2J6605B

CELLULAR and 2.4/5.0GHz ISM Screw 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

Screw Mount
Anti-Rotation Mechanism
Ground Plane Dependent
Customizable Cable and Connector
Dimensions Ø 77.3 x 15 mm
Certificates: IP67, IP69



Note: This product is compatible with Bluetooth® technology but does not incorporate Bluetooth® technology

1. Antenna and electrical specifications

Cable 1

Parameters	CELLULAR Antenna	
Standards	2G/3G	
Band (MHz)	850/900	1700/1800/1900/2100
Frequency (MHz)	824-960	1710-2170
Return Loss (dB)	~-7.6	~-10.2
VSWR	~2.7:1	~1.9:1
Efficiency (%)	~19.0	~16.9
Peak Gain (dBi)	~-3.0	~-1.4
Average Gain (dB)	~-8.1	~-7.9
Impendance (Ohm)	50	
Polarisation	Linear	
Radiation Pattern	Omni-Directional	
Max. Input Power (W)	100	
Connector Type	SMA-Male (Other Connectors Available)	
Cable Length	300 cm (Any Cable Length Available)	
Cable Type	RG174 (Other Cables Available)	

Cable 2

Parameters	2.4/5.0 GHz ISM Antenna	
Standards	WiFi, Bluetooth®, ZigBee, ISM	
Band (MHz)	2.4 GHz	5.0 GHz
Frequency (MHz)	2410-2490	4920-5925
Return Loss (dB)	~-15.3	~-17.5
VSWR	~1.4:1	~1.4:1
Efficiency (%)	~18.2	~10.0
Peak Gain (dBi)	~-1.6	~-2.0
Average Gain (dB)	~-7.5	~-10.2
Impendance (Ohm)	50	
Polarisation	Linear	
Radiation Pattern	Omni-Directional	
Max. Input Power (W)	25	
Connector Type	SMA-Male-RP Standard (Other Connectors Available)	
Cable Length	300 cm Standard (Any Cable Length Available)	
Cable Type	RG174 Standard (Other Cables Available)	

Antenna Measurement Conditions:

Mounted on 30 x 30 cm Ground Plane

200 cm of RG174

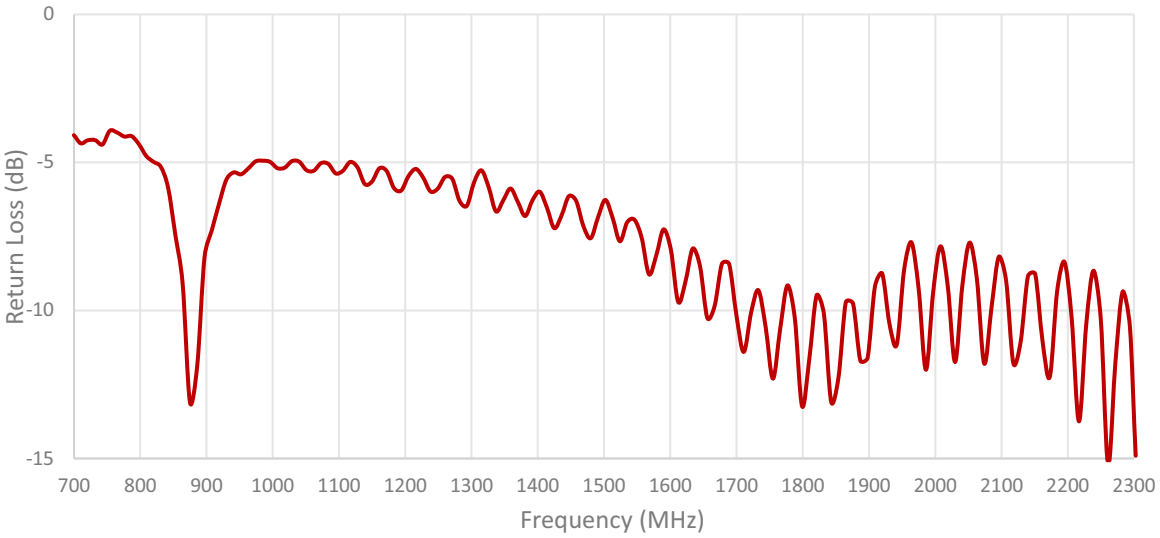
Measured in Certified CTIA 3D Anechoic Chamber

