

2J4805P

CELLULAR and 2.4/5.0 GHz ISM Adhesive Mount

Key Features

Cable 1: CELLULAR

- 824-960 MHz
- 1710-2170 MHz

Cable 2: 2.4/5.0 GHz ISM

- 2410-2490 MHz
- 4920-5925 MHz

Adhesive Mount

Ground Plane Independent

Customizable Cable and Connector

Dimensions 83 x 35 x 13.3 mm

Certificates: IP67, IP69



Note: Antenna 2J4805PR equipped with 10K resistor for antenna detection is available.



1. Antenna and electrical specifications

Cable 1

Parameters	CELLULAR Antenna	
Standards	2G and 3G	
Band (MHz)	850/900	1700/1800/1900/2100
Frequency (MHz)	824-960	1710-2170
Return Loss (dB)	~-17.0	~-16.7
VSWR	~1.4:1	~1.4:1
Efficiency (%)	~53	~48
Peak Gain (dBi)	~-2.1	~-1.1
Average Gain (dB)	~-2.7	~-3.2
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	LMR100 Standard (Other Cables Available)	

Cable 2

Parameters	2.4/5.0 GHz ISM Antenna	
Standards	WiFi, BT, ZigBee, ISM	
Band (MHz)	2.4 GHz	5.0 GHz
Frequency (MHz)	2410-2490	4920-5925
Return Loss (dB)	~-20.5	~-18.5
VSWR	~1.2:1	~1.3:1
Efficiency (%)	~42	~27
Peak Gain (dBi)	~-2.5	~-0.5
Average Gain (dB)	~-3.7	~-5.6
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	LMR100 Standard (Other Cables Available)	

Antenna Measurement Conditions:

Mounted on 30 x 30 x 0.25 cm ABS Plate

200 cm of Cable LMR100

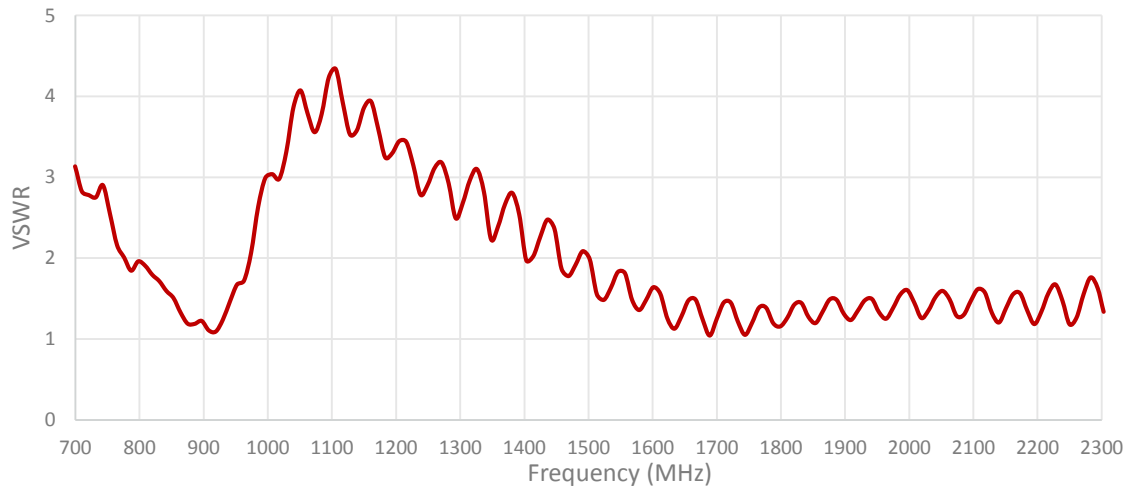
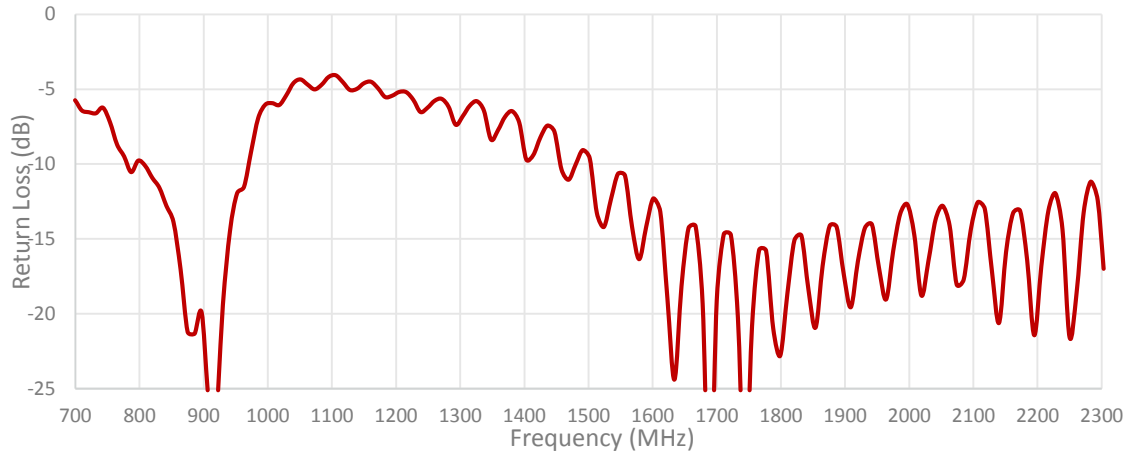
Measured in Certified CTIA 3D Anechoic Chamber

