antenna conceptor

Product Datasheet

2J6604B

CELLULAR Screw Mount



Key Features

Cable 1: CELLULAR
- 824-960 MHz
- 1710-2170 MHz

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

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)	~-7.4	~-11.5
VSWR	~2.8:1	~1.8:1
Efficiency (%)	~20.0	~25.6
Peak Gain (dBi)	~-2.8	~0.1
Average Gain (dB)	~-7.8	~-6.1
Impendance (Ohm)	50	
Polarisation	Linear	
Radiation Pattern	Omni-Directional	
Max. Input Power (W)	25	
Connector Type	SMA-Male (Other Connectors Available)	
Cable Length	300 cm (Any Cable Length Available)	
Cable Type	RG174 (Other Cables Available)	

Antenna Measurement Conditions:

Mounted on Ground Plane of 30x30 cm

200 cm of RG174 Cable

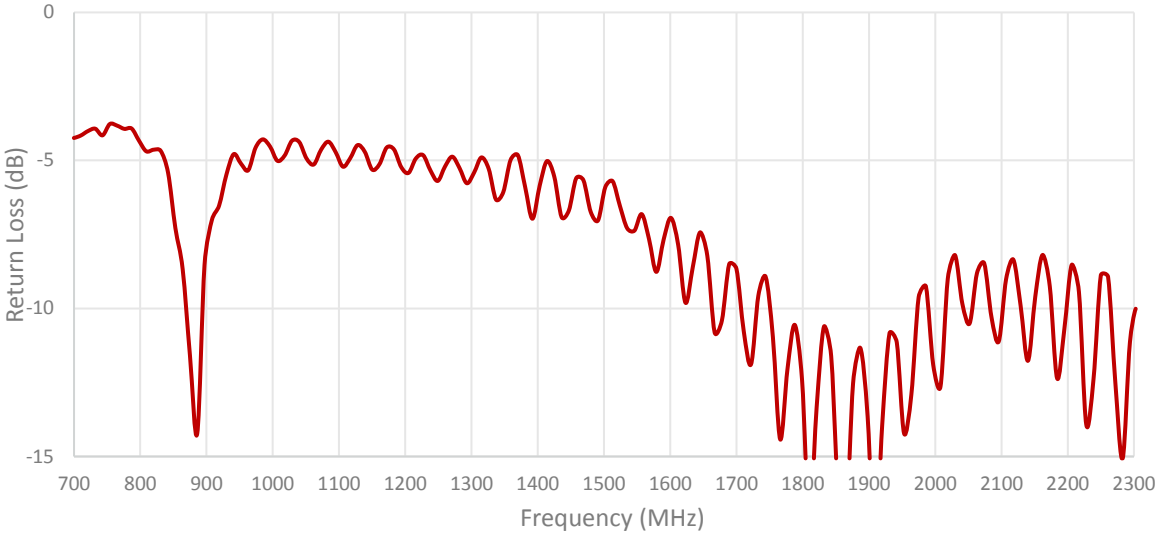
Measured in Certified CTIA 3D Anechoic Chamber

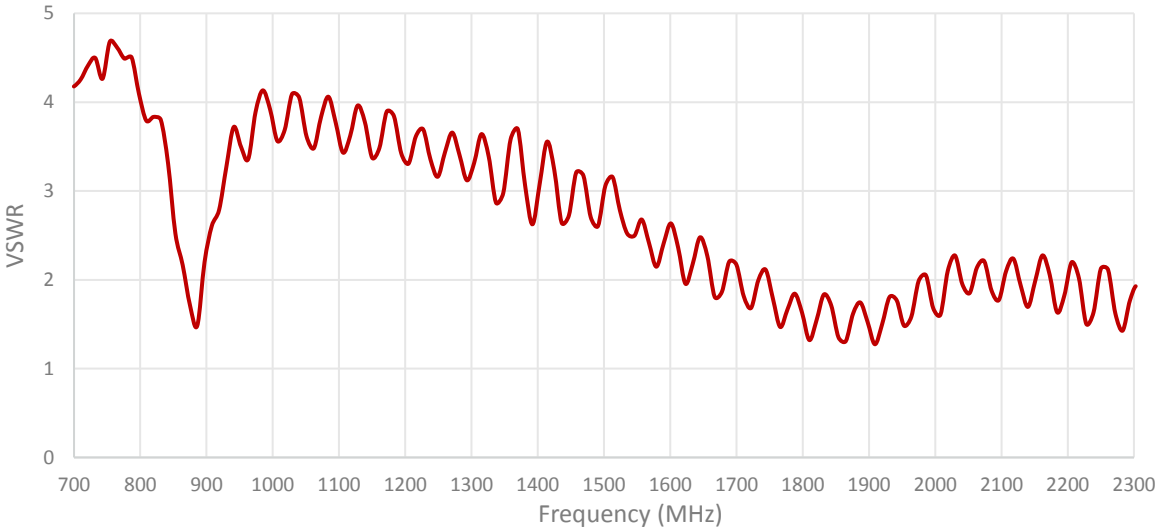
2. Mechanical and environmental specifications

