antenna conceptor

Product Datasheet

2JW0124-C955N

CELLULAR / LTE Connector Mount

Key Features

CELLULAR / LTE
- 698-960 MHz
- 1710-2170 MHz
- 2500-2700 MHz

Connector Mount
N-Male connector
Ultra Wide band Antenna
High Performance
Ground Plane Independent
Hinged Connector
Dimensions 205 × 38 × 19 mm

Description

This antenna with modern design is suitable for 4G LTE routers, terminals and other telematic applications. The antenna is omnidirectional with high efficiency and covers worldwide networks. Two variations of mounting swivels allow different orientation of antennas on devices with MIMO systems.

1. Antenna and electrical specifications

Parameters	CELLULAR / LTE Antenna		
Standards	2G,3G and 4G		
Technologies	GSM, CDMA, DCS, PCS, GPRS, WCDMA, UMTS, HSPA, EVDO and LTE		
Band (MHz)	700/850/900	1700/1800/1900/2100	2600
Frequency (MHz)	698-960	1710-2170	2500-2700
Return Loss (dB)	~-7.7	~-12.7	~-8.5
VSWR	~2.4:1	~1.6:1	~2.2:1
Efficiency (%)	~62	~75	~50
Peak Gain (dBi)	~0.4	~2.6	~1.3
Average Gain (dB)	~-2.1	~-1.3	~-3.0
Impendance (Ohm)	50		
Polarisation	Linear		
Radiation Pattern	Omni-Directional		
Max. Input Power (W)	25		
Connector Type	N-Male		

Antenna Measurement Conditions:

