

2J6033BGF

GNSS and Iridium Screw Mount

Key Features

Cable 1: GPS/GLONASS/QZSS/Galileo

- 1575-1606 MHz

Cable 2: Iridium

- 1616-1627 MHz

Screw Mount

Iridium Certified

Low Profile

High Performance

Pre-Filtered GNSS

Ground Plane Independent

Customizable Cable and Connector

Dimensions 80 x 74 x 14.7 mm

Certificates: IP67



Note: 19mm Thread is Default Option. See Drawing for other Thread Options available.



1. Antenna and electrical specifications

Cable 1

| Parameters | GNSS Ceramic Active Antenna | |
|---------------------------------|--|-----------|
| Standards | GPS/QZSS/Galileo | GLONASS |
| Band (MHz) | 1575 | 1602 |
| Frequency (MHz) | 1575.42 | 1598-1606 |
| Patch Size (mm) | 25 x 25 x 4 | |
| Return Loss (dB) | <=-15.0 dB | |
| VSWR | <=1.4:1 dB | |
| Impedance (Ohms) | 50 | |
| Radiation Pattern | Hemispherical | |
| Polarization | RHCP | |
| Saw Filter Type | Pre-filter | |
| Active Gain (dB) | 28 @ 2.7 V | |
| Noise Figure (dB) | 1.5 Typ | |
| Voltage (V) | 1.5 – 3.6 | |
| Current Consumption (mA) | 9 Typ | |
| Power Consumption (mW) | 24.3 Typ | |
| ESD Protection (kV) | 2kV | |
| Connector Type | SMA-Male Standard (Other Connectors Available) | |
| Cable Length | 300 cm Standard (Any Cable Length Available) | |
| Cable Type | LL100 Standard (Other Cables Available) | |

Cable 2

| Parameters | Iridium Antenna |
|--------------------------|--|
| Standards | Iridium |
| Band (MHz) | 1621 |
| Frequency (MHz) | 1616-1627 |
| Return Loss (dB) | ~-18.8 |
| VSWR | ~1.2:1 |
| Efficiency (%) | ~76 |
| Peak Gain (dBic) | ~4.5 |
| Average Gain (dB) | ~-1.1 |
| Impedance | 50 |
| Axial Ratio (dB) | 3 max |
| Radiation Pattern | Hemispherical |
| Polarization | RHCP |
| Connector Type | SMA-Male Standard (Other Connectors Available) |
| Cable Length | 300 cm Standard (Any Cable Length Available) |
| Cable Type | LL100 Standard (Other Cables Available) |

Antenna Measurement Conditions:

Mounted on 70 x 70 mm Ground Plane

No Cable

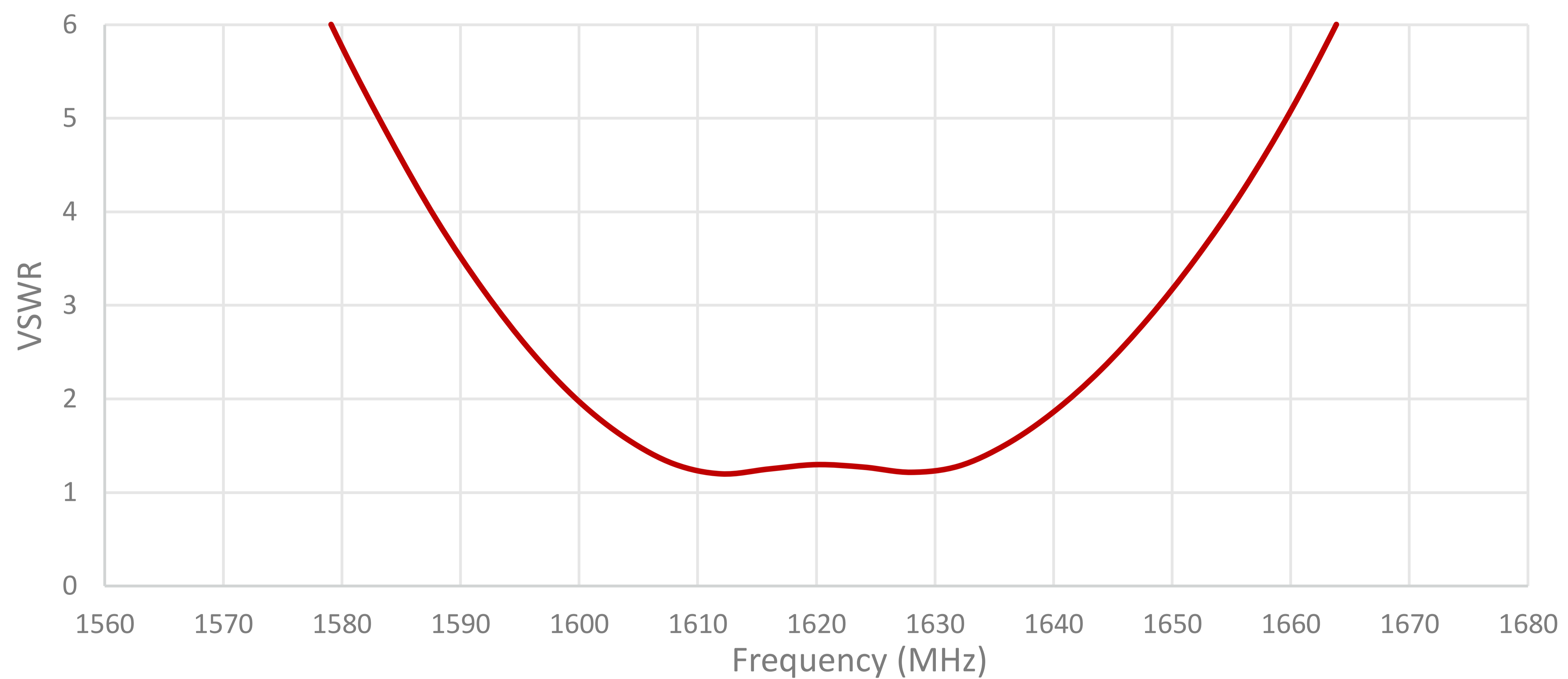
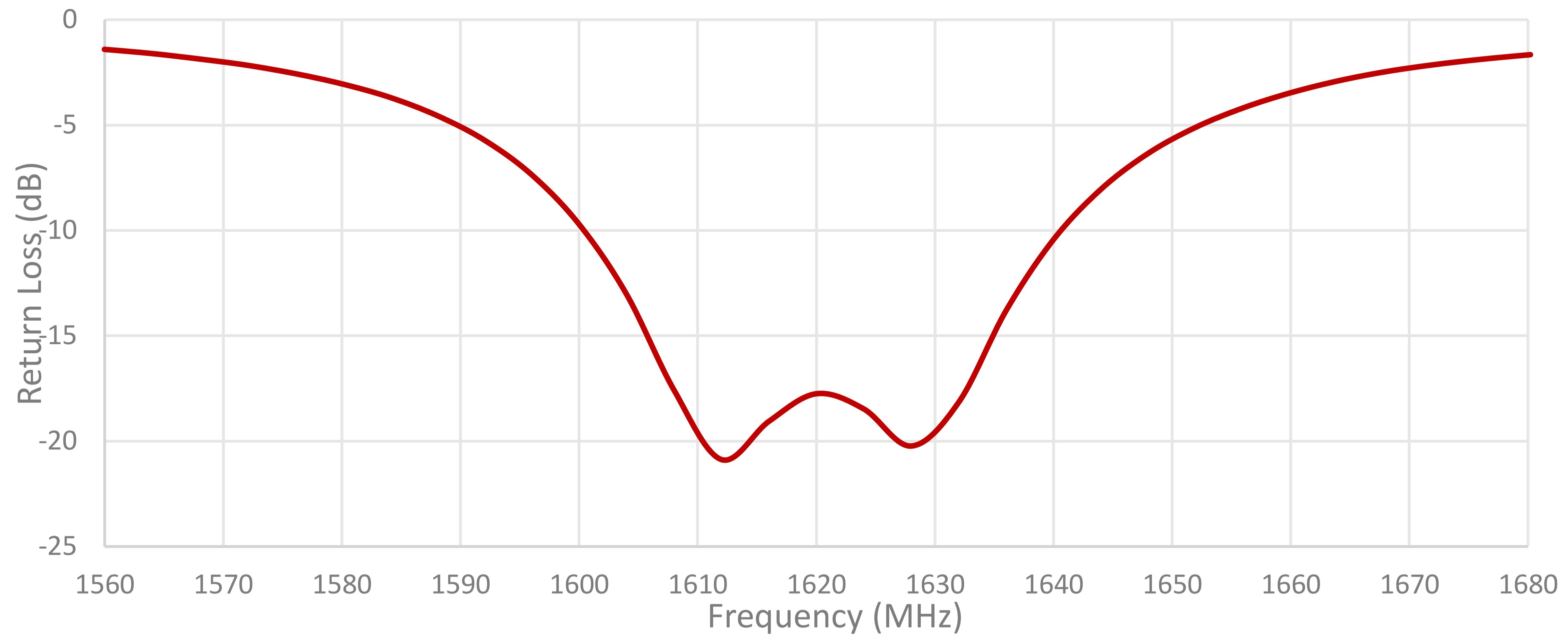
Measured in Certified CTIA 3D Anechoic Chamber