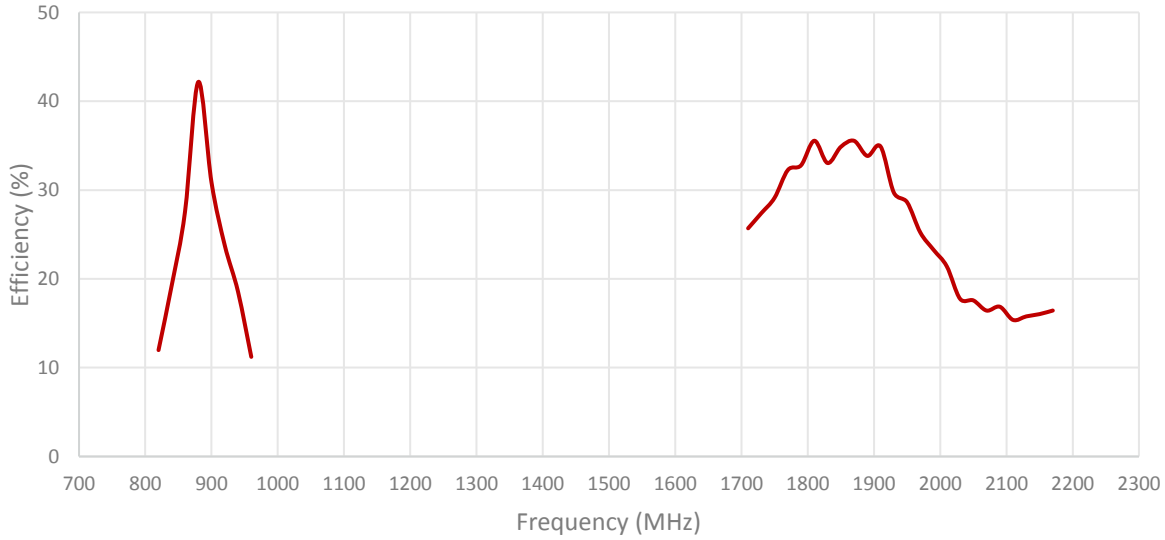
Specifications	2J6604B
Mounting Type	Screw Mount
Dimensions (mm)	Ø 77.3 × 15
Max. Tighten Torque (Nm)	6 Nm
Radome	ASA
Radome color	Black or White
Antenna Base	Zamak
Gasket	TPE
Operating Temperature (C)	-40 to +85
Storage Temperature (C)	-40 to +85
Substance Compliance	RoHS
Certificates	IP67, IP69K

