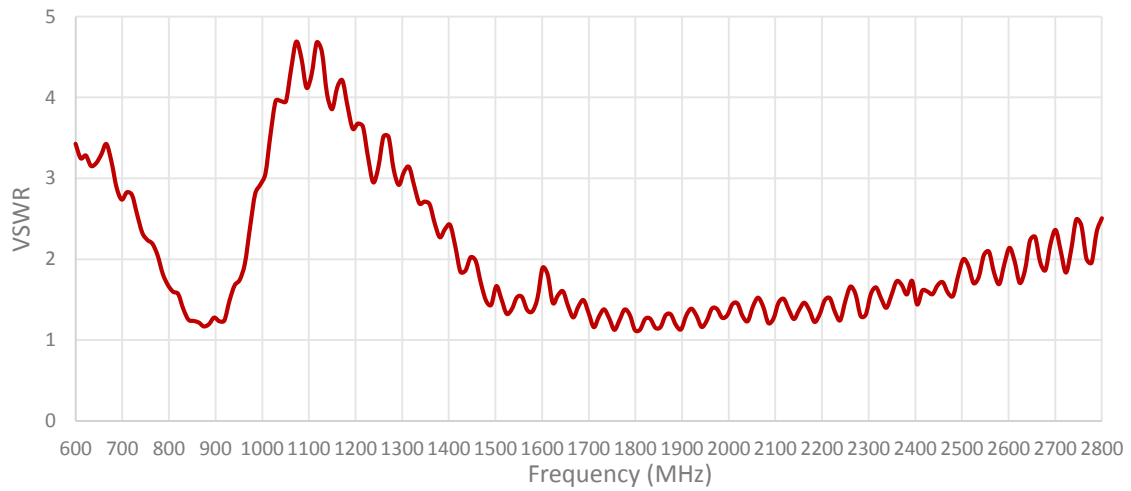
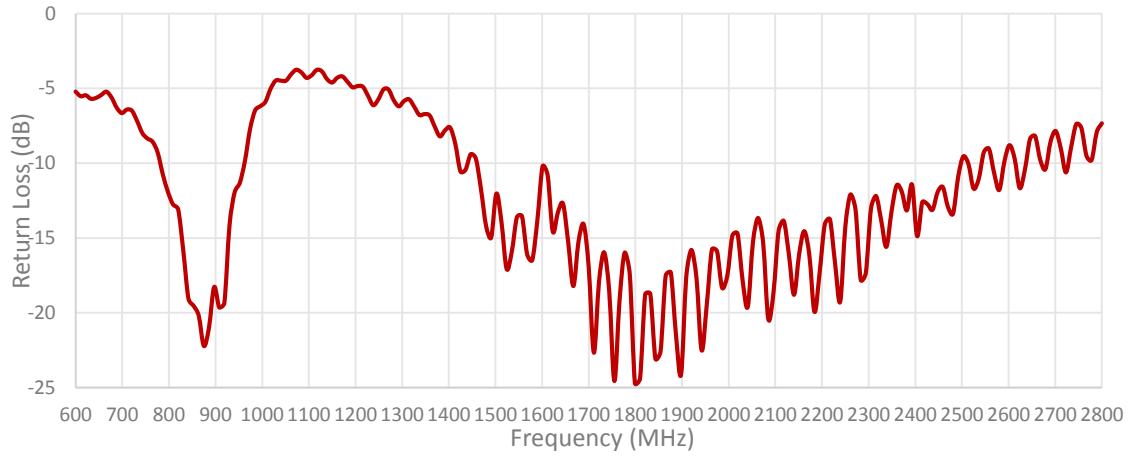
200 cm of Cable LMR100

