

## 2J6507BGF

### TETRA/UHF and GPS/GLONASS Screw Mount

#### Key Features

**Cable 1: TETRA/UHF**

- 380-470 MHz

**Cable 2: GPS/GLONASS**

- 1575-1610 MHz

Screw Mount

Anti-Rotation Mounting

Ground Plane Dependent

Customizable Cable and Connector

Dimensions  $\varnothing$  146 x 31.5 mm

Certificates: IK09, IP67, IP69K



## 1. Antenna and electrical specifications

**Cable 1**

Parameters	TETRA Antenna
<b>Standards</b>	TETRA, UHF
<b>Band (MHz)</b>	390, 420, 460 MHz
<b>Frequency (MHz)</b>	380-470
<b>Return Loss (dB)</b>	~-5.5
<b>VSWR</b>	~4.8:1
<b>Efficiency (%)</b>	~36.8
<b>Peak Gain (dBi)</b>	~-0.2
<b>Average Gain (dB)</b>	~-4.9
<b>Impedance (Ohm)</b>	50
<b>Polarisation</b>	Linear
<b>Radiation Pattern</b>	Omni-Directional
<b>Max. Input Power (W)</b>	50
<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>	RG58 Standard (Other Cables Available)

**Cable 2**

Parameters	GNSS Ceramic Active Antenna	
<b>Standards</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>Passive Gain (dBi)</b>	~3.6	
<b>Impedance (Ohms)</b>	50	
<b>Radiation Pattern</b>	Hemispherical	
<b>Voltage Range (V)</b>	2.7 - 5.5	
<b>Active Gain (dB)</b>	23 @ 3V, 24 @ 5V	
<b>Noise Figure (dB)</b>	1.2	
<b>Current Consumption (mA)</b>	22 @ 5V	
<b>Power Consumption (mW)</b>	max 138mW	
<b>Saw Filter Type</b>	Post-Filter	
<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 60 x 60 cm Metal Plate

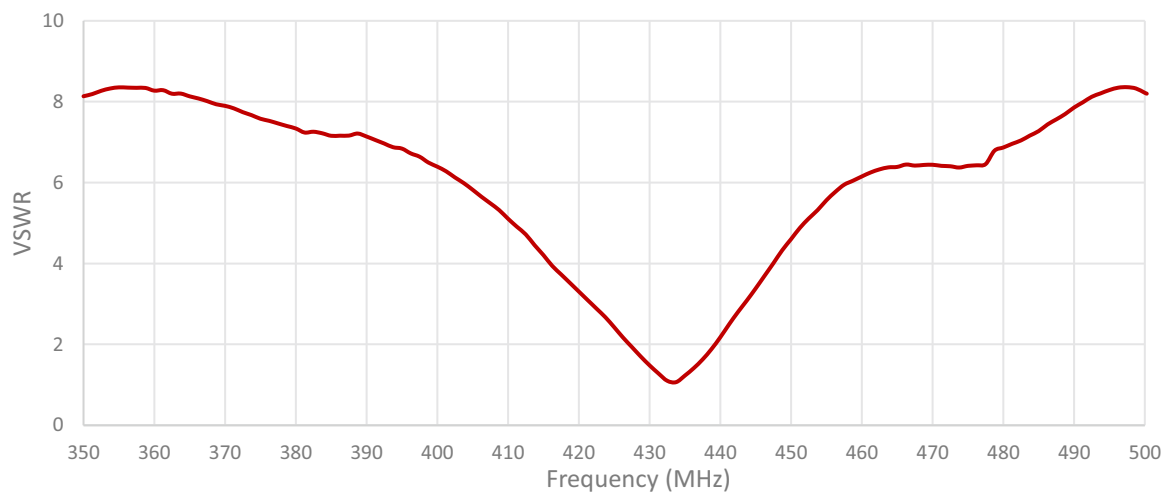
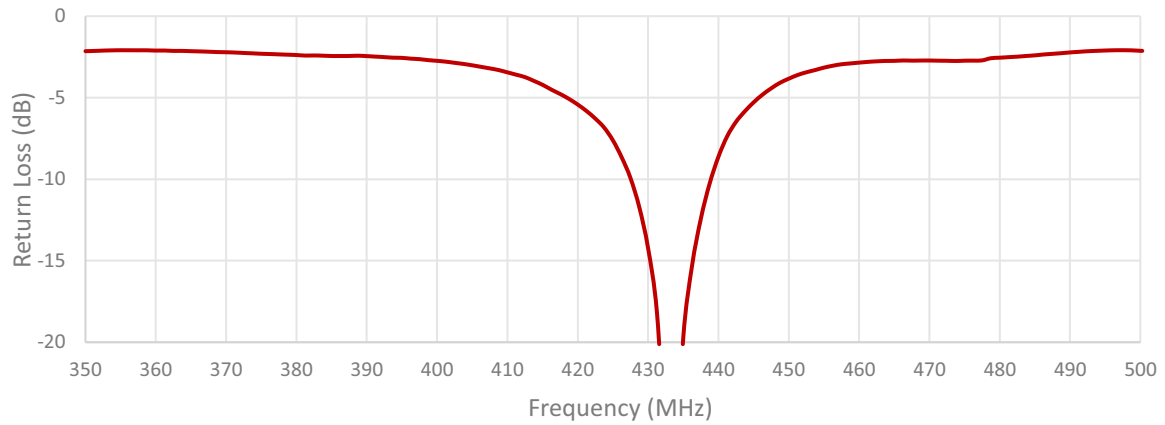
200cm of RG58 Cable