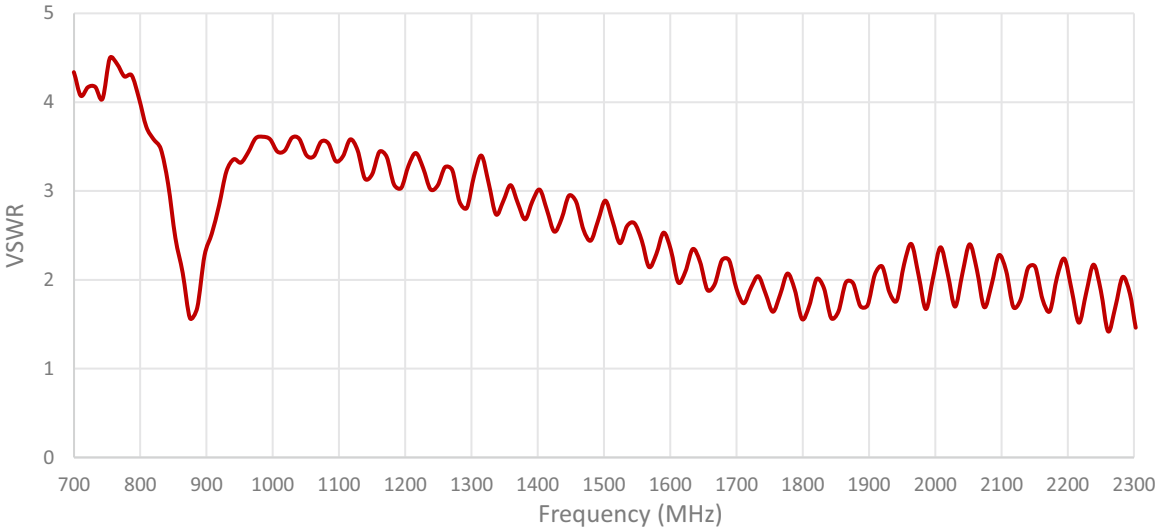
2. Mechanical and environmental specifications

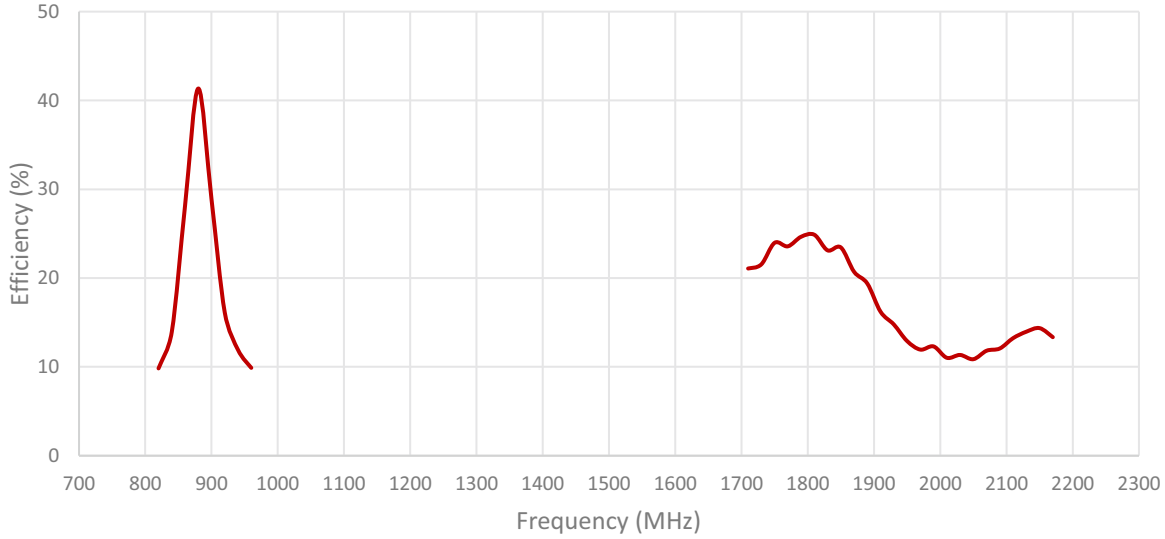
Specifications	2J6605B
Mounting Type	Screw Mount
Dimensions (mm)	Ø 77.3 x 15
Max. Tighten Torque (Nm)	6 Nm
Radome	ASA
Radome color	Black
Antenna Base	Zamak
Gasket	TPE
Operating Temperature (C)	-40 to +85
Storage Temperature (C)	-40 to +85
Substance Compliance	RoHS
Certificates	IP67, IP69

