# 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
- Minimum 1.5 m Cable Length

Dimensions: Ø 50 x 50.8 mm
Certificates: IP67, IP69

**Note:** Antenna requires the minimum of 1.5 m Cable Length to provide best possible performance

## 1. Antenna and electrical specifications

**Cable 1**

| Parameters | CELLULAR / LTE Antenna | | |
|---|---|---|---|
| Standards | 2G,3G and 4G | | |
| Band (MHz) | 700/850/900 | 1700/1800/1900/2100 | 2600 |
| Frequency (MHz) | 698-960 | 1710-2170 | 2500-2700 |
| Return Loss (dB) | ~-10.1 | ~-11.5 | ~-7.5 |
| VSWR | ~2.1:1 | ~1.8:1 | ~2.5:1 |
| Efficiency (%) | ~56.4 | ~56.1 | ~37.8 |
| Peak Gain (dBi) | ~2.6 | ~3.2 | ~1.4 |
| Average Gain (dB) | ~-2.5 | ~-2.5 | ~-4.2 |
| Impendance (Ohm) | 50 | | |
| Polarisation | Linear | | |
| Radiation Pattern | Omni-Directional | | |
| Max. Input Power (W) | 25 | | |
| Connector Type | SMA-Male Standard (Other Connectors Available) | | |
| Cable Length | 300 cm Standard (Minimum 1.5 m Cable Lenght) | | |
| Cable Type | DACAR100 Standard (Other Cables Available) | | |

**Antenna Measurement Conditions:**

Mounted on 30 x 30 cm Ground Plane

DACAR100 200 cm Cable Length

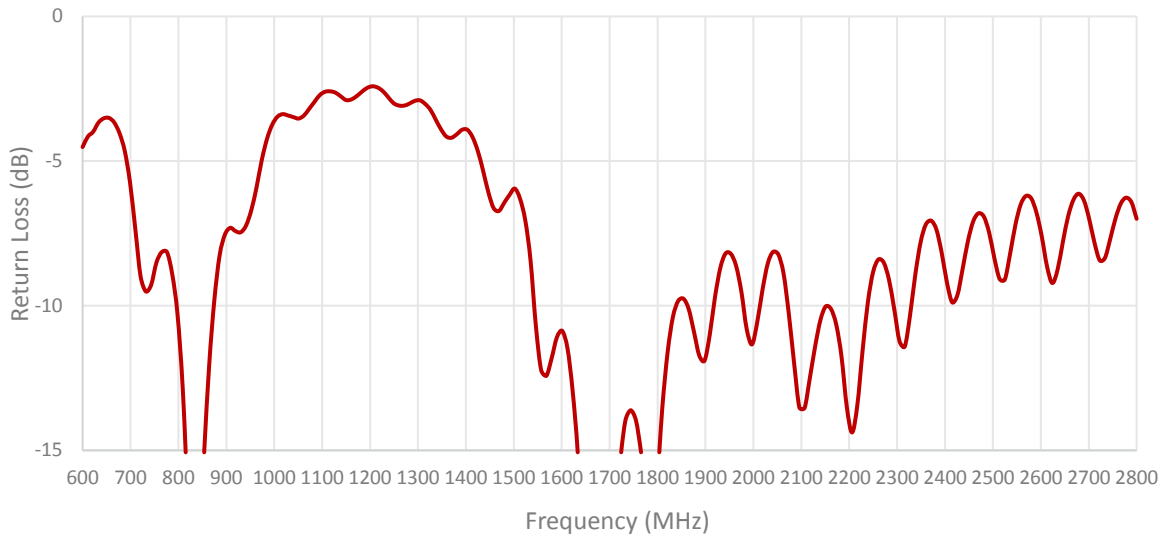
Measured in Certified CTIA 3D Anechoic Chamber

