

# 2J7624B

## CELLULAR/LTE Screw Mount

### Key Features

#### Cable 1: CELLULAR / LTE

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

Screw Mount

Anti-Rotation Mechanism

Ground Plane Independent

Customizable Cable and Connector

Dimensions: Ø 50 x 50.8 mm

Certificates: IP67, IP69



## 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>     | ~-10.1   | ~-11.5              | ~-7.5     |
| <b>VSWR</b>                 | ~2.1:1   | ~1.8:1              | ~2.5:1    |
| <b>Efficiency (%)</b>       | ~56.4  | ~56.1               | ~37.8     |
| <b>Peak Gain (dBi)</b>      | ~2.6   | ~3.2                | ~1.4      |
| <b>Average Gain (dB)</b>    | ~-2.5  | ~-2.5               | ~-4.2     |
| <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>           | DACAR100 Standard (Other Cables Available)     |                     |           |

### Antenna Measurement Conditions:

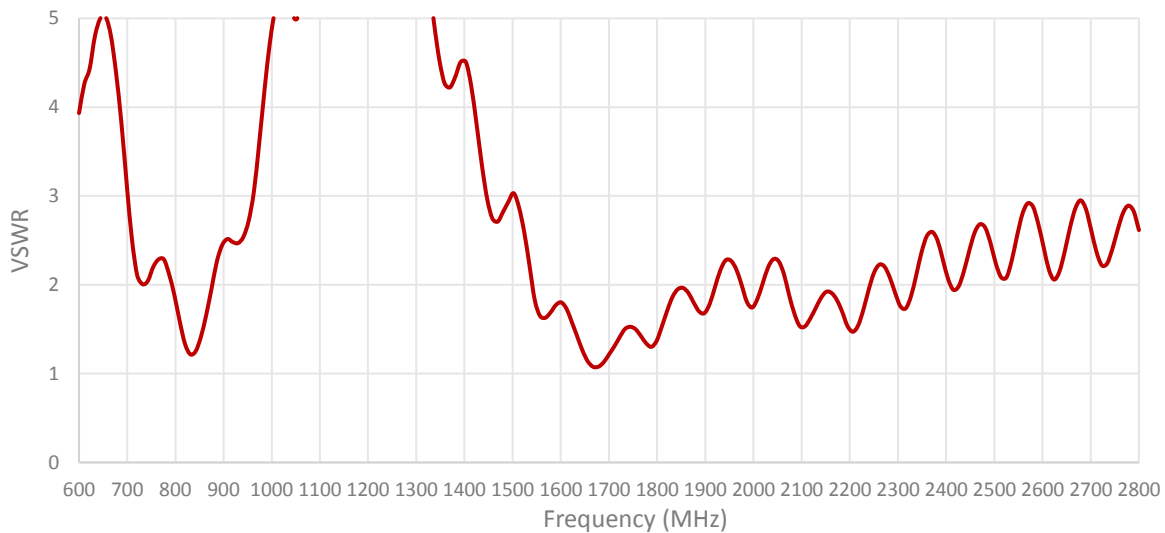
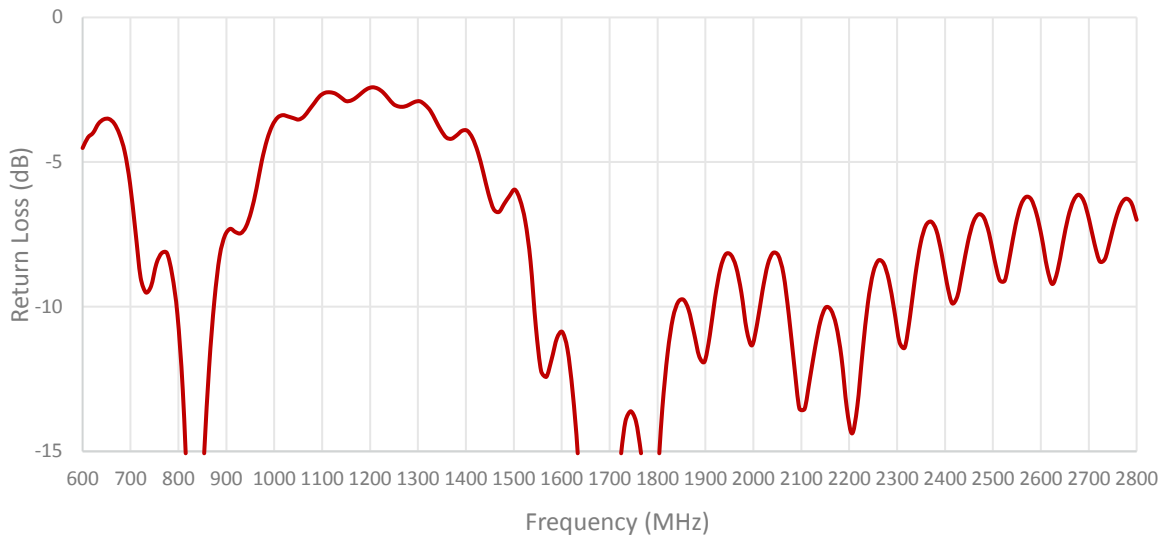
Mounted on 30 x 30 cm Ground Plane  
 DACAR100 200 cm Cable Length  
 Measured in Certified CTIA 3D Anechoic Chamber

