Product Datasheet

2JQA0126

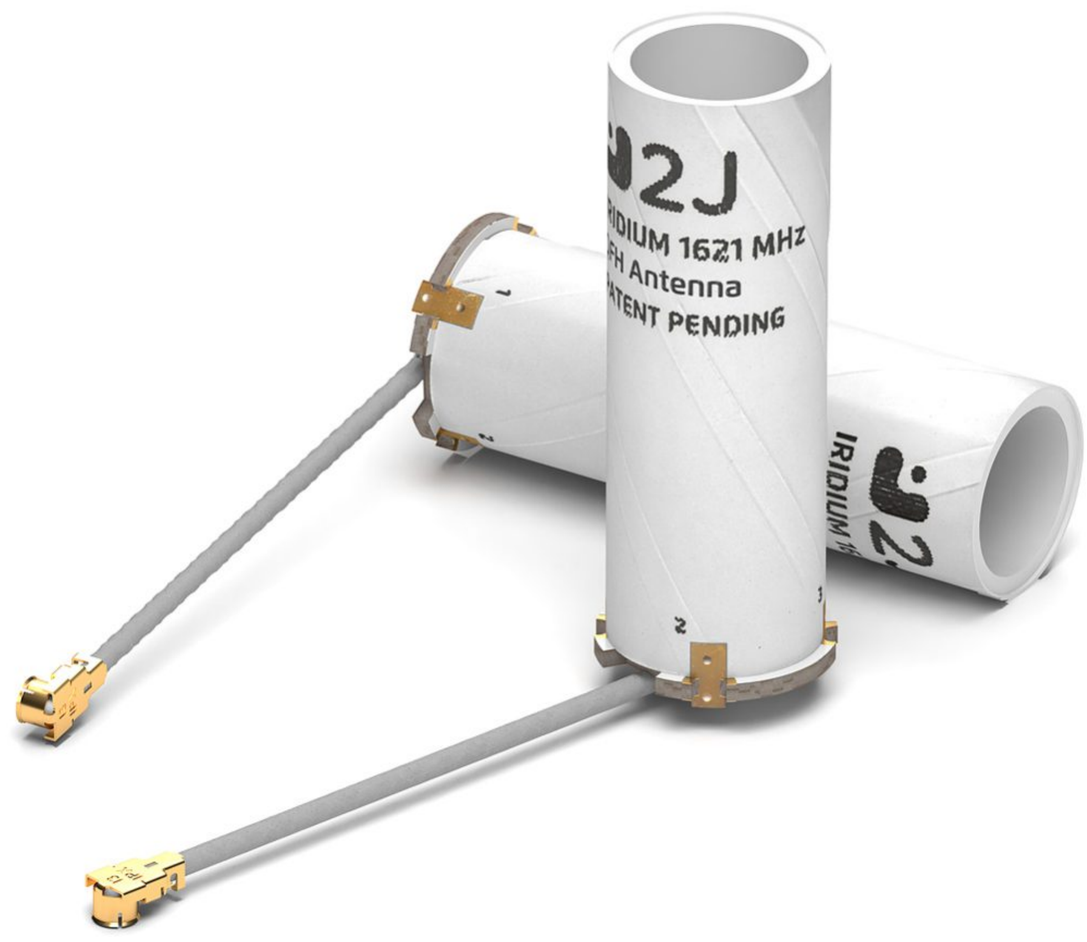
IRIDIUM Snap-In Quadrifilar Helix Antenna (QFA)

PATENT PENDING

Key Features

IRIDIUM
- 1616-1627 MHz

Snap-In Connection
RHCP
Axial Ratio below 1dB
Peak Gain 2.0 dBiC
Dimensions Ø 13.5 × 36.3 mm
Customizable Cable and Connector



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1. Antenna and electrical specifications