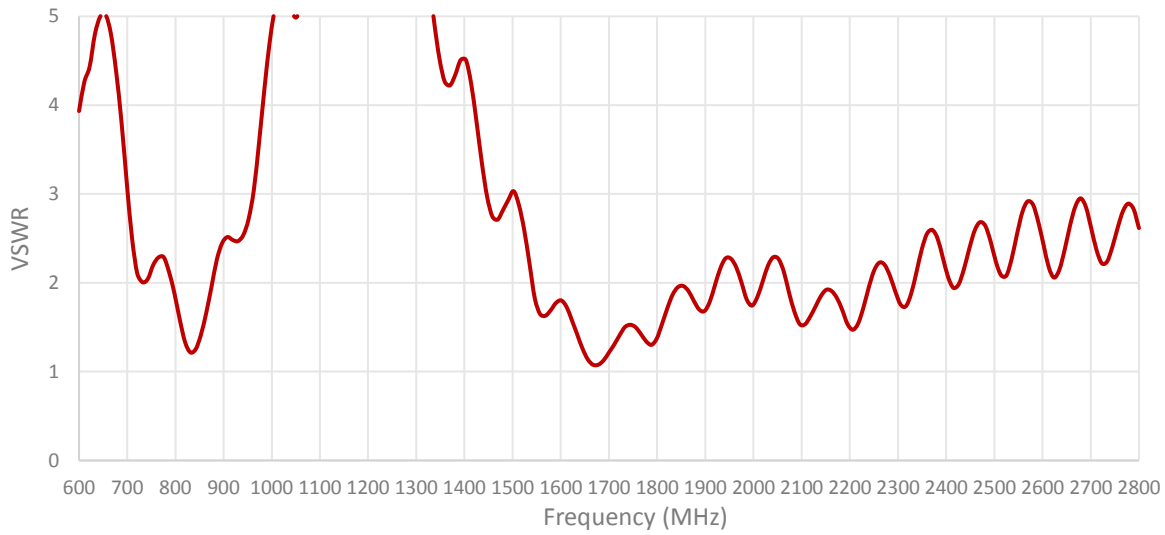
## 2. Mechanical and environmental specifications

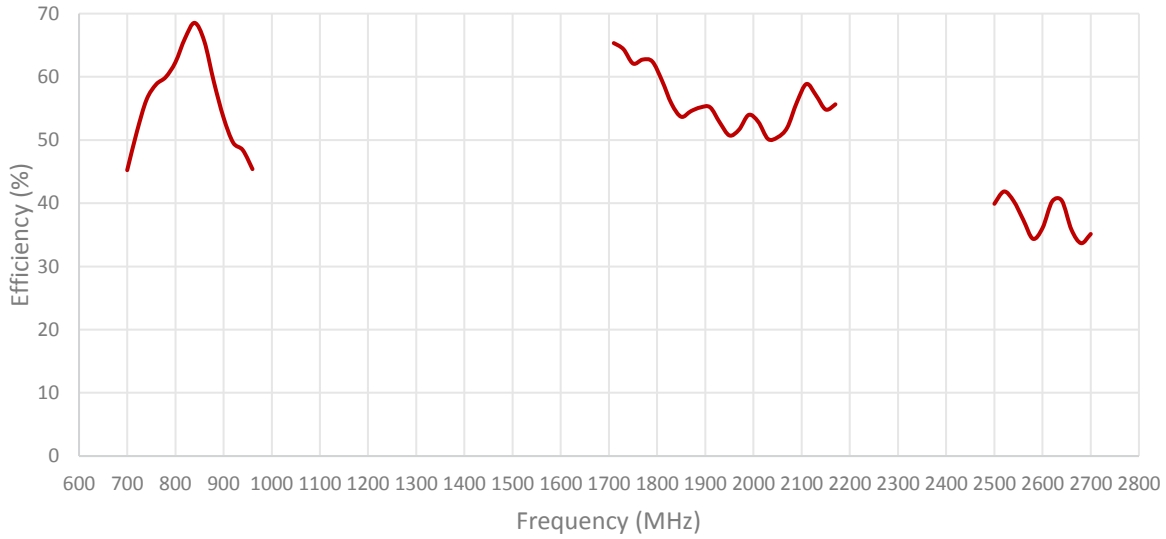
| Specifications | 2J7624B |
|---|---|
| Mounting Type | Screw Mount |
| Dimensions (mm) | Ø 50 x 50.8 |
| Radome Type | ASA |
| Radome Color | Black |
| Antenna Base | Zamak |
| Gasket | Double Sided Foam |
| Operating Temperature (C) | -40 to +85 |
| Storage Temperature (C) | -40 to +85 |
| Substance Compliance | RoHS |
| Certificates | IP67, IP69 |

