

## 2JW0124-C868B

### CELLULAR / LTE Connector Mount

#### Key Features

##### CELLULAR / LTE

- 698-960 MHz

- 1710-2170 MHz

- 2500-2700 MHz

Connector Mount

Ultra Wide band Antenna

High Performance

Ground Plane Independent

Hinged Connector

Dimensions 171 × 38 × 13.8 mm



#### Description

This antenna with modern design is suitable for 4G LTE routers, terminals and other telematic applications. The antenna is omnidirectional with high efficiency and covers worldwide networks. Two variations of mounting swivels allow different orientation of antennas on devices with MIMO systems.



## 1. Antenna and electrical specifications

| Parameters                  | CELLULAR / LTE Antenna                                     |                     |           |
|-----------------------------|------------------------------------------------------------|---------------------|-----------|
| <b>Standards</b>            | 2G,3G and 4G                                               |                     |           |
| <b>Technologies</b>         | GSM, CDMA, DCS, PCS, GPRS, WCDMA, UMTS, HSPA, EVDO and LTE |                     |           |
| <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>     | ~-7.7                                                      | ~-12.7              | ~-8.5     |
| <b>VSWR</b>                 | ~2.4:1                                                     | ~1.6:1              | ~2.2:1    |
| <b>Efficiency (%)</b>       | ~62                                                        | ~75                 | ~50       |
| <b>Peak Gain (dBi)</b>      | ~0.4                                                       | ~2.6                | ~1.3      |
| <b>Average Gain (dB)</b>    | ~-2.1                                                      | ~-1.3               | ~-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 or RP SMA-Male                                    |                     |           |

### Antenna Measurement Conditions:

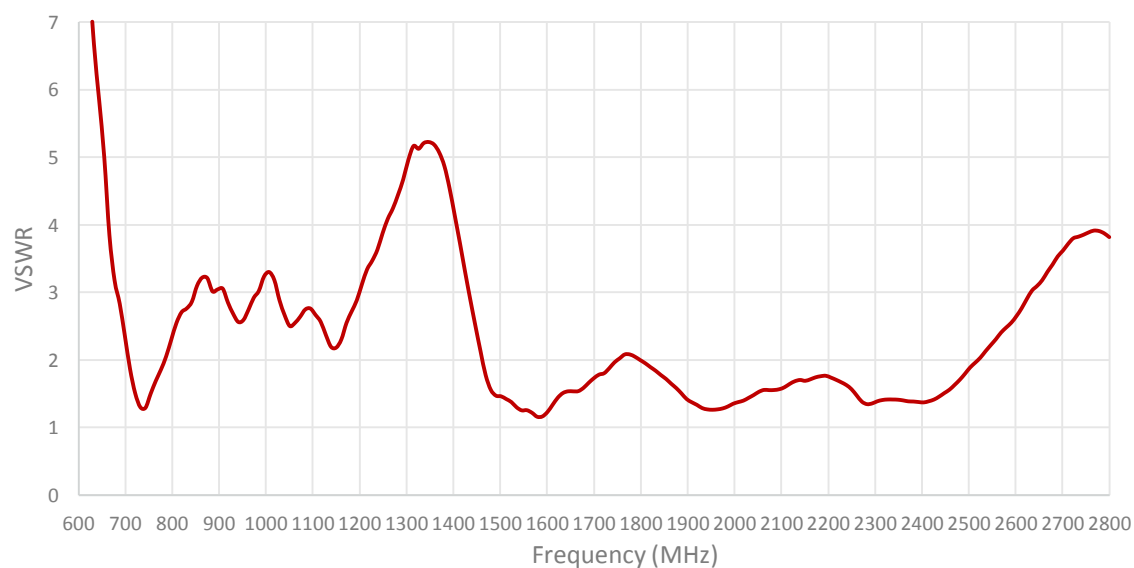
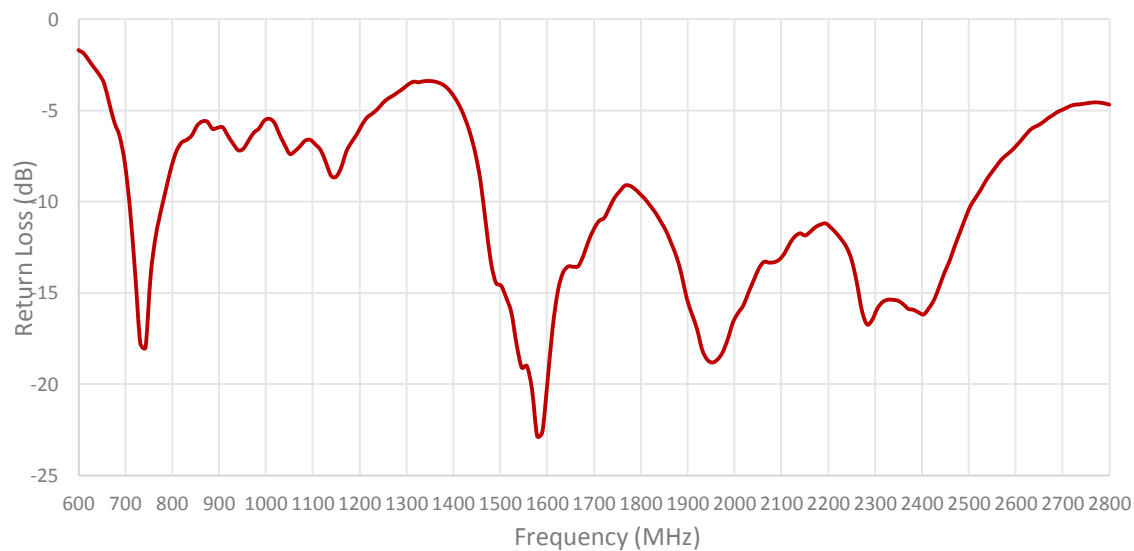
Free Space

