

2J4250PGF-2.4

CELLULAR/LTE, 2.4 GHz ISM and GNSS Adhesive Mount

Key Features

Cable 1: CELLULAR / LTE

- 698-960 MHz
- 1710-2170 MHz
- 2500-2700 MHz

Cable 2: 2.4 GHz ISM

- 2410-2490 MHz

Cable 3: GPS/GLONASS/QZSS/Galileo

- 1575-1606 MHz

Adhesive Mount

High Performance

Compact Size

Ground Plane Independent

Customizable Cable and Connector

Dimensions: 77 × 34 × 14 mm

Certificates: IP67



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)	~-7.6	~-13.1	~-15.4
VSWR	~2.5:1	~1.6:1	~1.5:1
Efficiency (%)	~29.6	~27.0	~18.9
Peak Gain (dBi)	~2.4	~2.2	~2.1
Average Gain (dB)	~-5.5	~-5.7	~-7.2
Impedance (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 (Any Cable Length Available)		
Cable Type	LL100 Standard (Other Cables Available)		

Cable 2

Parameters	2.4 GHz ISM Antenna
Standards	WiFi, BT, ZigBee, ISM
Band (MHz)	2.4 GHz
Frequency (MHz)	2410-2490
Return Loss (dB)	~-12.5
VSWR	~1.8:1
Efficiency (%)	~21.6
Peak Gain (dBi)	~-2.8
Average Gain (dB)	~-7.6