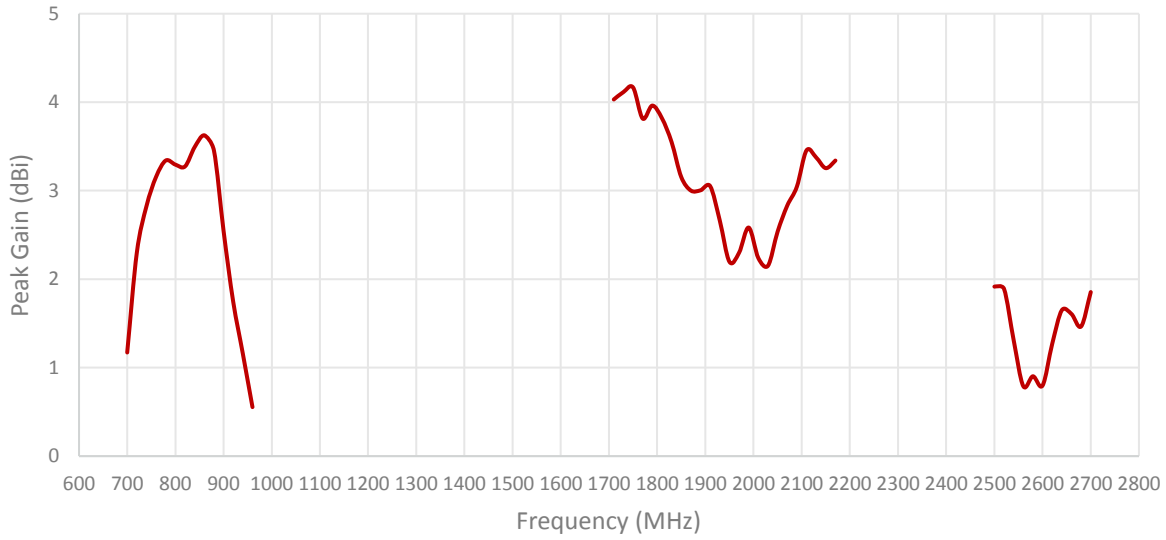
## 3. Antenna parameters

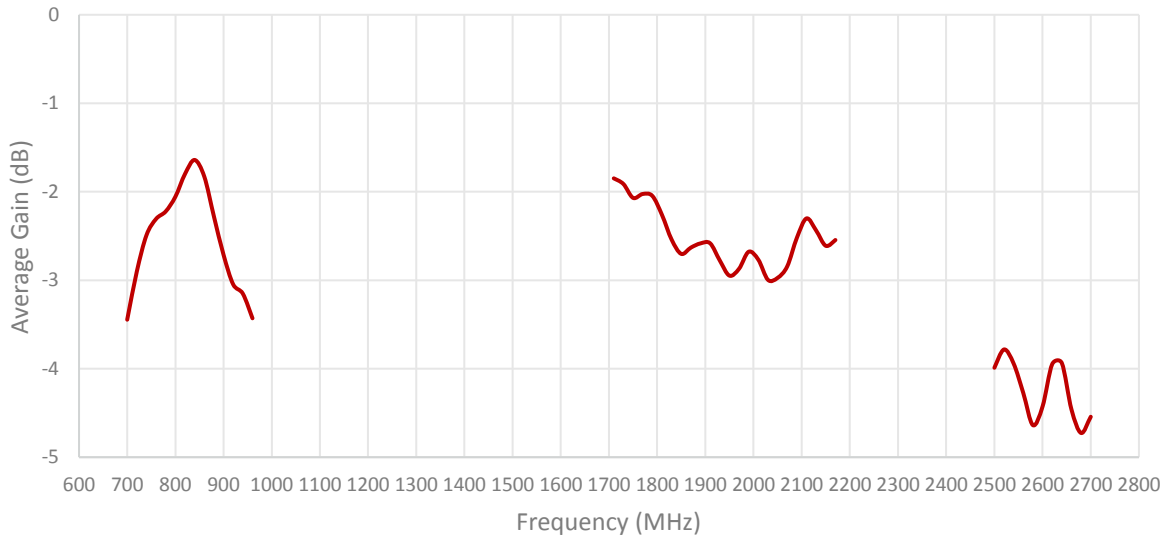
**Cable 1: CELLULAR/LTE**

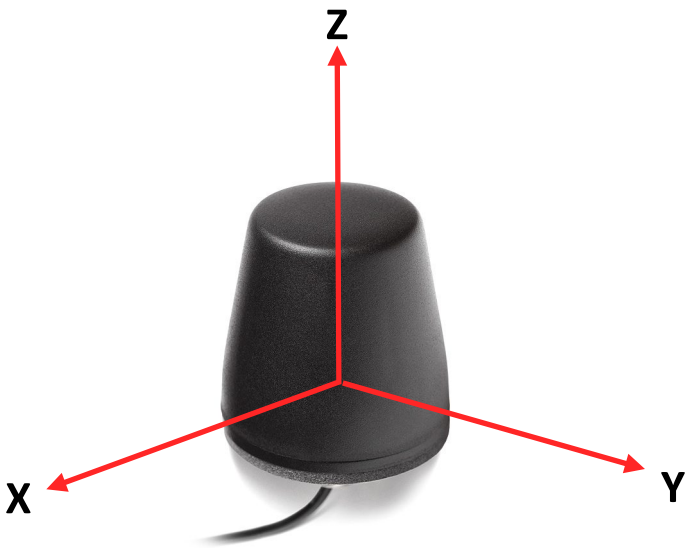



Efficiency (%)
70
60
50
40
30
20
10
0
600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200 2300 2400 2500 2600 2700 2800
Frequency (MHz)