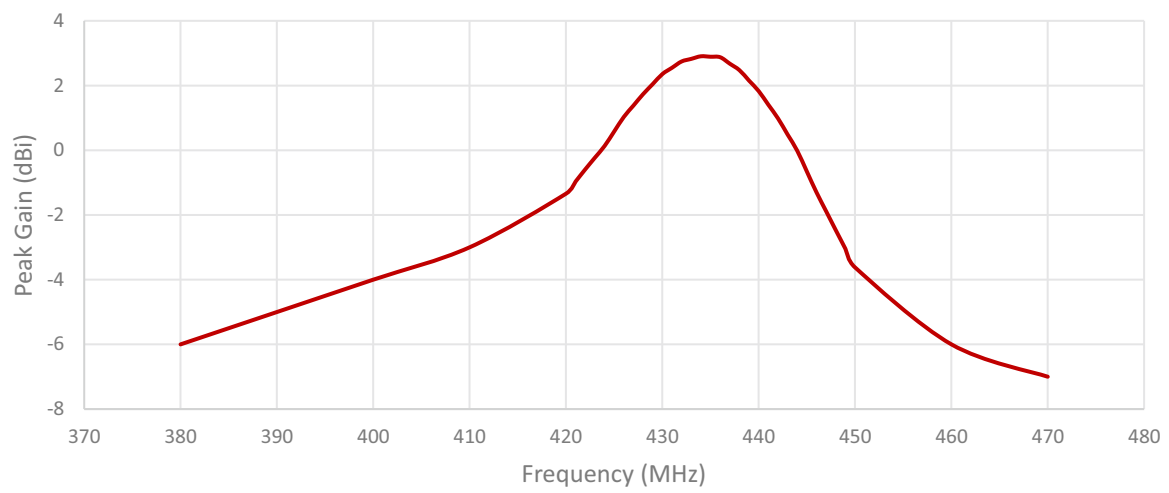
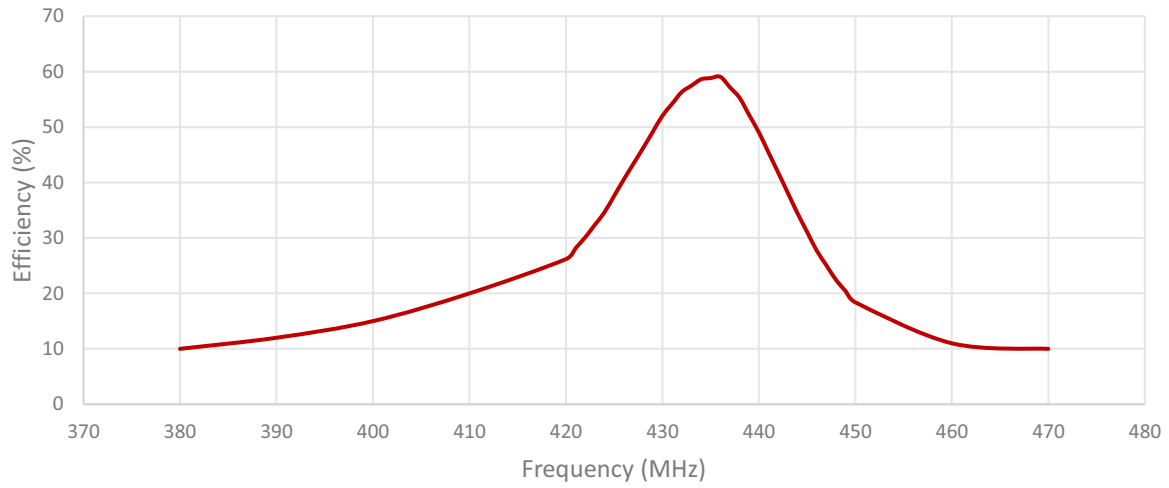
Measured in Certified CTIA 3D Anechoic Chamber