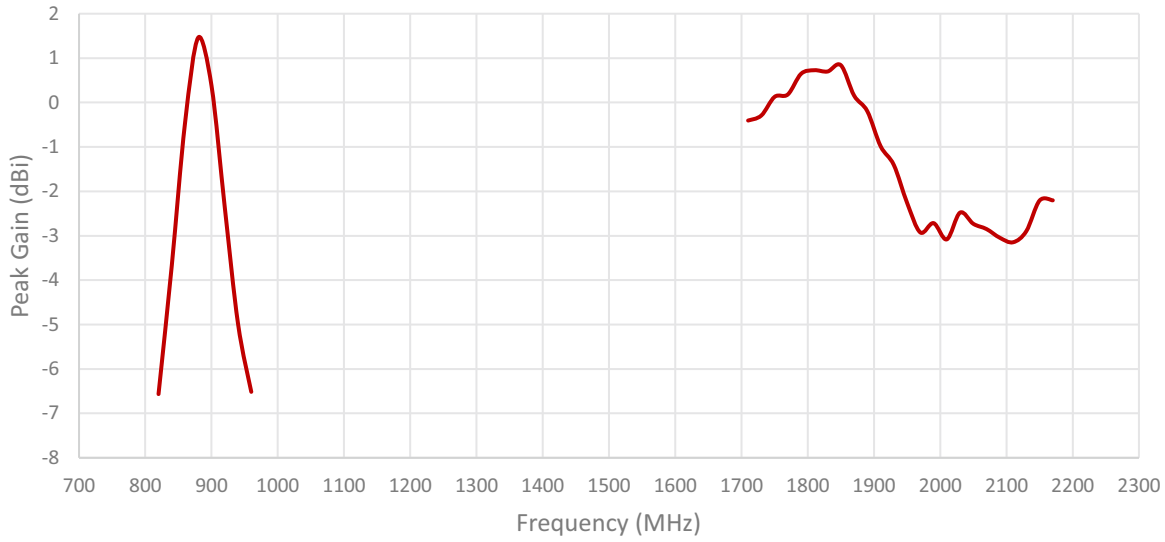
3. Antenna parameters

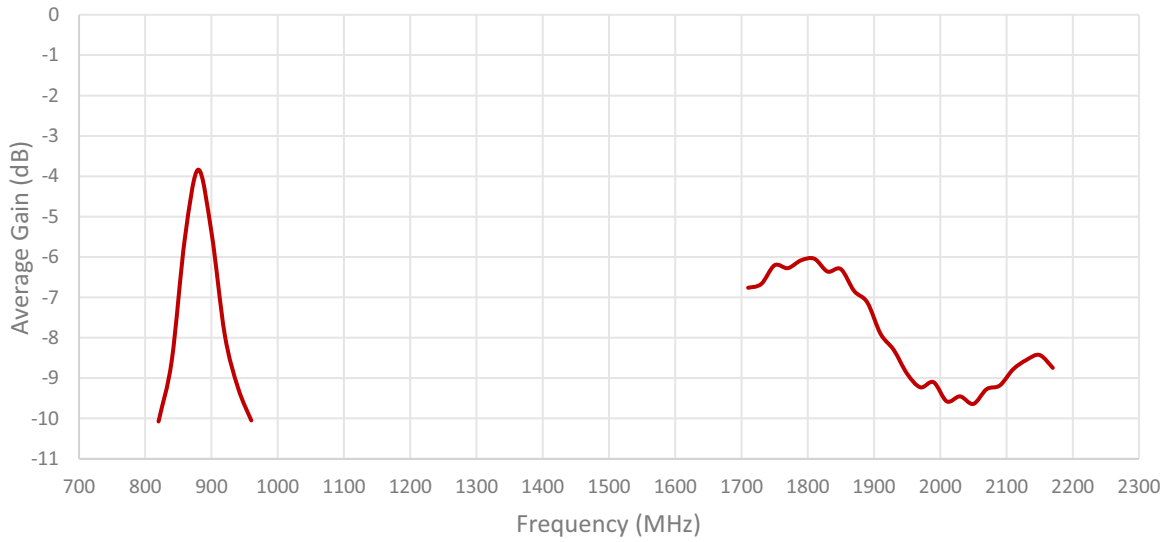
Cable 1: CELLULAR



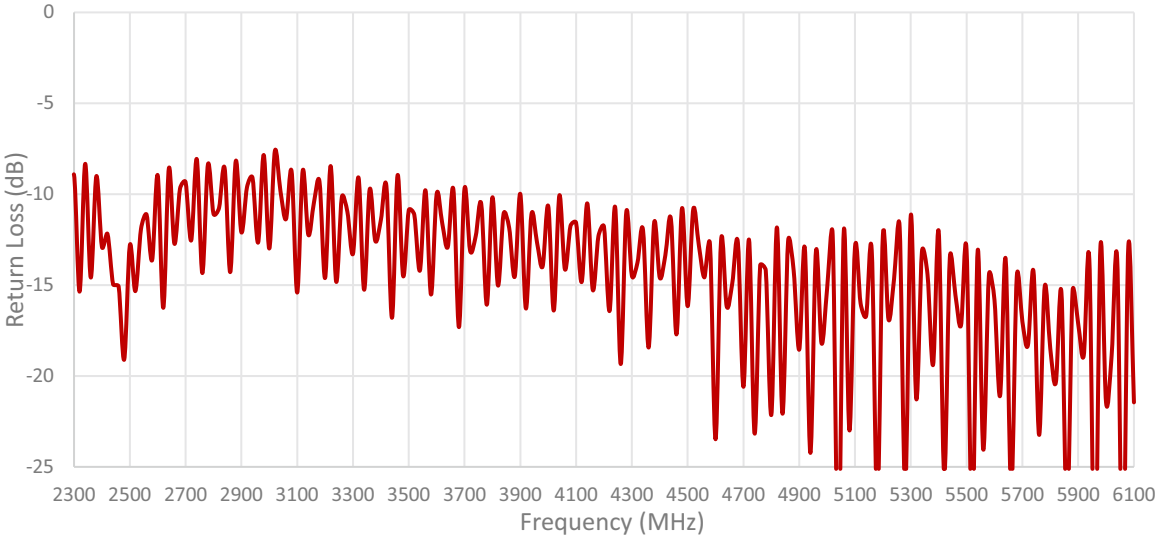


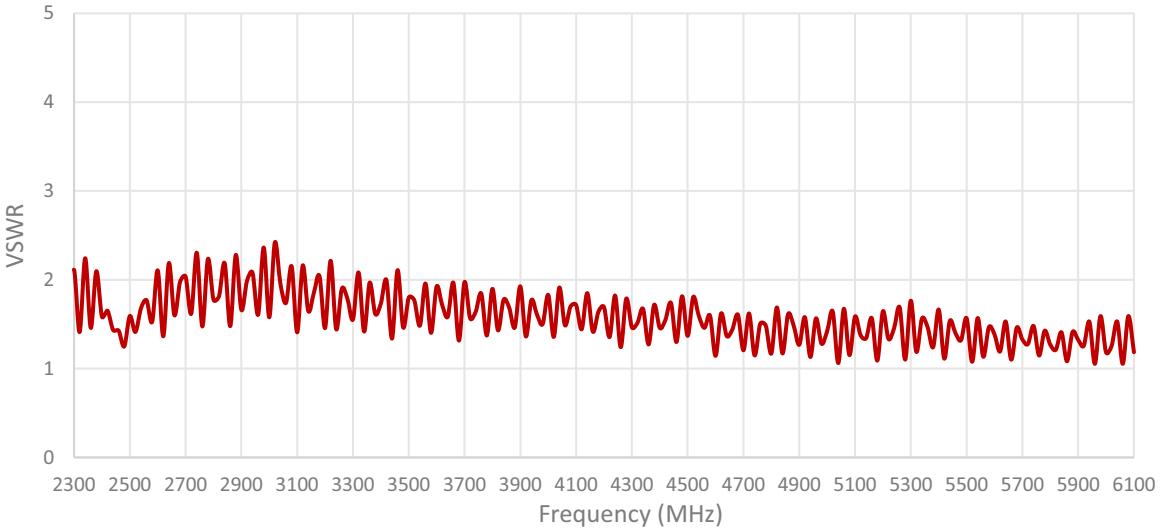

Efficiency (%)
50
40
30
20
10
0