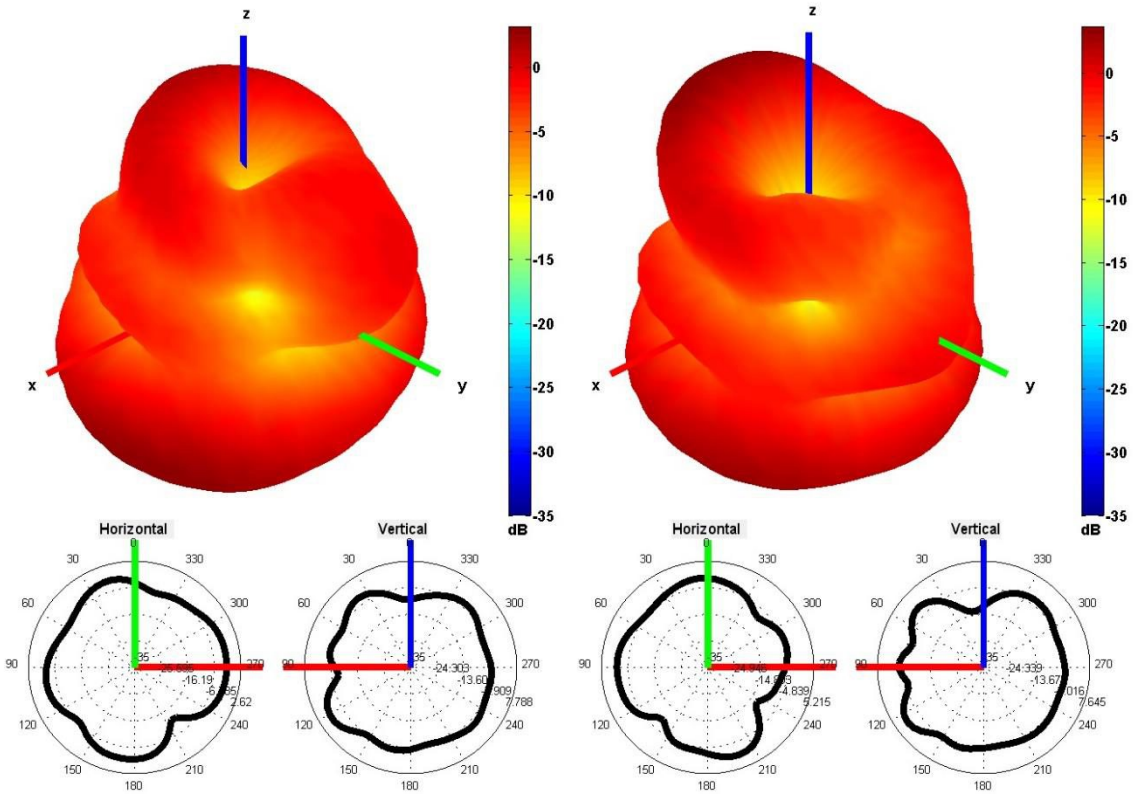

Peak Gain (dBi)
5
4
3
2
1
0
600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200 2300 2400 2500 2600 2700 2800
Frequency (MHz)


Average Gain (dB)
0
-1
-2
-3
-4
-5
600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200 2300 2400 2500 2600 2700 2800
Frequency (MHz)

