antenna conceptor

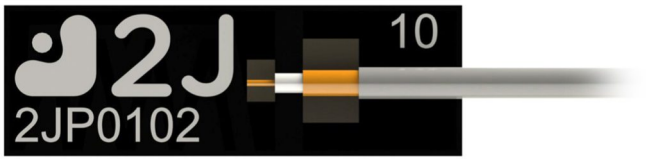
Product Datasheet

2JP0102

2.4/5.0 GHz ISM Rigid Fiberglass

Key Features

2.4 / 5.0 GHz ISM
- 2410-2490 MHz
- 4920-5925 MHz
Self-Adhesive
Low Profile
Embedded Antenna
Ground Plane Independent
High Performance
Dimensions 16.4 x 5.4 x 0.4 mm
Customizable Cable and Connector



antenna conceptor

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)	~-8.3	~-12.6
VSWR	~2.4:1	~2.2:1
Efficiency (%)	~53	~64
Peak Gain (dBi)	~3.2	~5.0
Average Gain (dB)	~-2.8	~-1.9
Impendance (Ohm)	50	
Polarisation	Linear	
Radiation Pattern	Omni-Directional	
Max. Input Power (W)	10	
Connector Type	U.FL Standard (Other Connectors Available)	
Cable Length	100mm Standard (Any Cable Length Available)	
Cable Type	1.37mm Mini-Coax Standard (Other Cables Available)	

Antenna Measurement Conditions:

Mounted on 30 x 30 x 0.25 cm ABS Plate

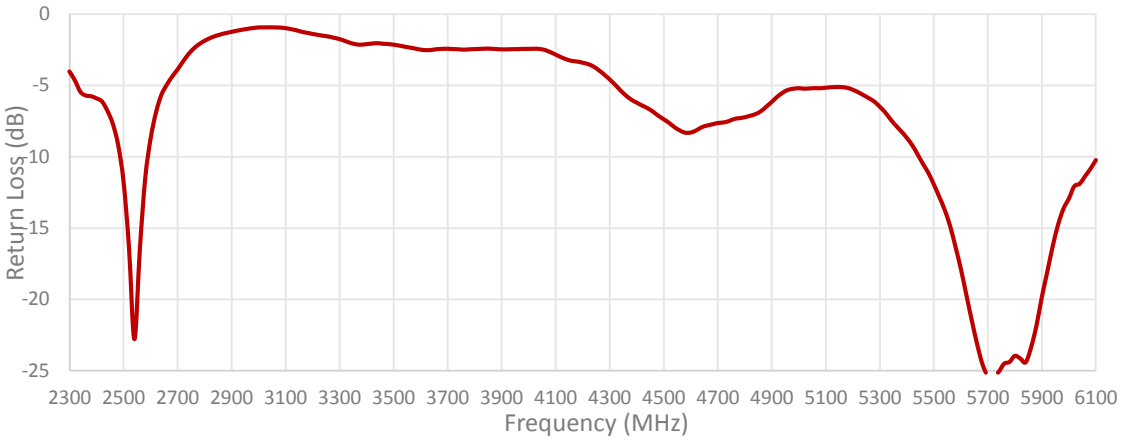
100 mm of 1.37 mm Mini-Coax Cable

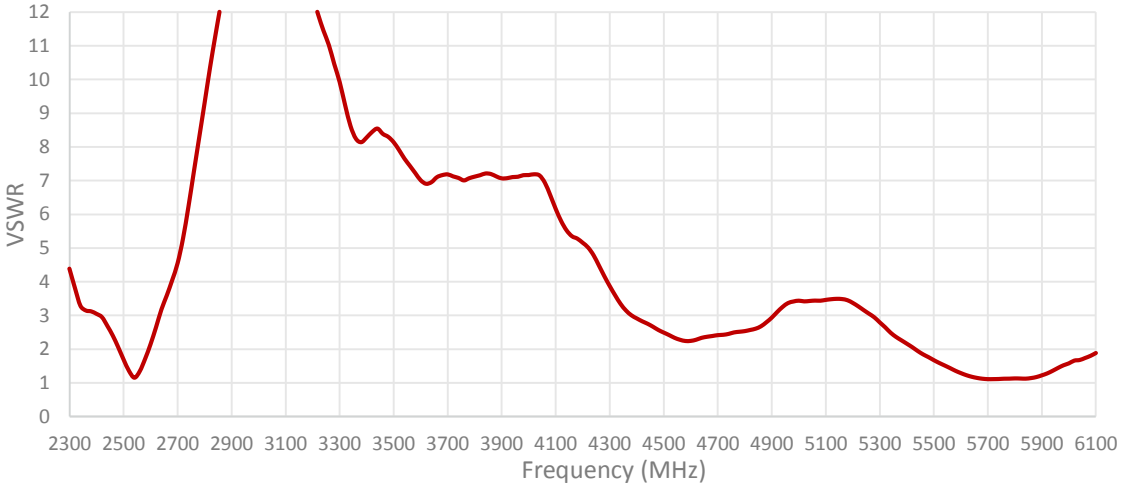
Measured in Certified CTIA 3D Anechoic Chamber