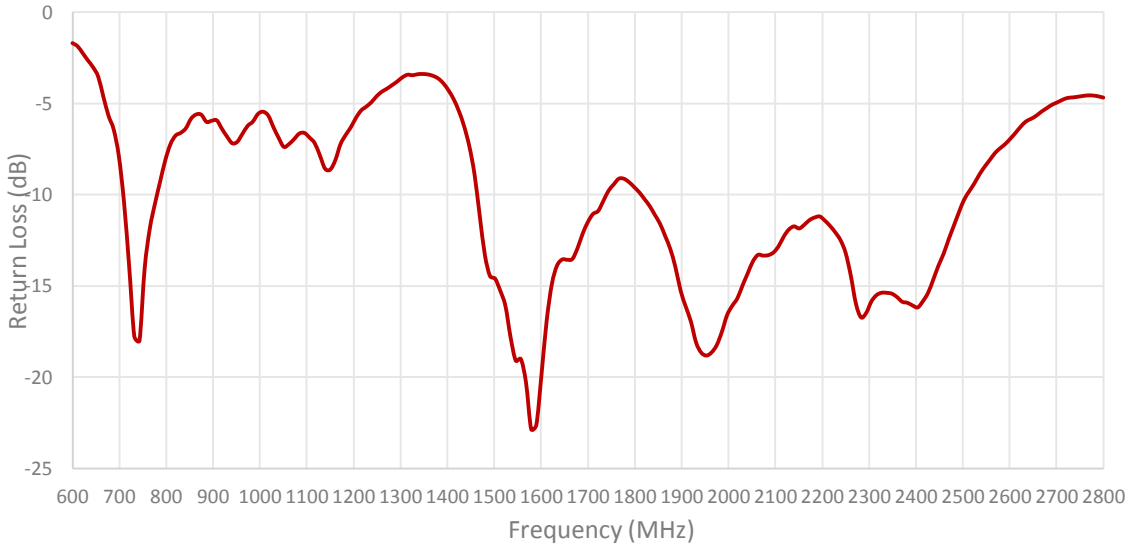
Free Space

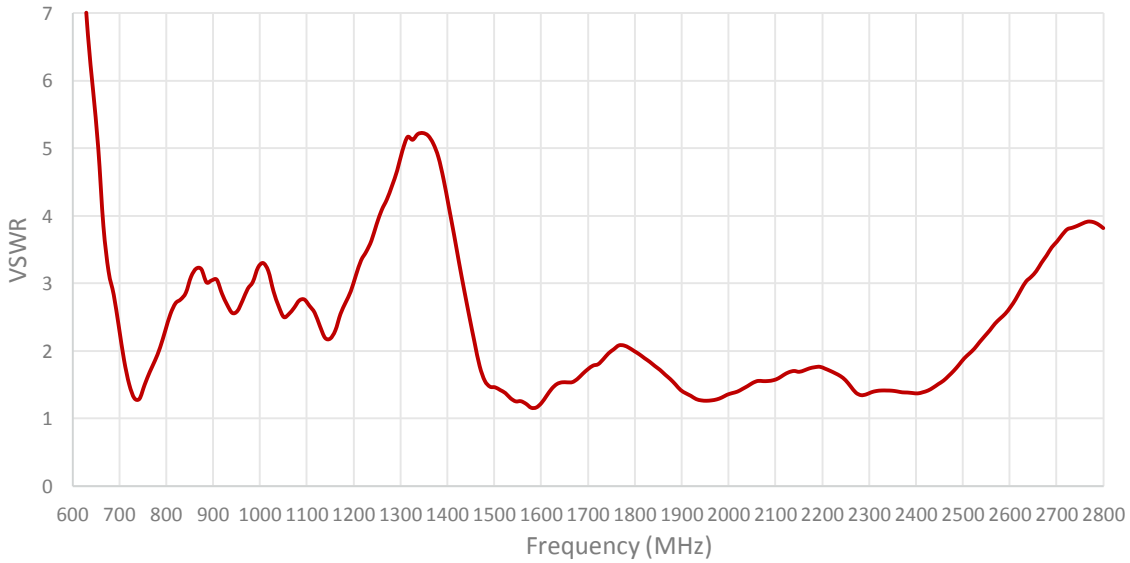
Measured in Certified CTIA 3D Anechoic Chamber

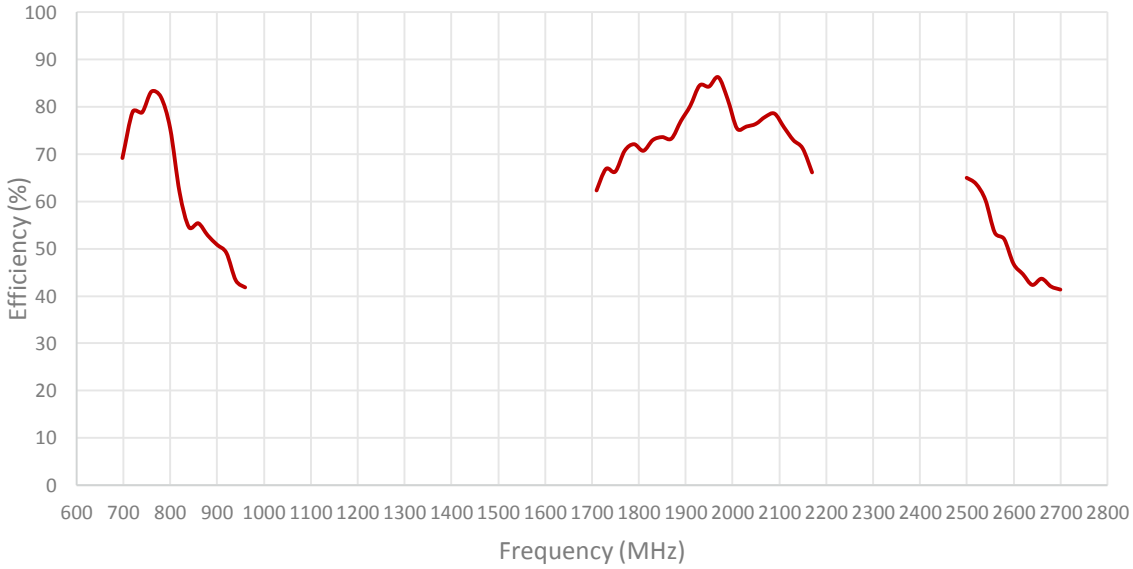
2. Mechanical and environmental specifications