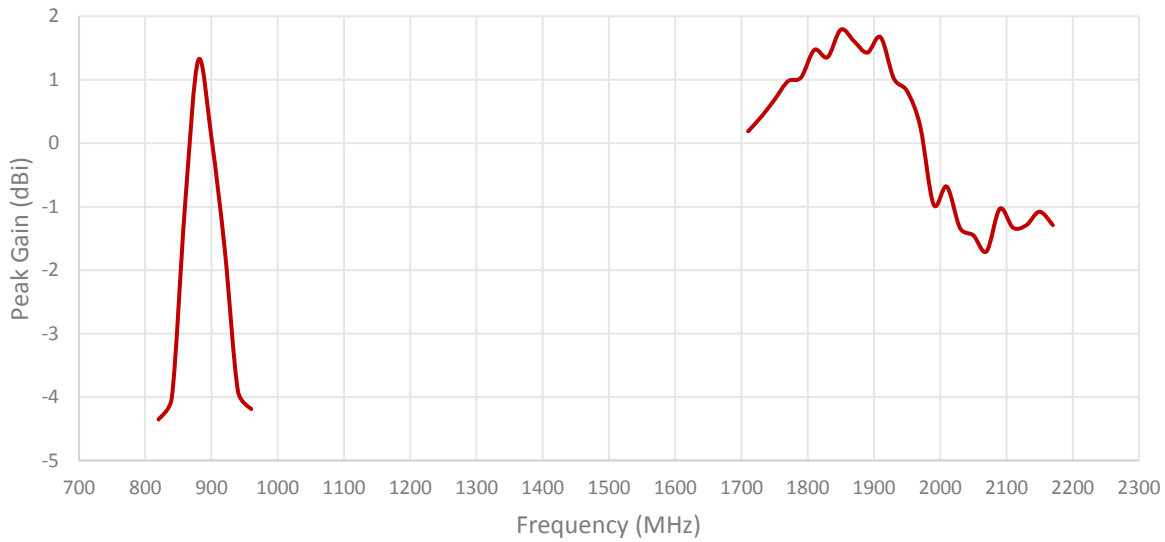
3. Antenna parameters

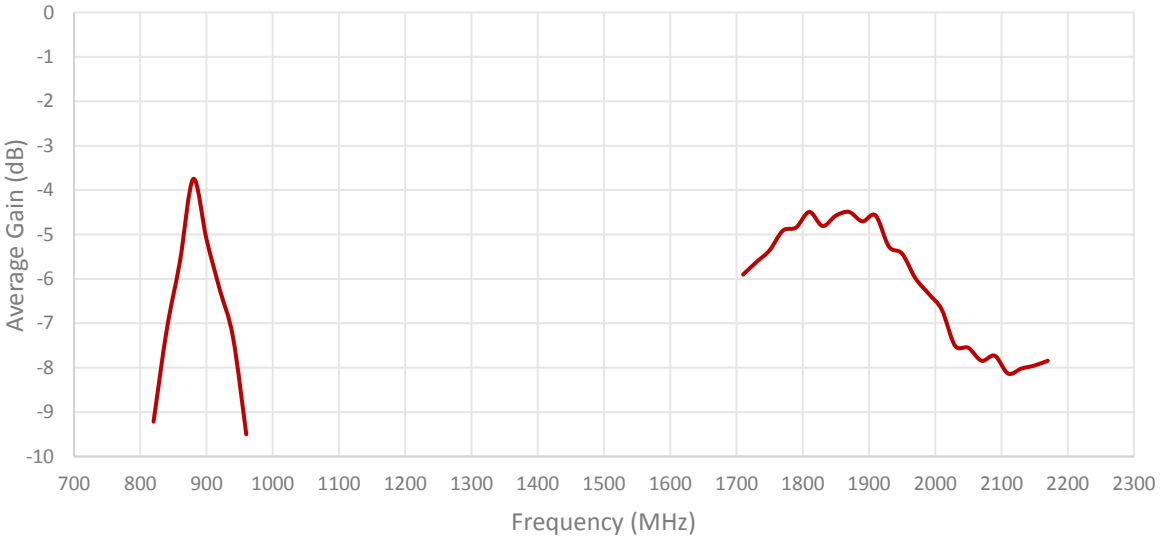
Cable 1: CELLULAR

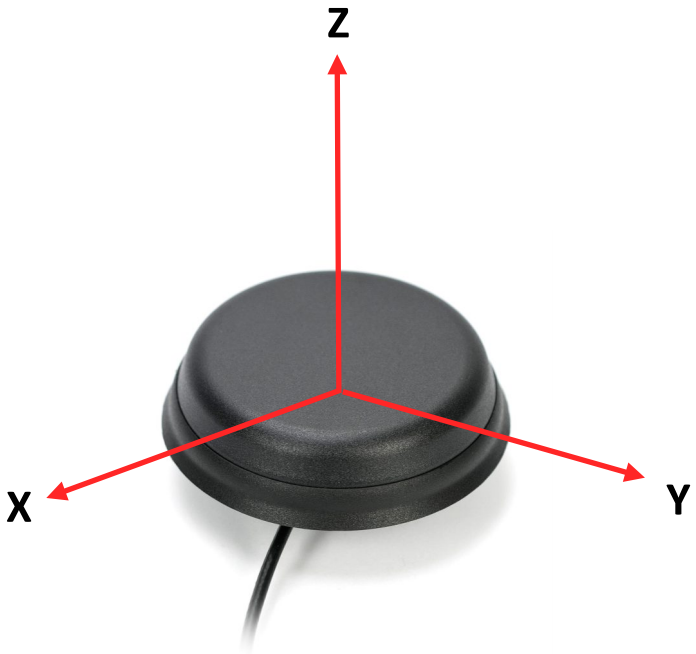





50
40
30
20
10
0
Efficiency (%)
700
800
900
1000
1100
1200
1300
1400
1500
1600
1700
1800
1900
2000
2100
2200
2300
Frequency (MHz)