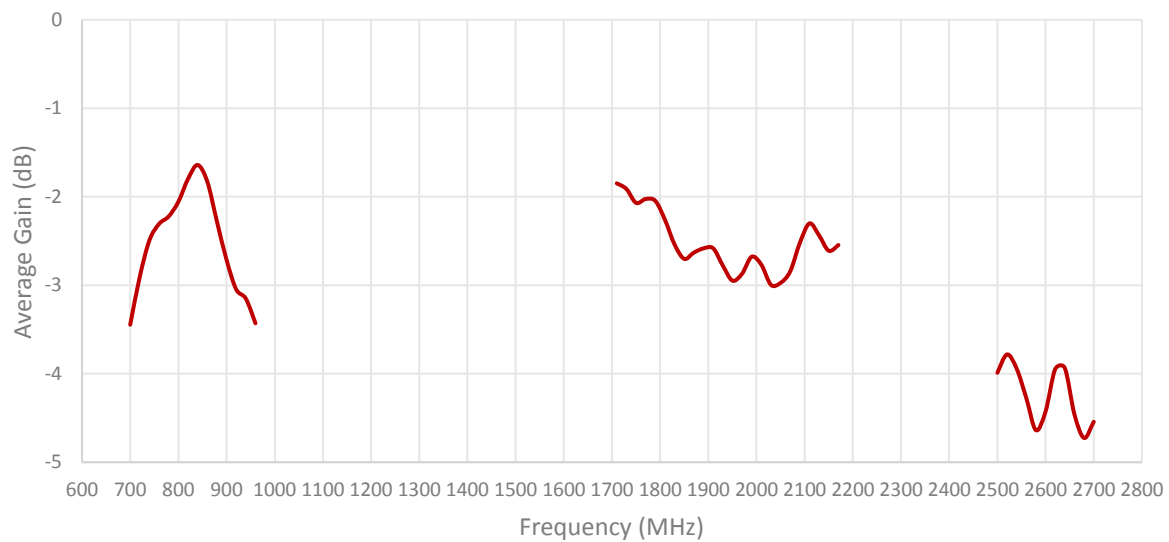
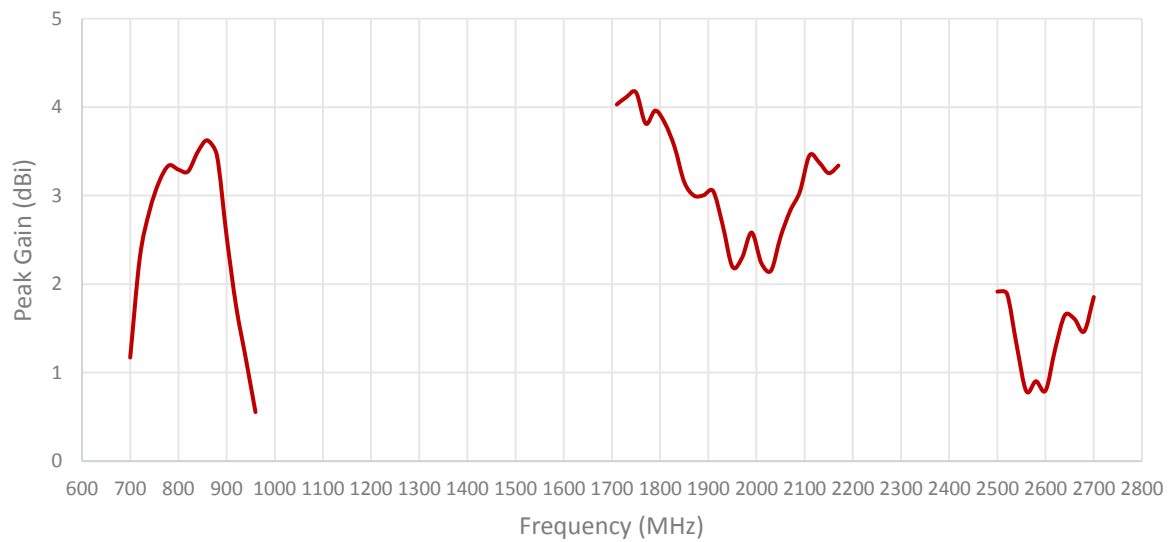
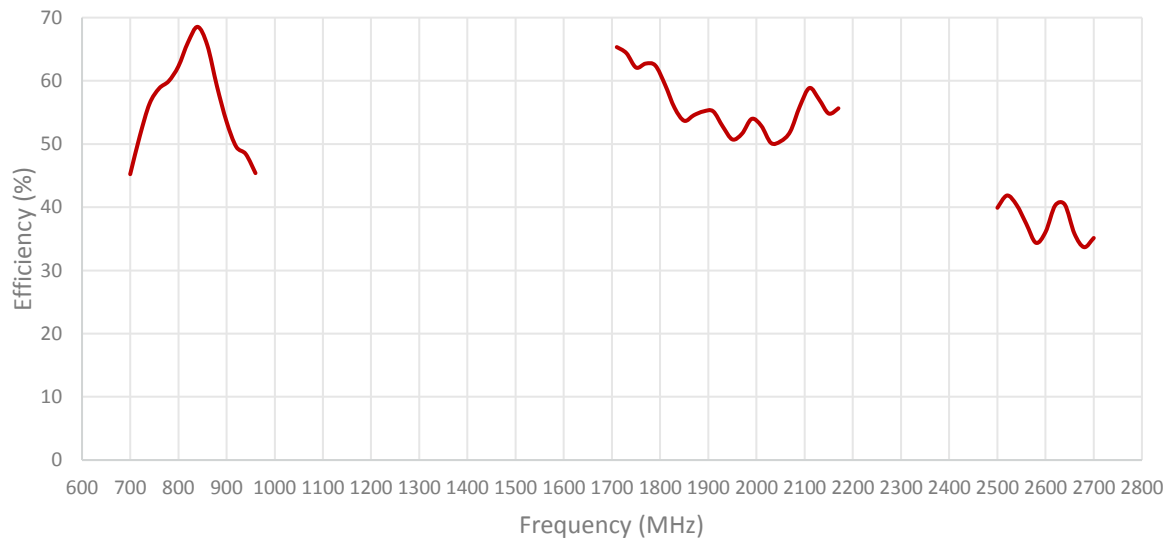
## 2. Mechanical and environmental specifications