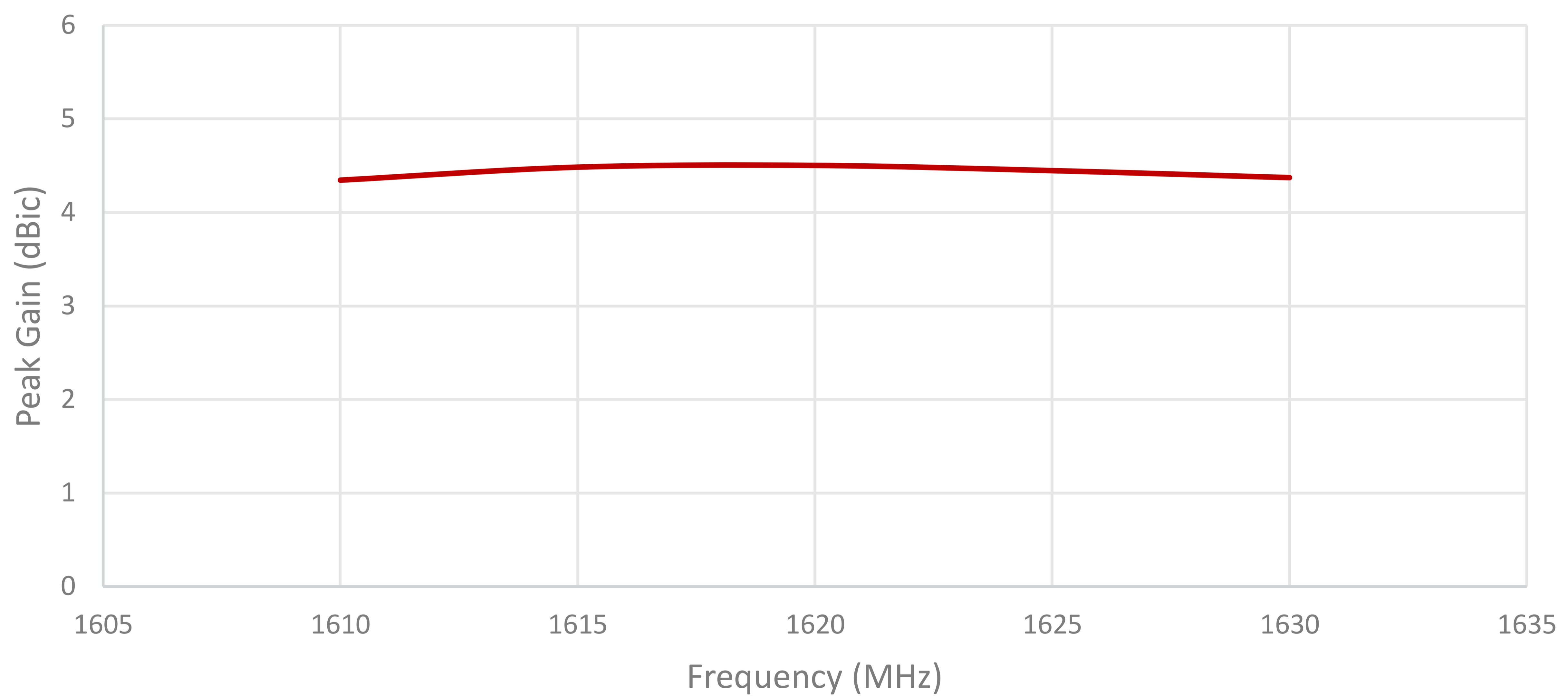
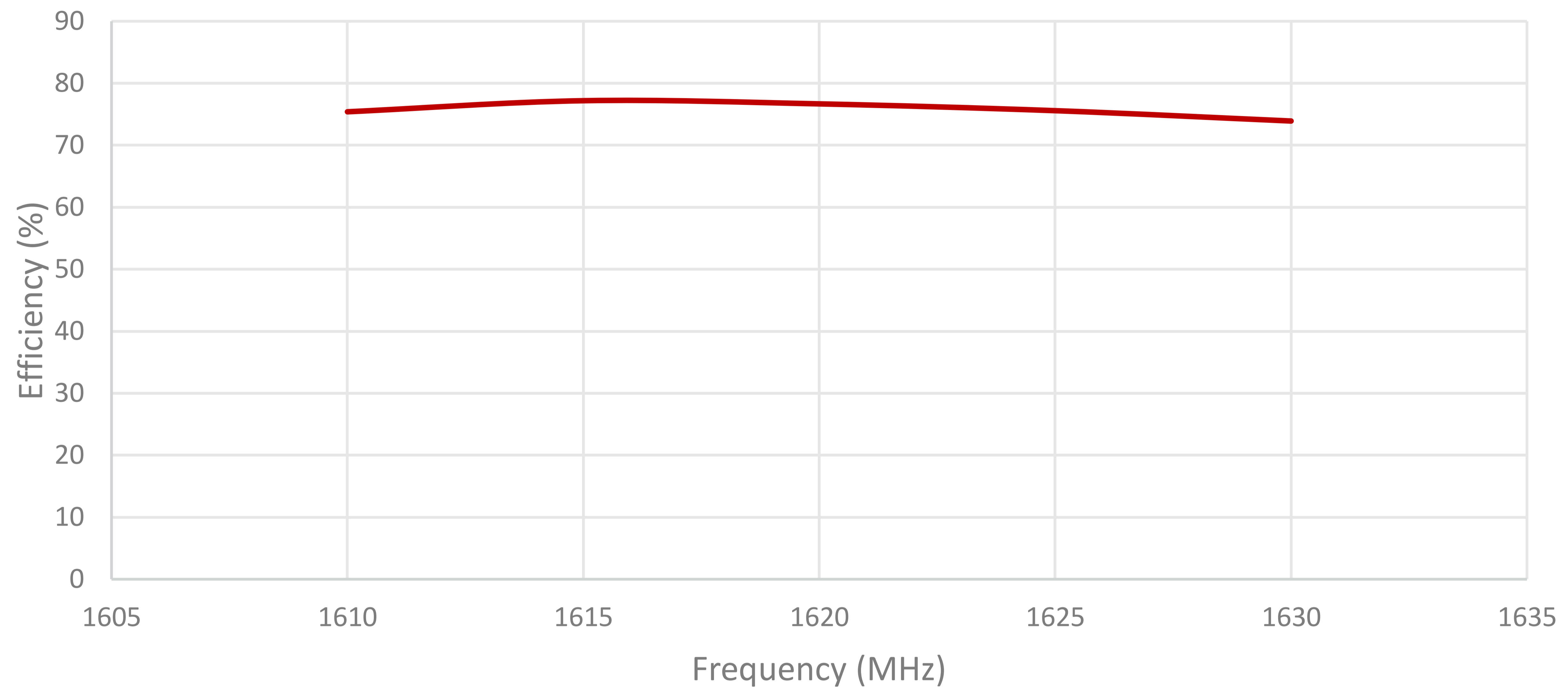
2. Mechanical and environmental specifications