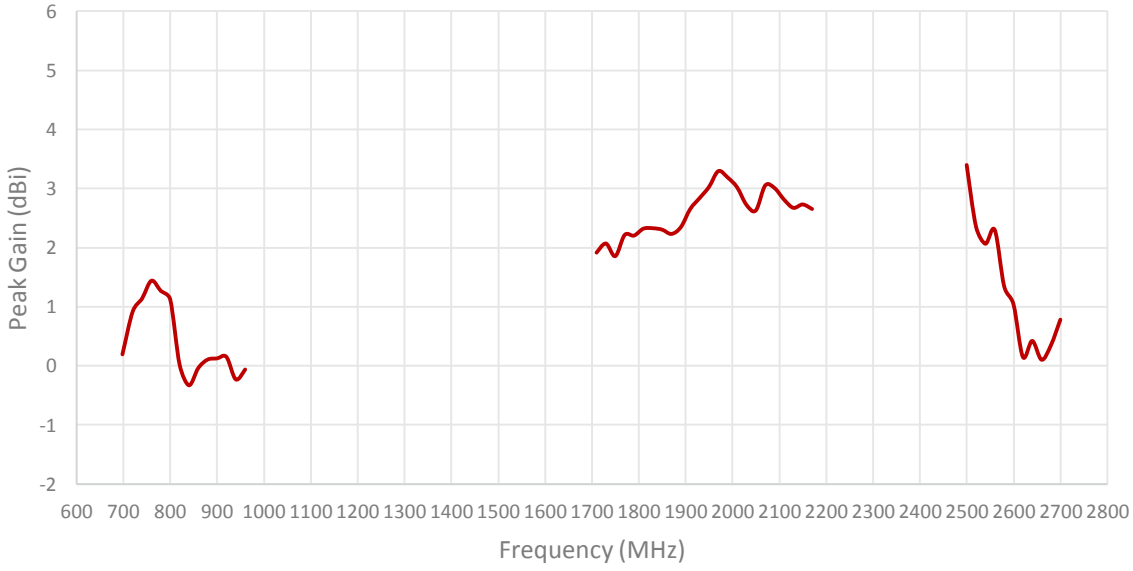
Specifications	2JW0124-C955N
Mounting Type	Connector Mount
Dimensions (mm)	205 ×38 ×19
Radome	PC/ABS UV Stable
Radome color	Black or White
Connector Feature	Hinged
Operating Temperature (C)	-40 to +85
Storage Temperature (C)	-40 to +85
Substance Compliance	RoHS, REACH