Parameters	IRIDIUM QUADRIFILAR HELIX Antenna
Standards	Iridium
Bands (MHz)	1621
Frequency (MHz)	1616-1627
Return Loss (dB)	~ -12.4 dB
VSWR	~ 1.6:1
Efficiency (%)	~ 51.3
Peak Gain (dBic)	~ 2.0
Average Gain (dB)	~-2.9
Impendance (Ohms)	50
Axial Ratio (dB)	1 max
Radiation Pattern	Hemispherical
Polarization	RHCP
Connector Type	U.FL Standard (Other Connectors Available)
Cable Length	100 mm Standard (Any Cable Length Available)
Cable Type	1.37 mm Mini-Coax Standard (Other Cables Available)

Antenna Measurement Conditions:

Free space

150 mm of MC137 Coax Cable

Measured in Certified CTIA 3D Anechoic Chamber

2. Mechanical and environmental specifications

Specifications	2JQA0126
Mounting Type	Snap-In Connection
Dimensions (mm)	Ø 13.5 × 36.3
Operating Temperature (C)	-40 to +85
Storage Temperature (C)	-40 to +85
Substance Compliance	RoHS

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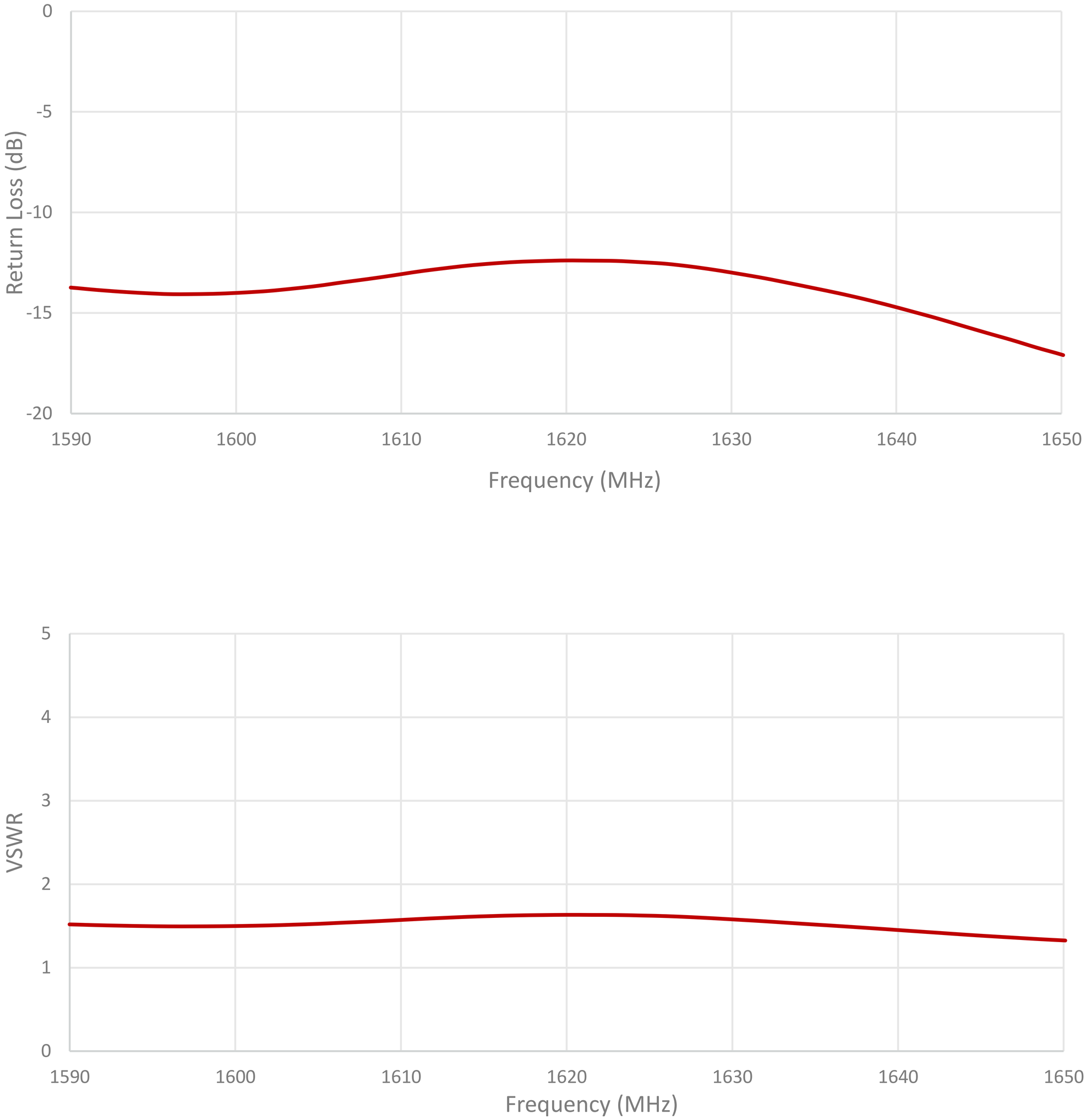
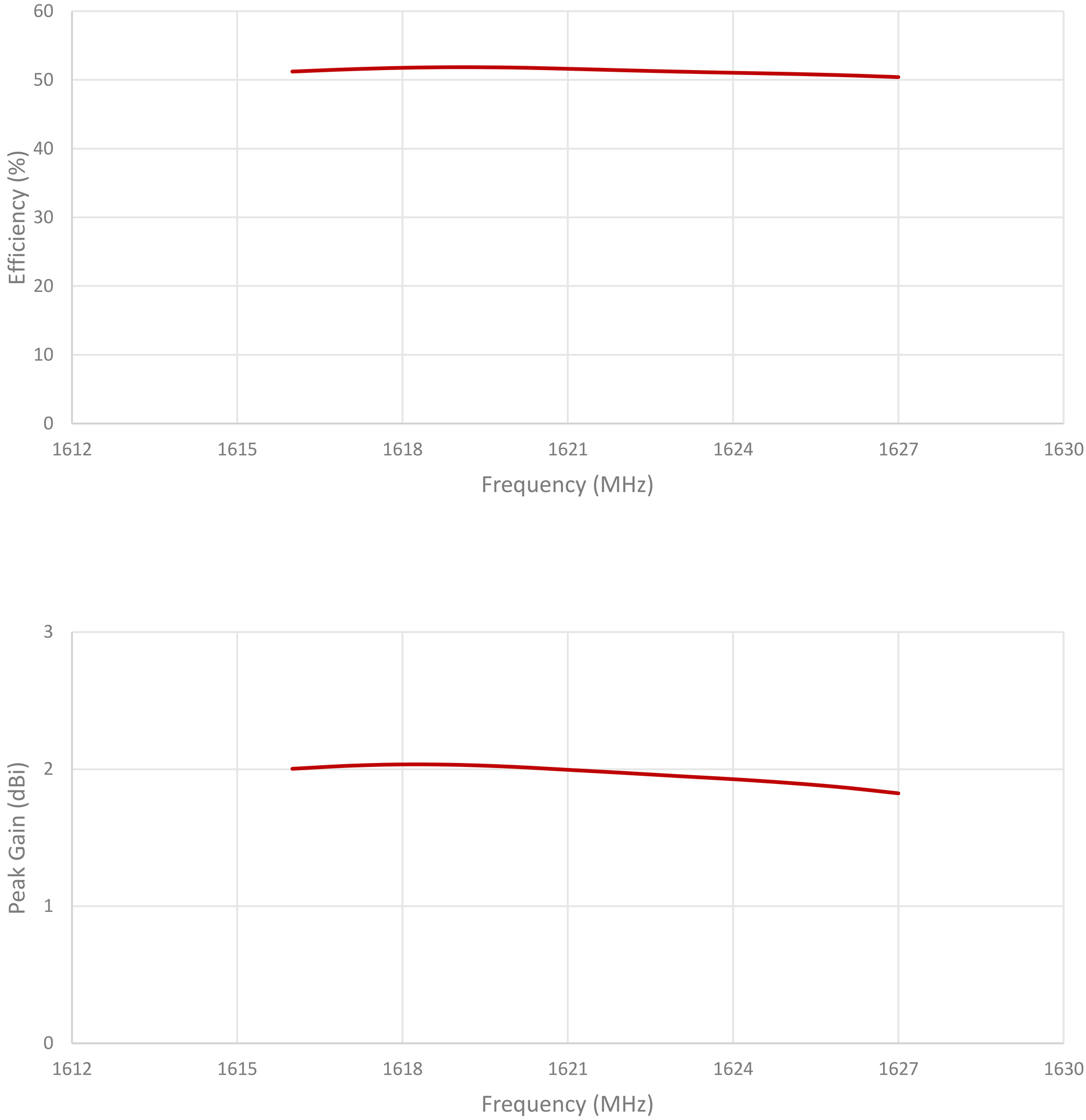
3. Antenna parameters