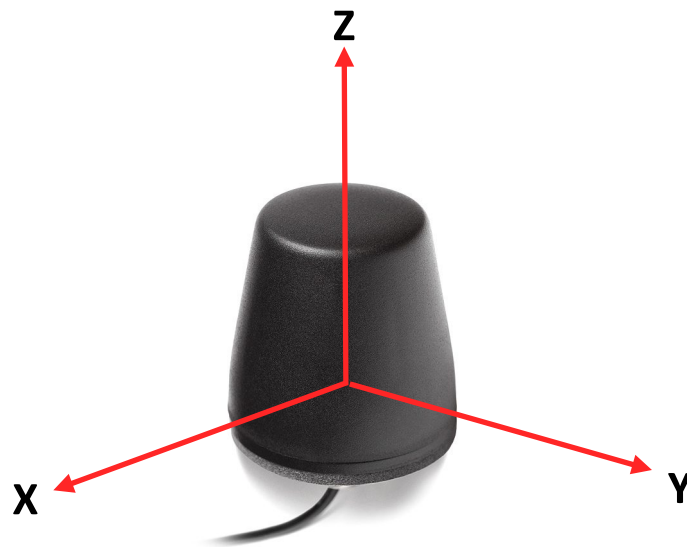
| Specifications                   | 2J7624B           |
|----------------------------------|-------------------|
| <b>Mounting Type</b>             | Screw Mount       |
| <b>Dimensions (mm)</b>           | Ø 50 x 50.8       |
| <b>Max. Tighten Torque (Nm)</b>  | 3 Nm              |
| <b>Radome Type</b>               | ASA               |
| <b>Radome Color</b>              | Black             |
| <b>Antenna Base</b>              | Zamak             |
| <b>Gasket</b>                    | Double Sided Foam |
| <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

