antenna conceptor

Product Datasheet

2J0502-C115N

2.4/5.0 GHz ISM Connector Mount



Key Features

2.4/5.0 GHz ISM
- 2410-2490 MHZ
- 4920-5925 MHz

Connector Mount
Ground Plane Dependent
Dimensions Ø 15.7 × 58.2 mm
Certificates: IP67

1. Antenna and electrical specifications

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)	~-7.0	~-9.8
VSWR	~2.6:1	~2.1:1
Efficiency (%)	~52.2	~53.1
Peak Gain (dBi)	~2.8	~2.4
Average Gain (dB)	~-2.8	~-2.8
Impendance (Ohm)	50	
Polarisation	Linear	
Radiation Pattern	Omni-Directional	
Max. Input Power (W)	25	
Connector Type	Most RF Connectors (RP-SMA-Male Standard)	

Antenna Measurement Conditions:

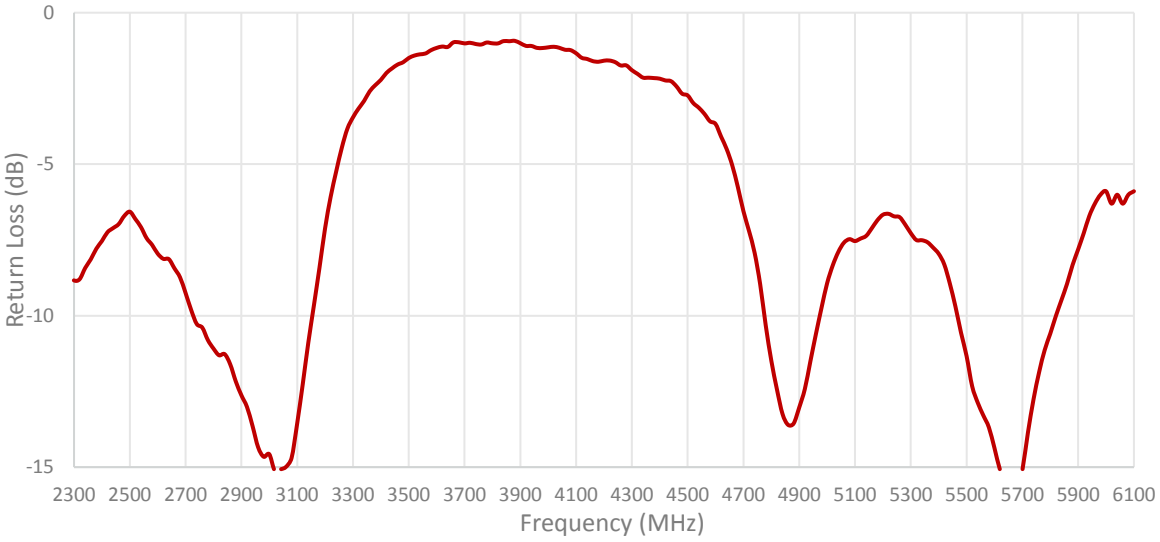
Mounted on Ground Plane of 70x35 mm

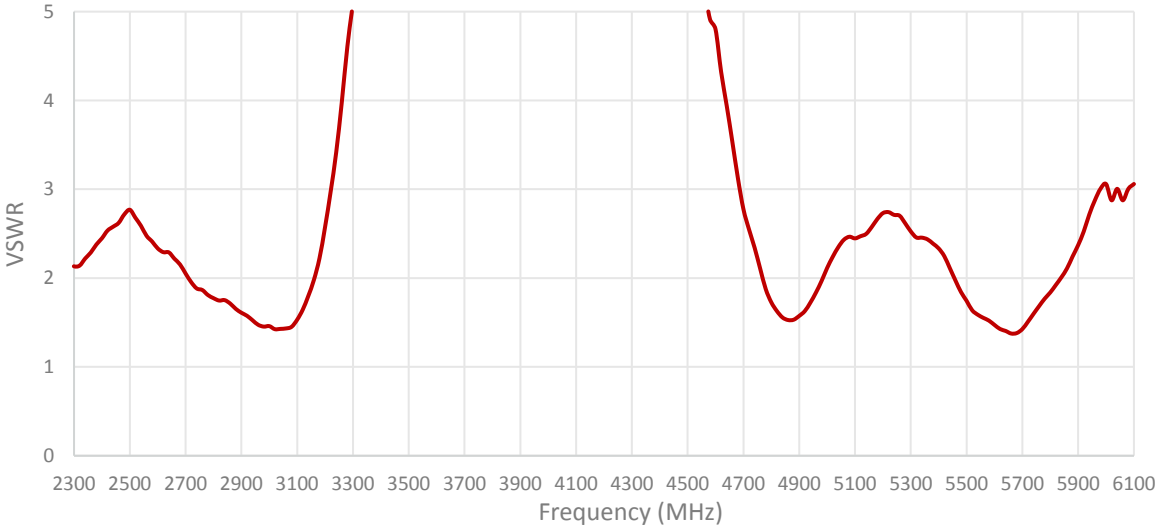
Measured in Certified CTIA 3D Anechoic Chamber