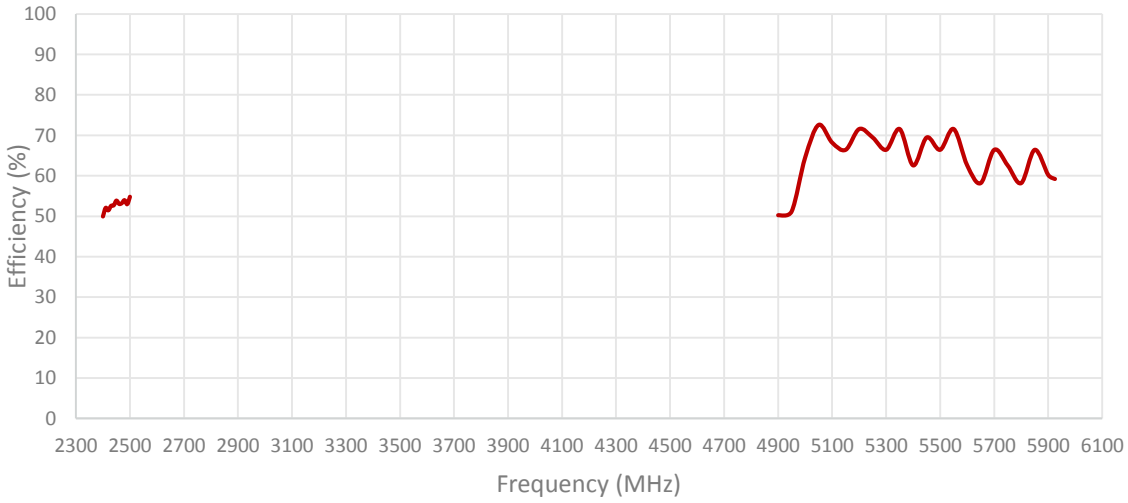
2. Mechanical and environmental specifications

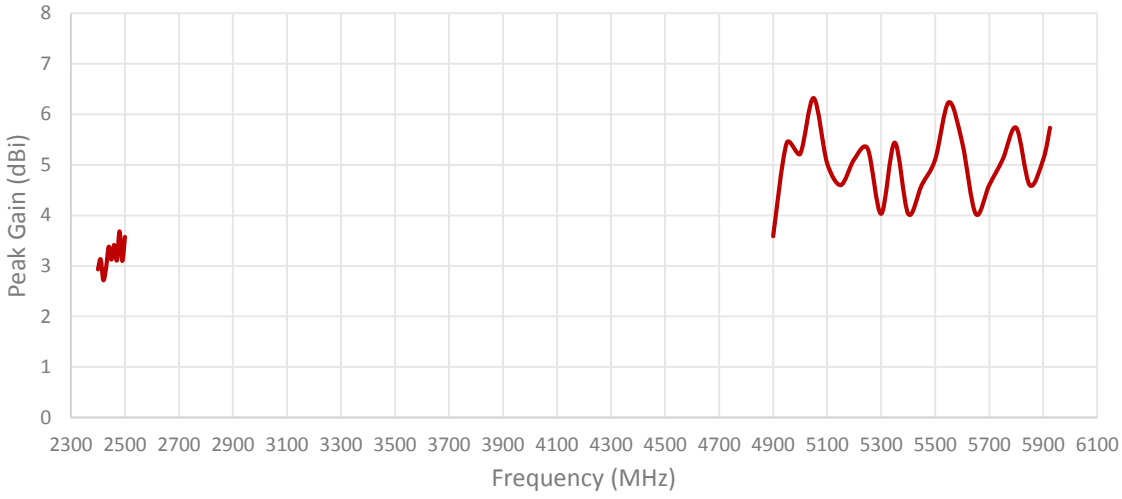
Specifications	2JP0102
Mounting Type	Self-Adhesive
Dimensions (mm)	16.4 x 5.4 x 0.4
Adhesive Type	3M 467
Material	Rigid Fiberglass
Operating Temperature (C)	-40 to +85
Storage Temperature (C)	-40 to +85
Substance Compliance	RoHS