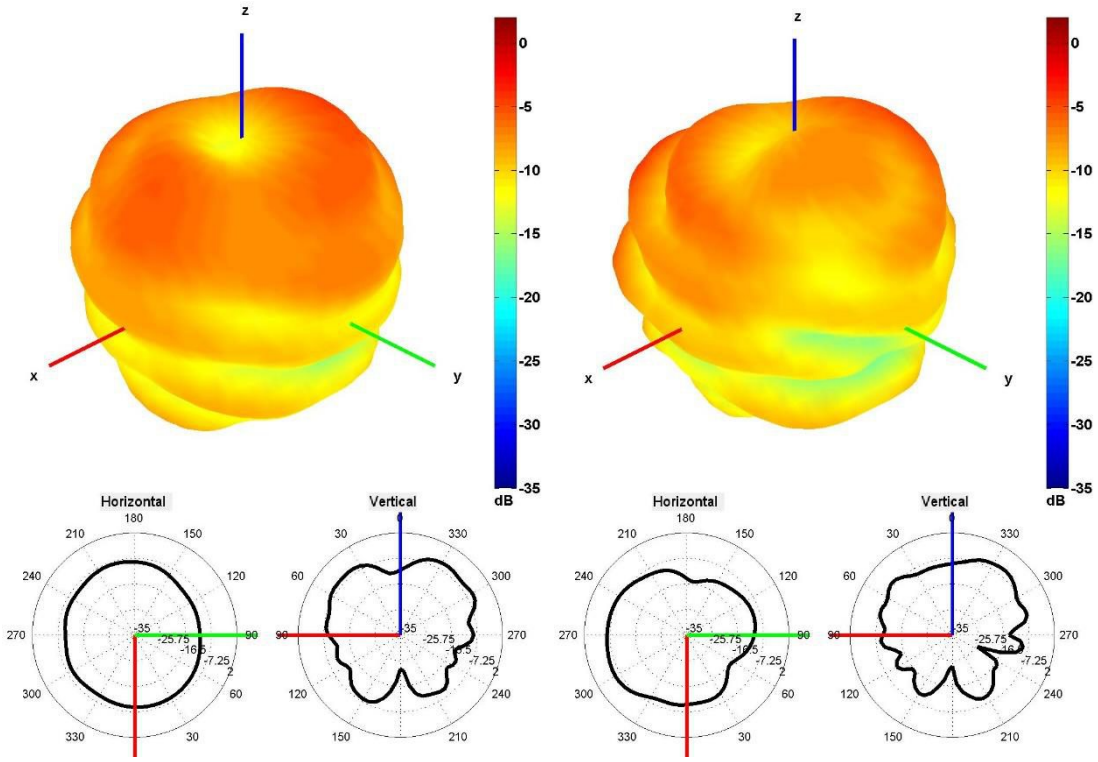

2
1
0
-1
-2
-3
-4
-5
Peak Gain (dBi)
700
800
900
1000
1100
1200
1300
1400
1500
1600
1700
1800
1900
2000
2100
2200
2300
Frequency (MHz)