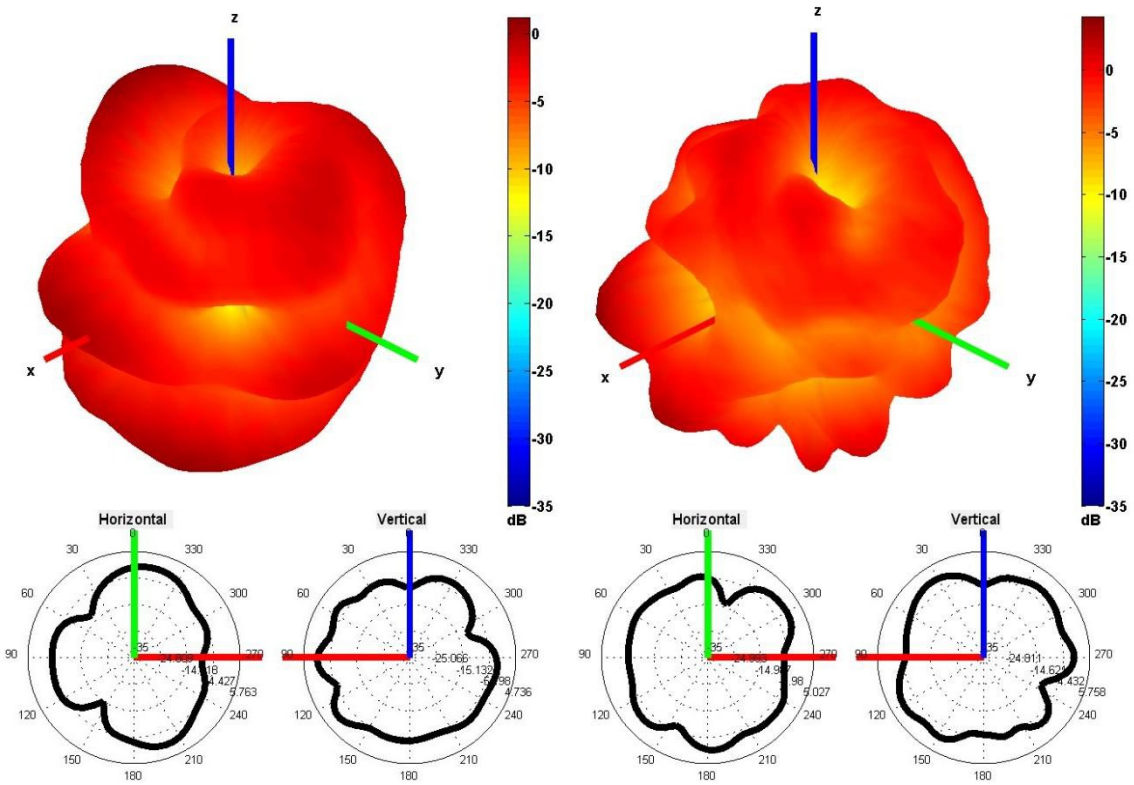



Radiation pattern reference

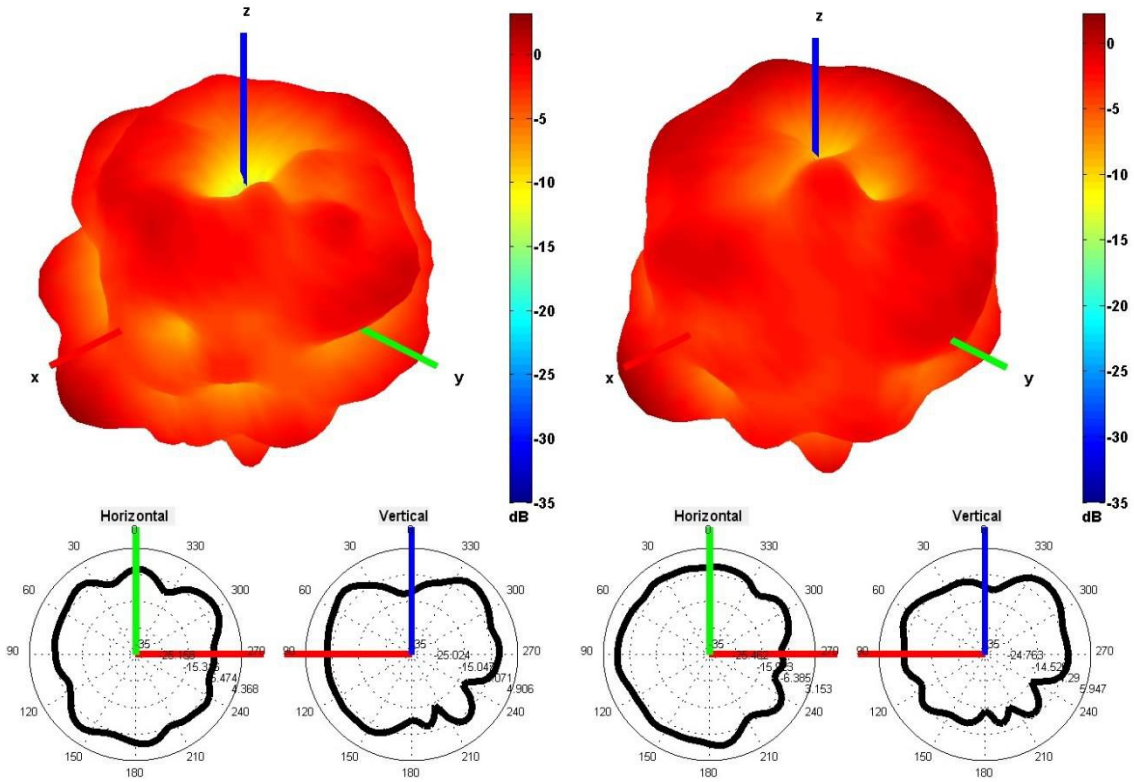
**Cable 1: CELLULAR/LTE**