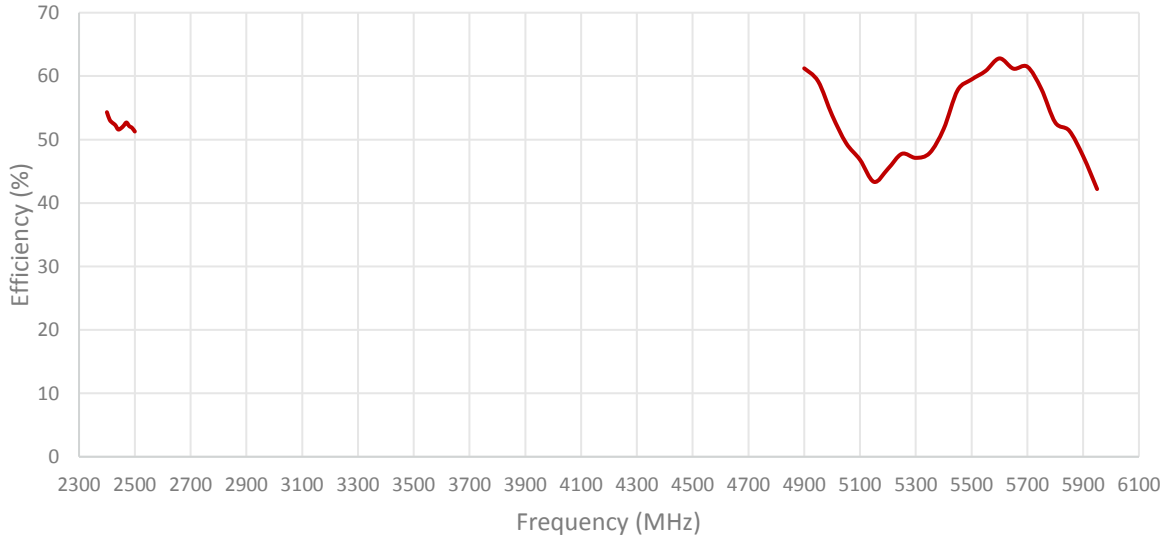
2. Mechanical and environmental specifications

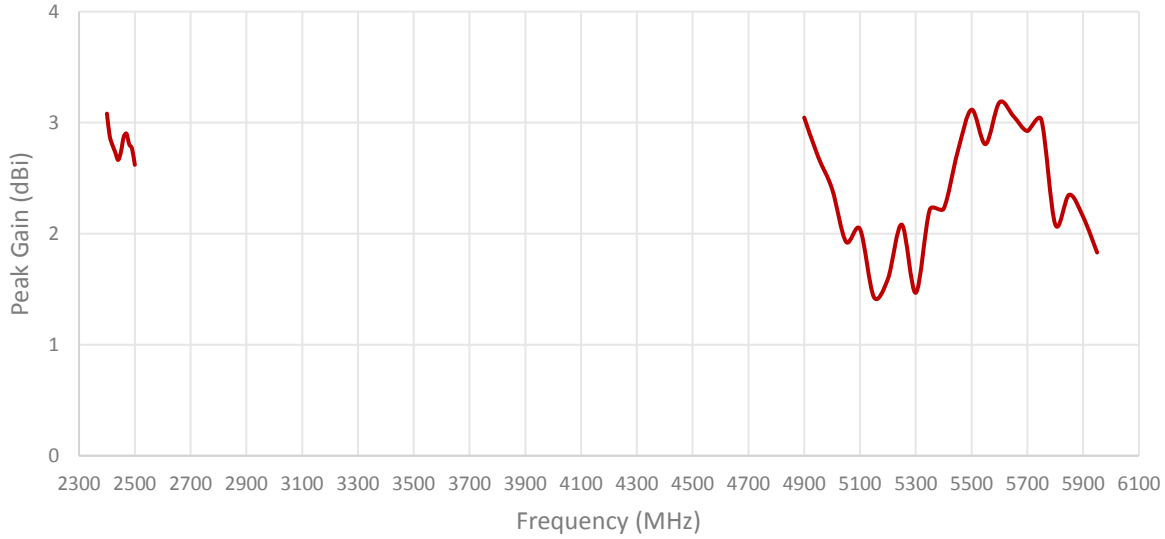
Specifications	2J0502-C115N
Mounting Type	Connector Mount
Dimensions (mm)	Ø 15.7 × 58.2
Radome Type	TPE
Radome color	Black
Operating Temperature (C)	-40 to +85
Storage Temperature (C)	-40 to +85
Substance Compliance	RoHS
Certificates	IP67