60
50
40
30
20
10
0
Efficiency (%)
1612
1615
1618
1621
1624
1627
1630
Frequency (MHz)
3
2
1
0
Peak Gain (dBi)
1612
1615
1618
1621
1624
1627
1630
Frequency (MHz)

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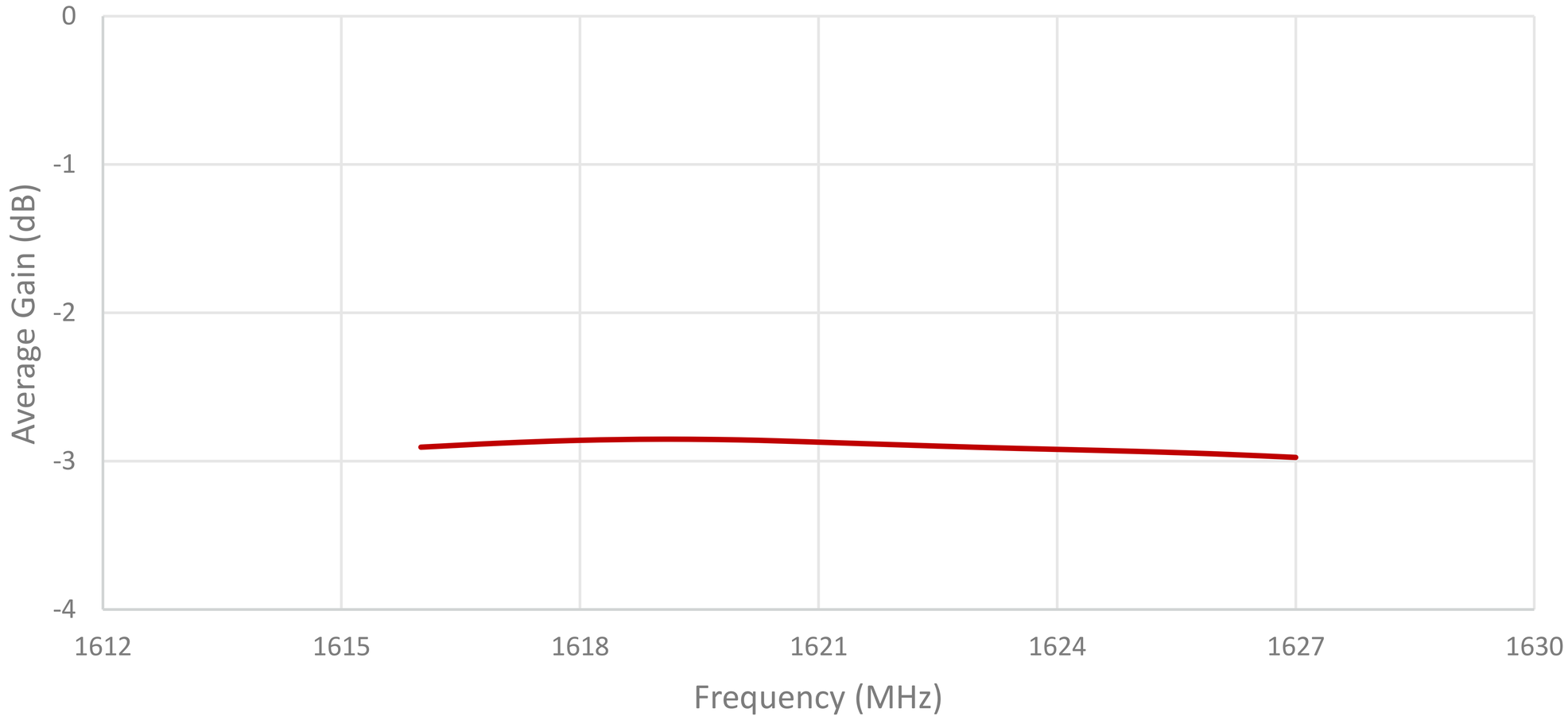