Impedance (Ohm)	50
Polarisation	Linear
Radiation Pattern	Omni-Directional
Max. Input Power (W)	25
Connector Type	RP-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 30 x 30 cm Plastic Plate

LL100 200 cm Cable Length

Measured in Certified CTIA 3D Anechoic Chamber

Cable 3

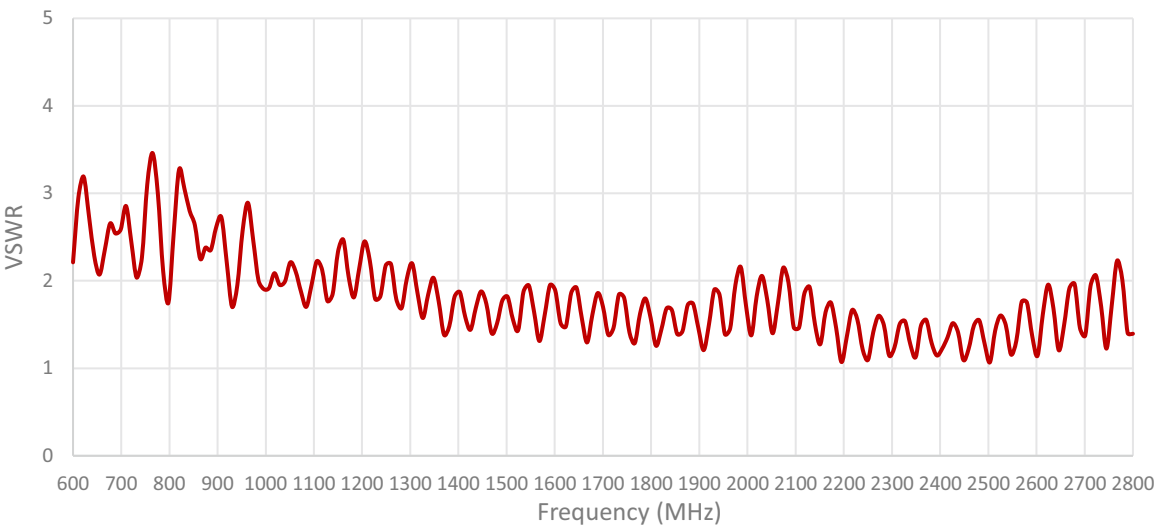
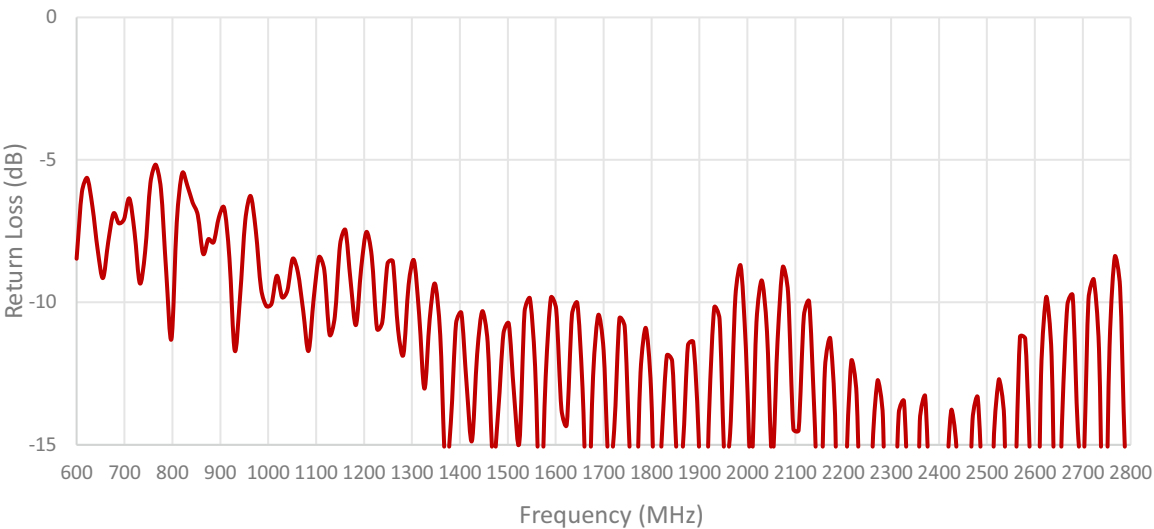
Parameters	GPS/GLONASS Antenna	
Standard	GPS/QZSS/Galileo	GLONASS
Band (MHz)	1575	1602
Frequency(MHz)	1575.42	1598-1606
Patch Size (mm)	25 x 25 x 4	
Return Loss (dB)	<=-15.0 dB	
VSWR	<=1.4:1 dB	
Impedance	50	
Radiation Pattern	Hemispherical	
Polarization	RHCP	
Saw Filter	Pre-filter	
Active Gain (dB)	28 @ 2.7 V	
Noise Figure (dB)	1.5 Typ	
Voltage (V)	1.5 - 3.6	
Current (mA)	9 Typ	
Power Consumption (mW)	24.3 Typ	
ESD Protection (kV)	2kV	
Connector Type	SMA-Male Standard (Other Connectors Available)	
Cable Length	200 cm Standard (Any Cable Length Available)	
Cable Type	LL100 Standard (Other Cables Available)	