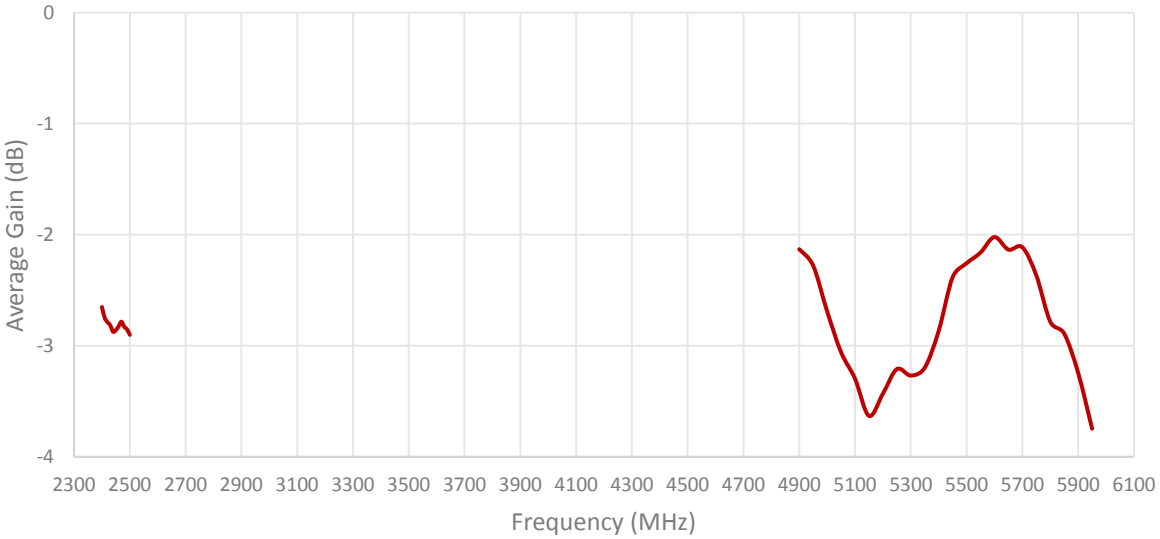
3. Antenna parameters

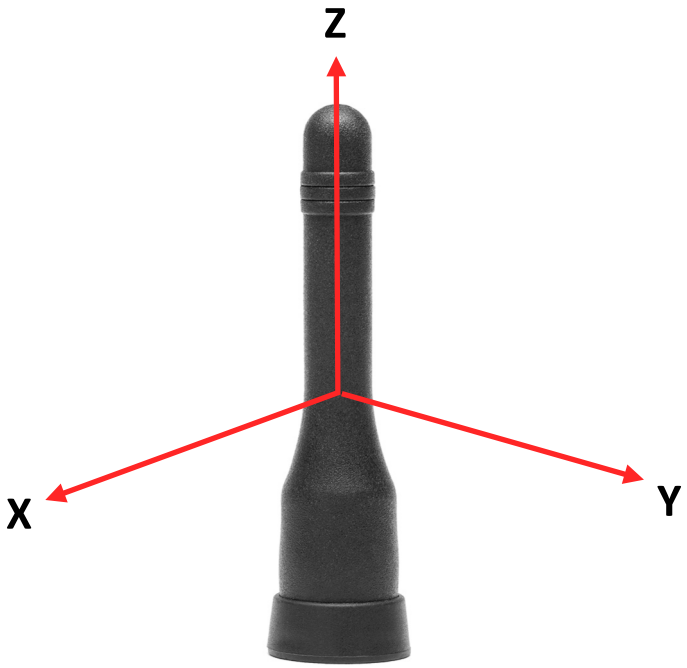




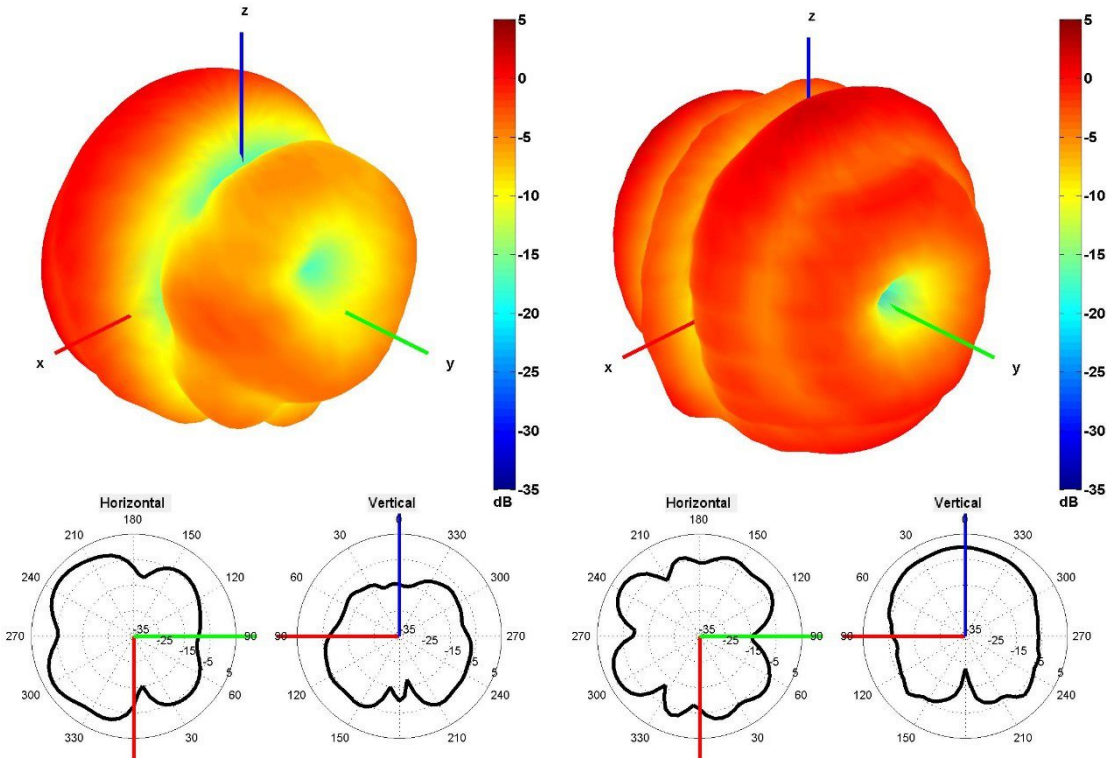

70
60
50
40
30
20
10
0
Efficiency (%)
2300 2500 2700 2900 3100 3300 3500 3700 3900 4100 4300 4500 4700 4900 5100 5300 5500 5700 5900 6100