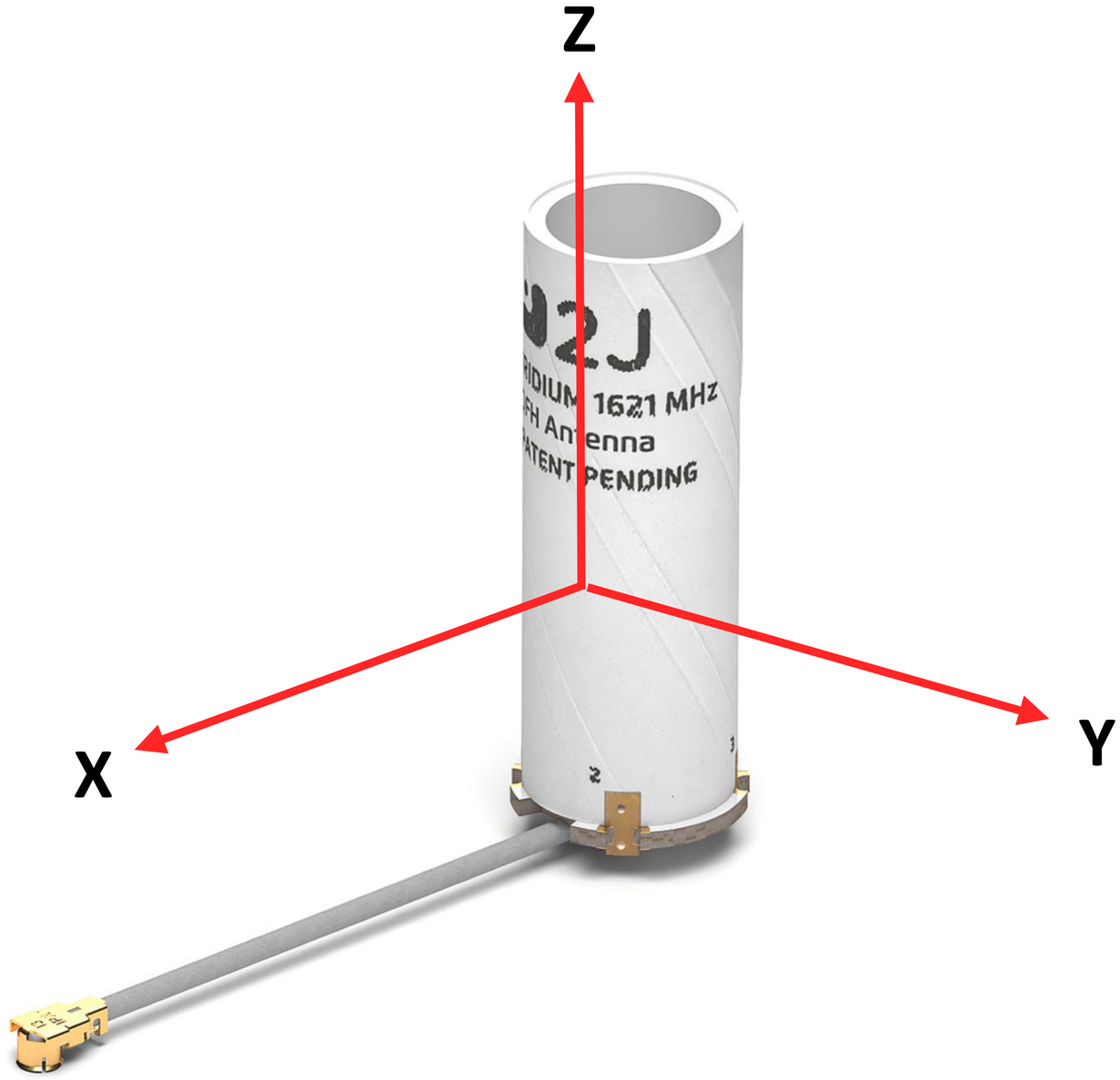

Radiation pattern reference