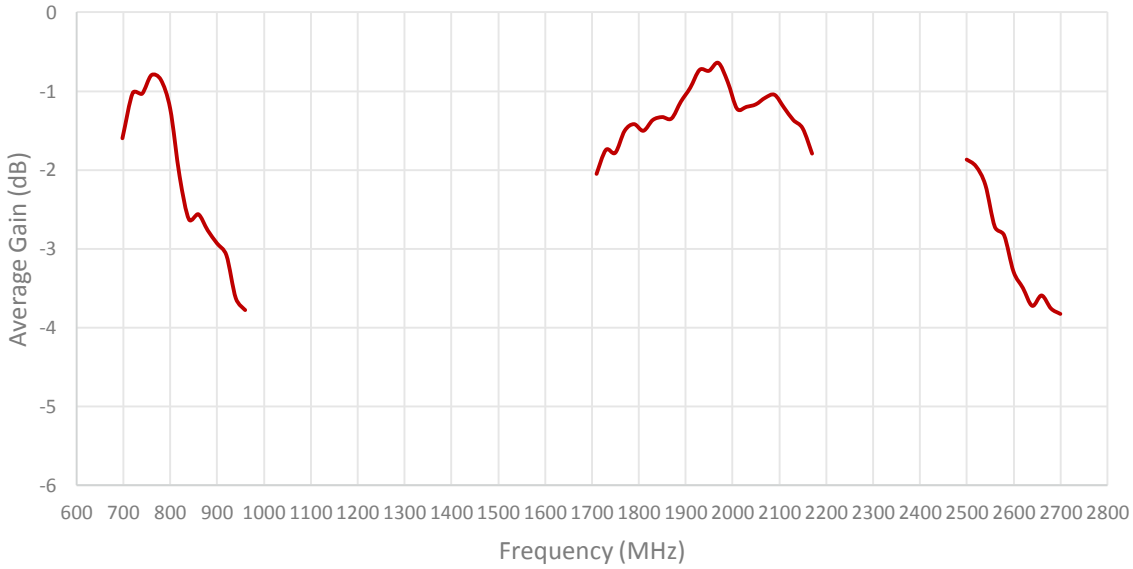
3. Antenna parameters

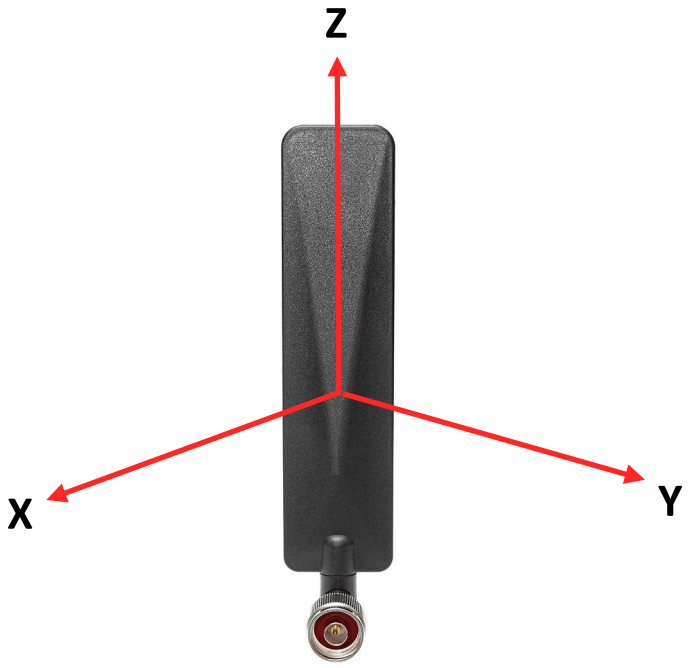




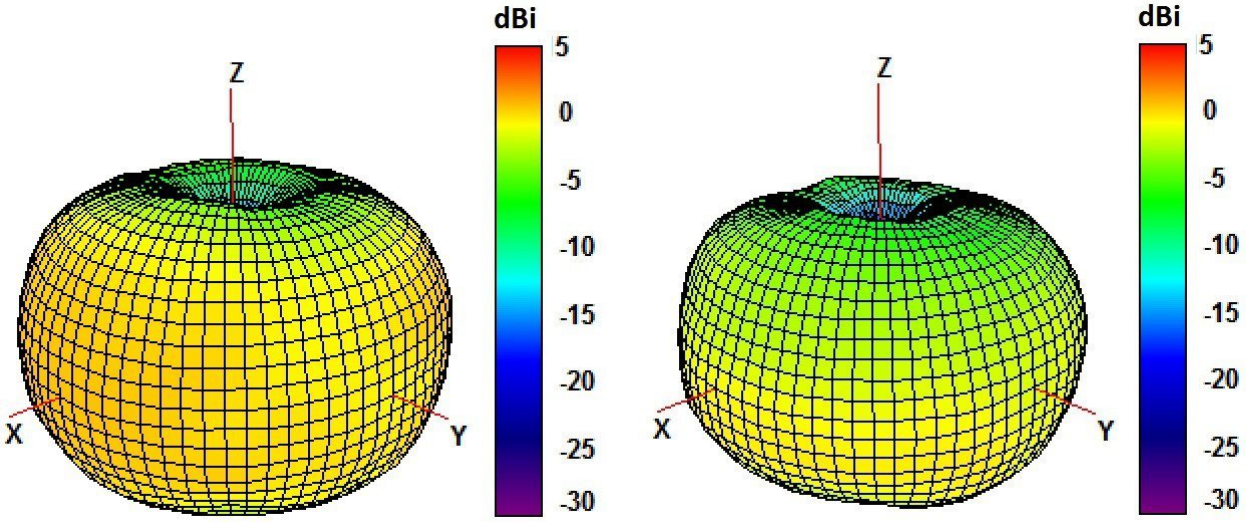

100
90
80
70
60
50
40
30
20
10
0
Efficiency (%)
600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200 2300 2400 2500 2600 2700 2800
Frequency (MHz)


6
5
4
3
2
1
0
-1
-2
Peak Gain (dBi)
600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200 2300 2400 2500 2600 2700 2800
Frequency (MHz)