**Table 1: CELLULAR/LTE**

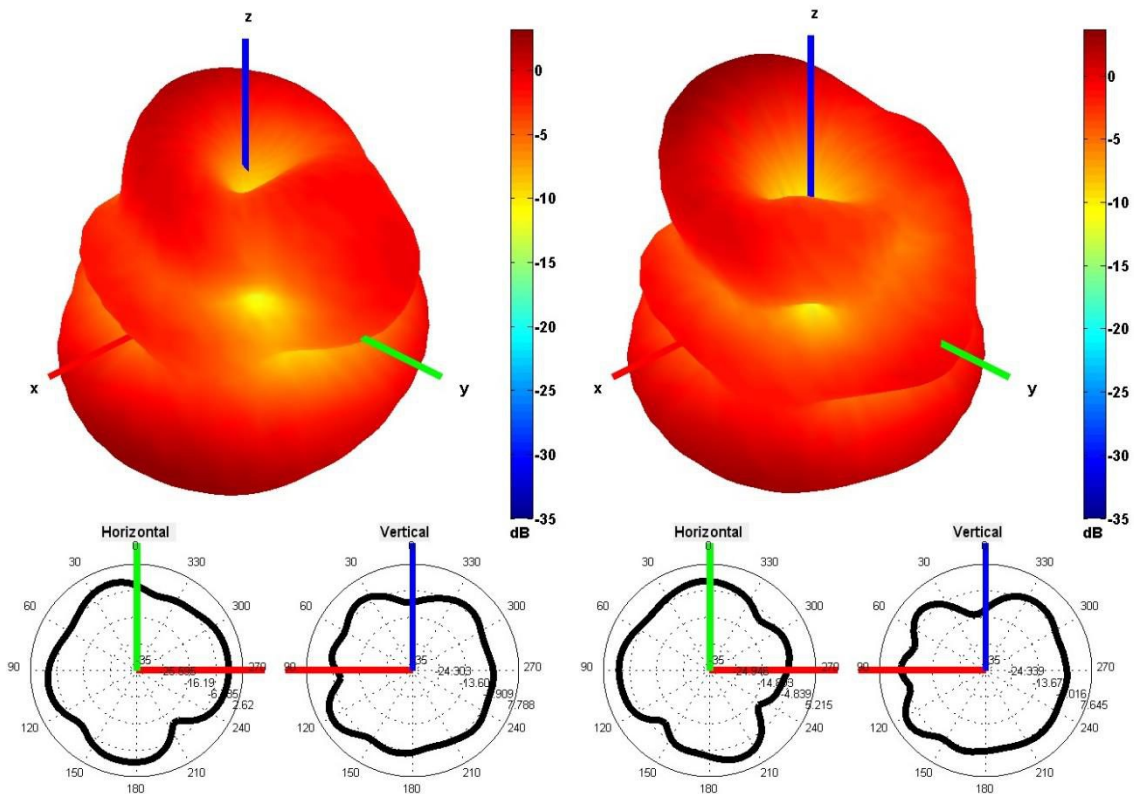




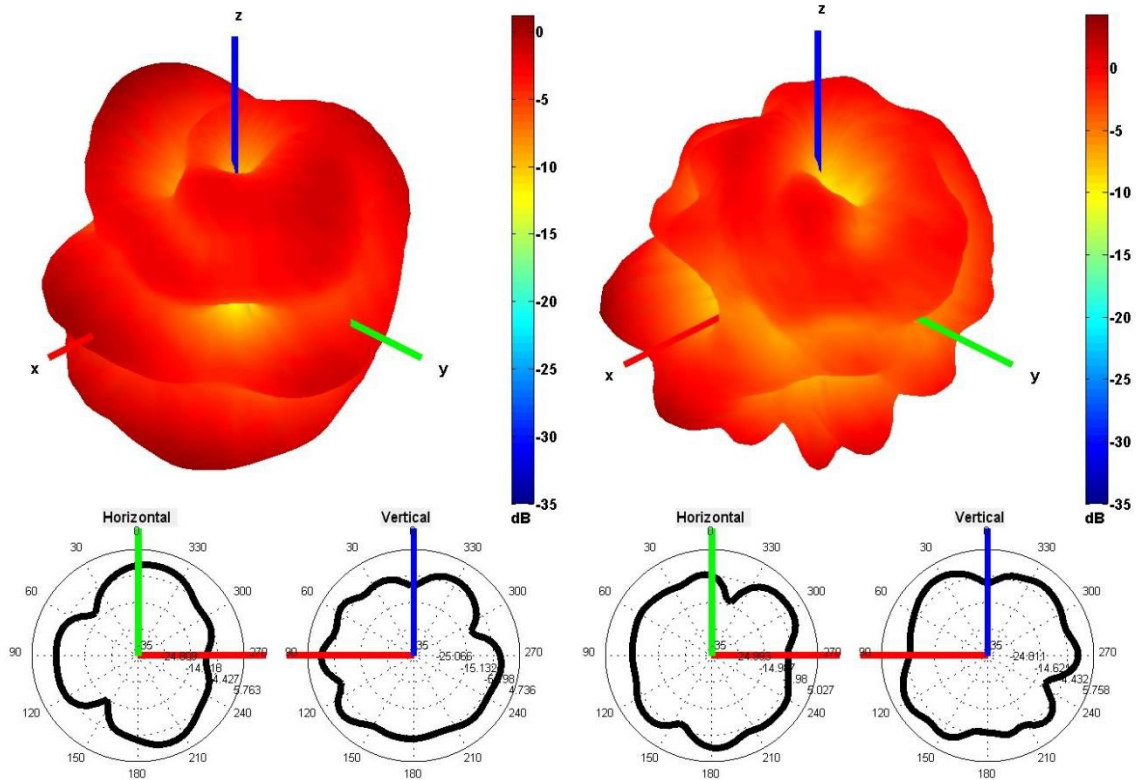


Radiation pattern reference