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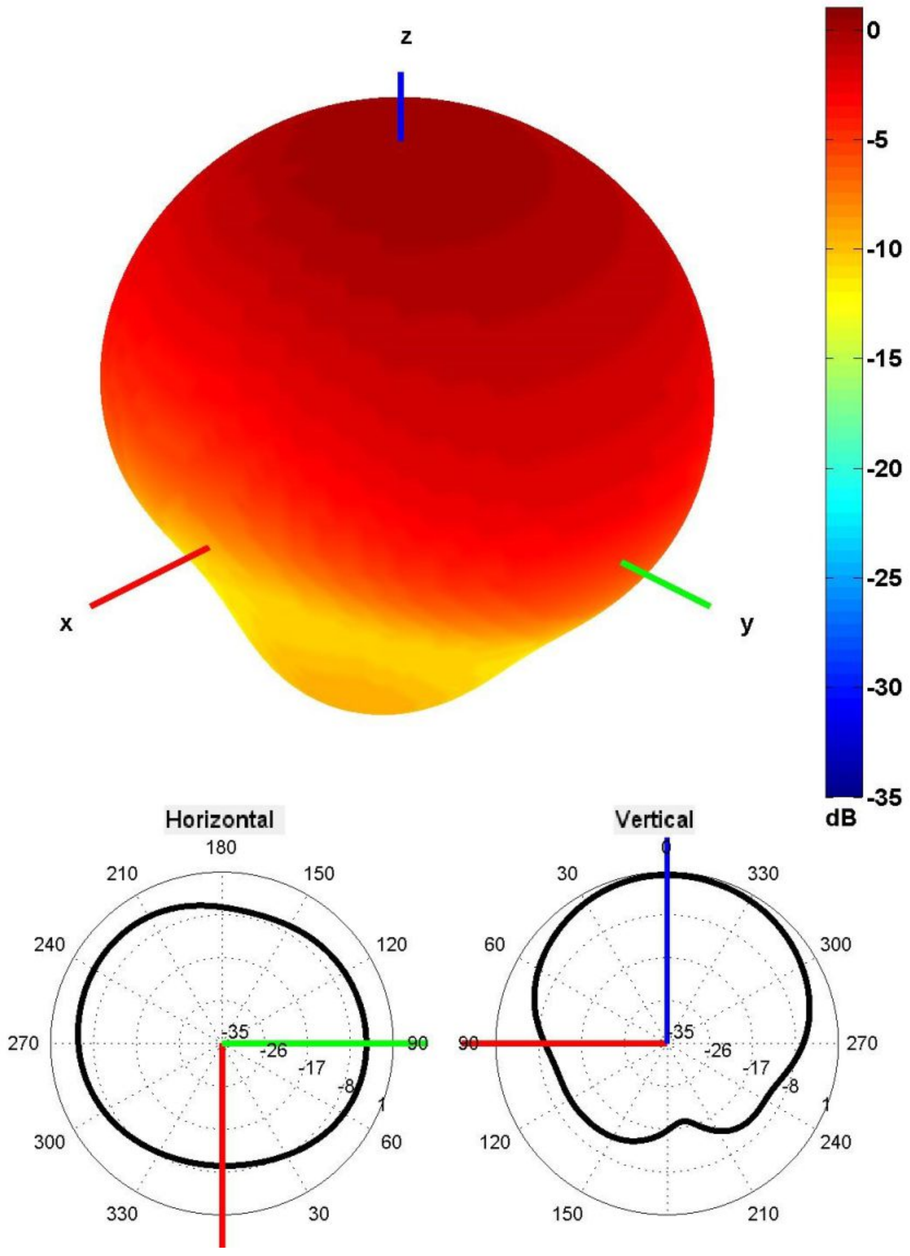