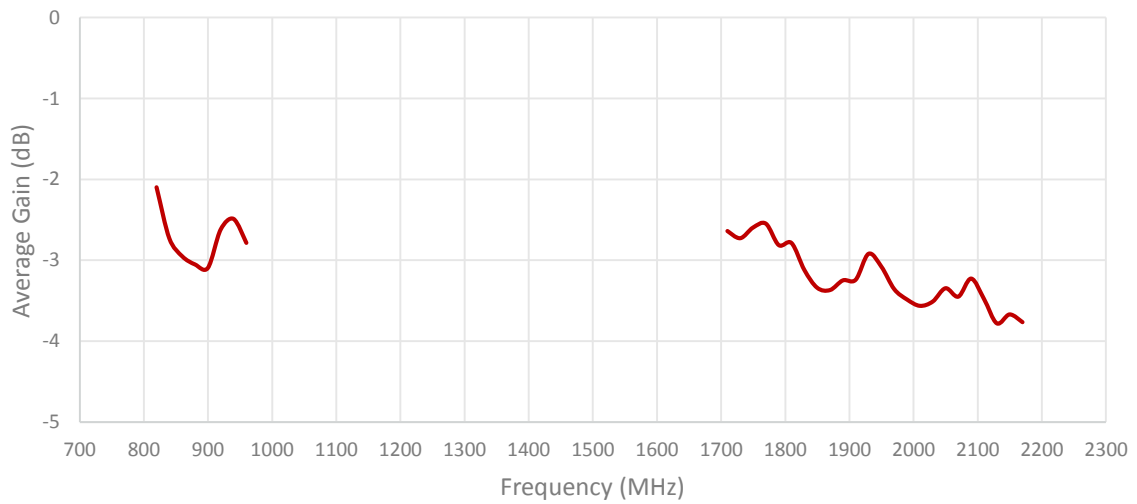
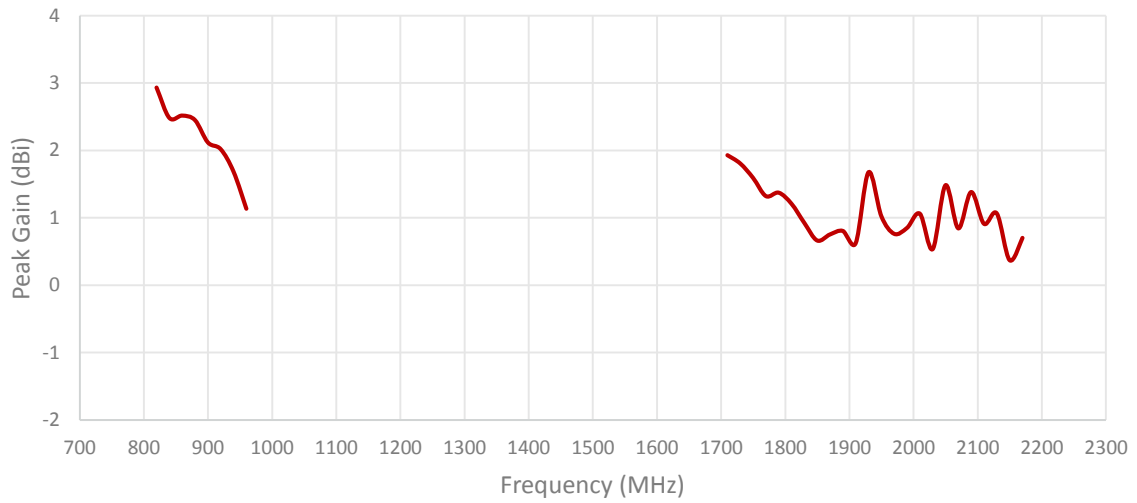
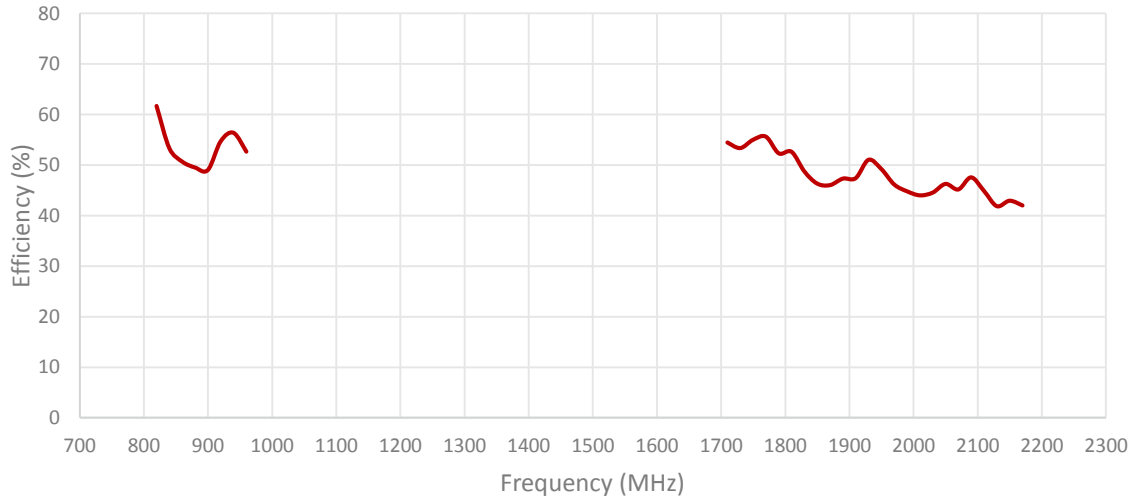
2. Mechanical and environmental specifications