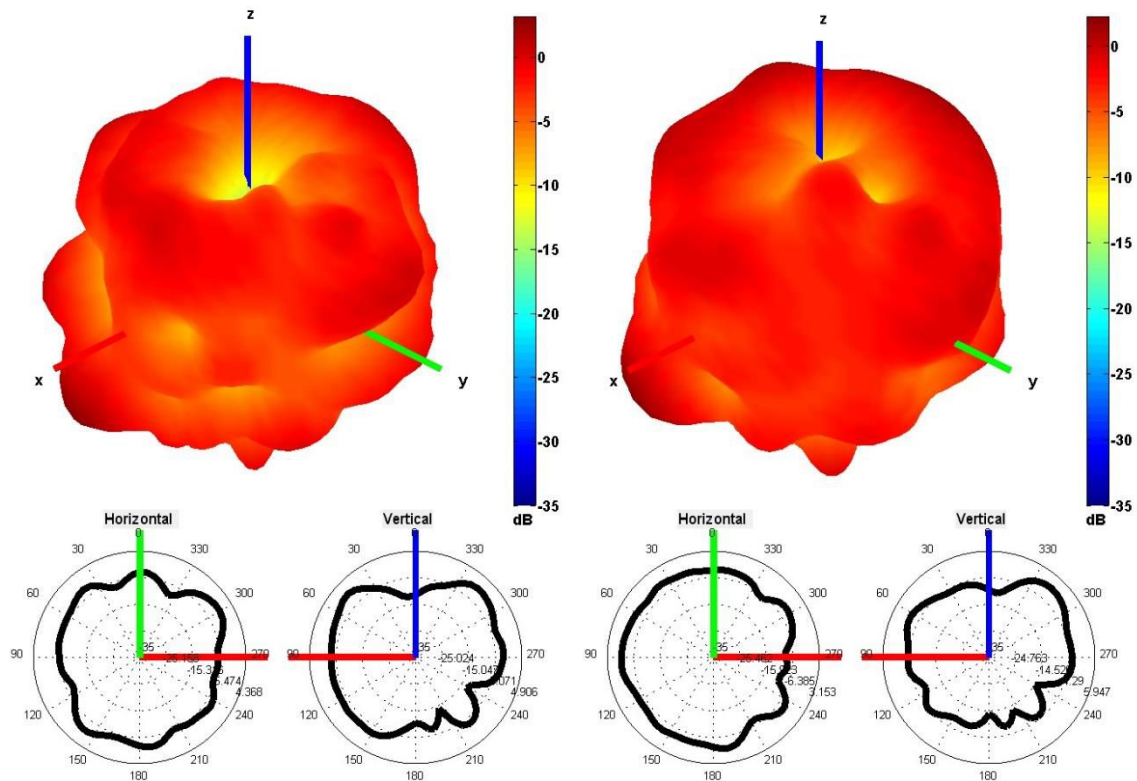
Cable 1: CELLULAR/LTE



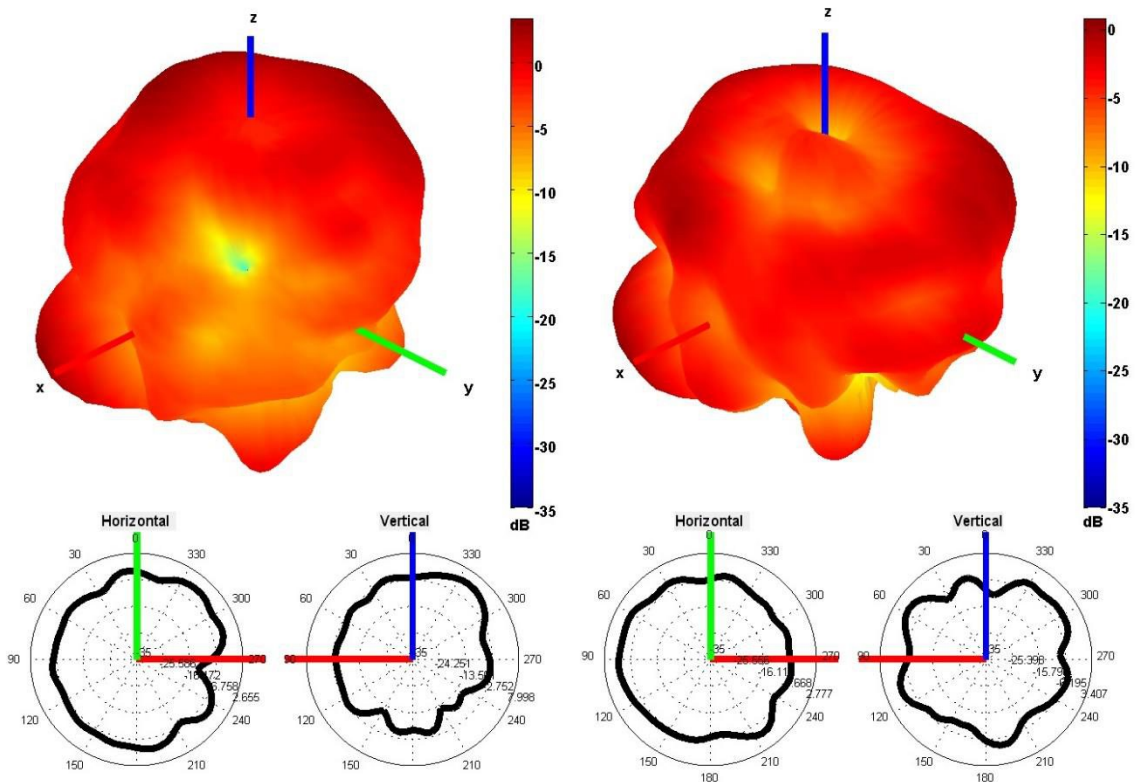
750 and 850 MHz Radiation pattern