700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200 2300
Frequency (MHz)

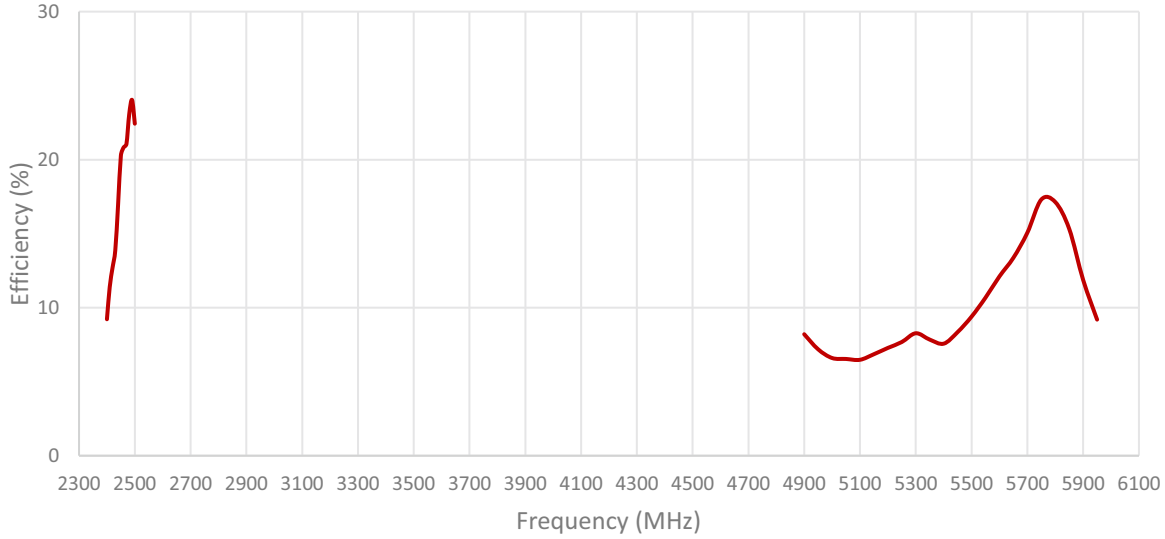

Peak Gain (dBi)
2
1
0
-1
-2
-3
-4
-5
-6
-7
-8
700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200 2300
Frequency (MHz)