Specifications	2J4805P
Mounting Type	Adhesive Mount
Dimensions (mm)	83 x 35 x 13.3
Radome	ABS UV Stable
Radome color	Black
Operating Temperature (C)	-40 to +85
Storage Temperature (C)	-40 to +85
Substance Compliance	RoHS
Certificates	IP67, IP69

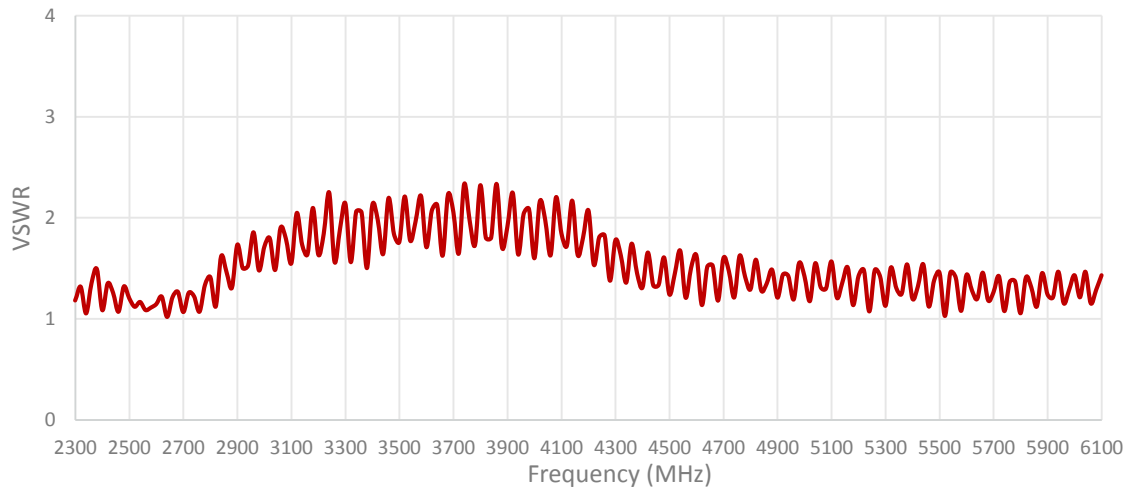
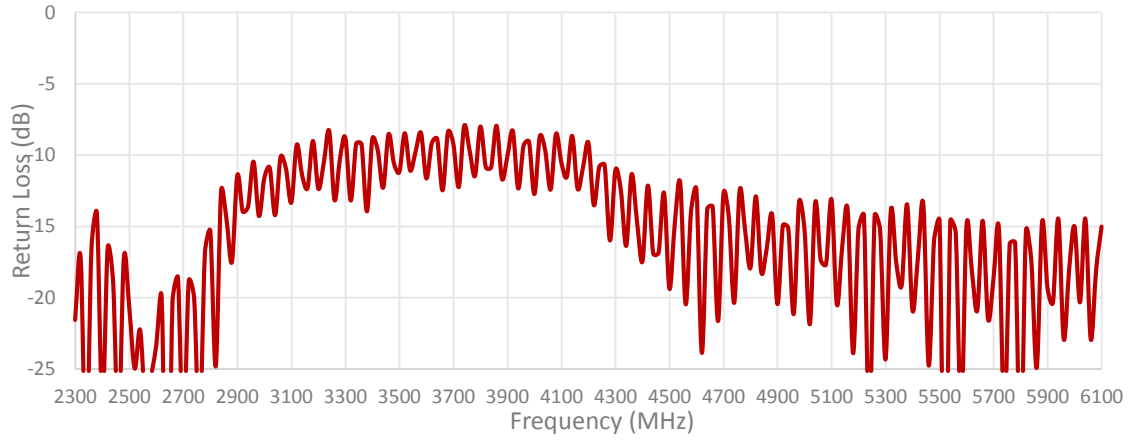
3. Antenna parameters