940 and 1750 MHz Radiation pattern

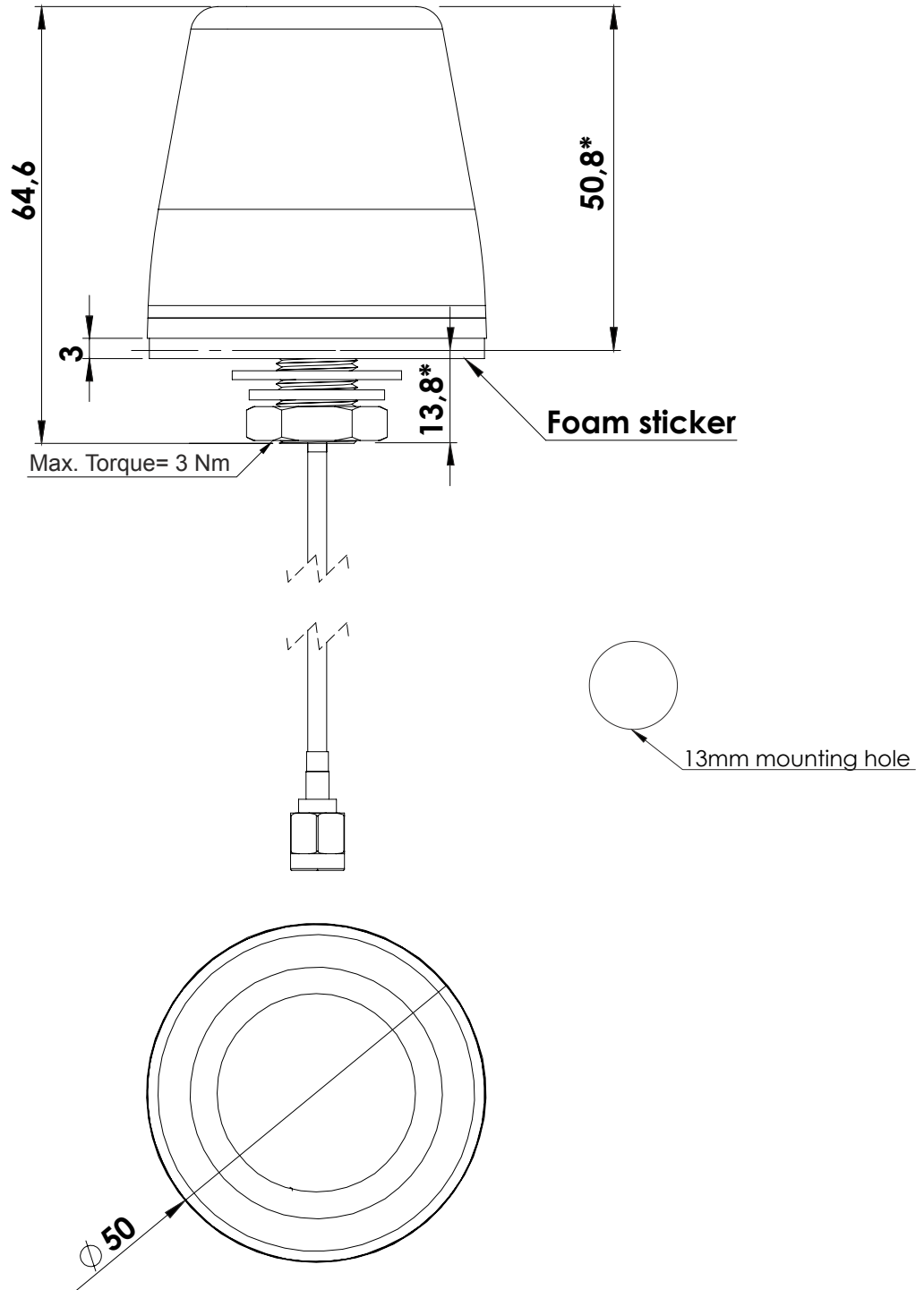


1850 and 1950 MHz Radiation pattern



2100 and 2600 MHz Radiation pattern

## 4. Antenna drawings



Note: Dimensions are in millimeters  
\*Dimensions are after mounting  
\*\*Max. Torque= 3 Nm



## 5. Antenna Images