1621 MHz Radiation pattern

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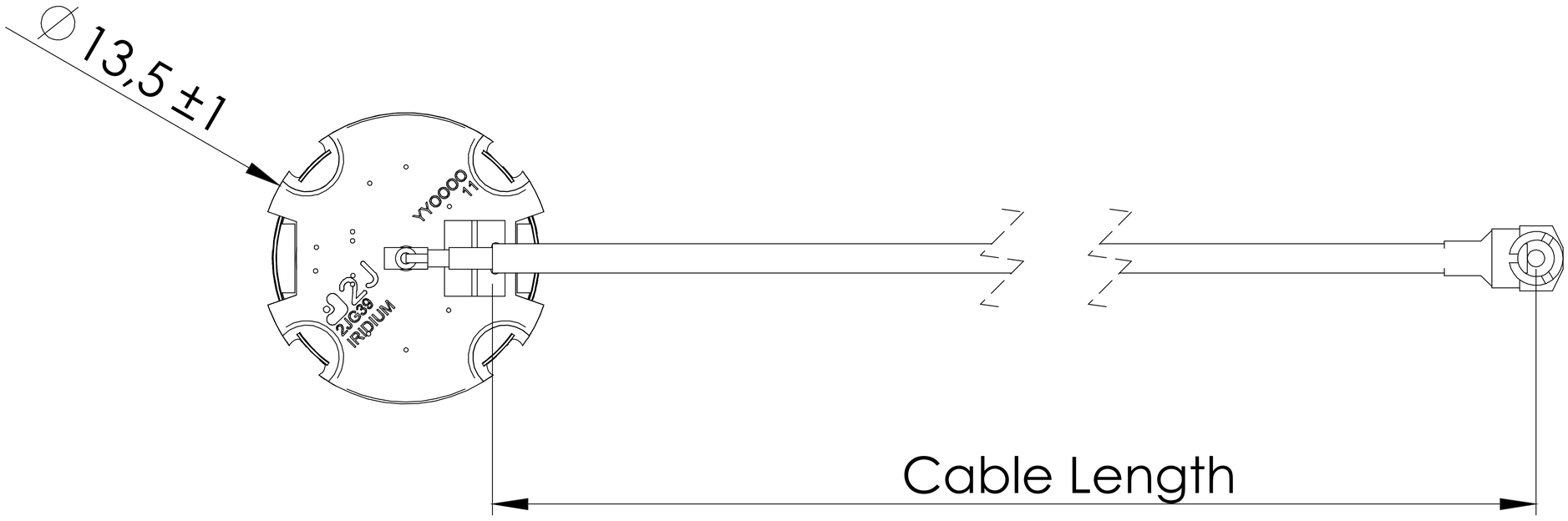