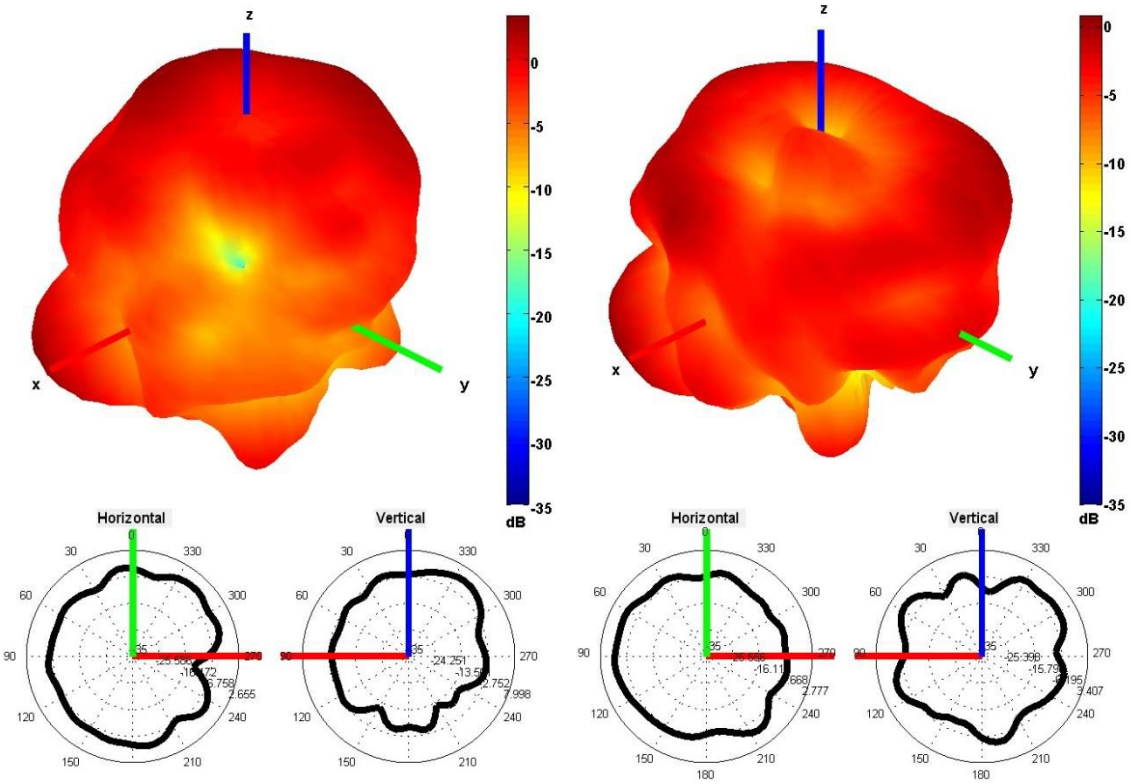

750 and 850 MHz Radiation pattern




940 and 1750 MHz Radiation pattern

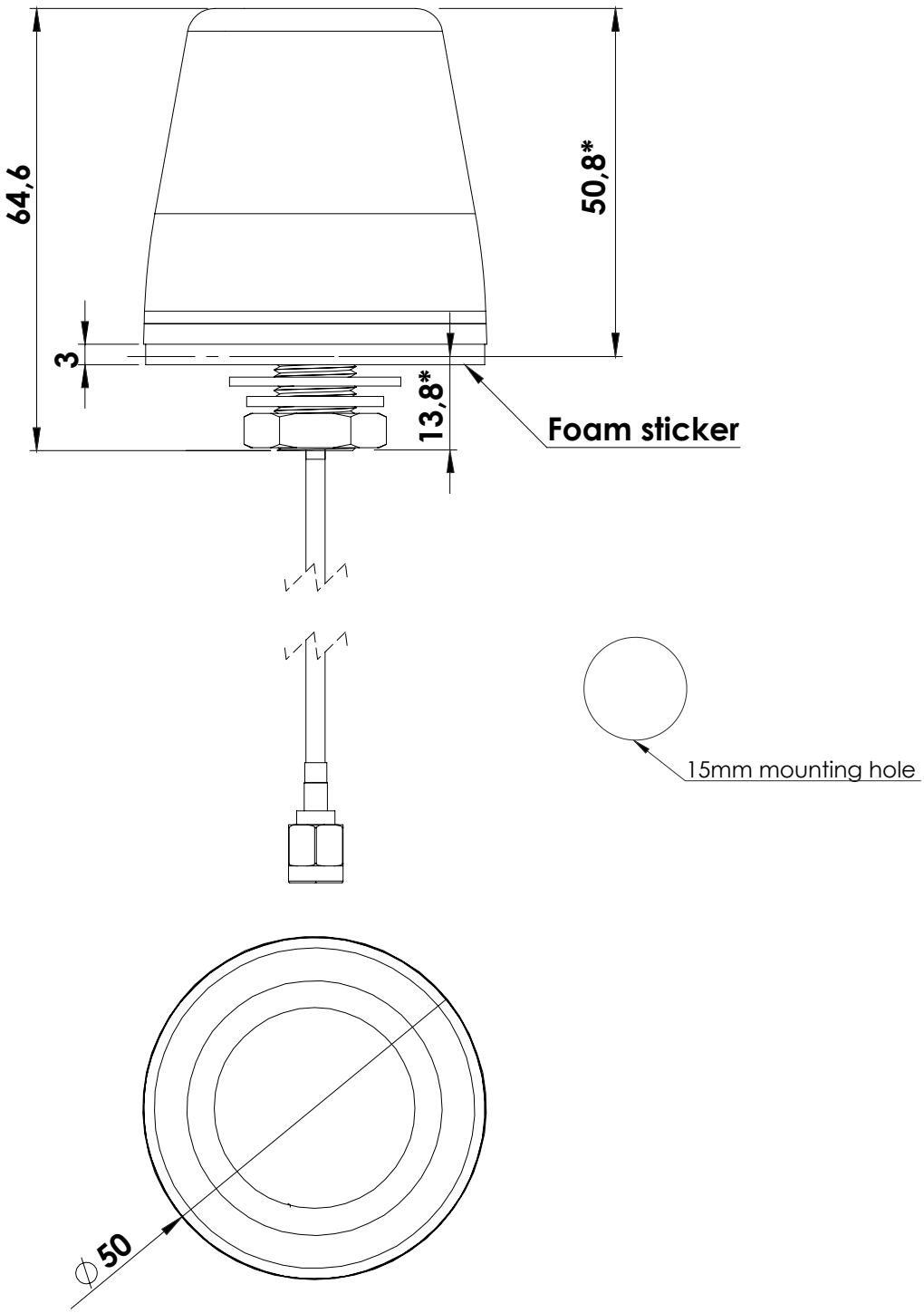



1850 and 1950 MHz Radiation pattern




2100 and 2600 MHz Radiation pattern

## 4. Antenna drawings




*** Dimensions after mounting**

## 5. Antenna Images