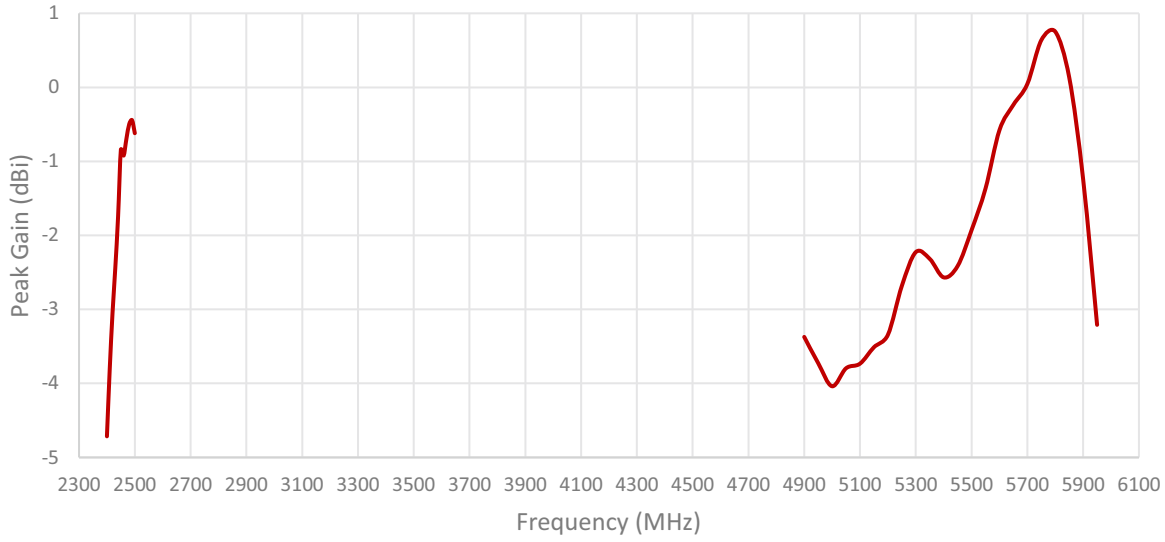

Average Gain (dB)
0
-1
-2
-3
-4
-5
-6
-7
-8
-9
-10
-11
700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200 2300
Frequency (MHz)

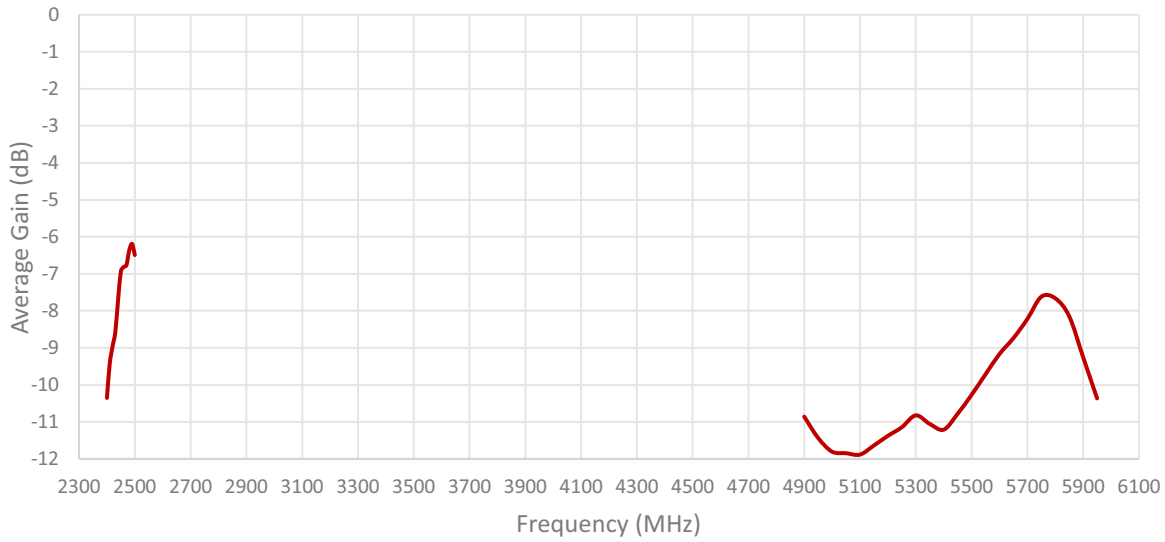
Cable 2: 2.4/5.0 GHz ISM

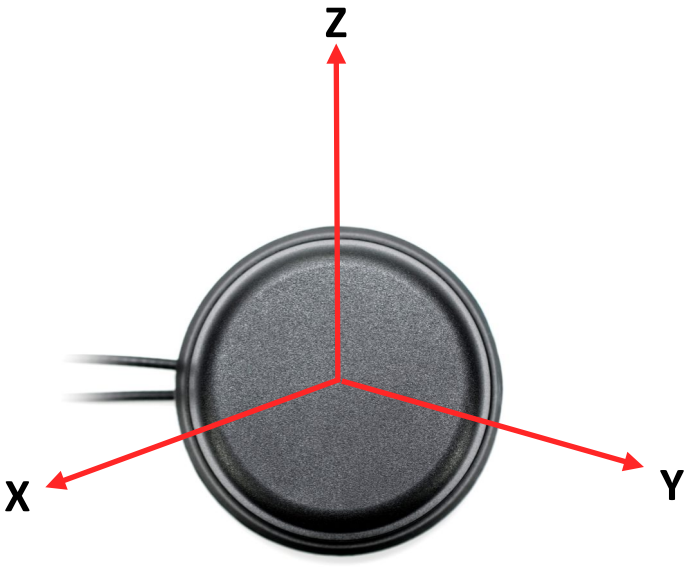





30
20
10
0
Efficiency (%)
2300 2500 2700 2900 3100 3300 3500 3700 3900 4100 4300 4500 4700 4900 5100 5300 5500 5700 5900 6100
Frequency (MHz)