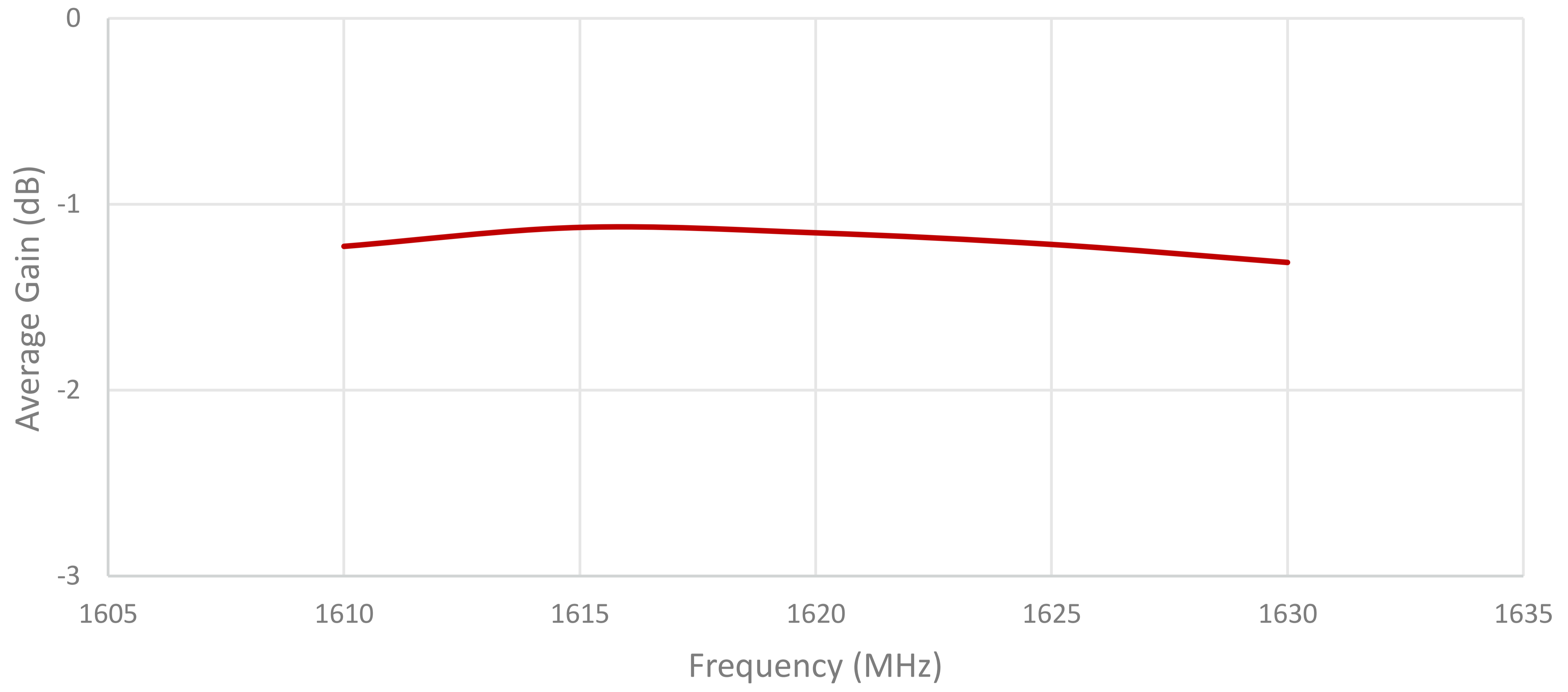
| Specifications | 2J6033BGF |
|----------------------------------|----------------|
| Mounting Type | Screw Mount |
| Dimensions (mm) | 80 x 74 x 14.7 |
| Max. Tighten Torque (Nm) | 5 Nm |
| Radome | ABS |
| Radome color | Black |
| Operating Temperature (C) | -40 to +85 |
| Storage Temperature (C) | -40 to +85 |
| Substance Compliance | RoHS |
| Certificates | IP67 |