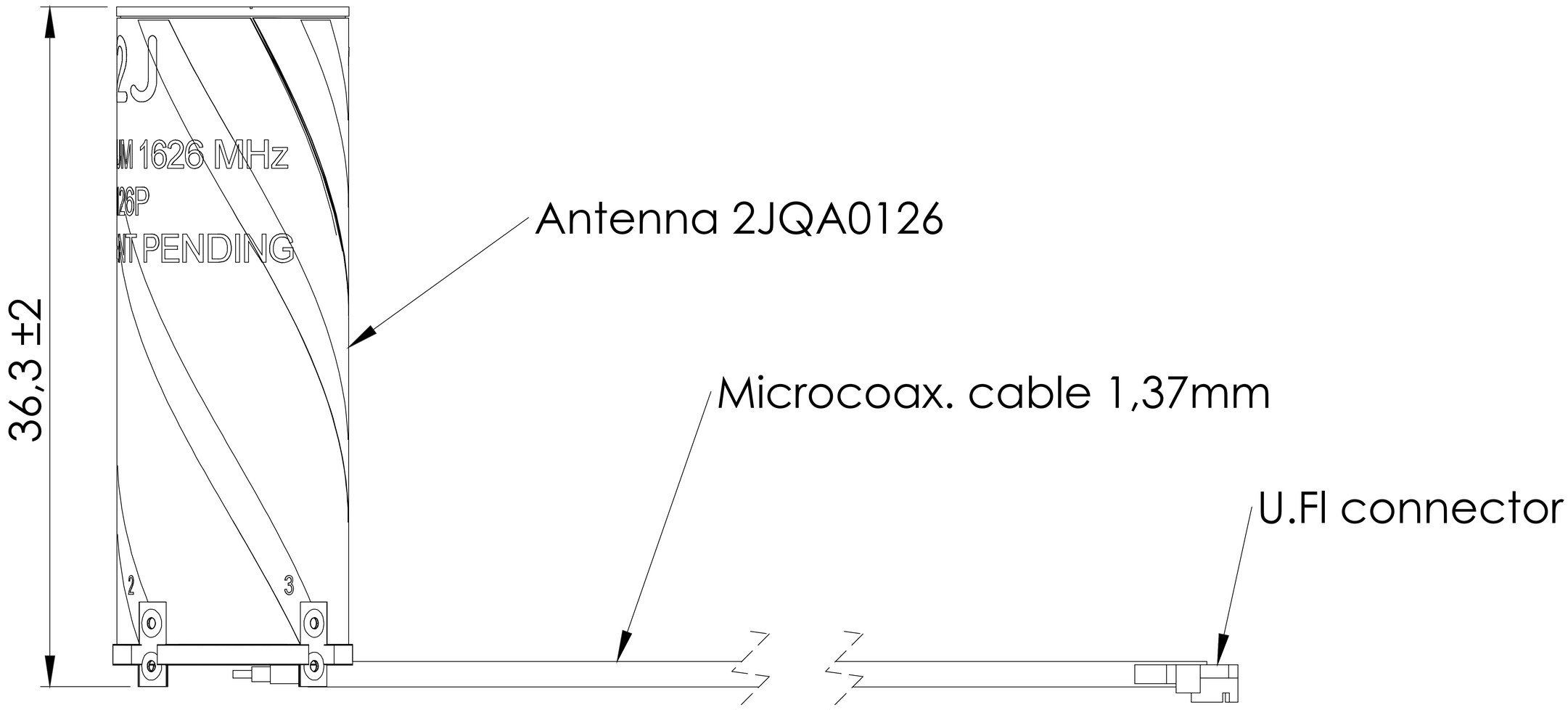
4. Antenna drawings





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5. Antenna Images