antenna conceptor

Product Datasheet

2J6033PGF

GNSS and Iridium Adhesive Mount

Key Features

Cable 1: GPS/GLONASS/QZSS/Galileo
- 1575-1606 MHz

Cable 2: Iridium
- 1616-1627 MHz

Adhesive Mount
Iridium Certified
Low Profile
High Performance
Ground Plane Independent
Customizable Cable and Connector
Dimensions: 80 x 76 x 13/16 mm



iridium Certified

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

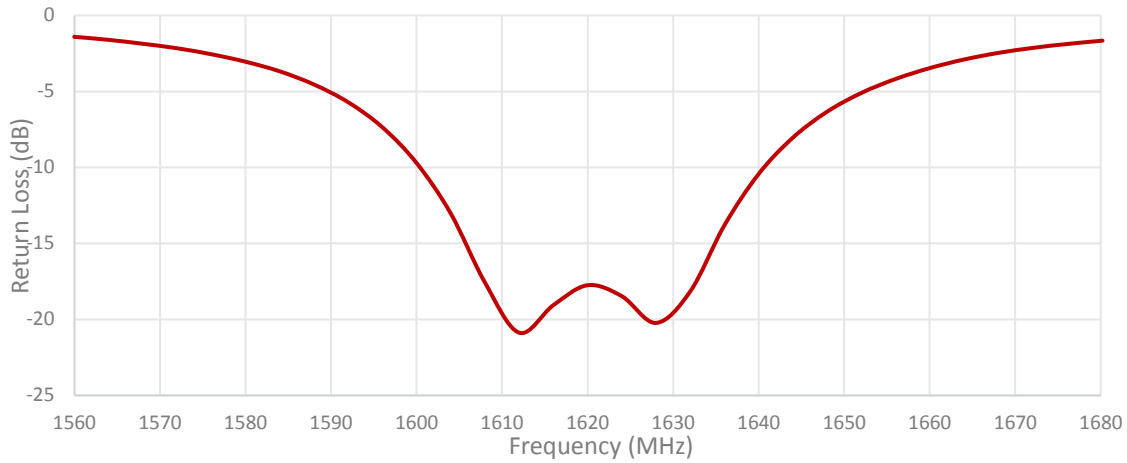
Measured in Certified CTIA 3D Anechoic Chamber

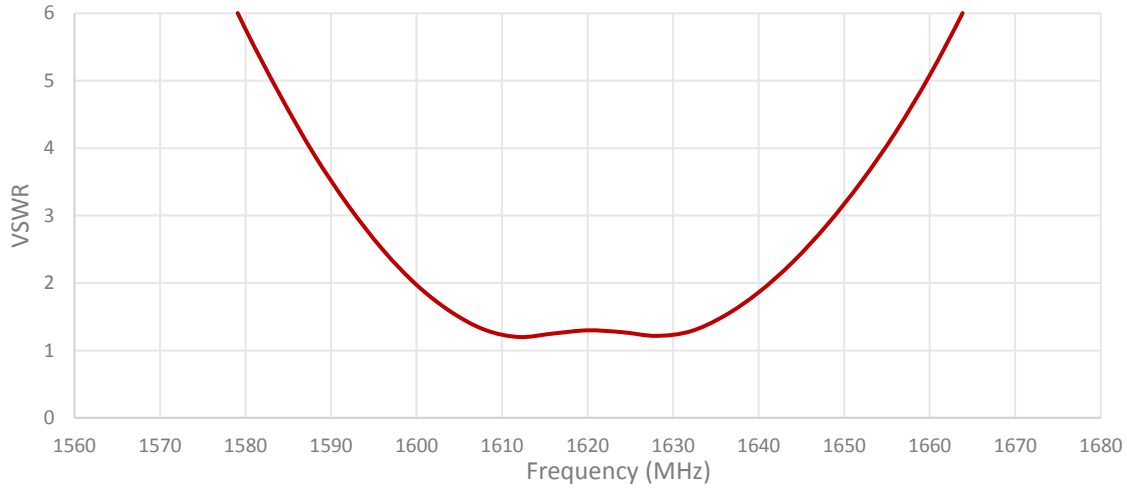
2. Mechanical and environmental specifications