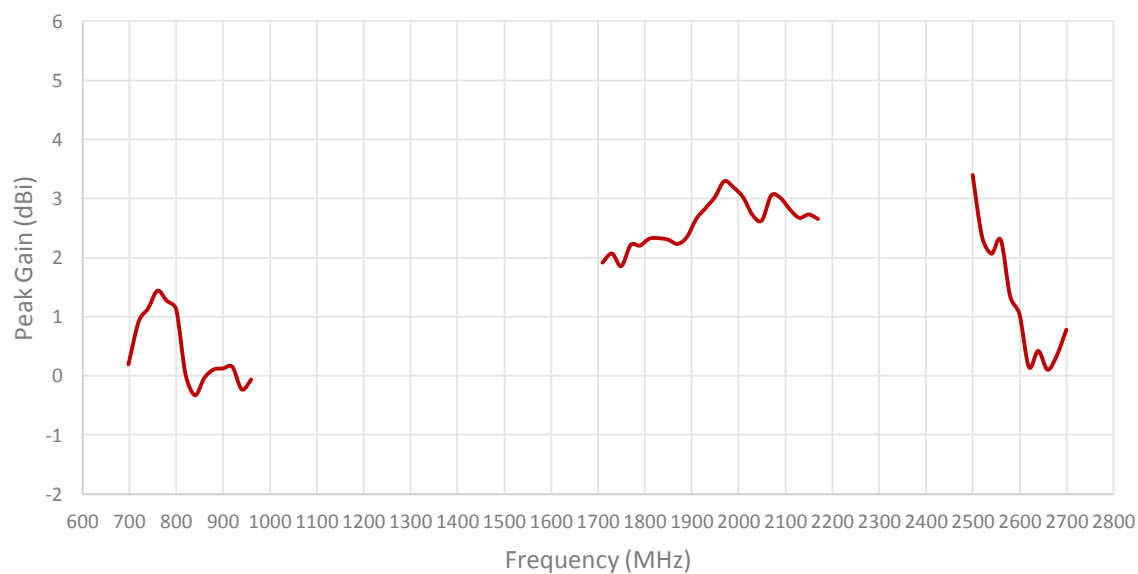
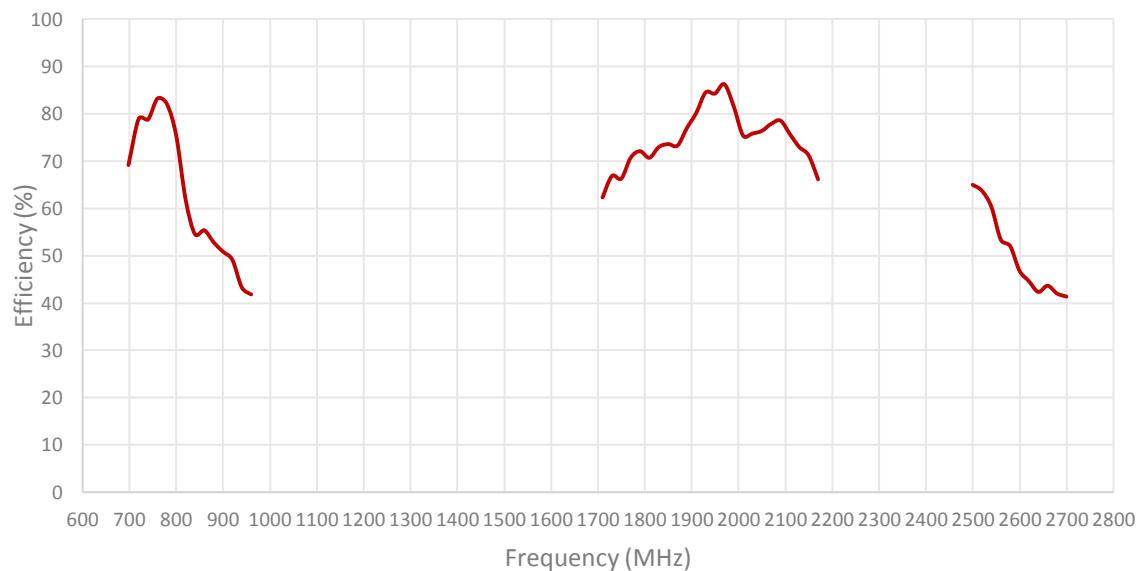
Measured in Certified CTIA 3D Anechoic Chamber