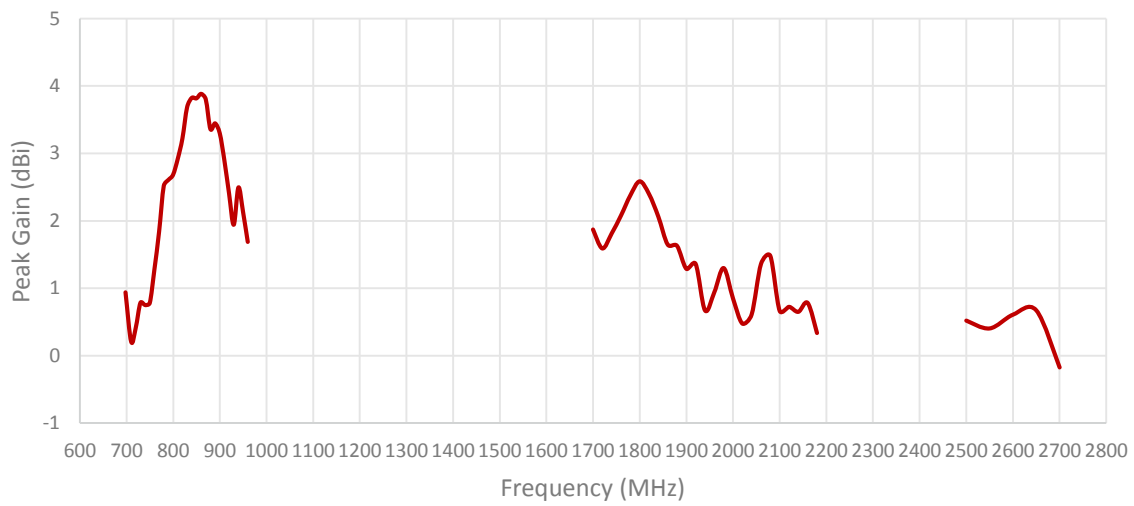
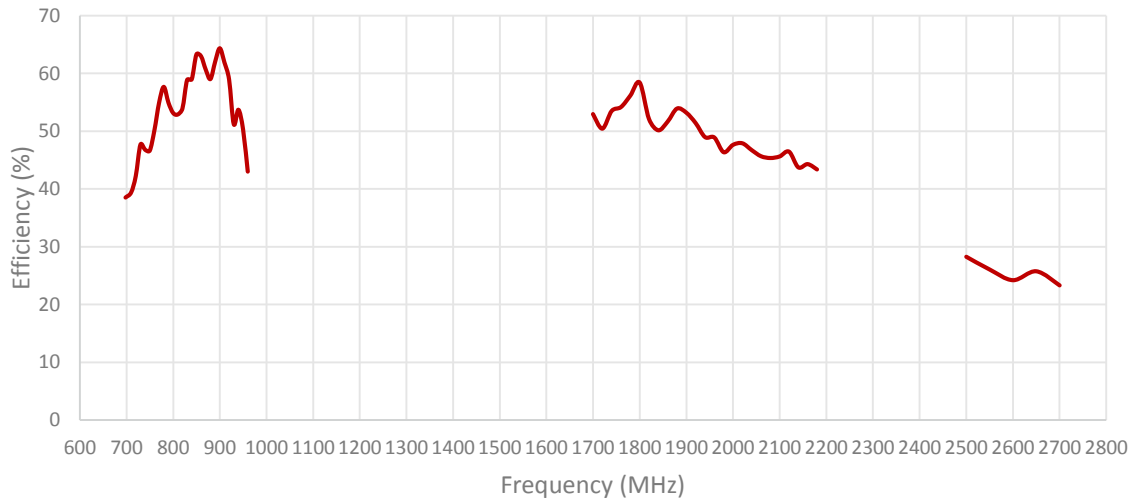
Measured in Certified CTIA 3D Anechoic Chamber

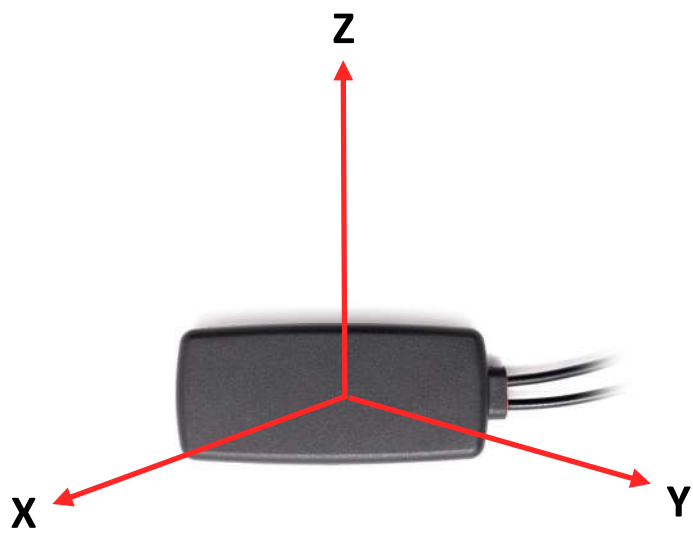
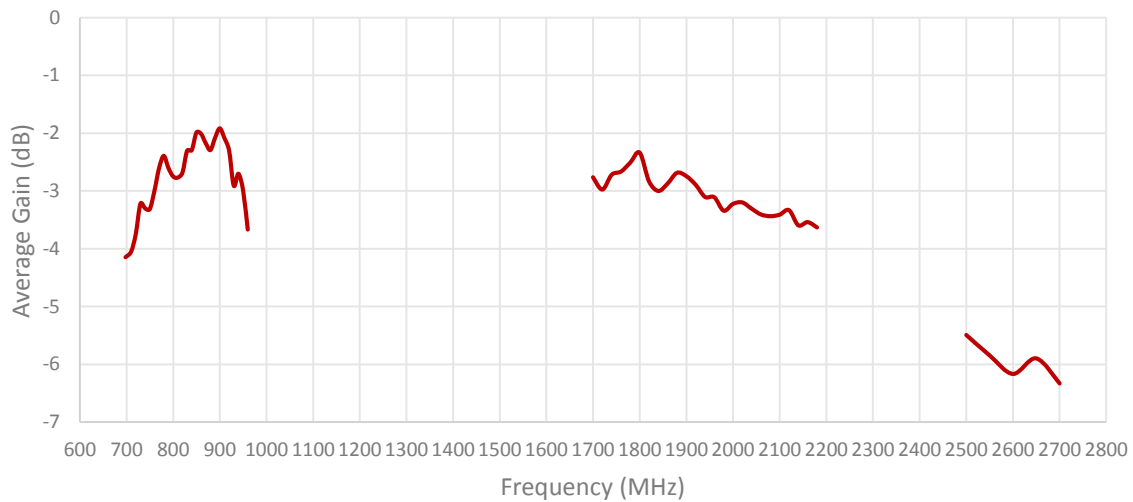
## 2. Mechanical and environmental specifications