Frequency (MHz)


4
3
2
1
0
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)



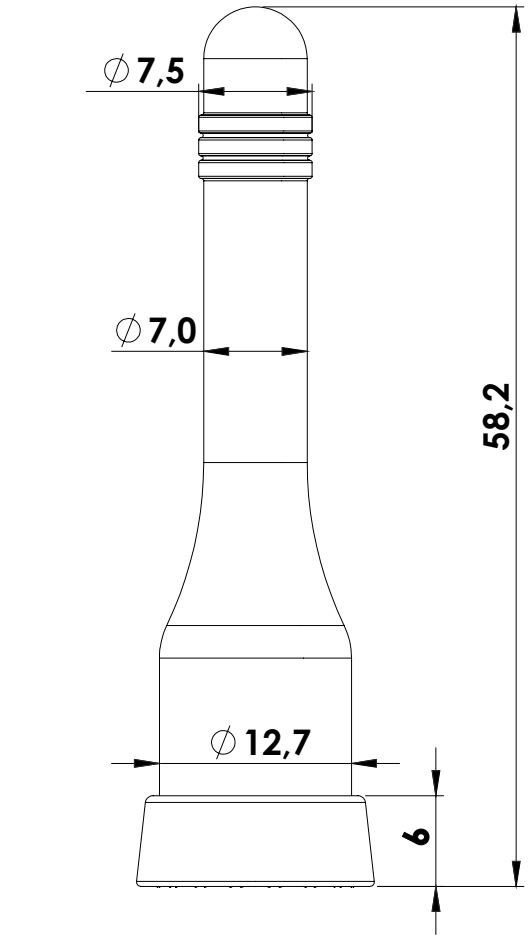


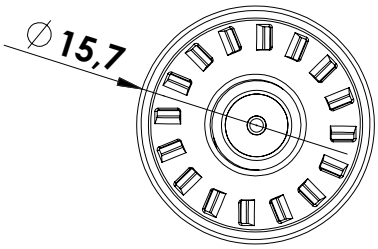
Radiation pattern reference



2450 and 5500 MHz Radiation pattern

4. Antenna drawings





5. Antenna Images