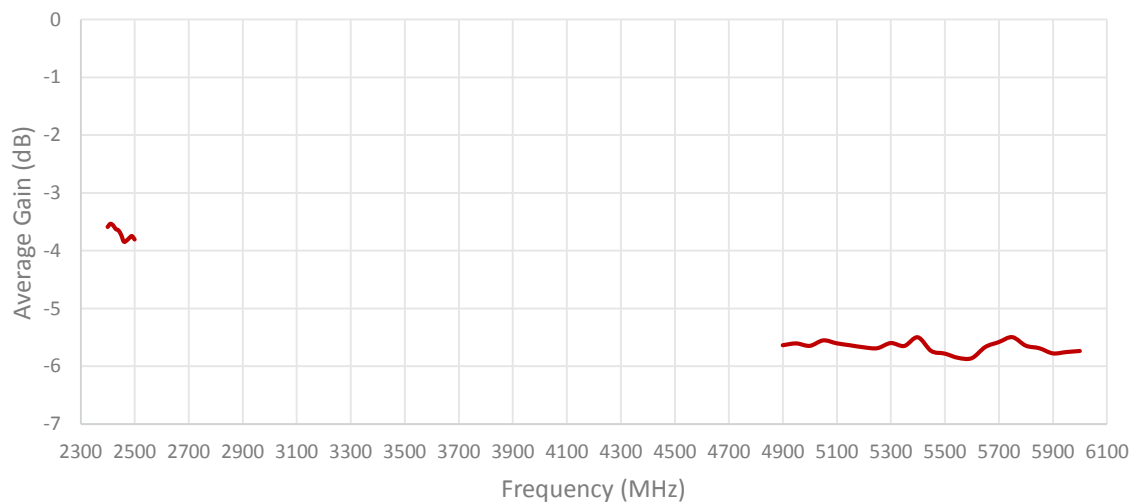
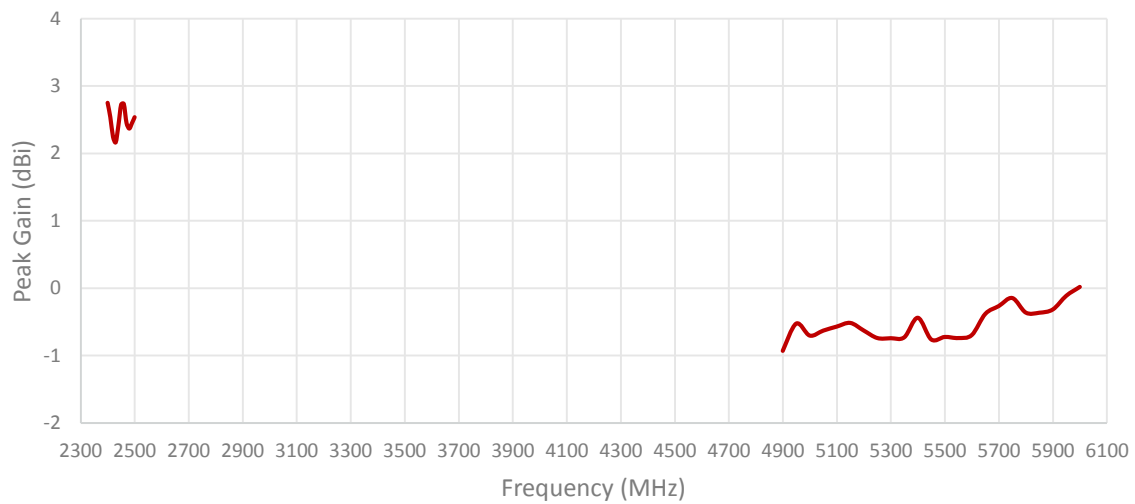