Specifications	2J4841PGF
<b>Mounting Type</b>	Adhesive Mount
<b>Dimensions (mm)</b>	83 x 35 x 13.3
<b>Radome</b>	ABS UV Stable
<b>Radome color</b>	Black
<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

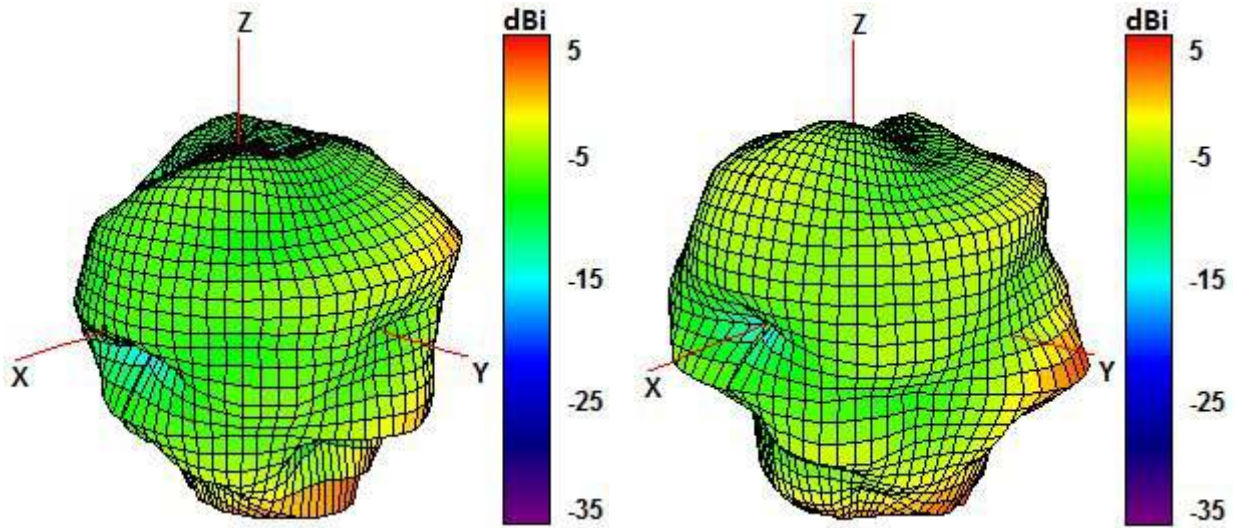
### 3. Antenna parameters



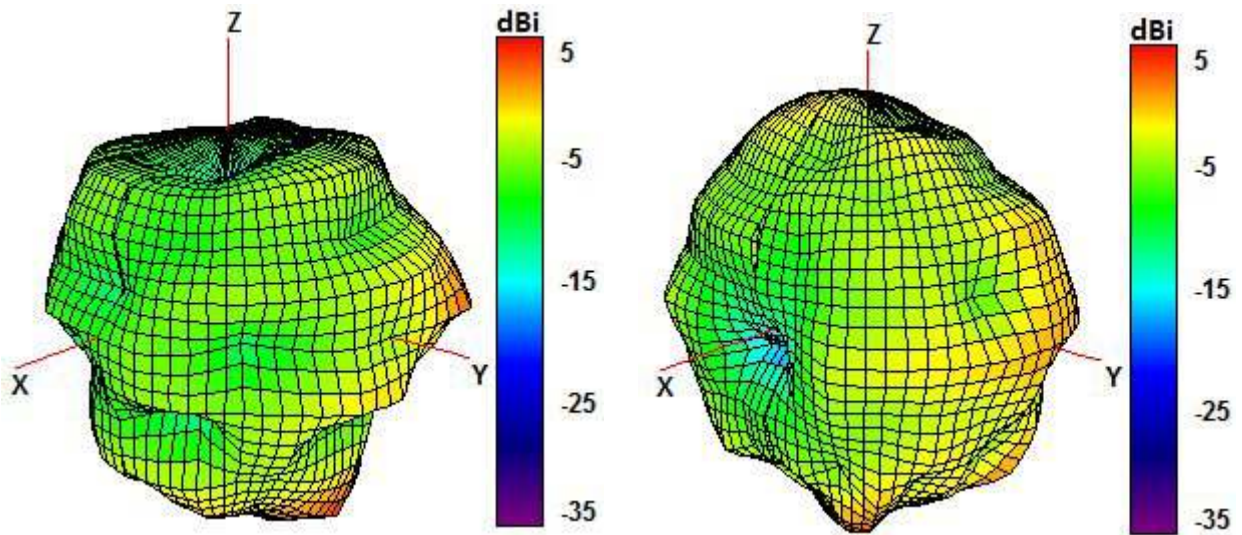




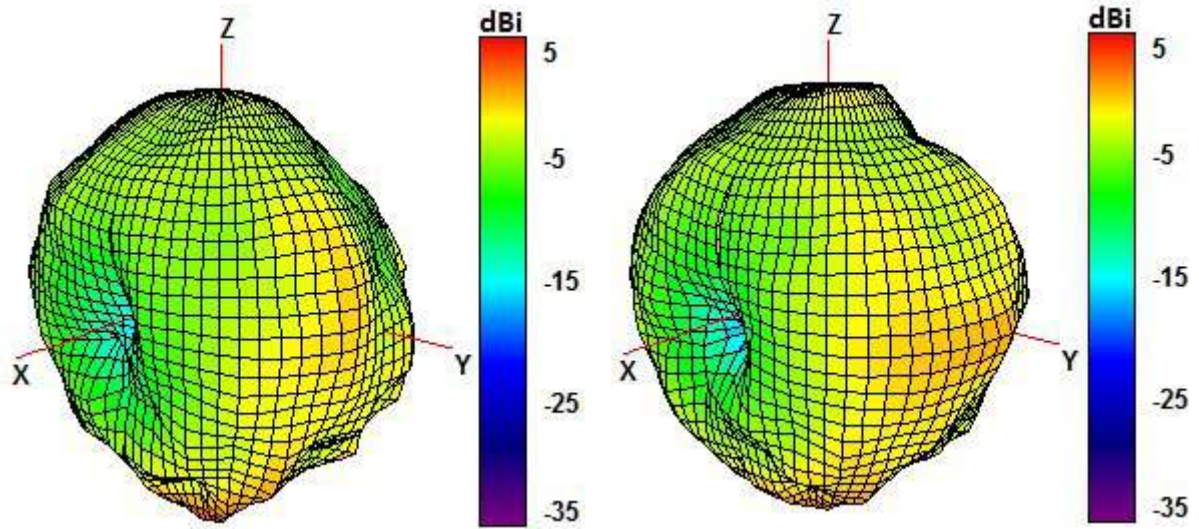
Radiation pattern reference



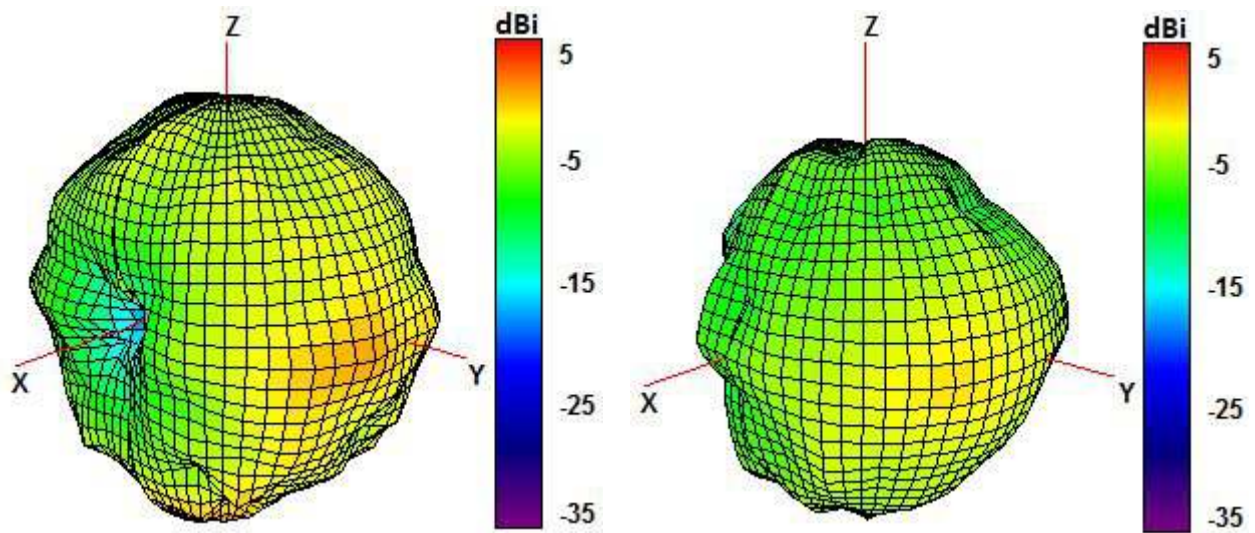