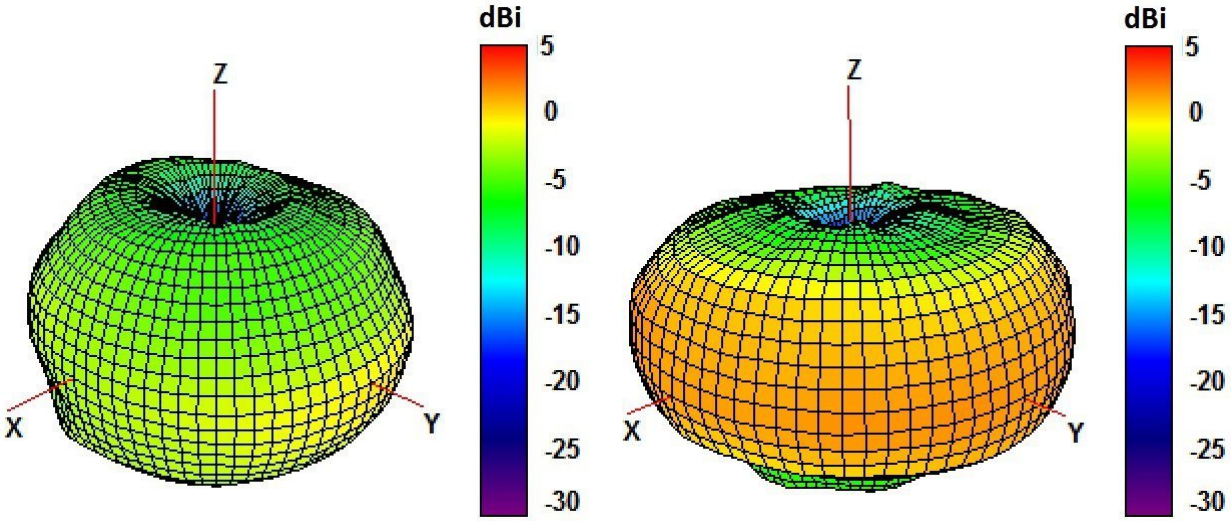




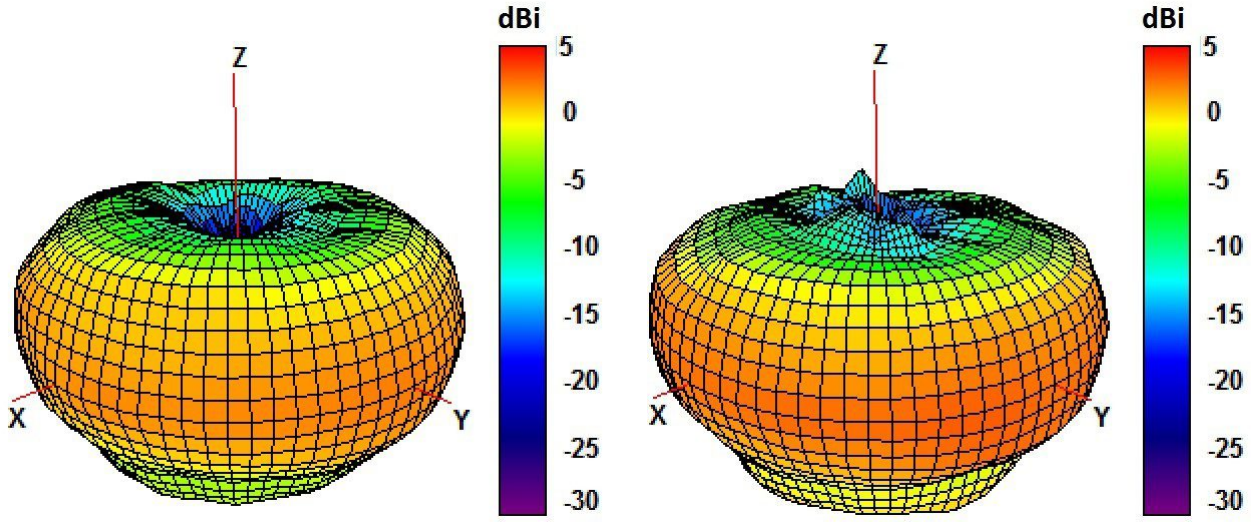
Radiation pattern reference