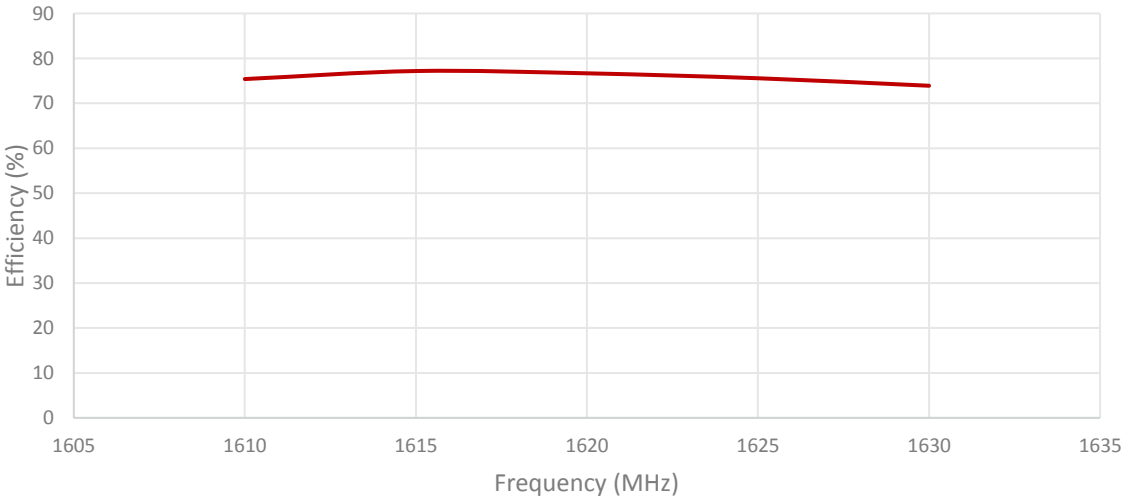
Specifications	2J6033PGF
Mounting Type	Adhesive Mount
Dimensions (mm)	80 x 76 x 13/16
Randome Type	ABS
Randome Color	Black
Antenna Base	ABS
Operating Temperature (C)	-40 to +85
Storage Temperature (C)	-40 to +85
Substance Compliance	RoHS
Certificates	Iridium Certified