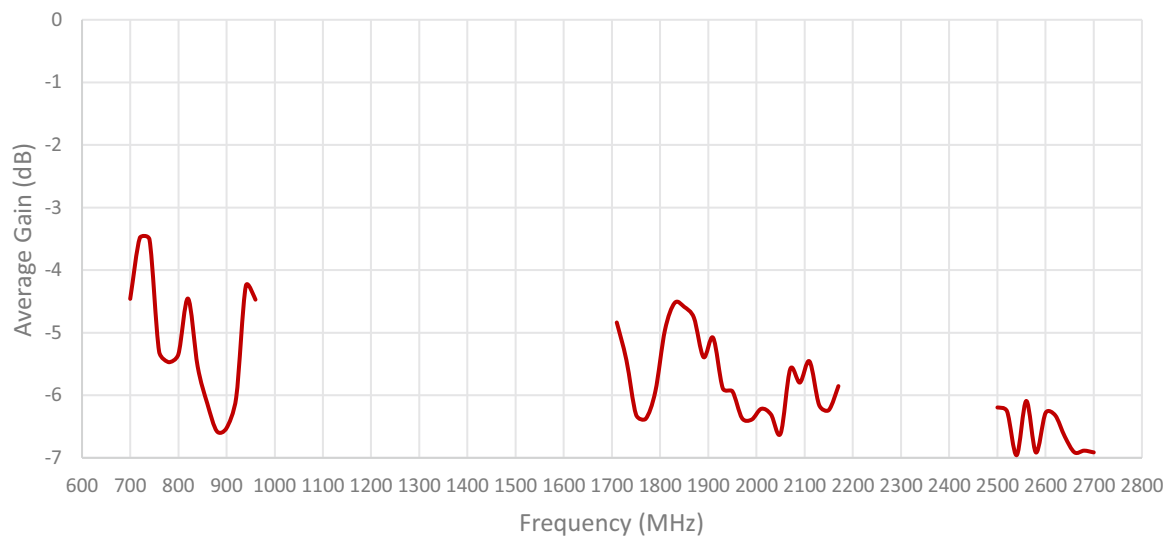
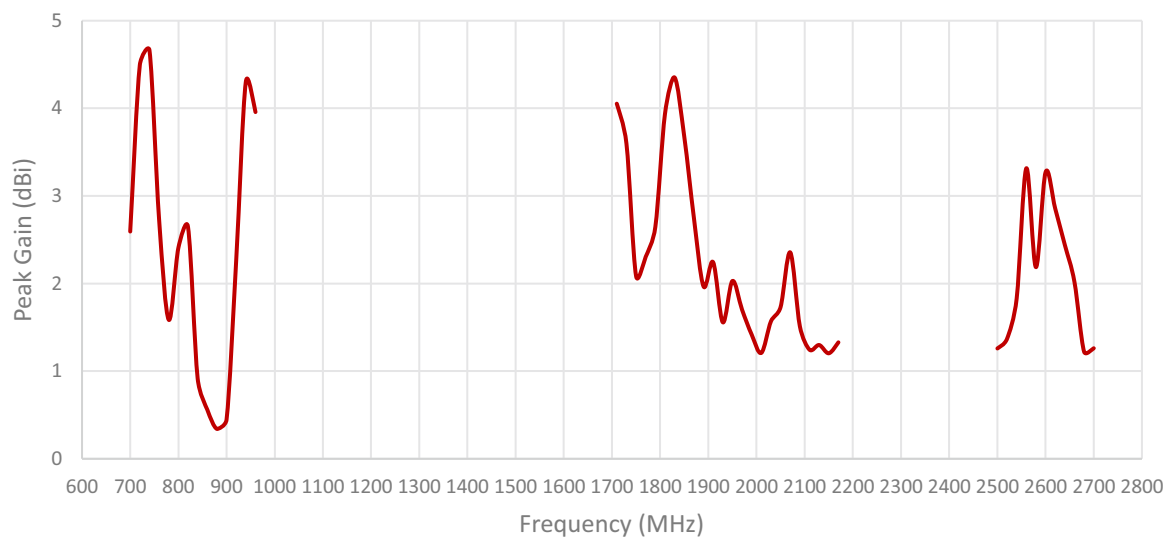
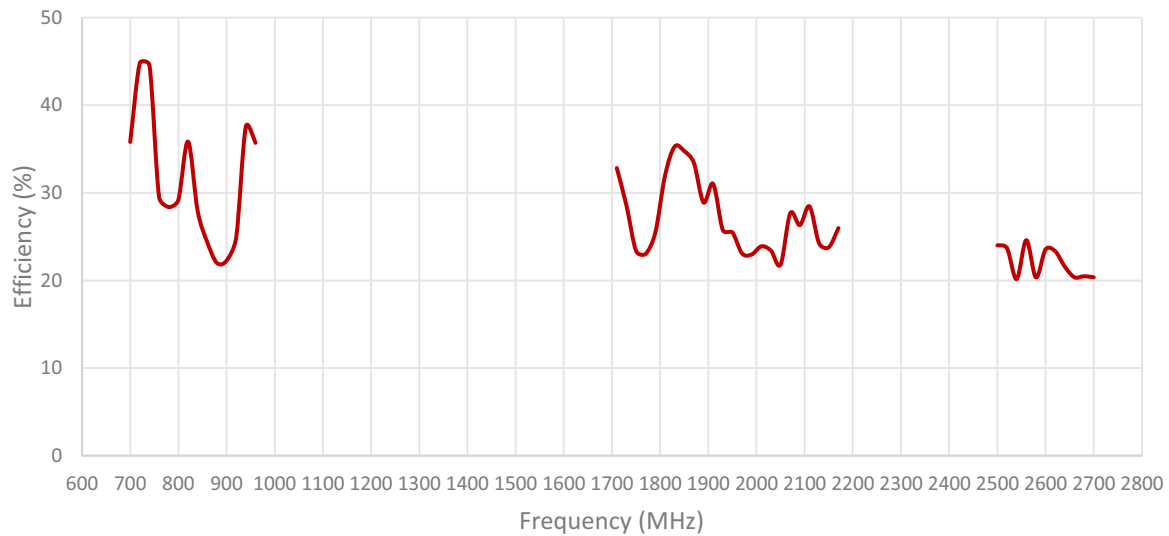
2. Mechanical and environmental specifications