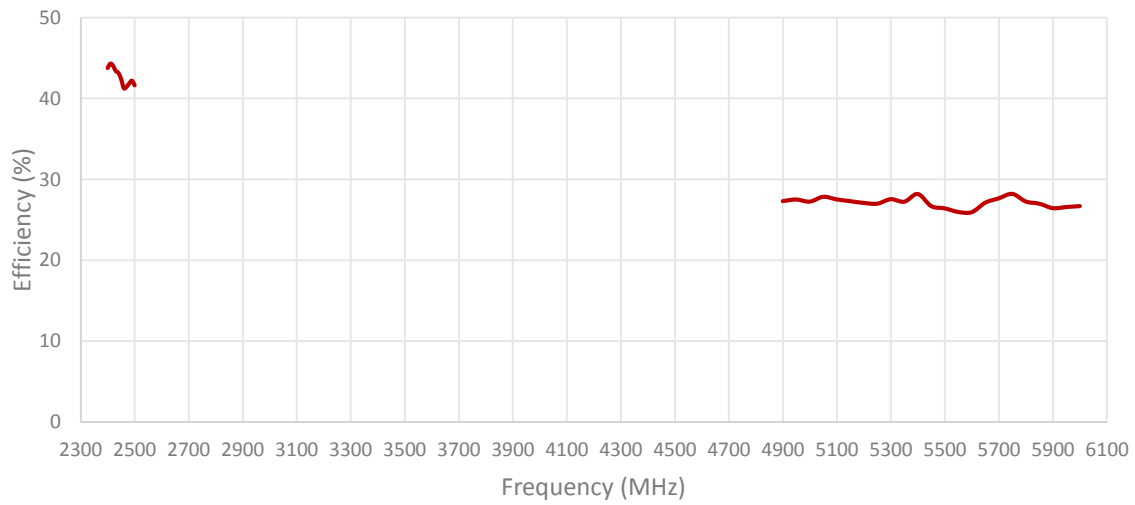
Table 1: CELLULAR