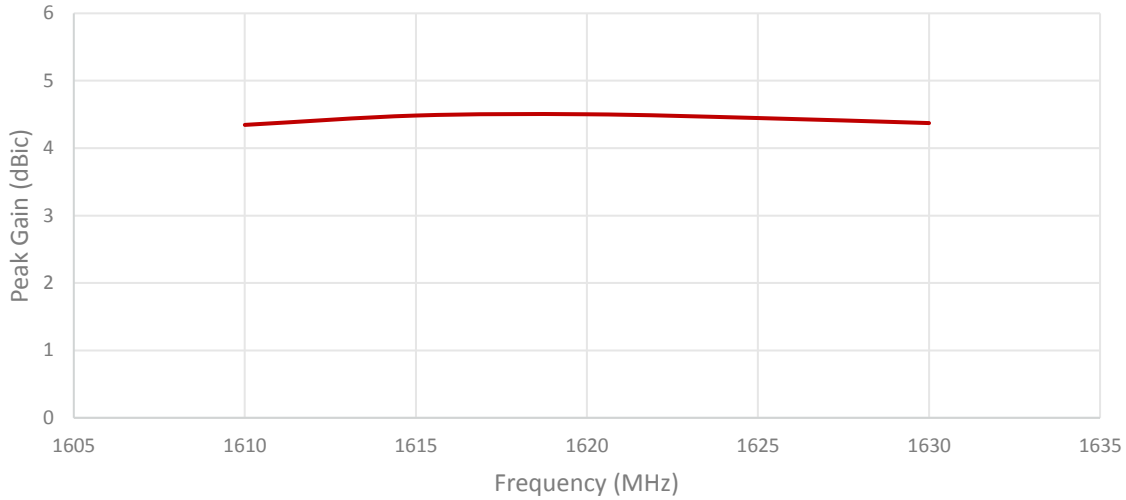
3. Antenna parameters

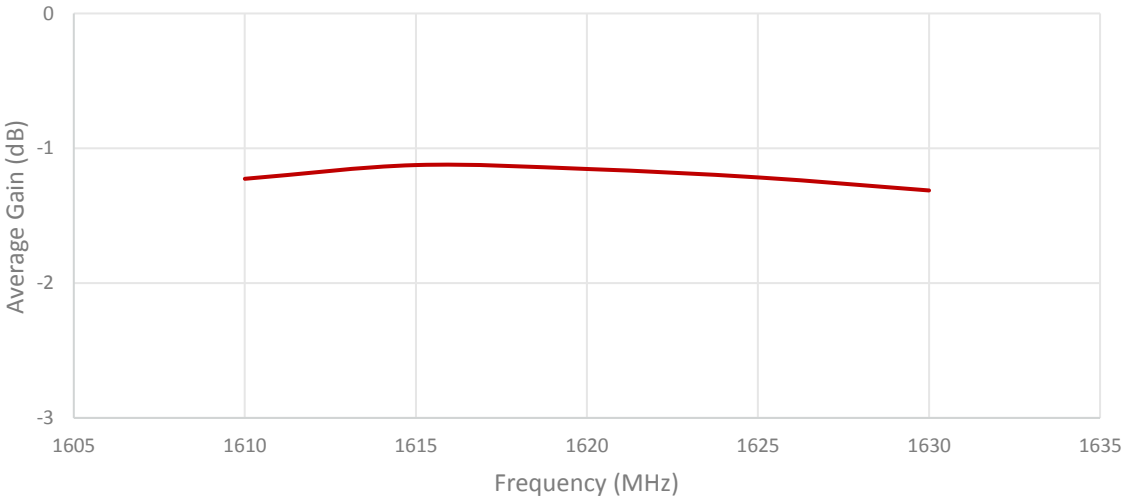
Cable 2: IRIDIUM

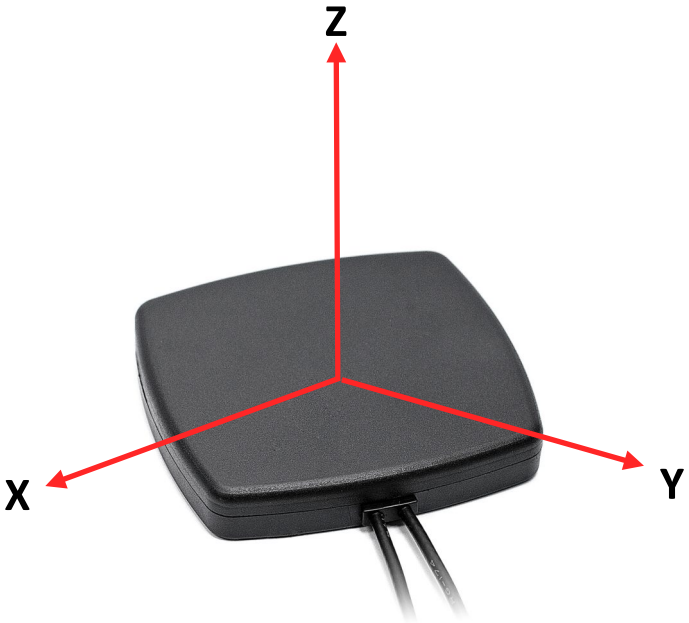





90
80
70
60
50
40
30
20
10
0
Efficiency (%)
1605
1610
1615
1620
1625
1630
1635
Frequency (MHz)

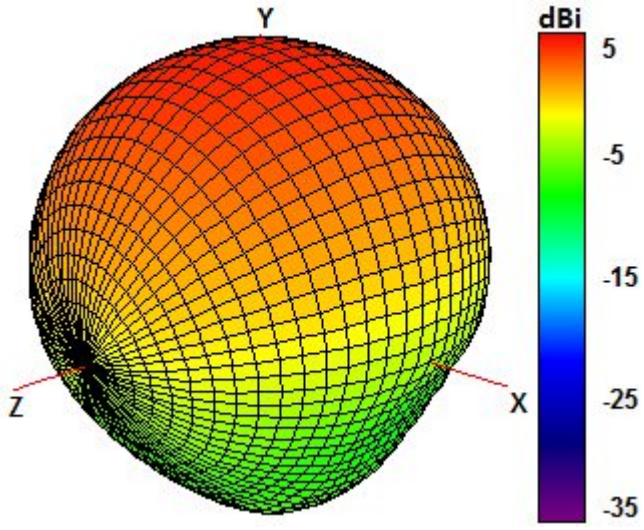

6
5
4
3
2
1
0
Peak Gain (dBic)
1605
1610
1615
1620
1625
1630
1635
Frequency (MHz)