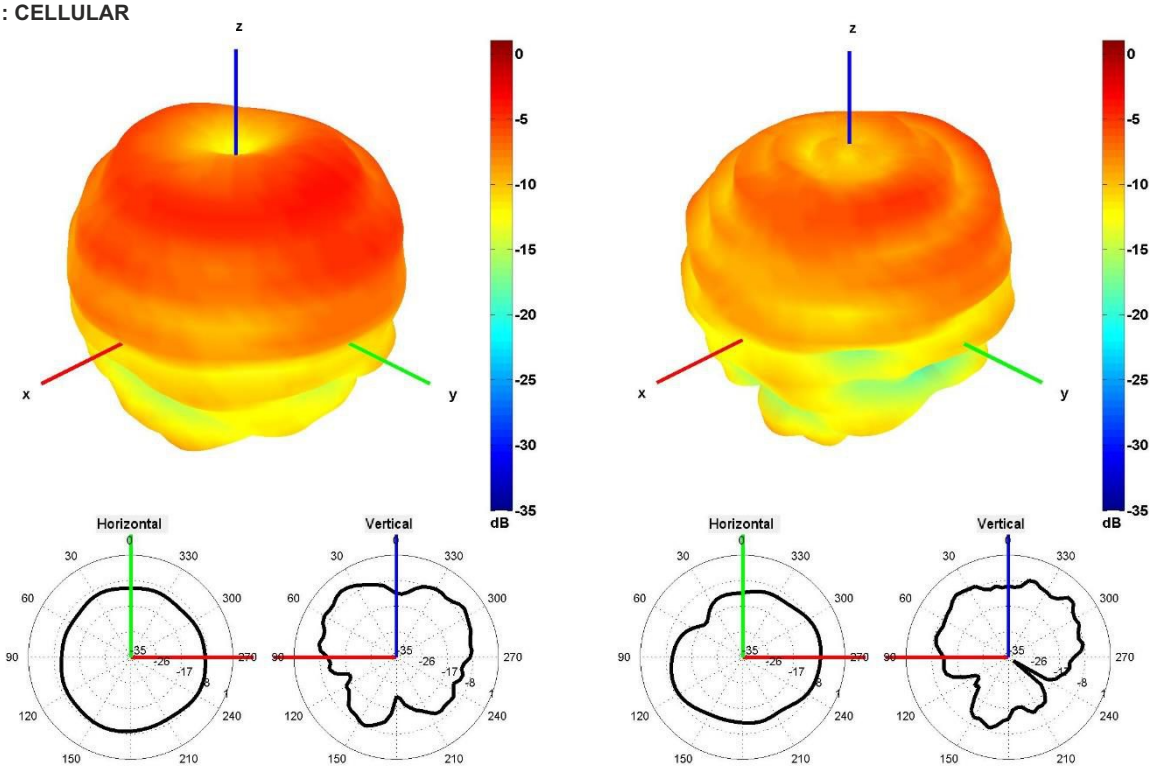

1
0
-1
-2
-3
-4
-5
Peak Gain (dBi)
2300 2500 2700 2900 3100 3300 3500 3700 3900 4100 4300 4500 4700 4900 5100 5300 5500 5700 5900 6100
Frequency (MHz)


0
-1
-2
-3
-4
-5
-6
-7
-8
-9
-10
-11
-12
Average Gain (dB)
2300 2500 2700 2900 3100 3300 3500 3700 3900 4100 4300 4500 4700 4900 5100 5300 5500 5700 5900 6100
Frequency (MHz)