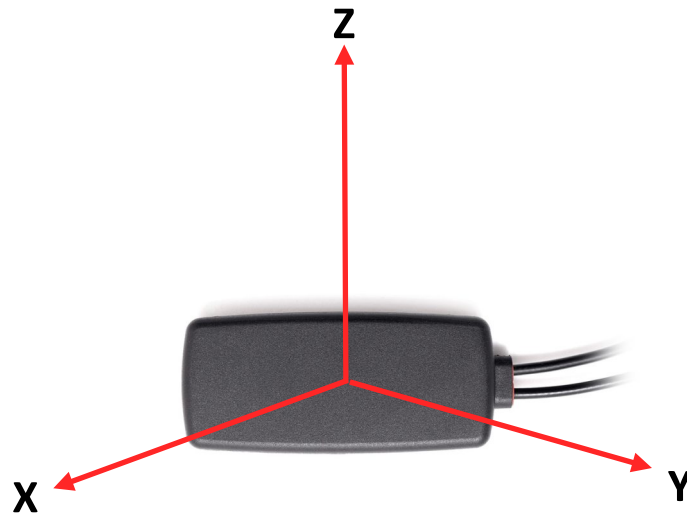




Cable 2: 2.4/5.0 GHz ISM

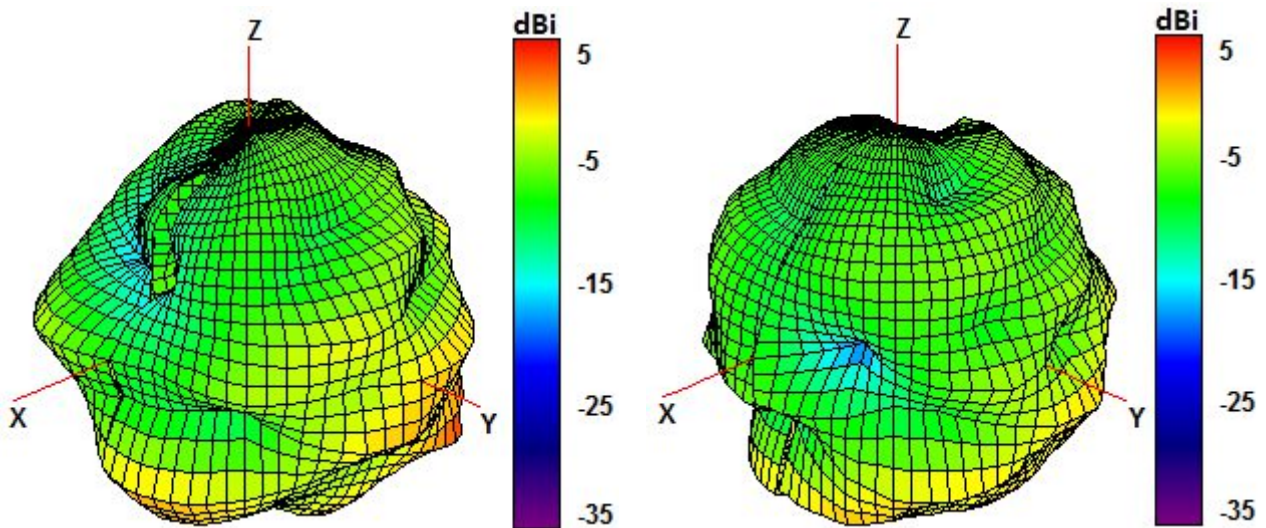




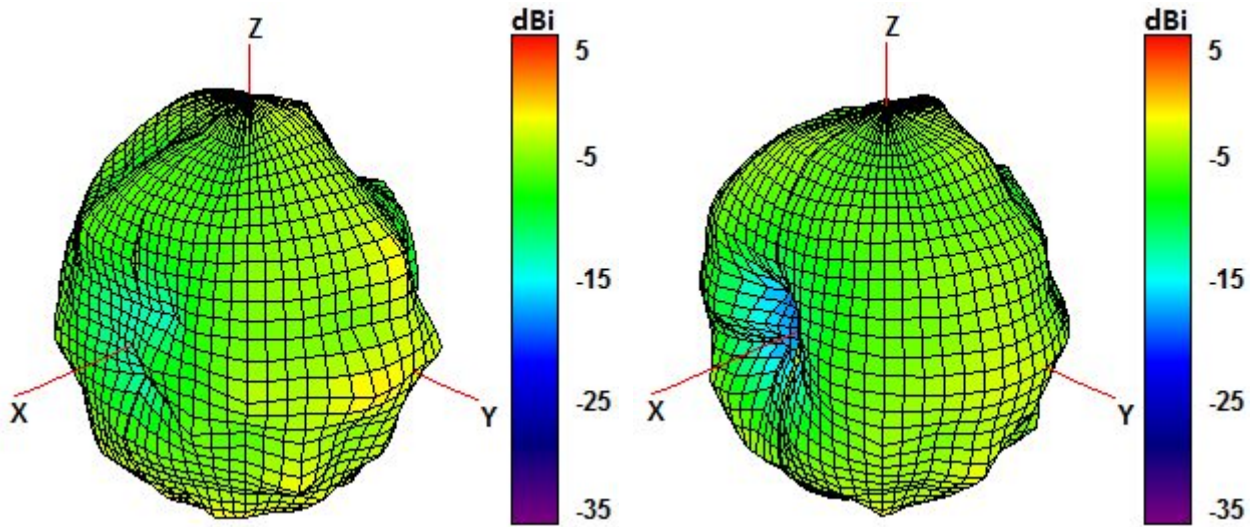


Radiation pattern reference