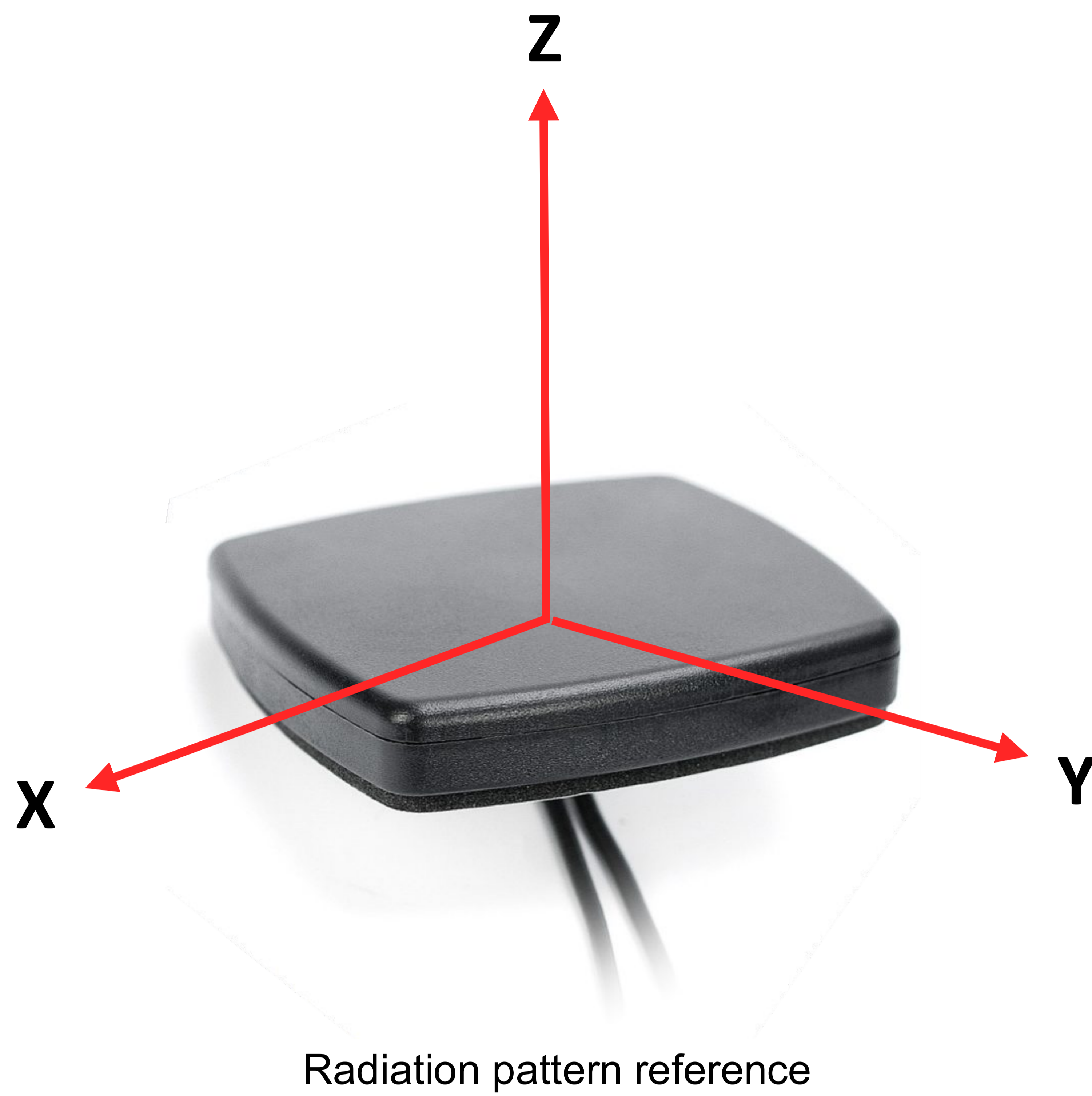
3. Antenna parameters

Cable 2: IRIDIUM

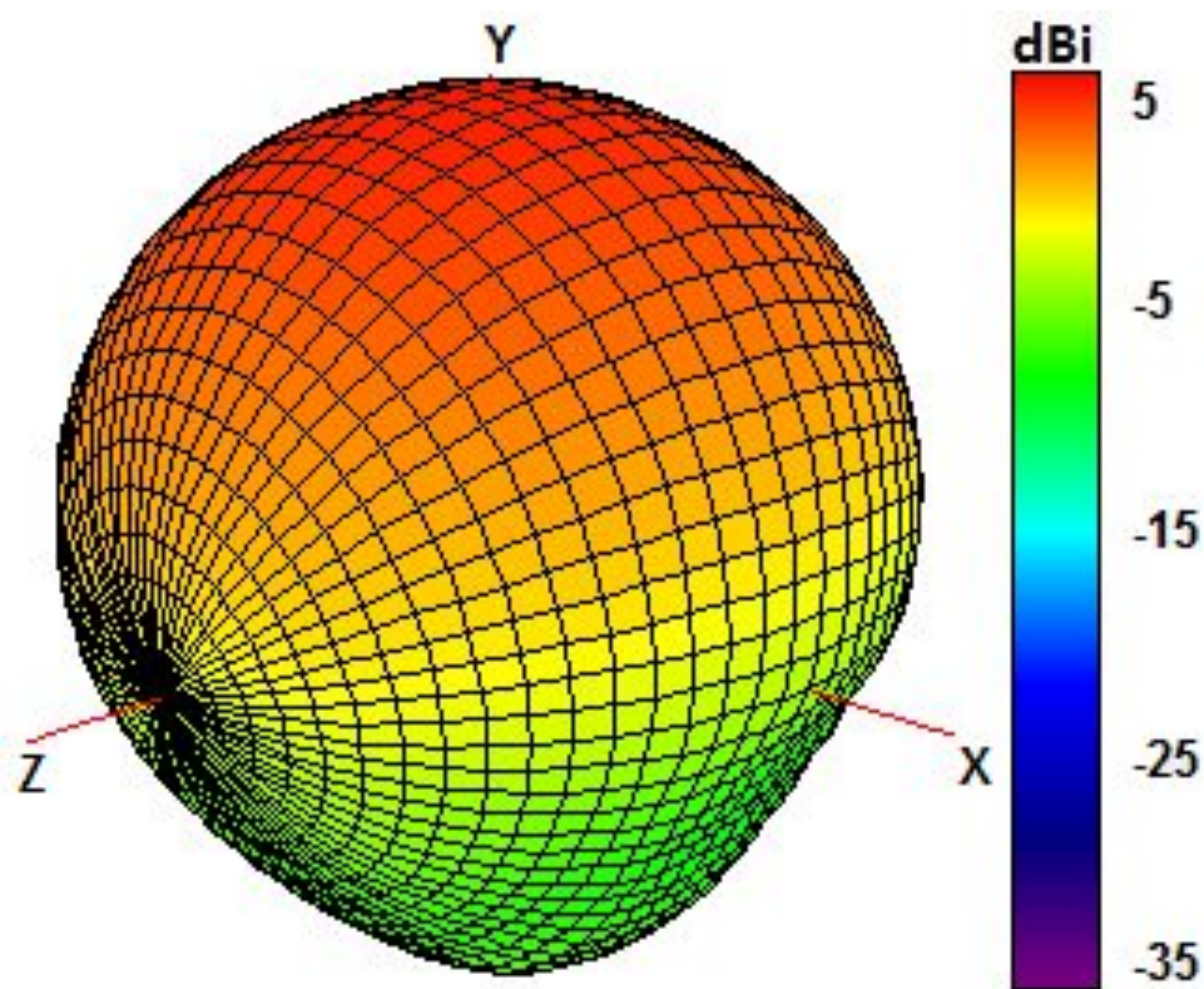








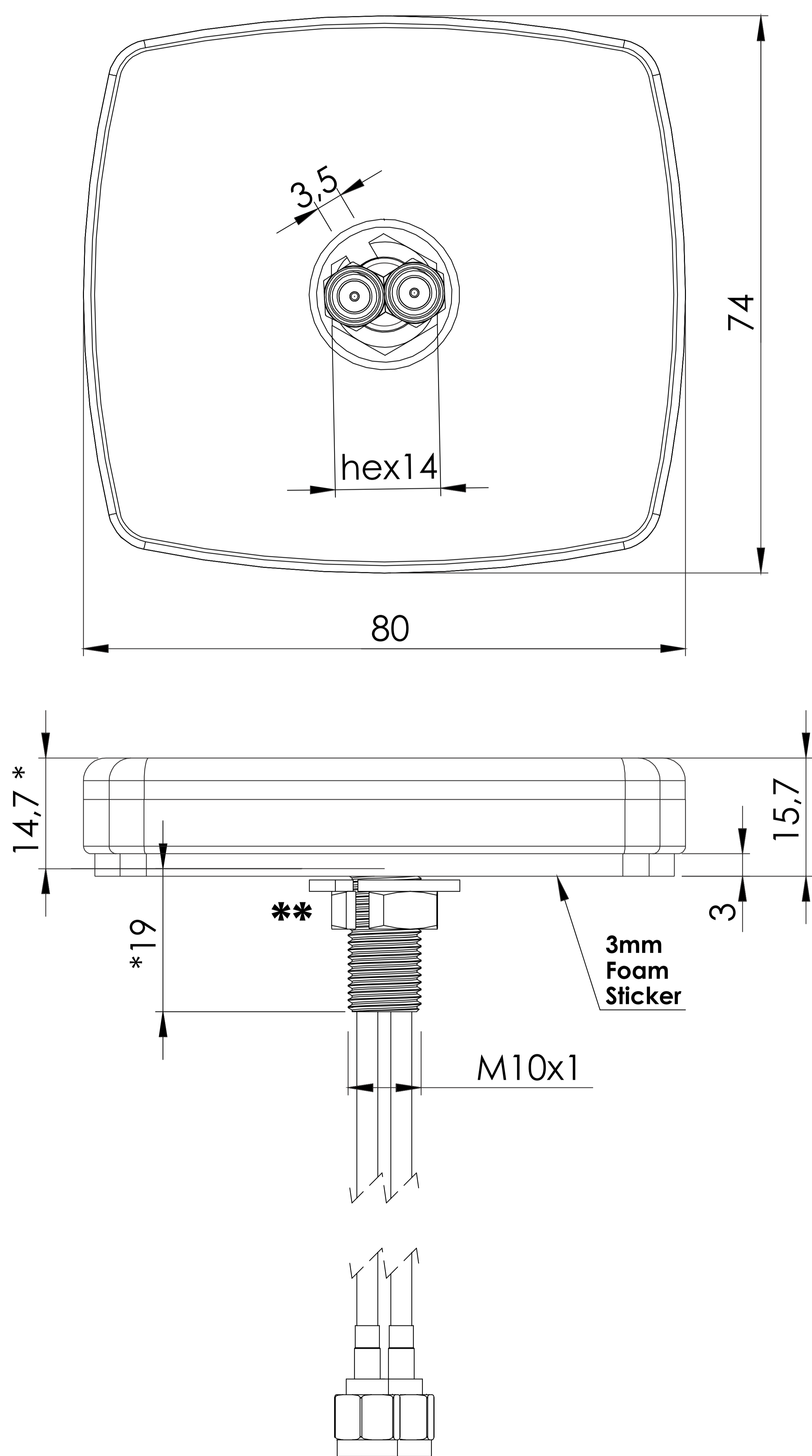