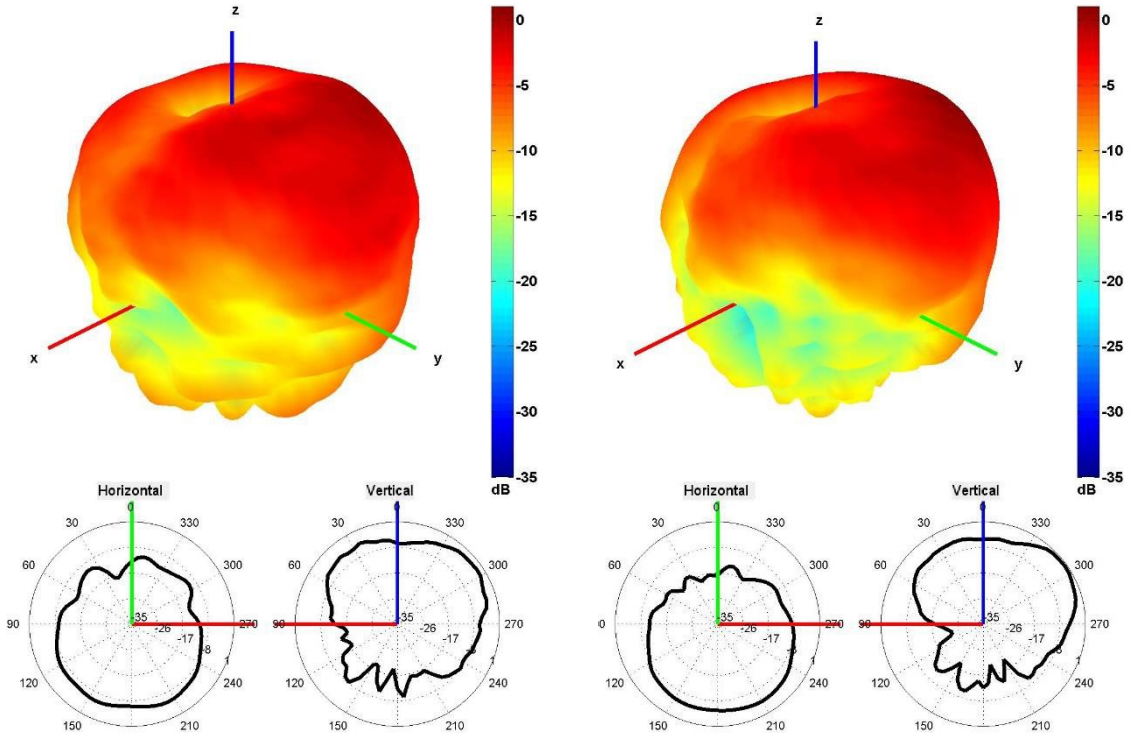


Radiation pattern reference

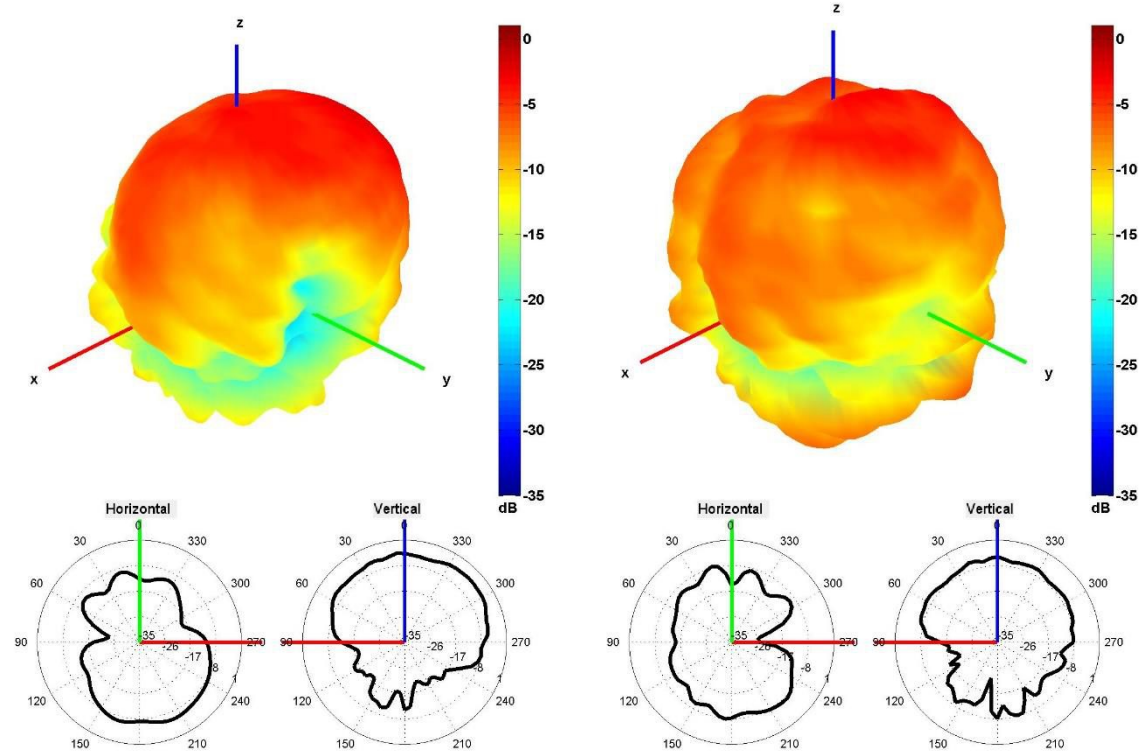
Cable 1: CELLULAR



750 and 850 MHz Radiation pattern

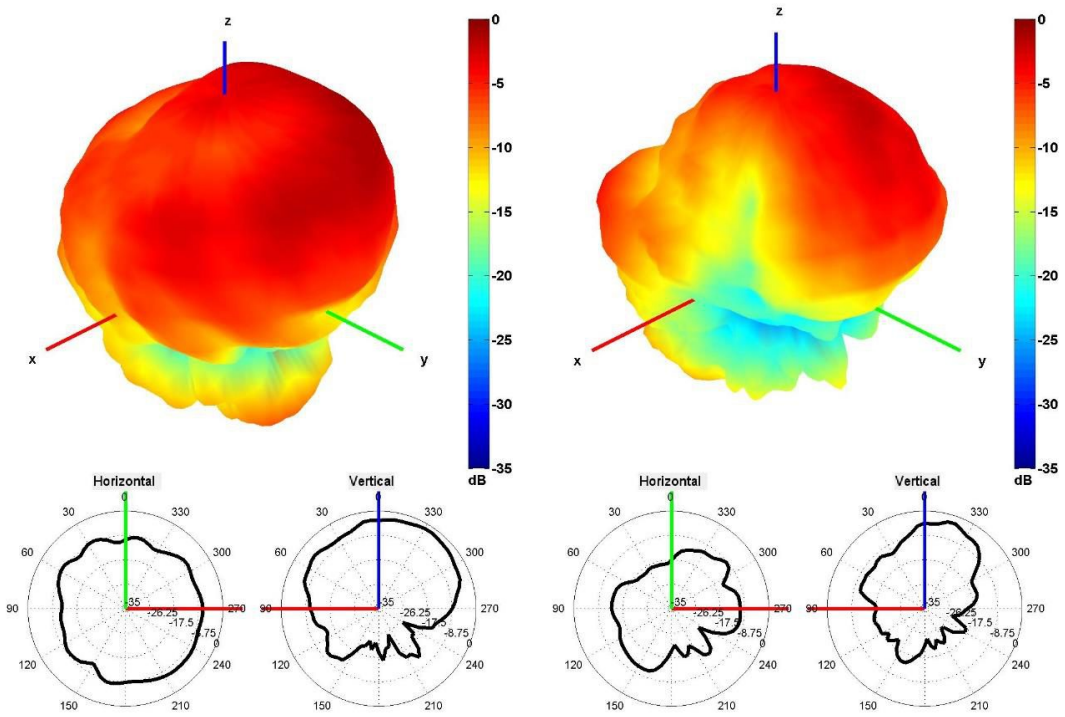


1750 and 1850 MHz Radiation pattern