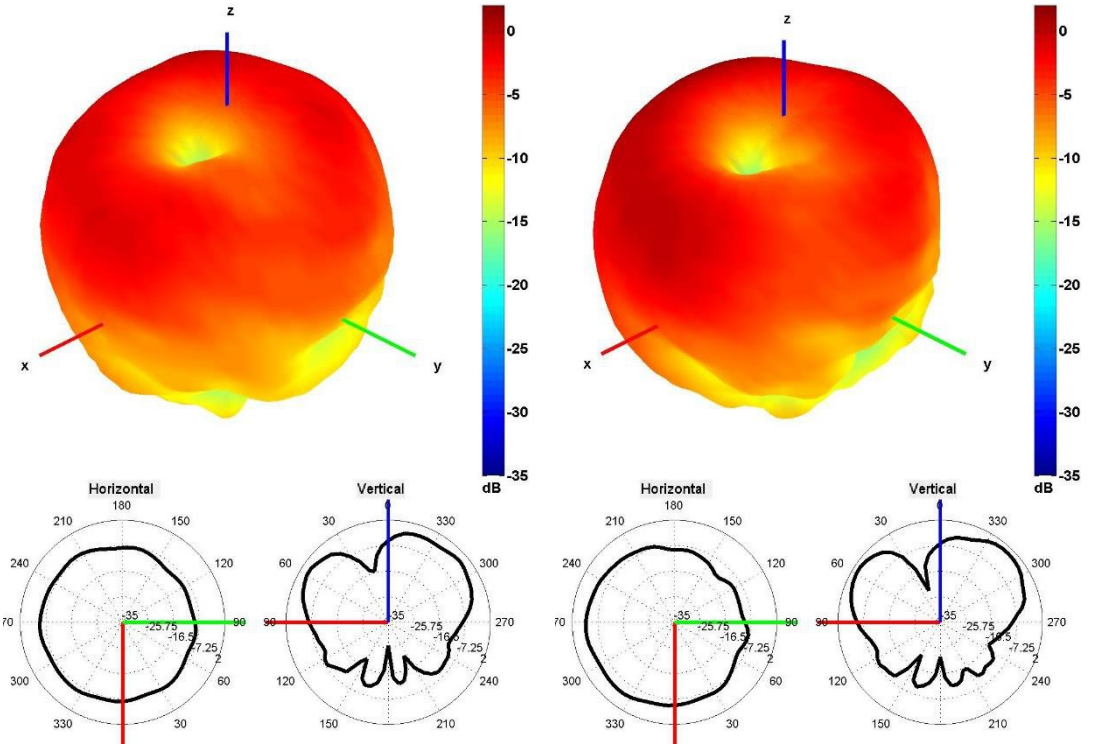


Radiation pattern reference

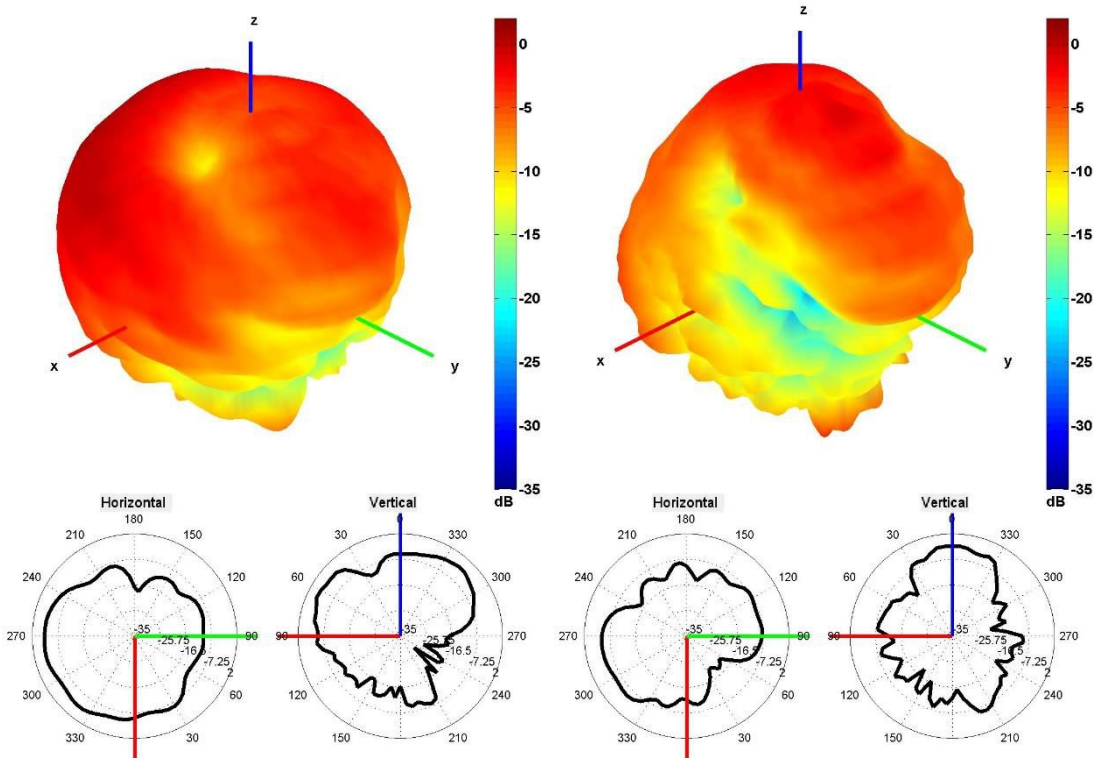
Cable 1: Cellular



850 and 940 MHz Radiation pattern

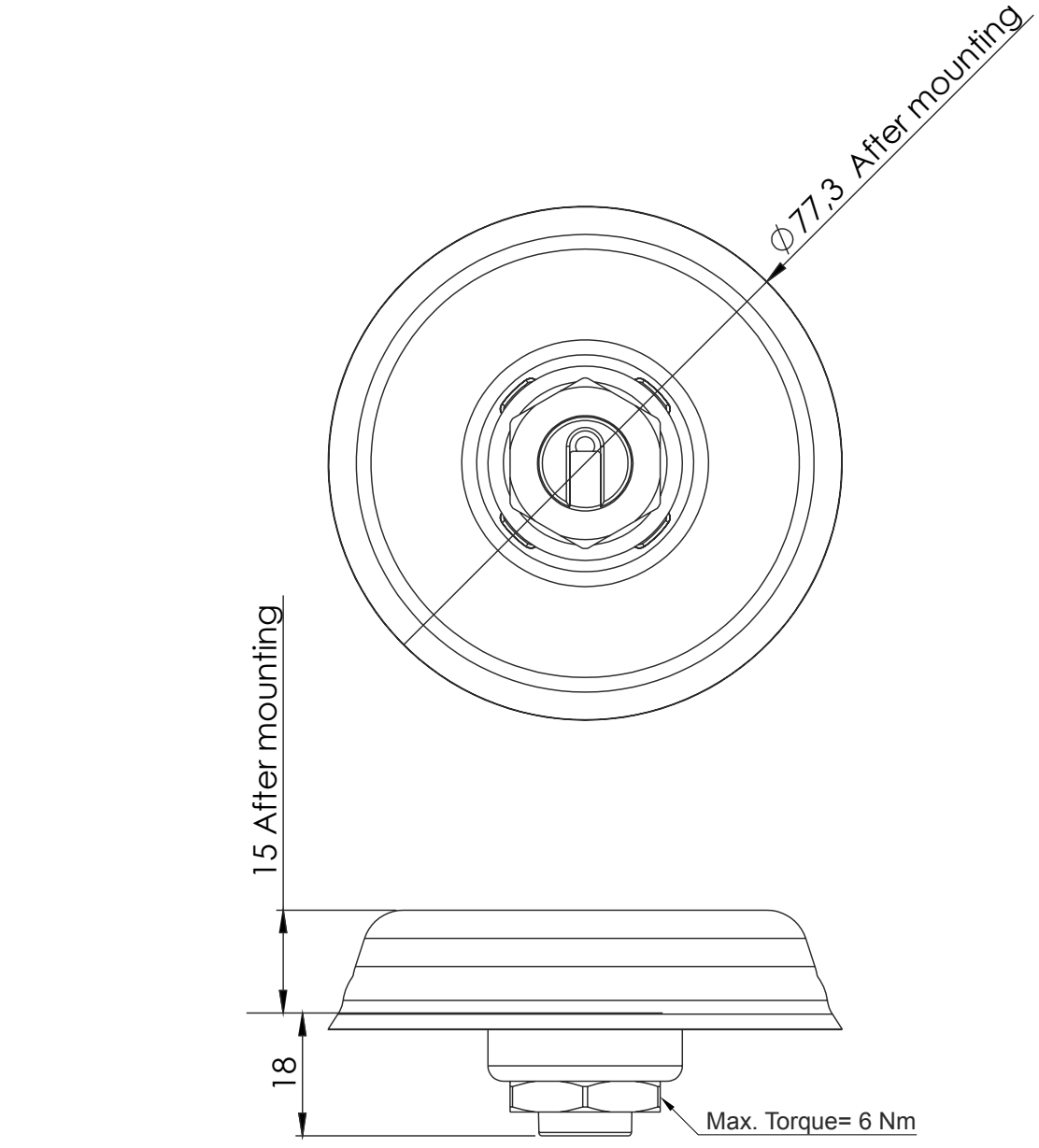


1750 and 1850 MHz Radiation pattern



1950 and 2100 MHz Radiation pattern

4. Antenna drawings



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

5. Antenna Images