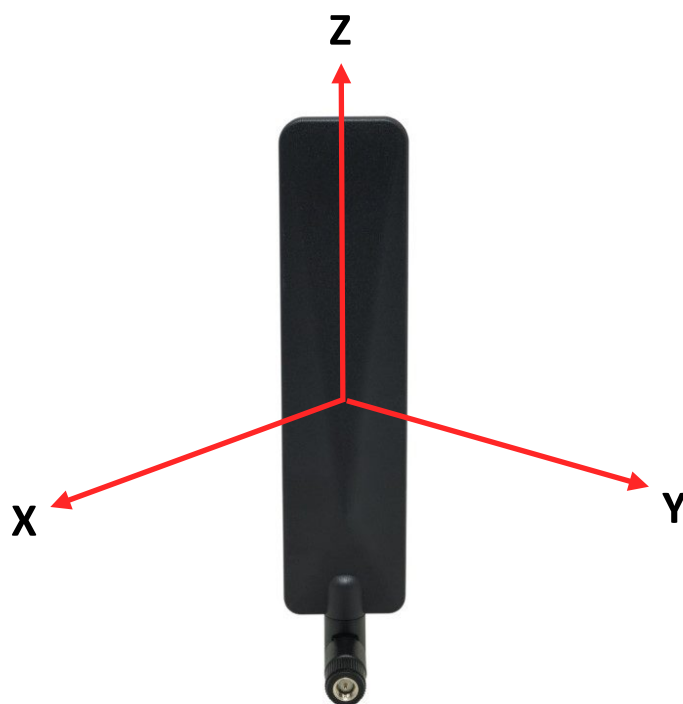
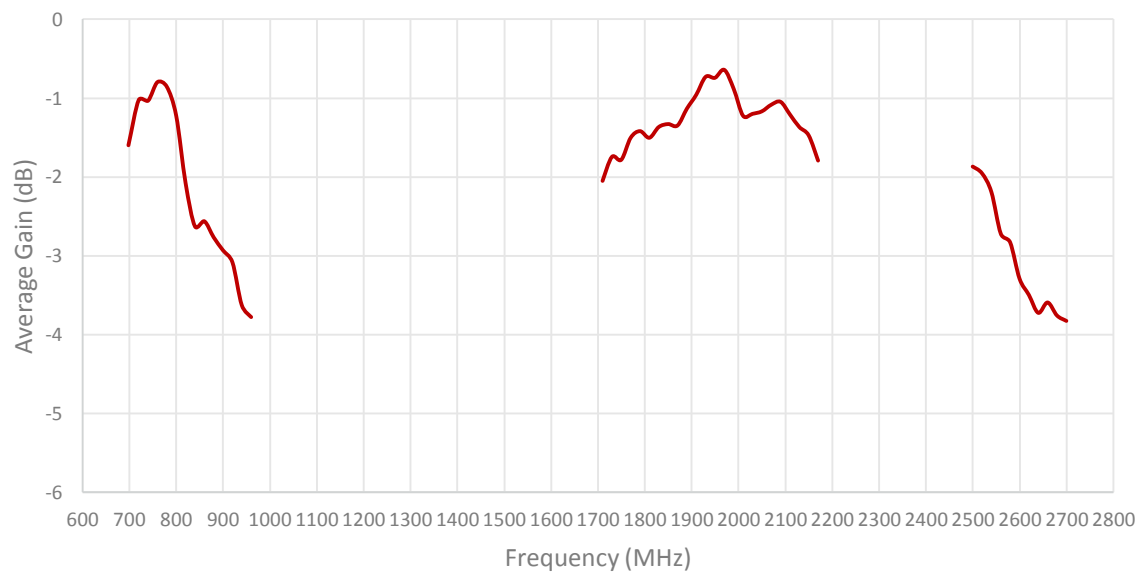
## 2. Mechanical and environmental specifications