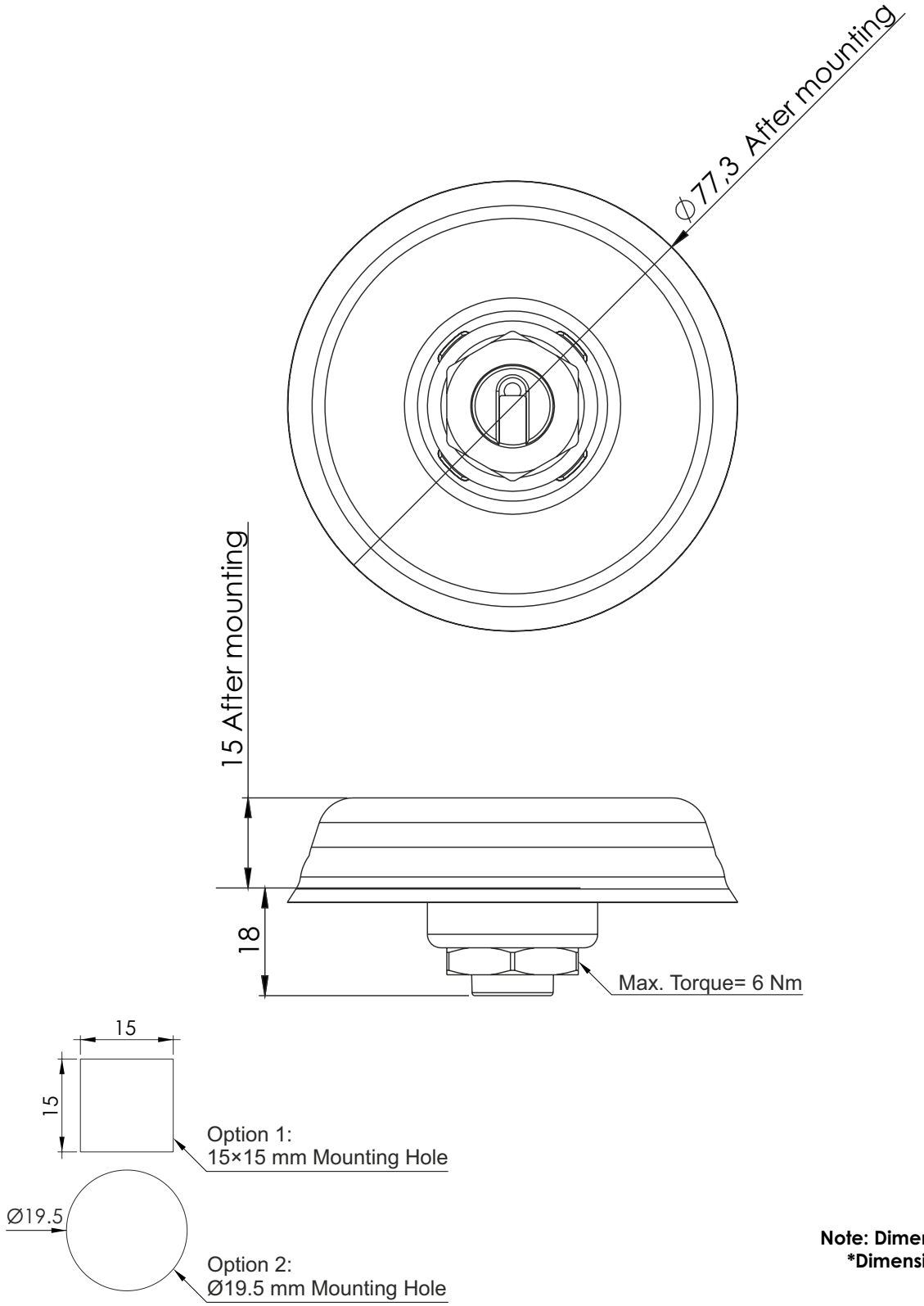
1950 and 2100 MHz Radiation pattern

Cable 2: 2.4/5.0 GHz ISM



2450 and 5500 MHz Radiation pattern

4. Antenna drawings



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

5. Antenna Images