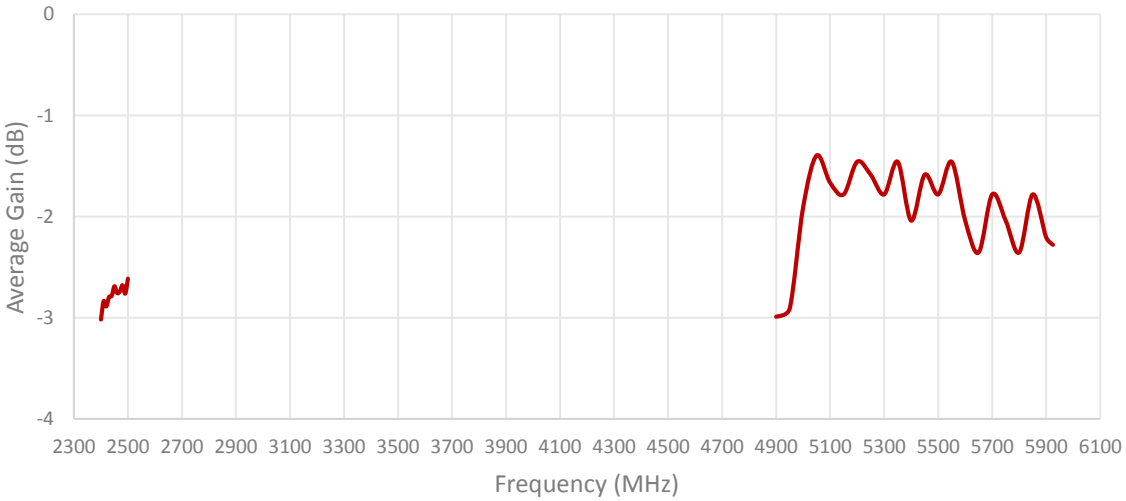
3. Antenna parameters

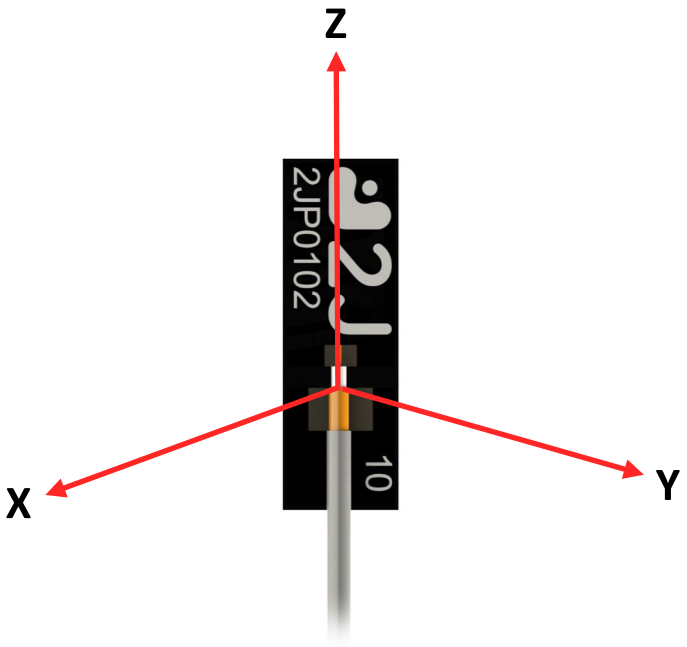




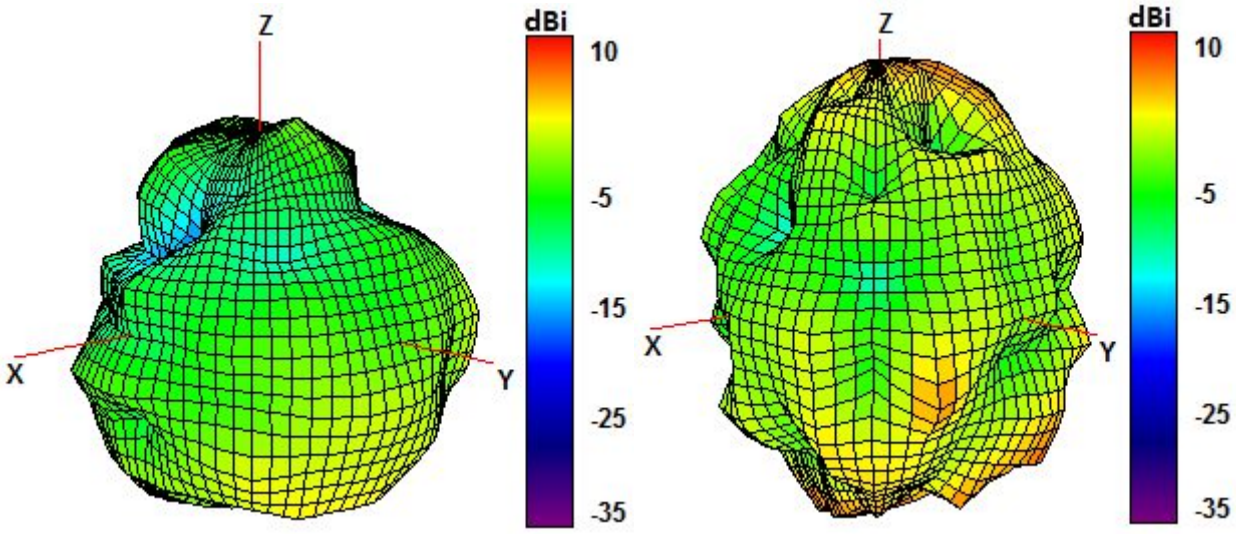

Efficiency (%)
100
90
80
70
60
50
40
30
20
10
0
2300 2500 2700 2900 3100 3300 3500 3700 3900 4100 4300 4500 4700 4900 5100 5300 5500 5700 5900 6100
Frequency (MHz)