| Specifications                   | 2JW0124-C868B    |
|----------------------------------|------------------|
| <b>Mounting Type</b>             | Connector Mount  |
| <b>Dimensions (mm)</b>           | 171 × 38 × 13.8  |
| <b>Radome</b>                    | PC/ABS UV Stable |
| <b>Radome color</b>              | Black or White   |
| <b>Connector Feature</b>         | Hinged           |
| <b>Operating Temperature (C)</b> | -40 to +85       |
| <b>Storage Temperature (C)</b>   | -40 to +85       |
| <b>Substance Compliance</b>      | RoHS, REACH      |

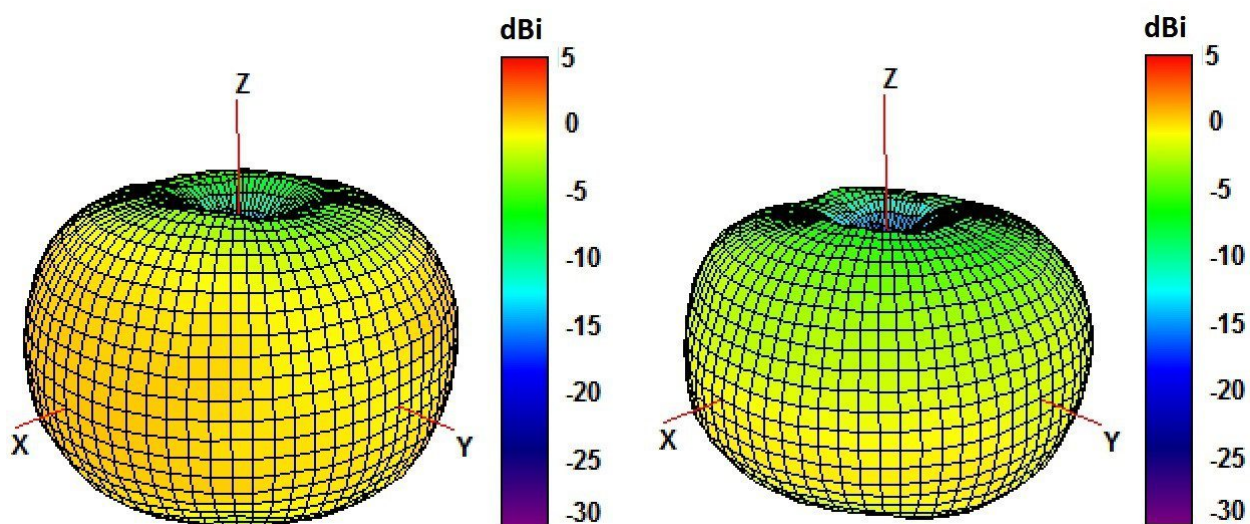
### 3. Antenna parameters



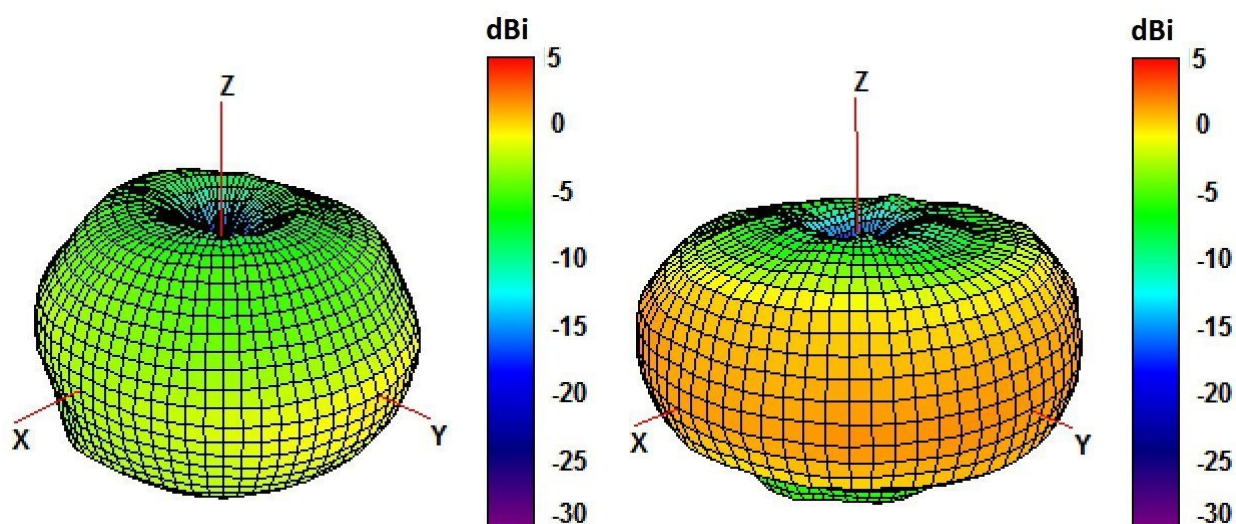




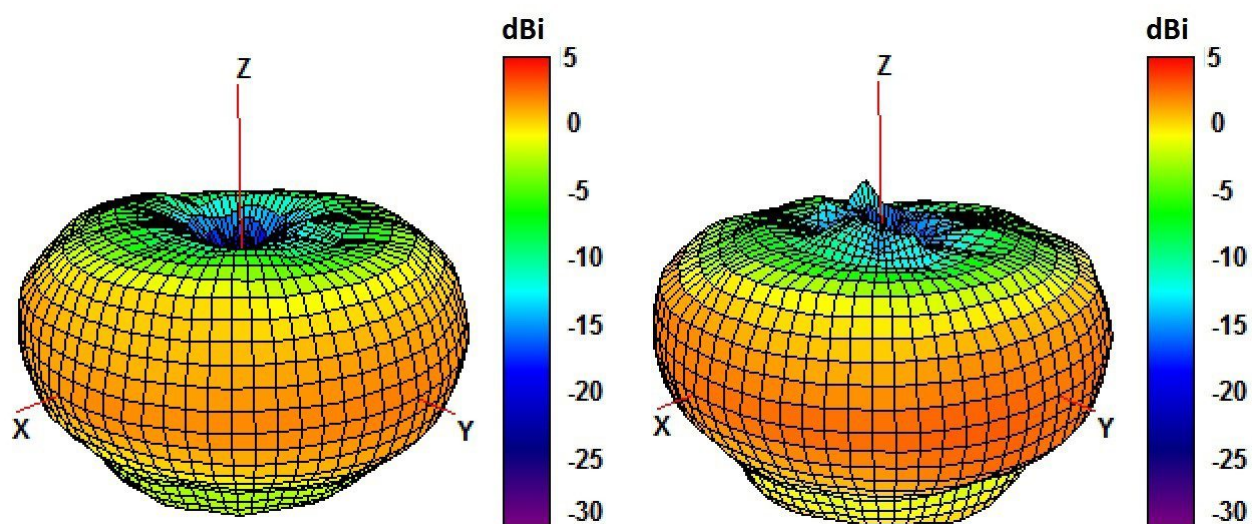