Specifications	2J4250PGF-2.4
Mounting Type	Adhesive Mount
Dimensions (mm)	77 x 34 x 14
Radome Type	ASA UV Stable
Radome Color	Black
Operating Temperature (C)	-40 to +85
Storage Temperature (C)	-40 to +85
Substance Compliance	RoHS
Certificates	IP67

3. Antenna parameters

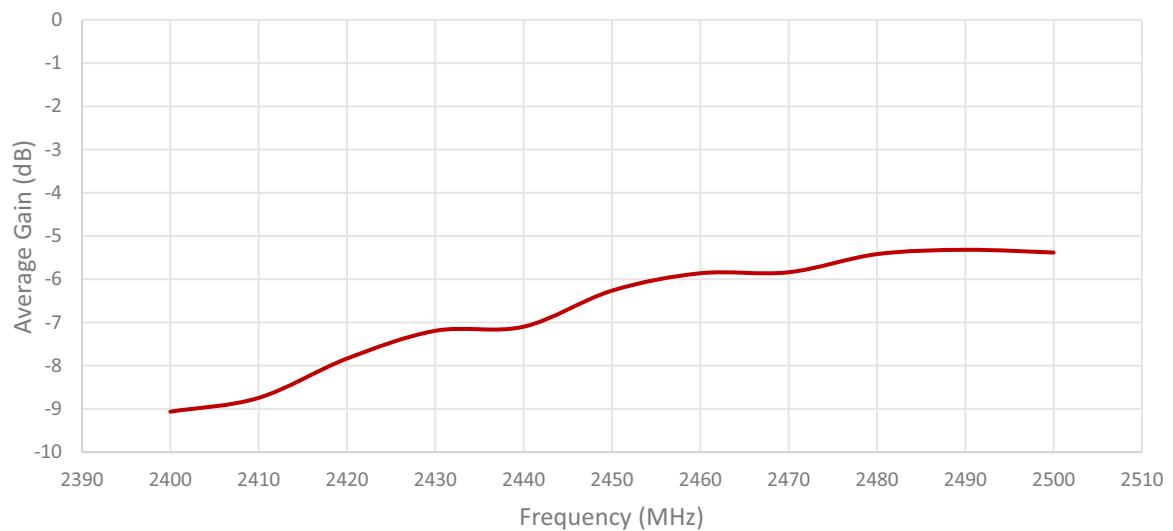
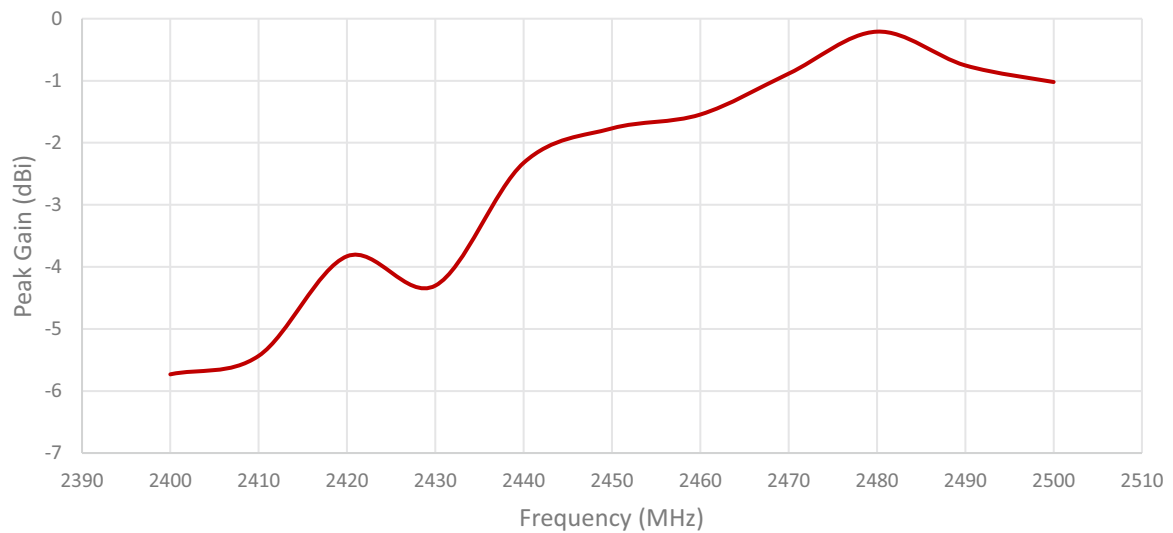
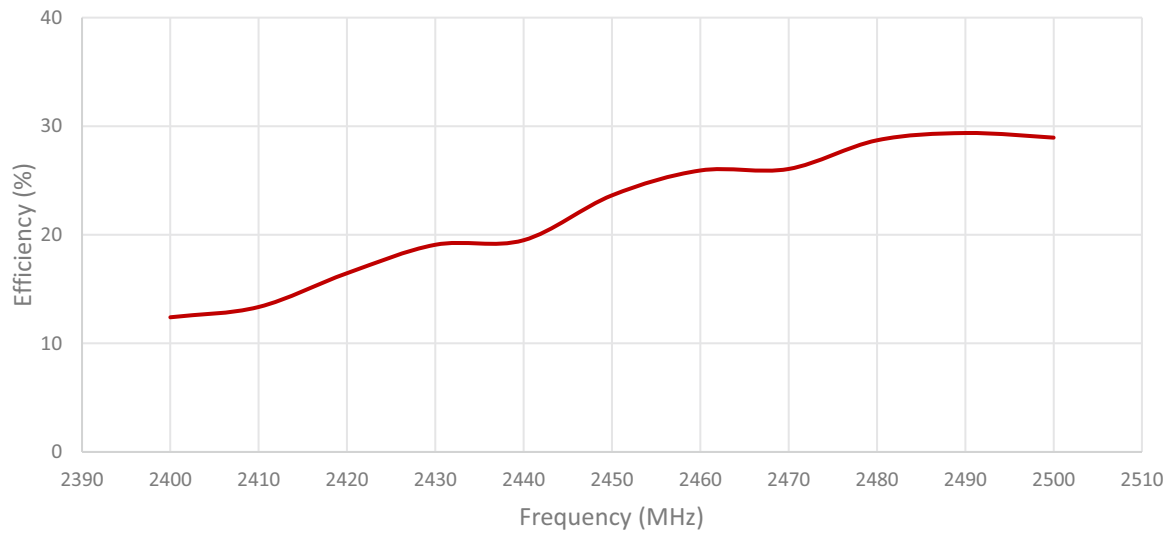
Cable 1: CELLULAR/LTE