Peak Gain (dBi)
8
7
6
5
4
3
2
1
0
2300 2500 2700 2900 3100 3300 3500 3700 3900 4100 4300 4500 4700 4900 5100 5300 5500 5700 5900 6100
Frequency (MHz)



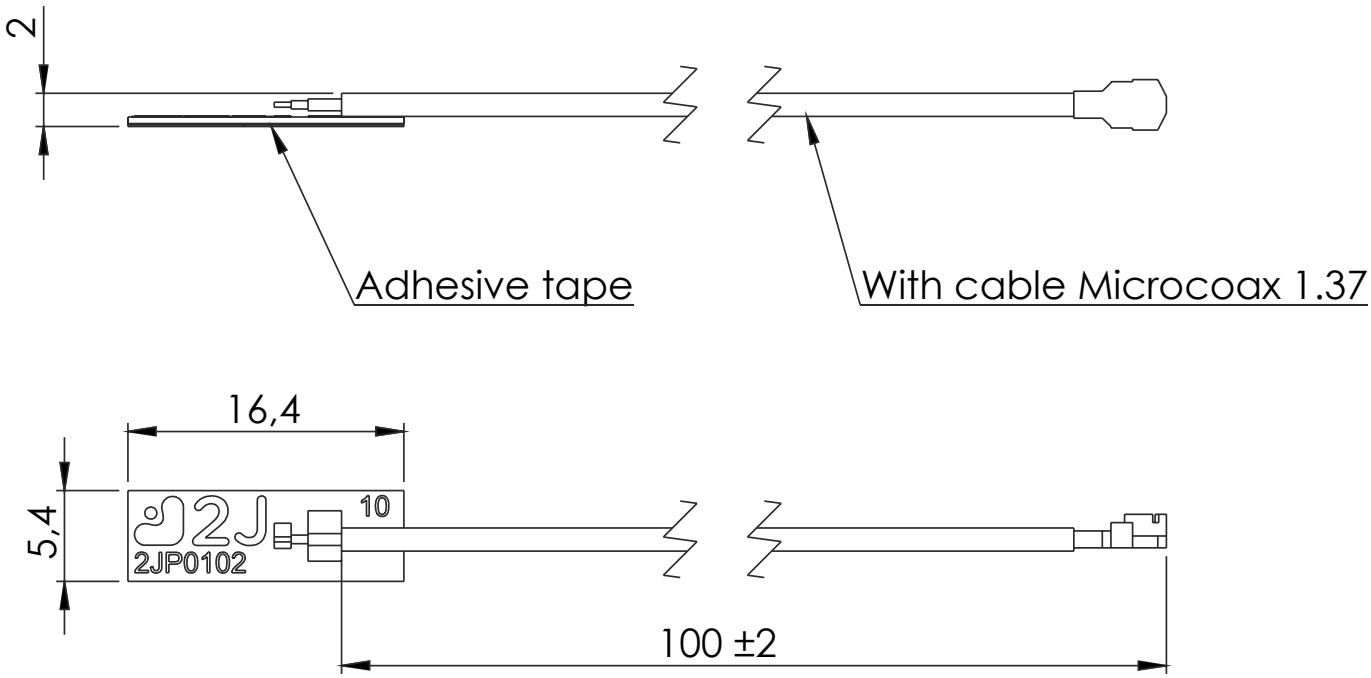


Radiation pattern reference



2450 and 5500 MHz Radiation pattern

4. Antenna drawings



5. Antenna Images