Radiation pattern reference



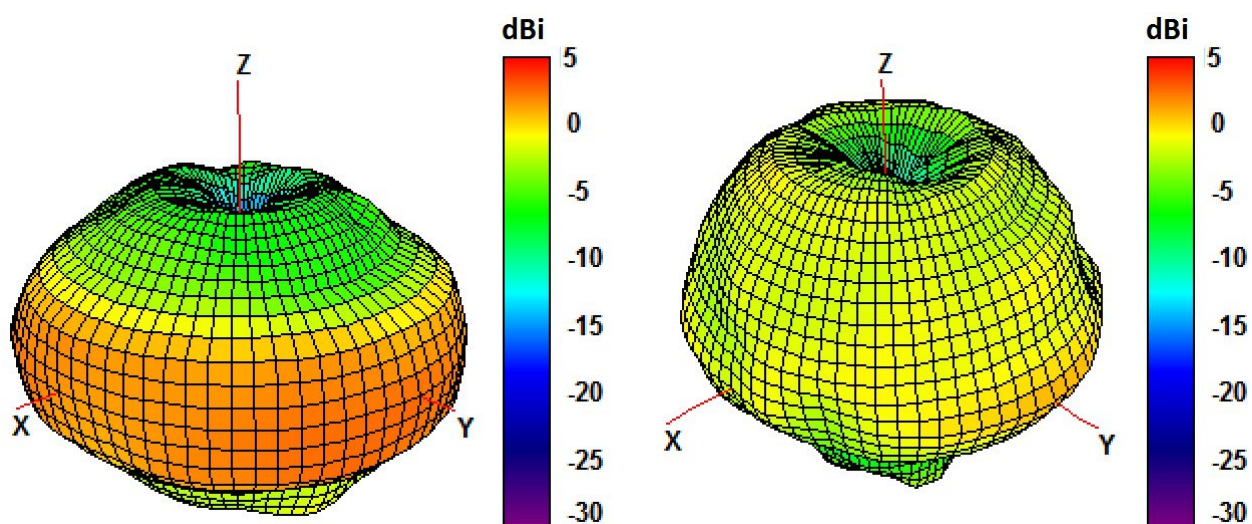
750 and 850 MHz Radiation pattern



940 and 1750 MHz Radiation pattern

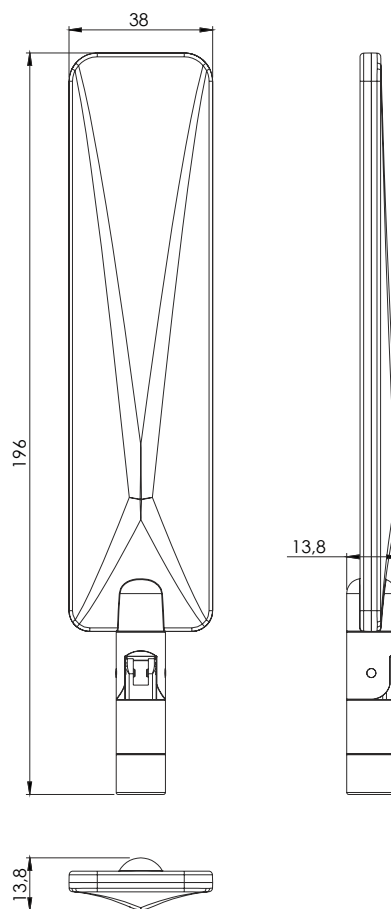
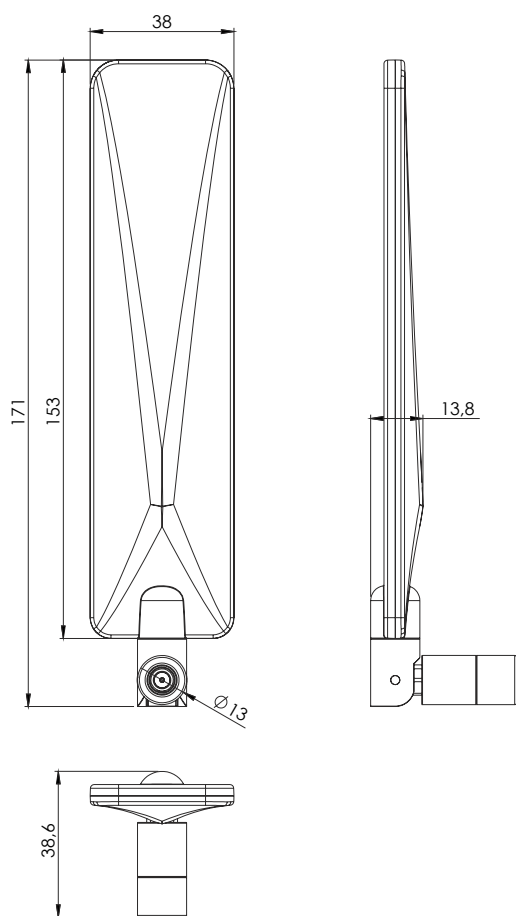


1850 and 1950 MHz Radiation pattern



2100 and 2600 MHz Radiation pattern

## 4. Antenna drawings



## 5. Antenna Images