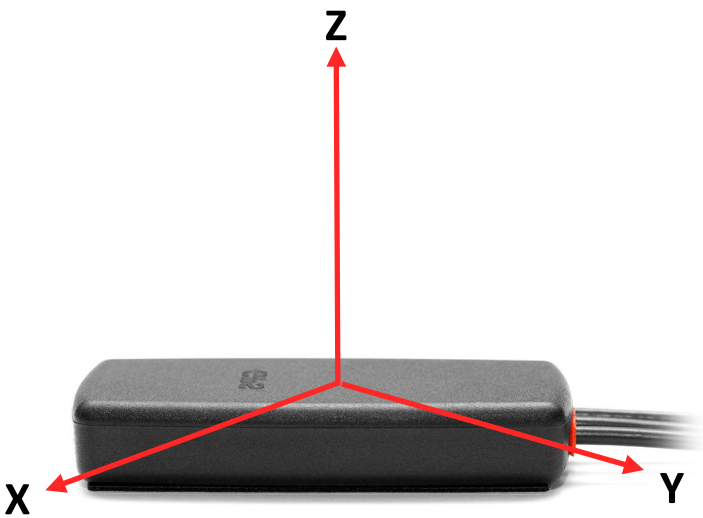




Cable 2: 2.4 GHz ISM

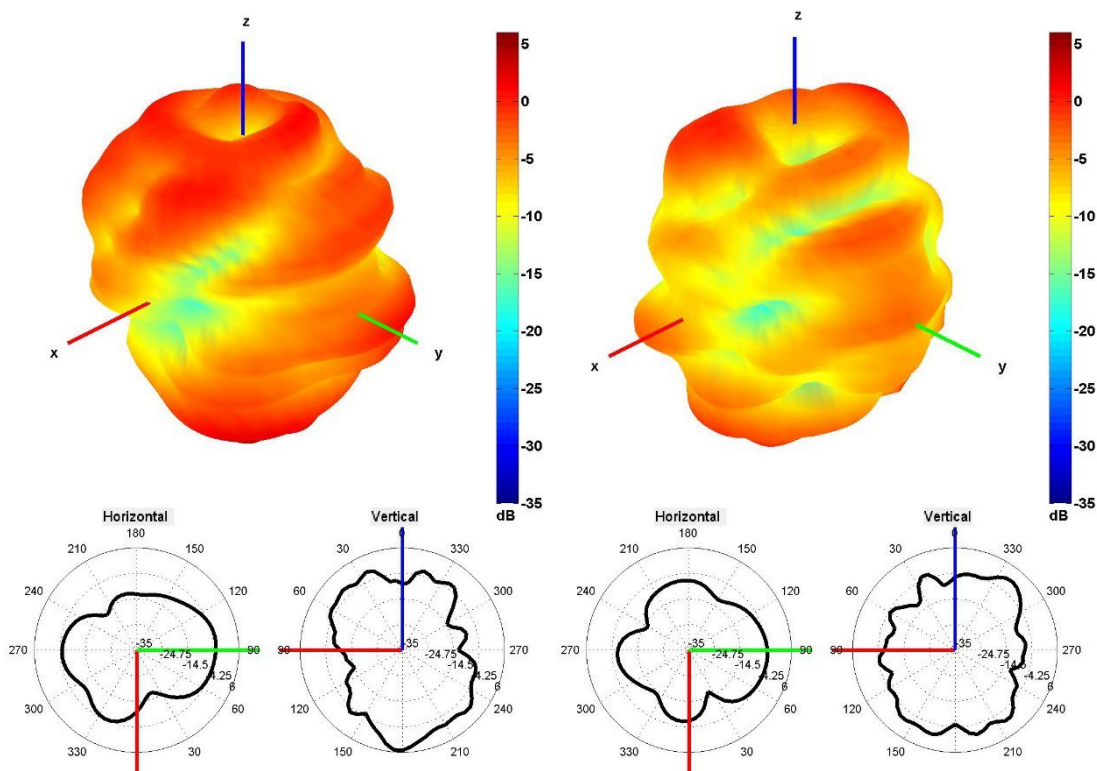