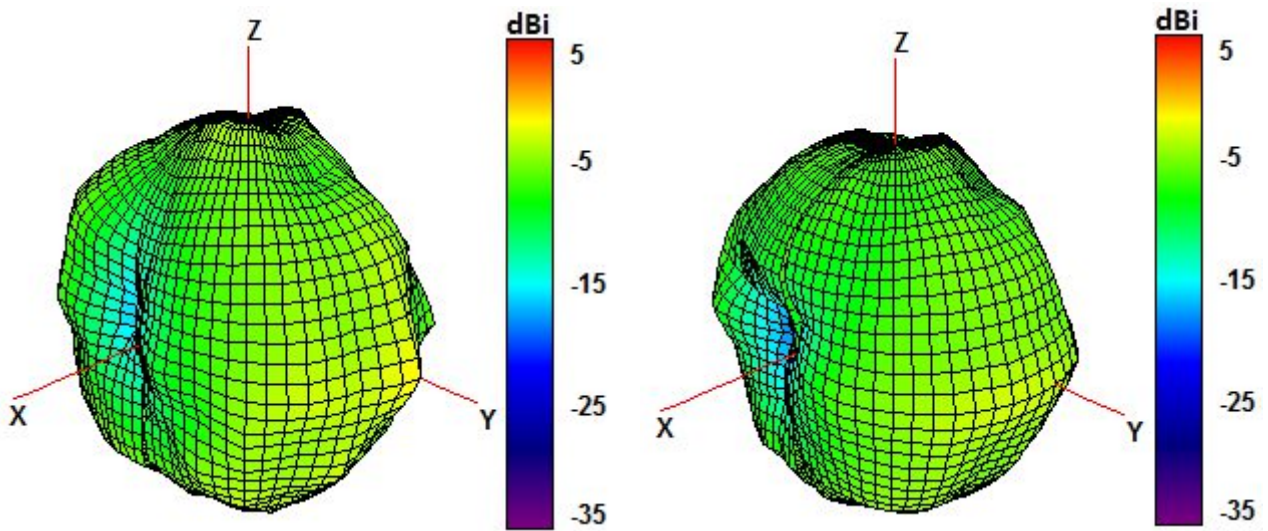
Cable 1: CELLULAR



850 and 940 MHz Radiation pattern

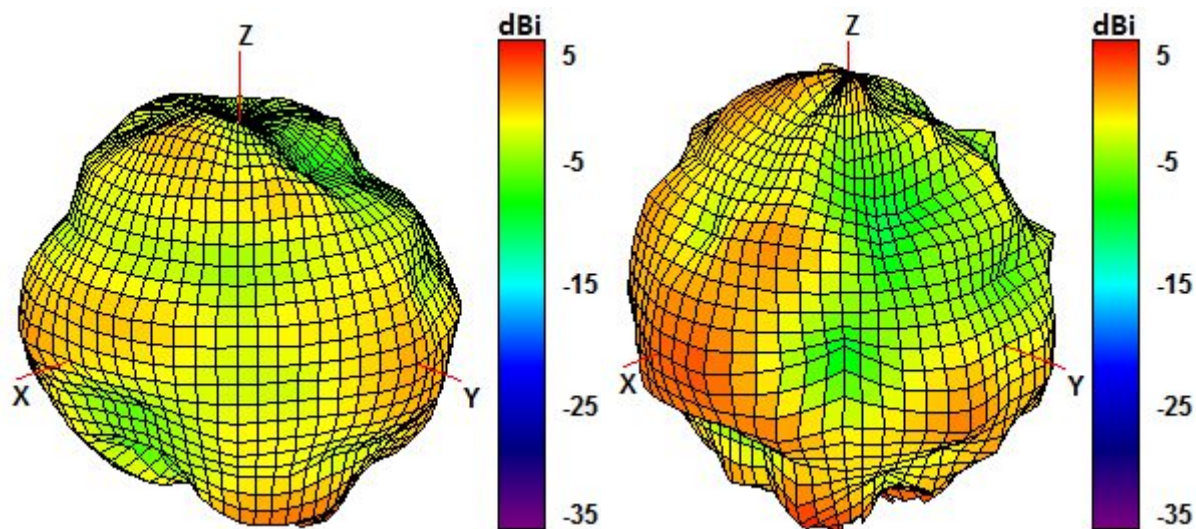


1750 and 1850 MHz Radiation pattern