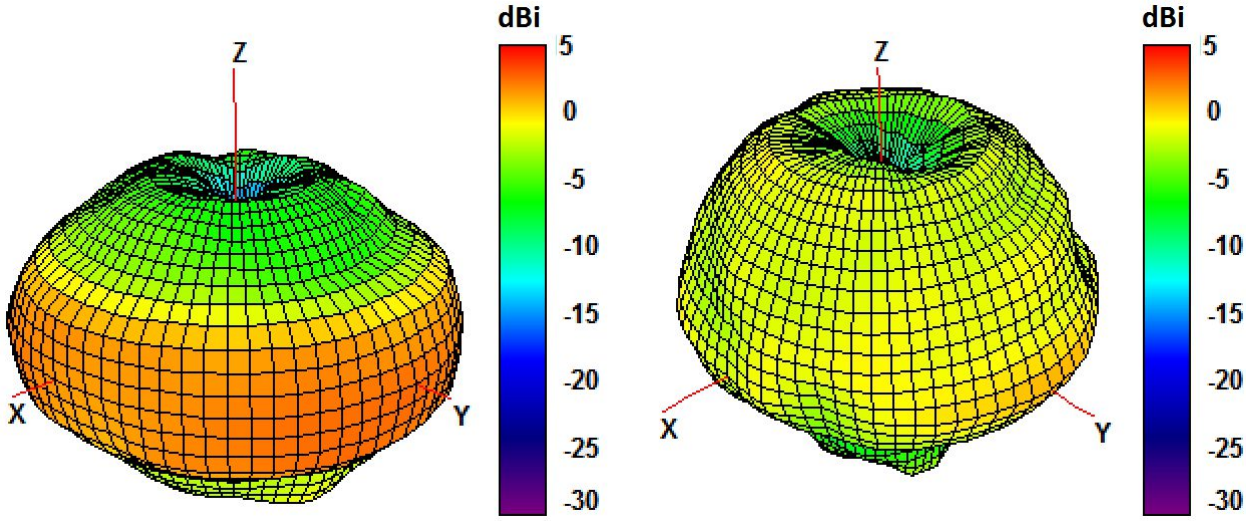
750 and 850 MHz Radiation pattern



940 and 1750 MHz Radiation pattern

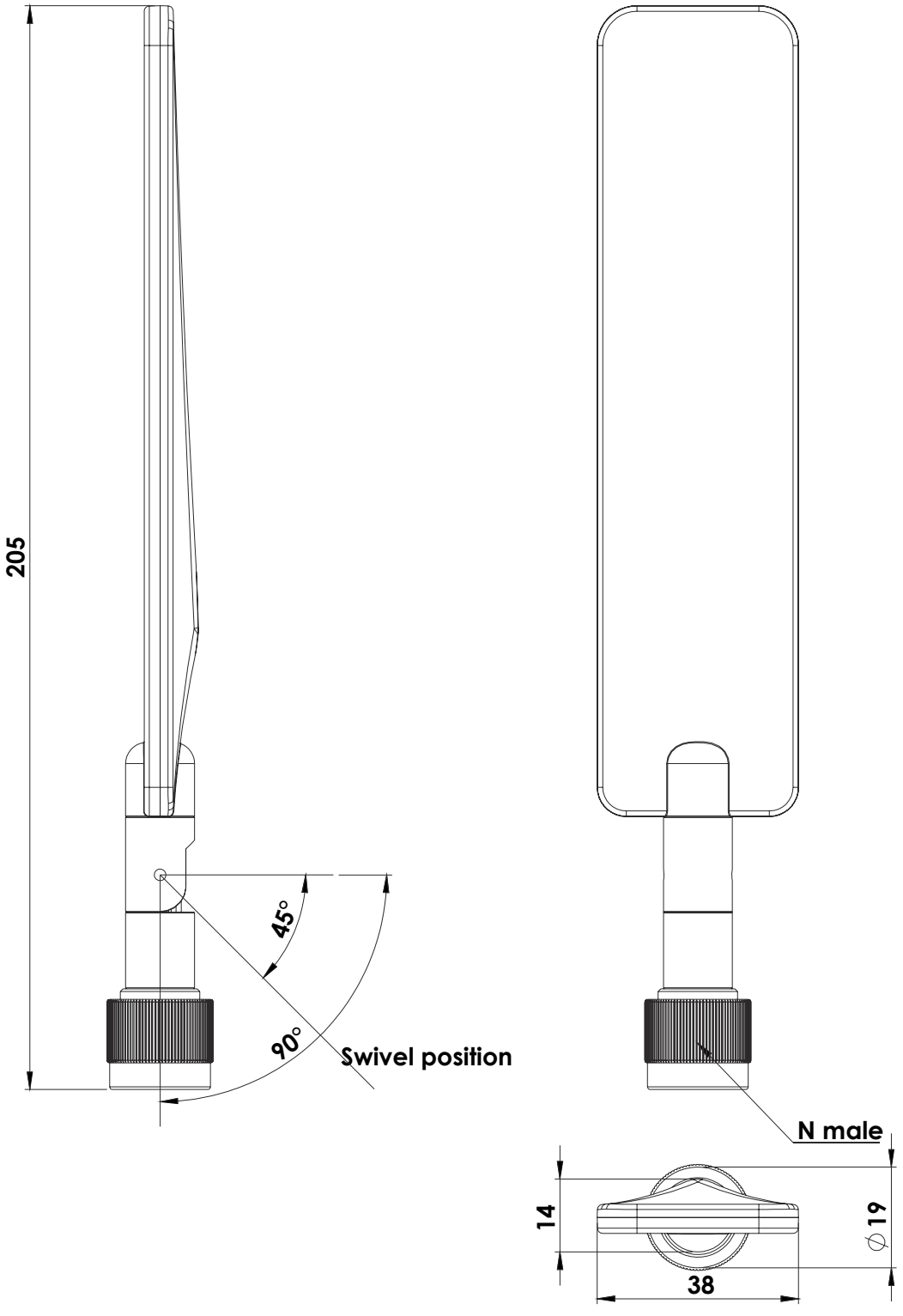


1850 and 1950 MHz Radiation pattern



2100 and 2600 MHz Radiation pattern

4. Antenna drawings



5. Antenna Images