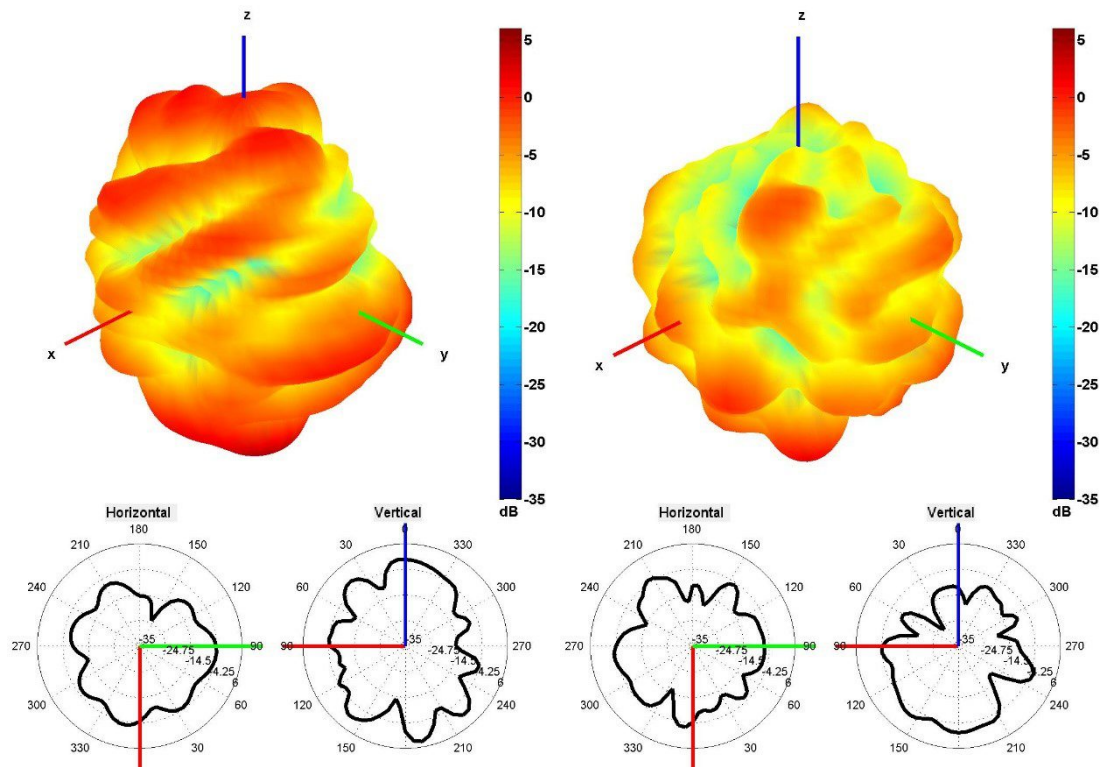


Radiation pattern reference

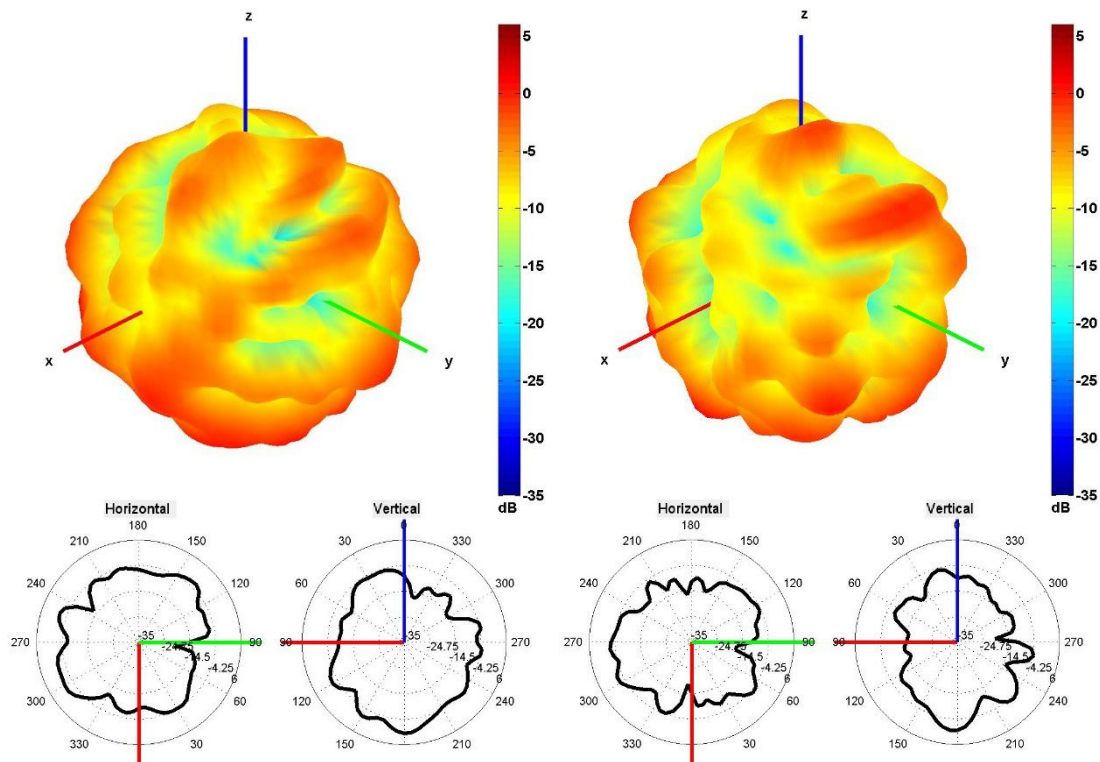