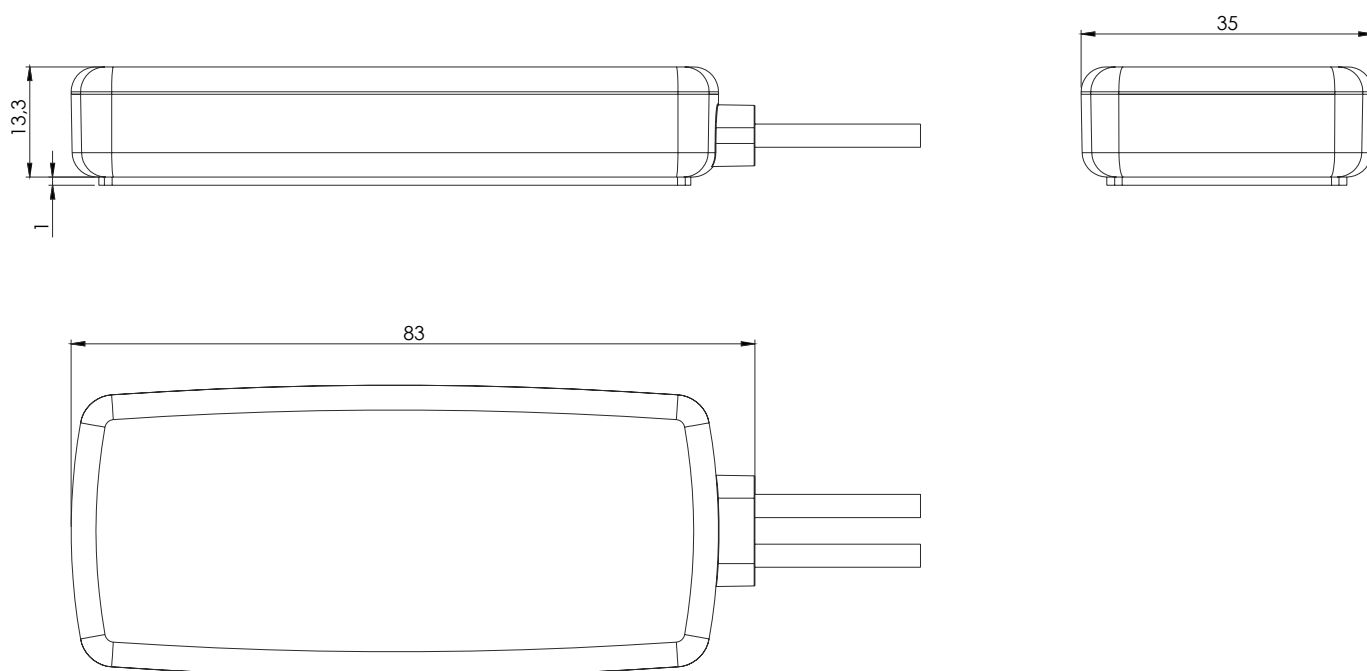
1950 and 2100 MHz Radiation pattern

Cable 2: 2.4/5.0 GHz ISM



2450 and 5500 MHz Radiation pattern

4. Antenna drawings



5. Antenna Images