750 and 850 MHz Radiation pattern



940 and 1750 MHz Radiation pattern



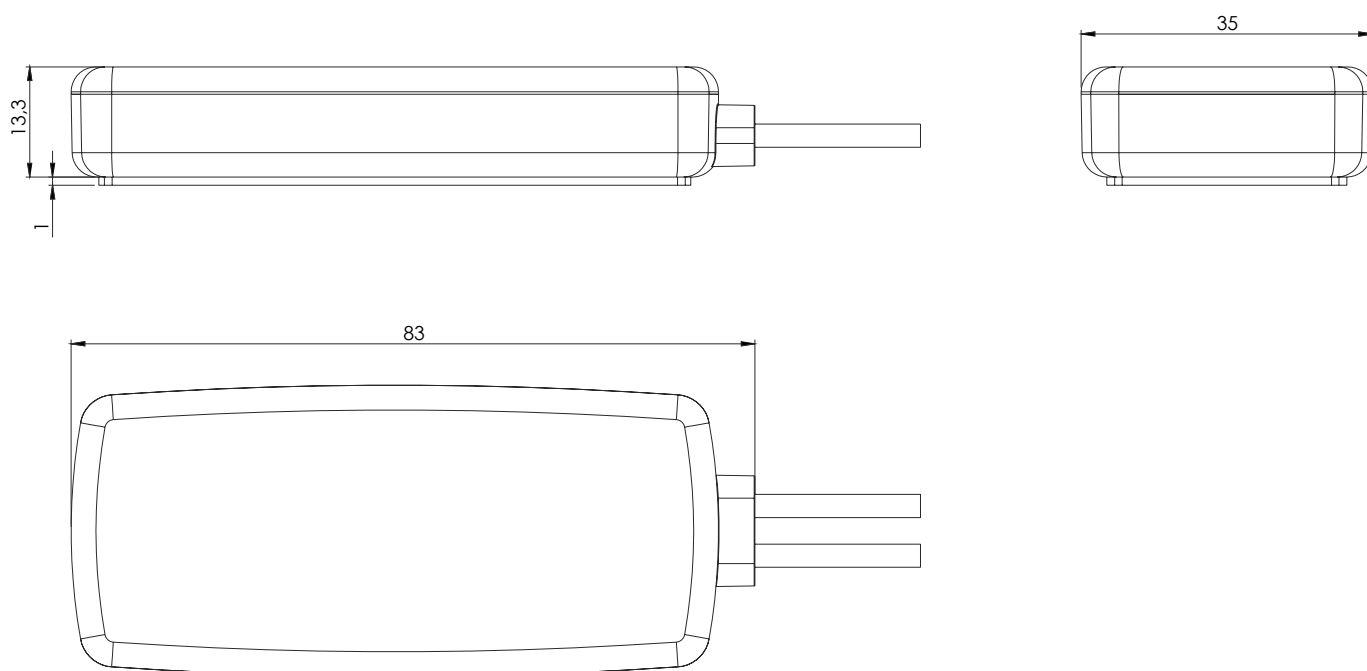
1850 and 1950 MHz Radiation pattern



2100 and 2600 MHz Radiation pattern



## 4. Antenna drawings



## 5. Antenna Images