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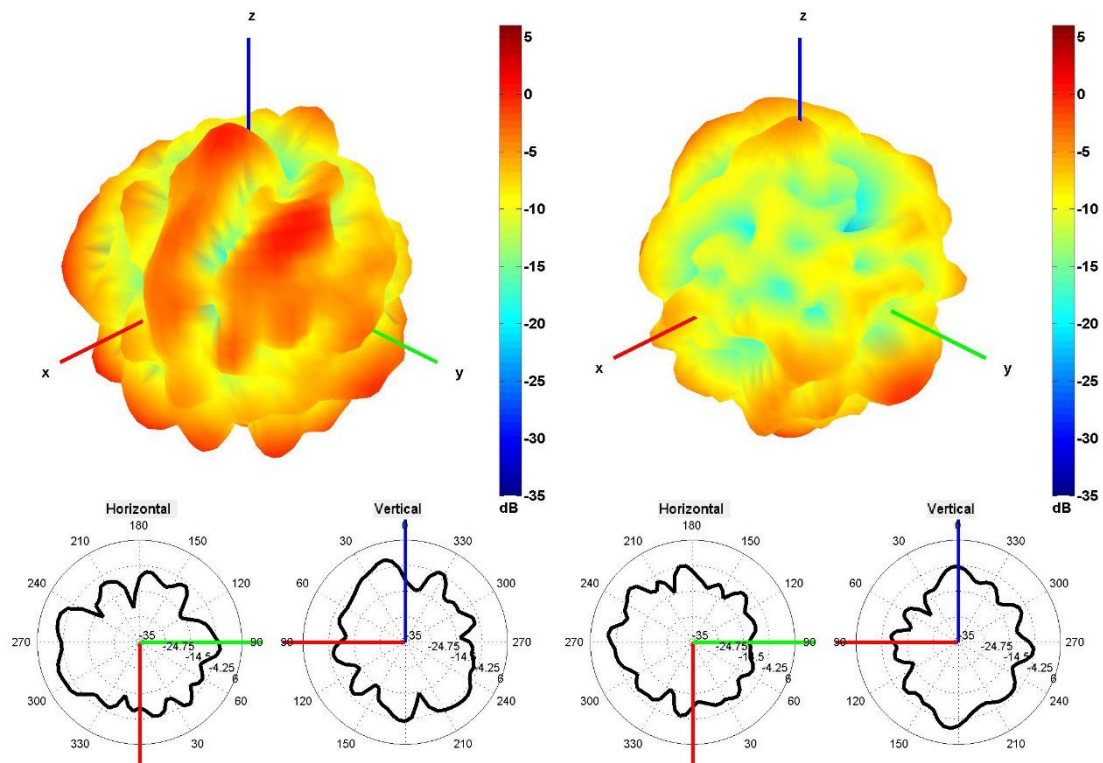
750 and 850 MHz Radiation pattern