0
-1
-2
-3
Average Gain (dB)
1605
1610
1615
1620
1625
1630
1635
Frequency (MHz)



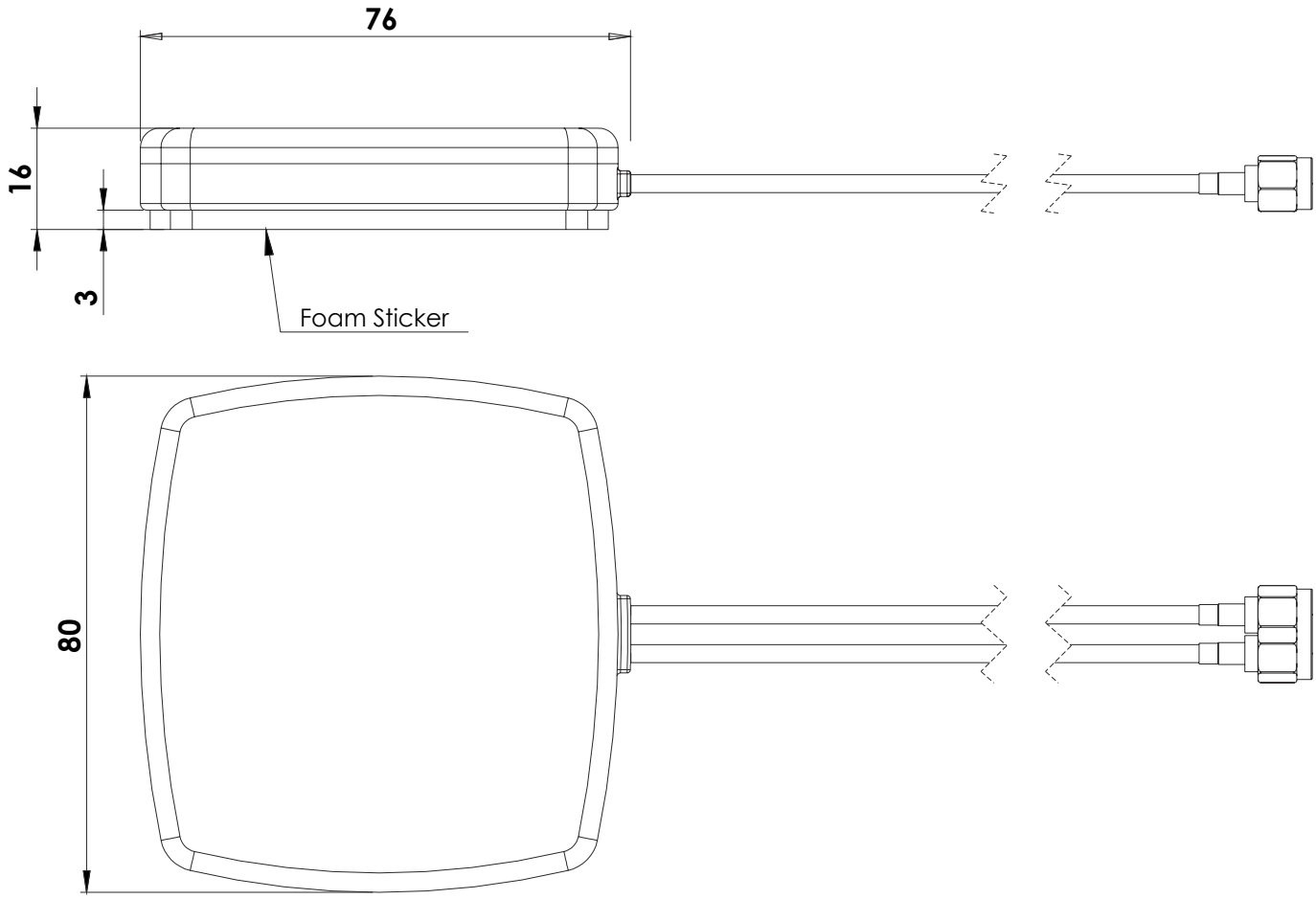
Radiation pattern reference

Cable 2: IRIDIUM



1621 MHz Radiation pattern

4. Antenna drawings



5. Antenna Images



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