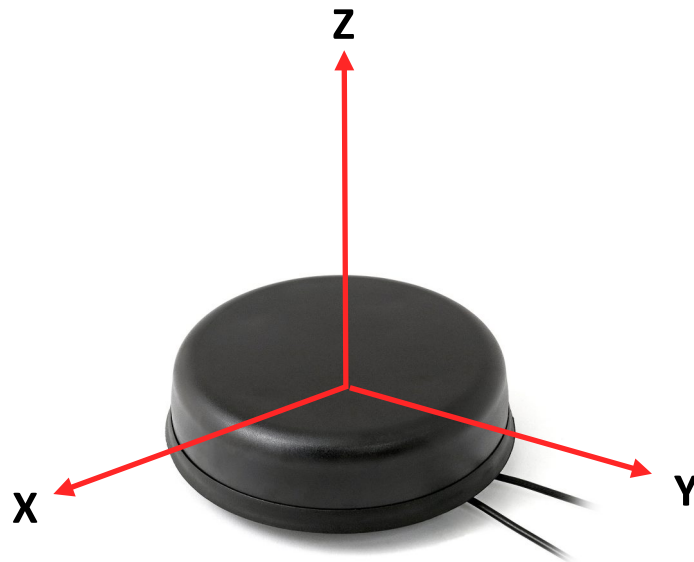
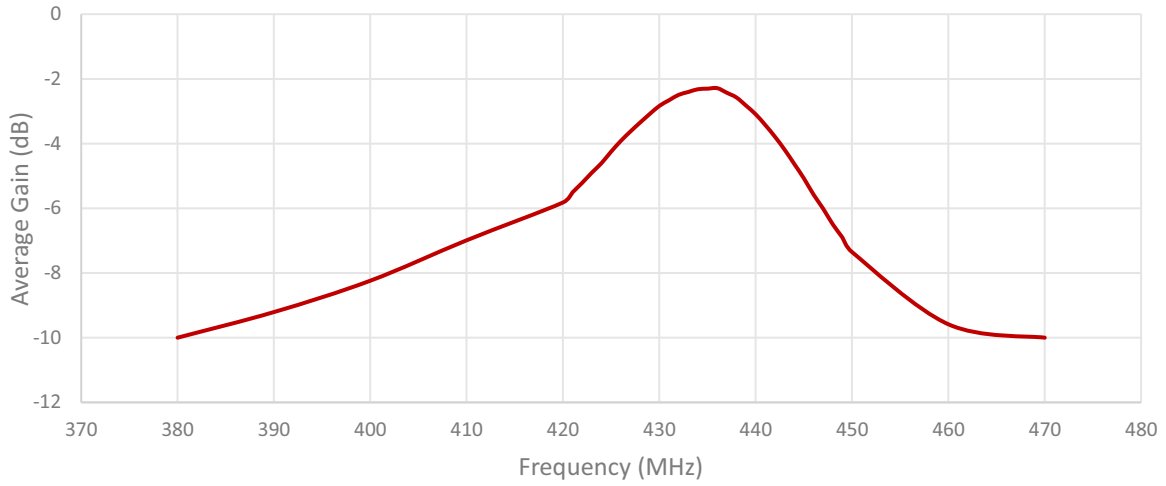
## 2. Mechanical and environmental specifications

Specifications	2J6507BGF
<b>Mounting Type</b>	Screw Mount
<b>Dimensions (mm)</b>	Ø 146 x 31.5
<b>Max. Tighten Torque (Nm)</b>	6 Nm
<b>Radome</b>	ABS
<b>Radome color</b>	Black
<b>Antenna Base</b>	Zamak
<b>Gasket</b>	TPE
<b>Operating Temperature (C)</b>	-40 to +85
<b>Storage Temperature (C)</b>	-40 to +85
<b>Substance Compliance</b>	RoHS
<b>Certificates</b>	IK09, IP67, IP69K