940 and 1750 MHz Radiation pattern

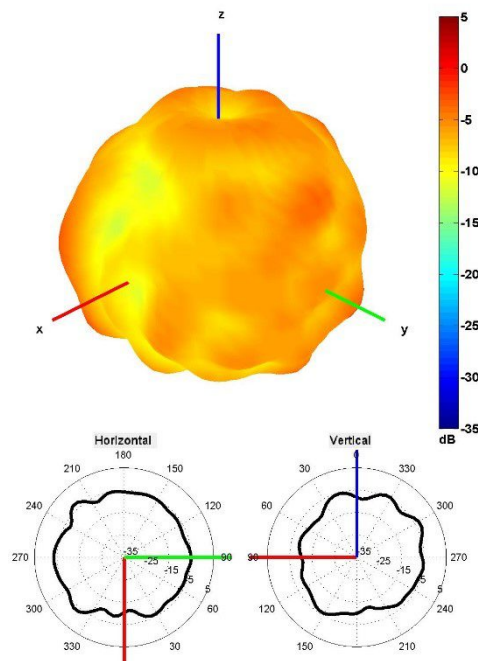


1850 and 1950 MHz Radiation pattern



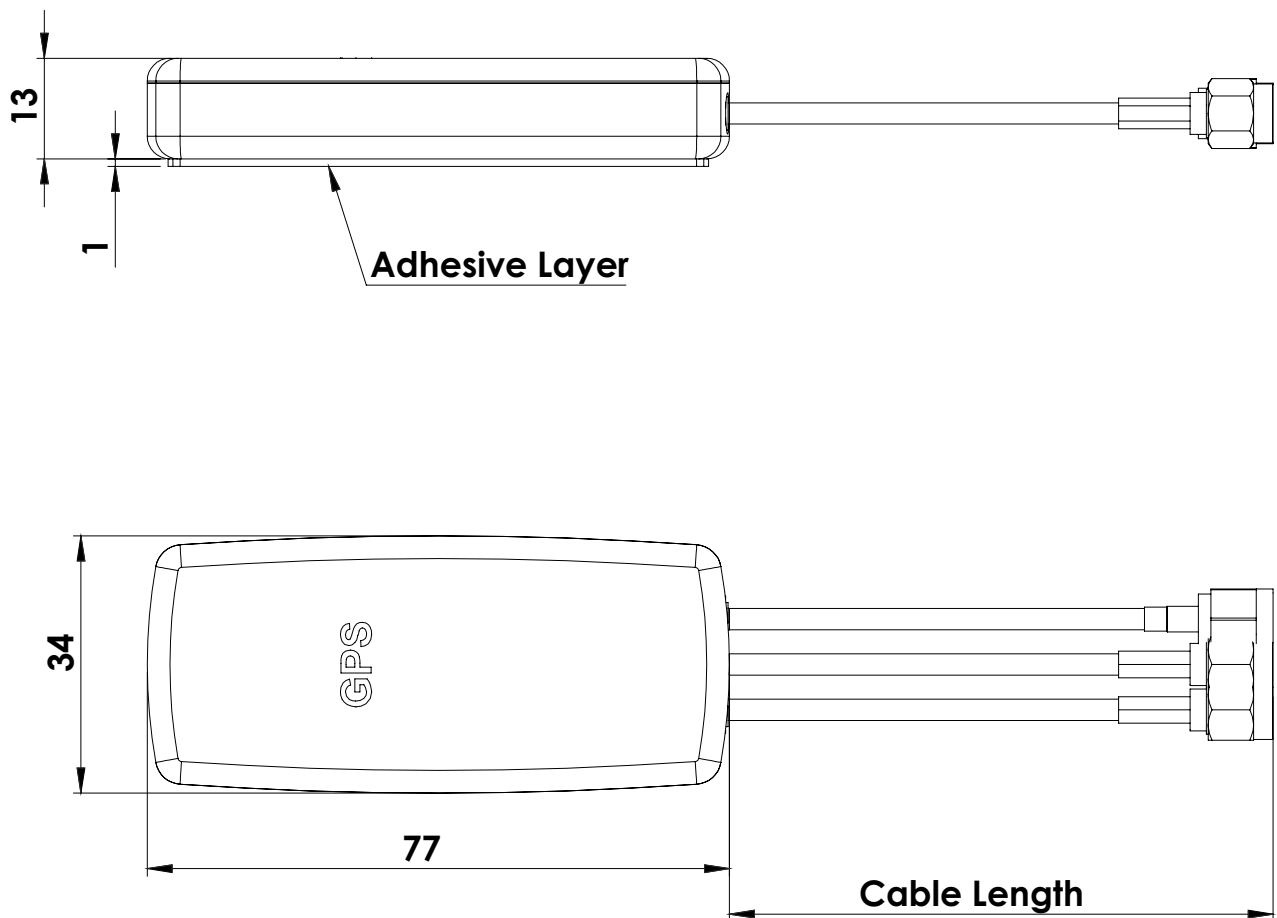
2100 and 2600 MHz Radiation pattern

Cable 2: 2.4 GHz ISM



2450 MHz Radiation pattern

4. Antenna drawings



5. Antenna Images