Cable 2: IRIDIUM



1621 MHz Radiation pattern

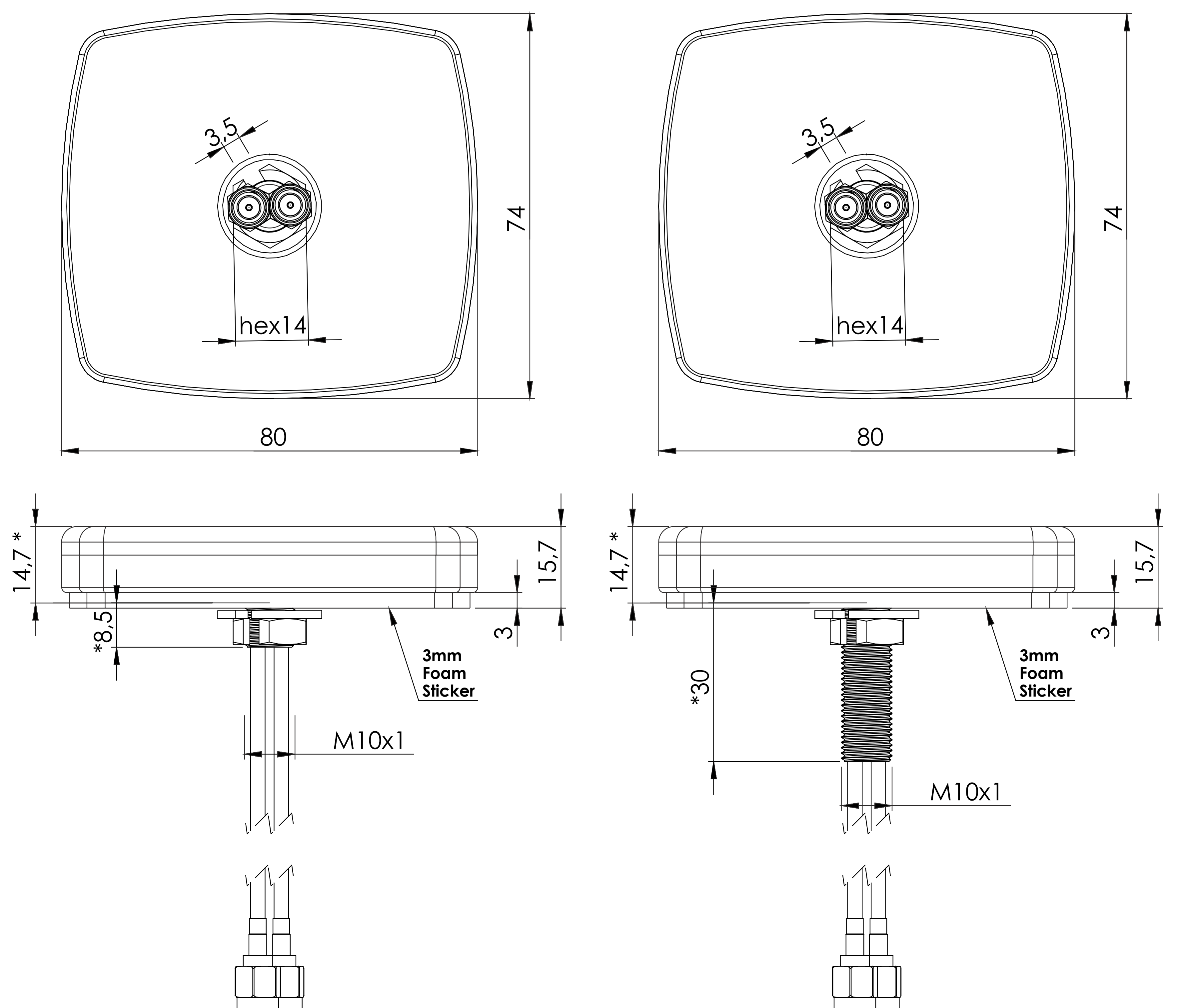
4. Antenna drawings

Default Thread Option



2J6033BGF-TH19
19 mm Thread
Default Option

Other Thread Options available



2J6033BGF-TH8,5
8,5 mm Thread

2J6033BGF-TH30
30 mm Thread

***Dimensions after mounting**
****Max. Torque= 5 Nm**

5. Antenna Images