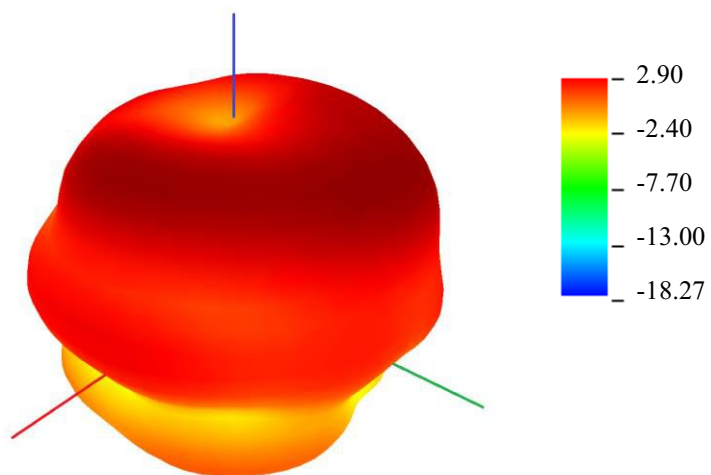
### 3. Antenna parameters





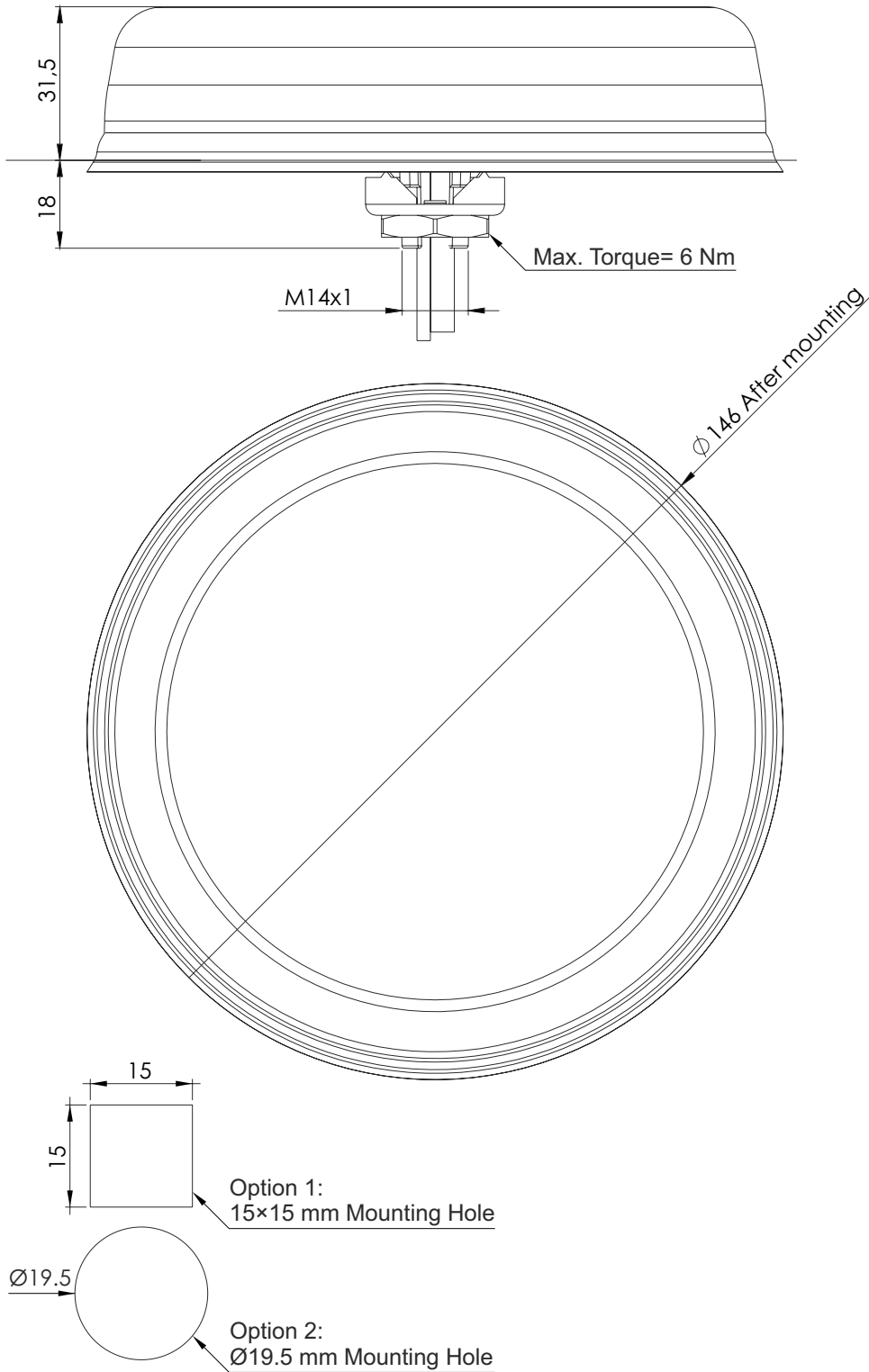


Radiation pattern reference



420 MHz Radiation pattern

## 4. Antenna drawings



**Note: Dimensions are in millimeters**  
**\*Dimensions are after mounting**  
**\*\*Max. Torque= 6 Nm**



## 5. Antenna Images

