2JF0802P

2.4/5.0/6.0 GHz ISM Flexible Polymer

Key Features

2.4/5.0/6.0 GHz ISM
- 2410-2490 MHz
- 4920-7125 MHz

Self-Adhesive
WIFI 6E / WIFI 7 Antenna
Embedded Antenna
High Performance
Flexible Material
Ground Plane Independent
Dimensions 39.6 × 8.4 × 0.2 mm
Customizable Cable and Connector

Description

2JF0802P antenna is flexible high efficiency embedded solution covering 2.4 GHz, 5.0 GHz and 6.0 GHz bands. Antenna can be easily mounted in most devices due to self-adhesive layer and small size. 2JF0802P is omnidirectional, ground plane independent antenna.Cable and connector is upon request.

1. Antenna and electrical specifications

Parameters	2.4/5.0/6.0 GHz ISM Antenna		
Standards	WiFi 6E, BT, ZigBee, ISM, SigFox, LoRa		
Band (MHz)	2.4 GHz	5.0 GHz	6.0 GHz
Frequency (MHz)	2410-2490	4920-5925	5925-7125
Return Loss (dB)	~-13.6	~-7.2	~-5.7
VSWR	~1.5:1	~2.7:1	~3.7:1
Efficiency (%)	~54.4	~48.7	~45.5
Peak Gain (dBi)	~1.7	~5.1	~4.6
Average Gain (dB)	~-2.6	~-3.1	~-3.6
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

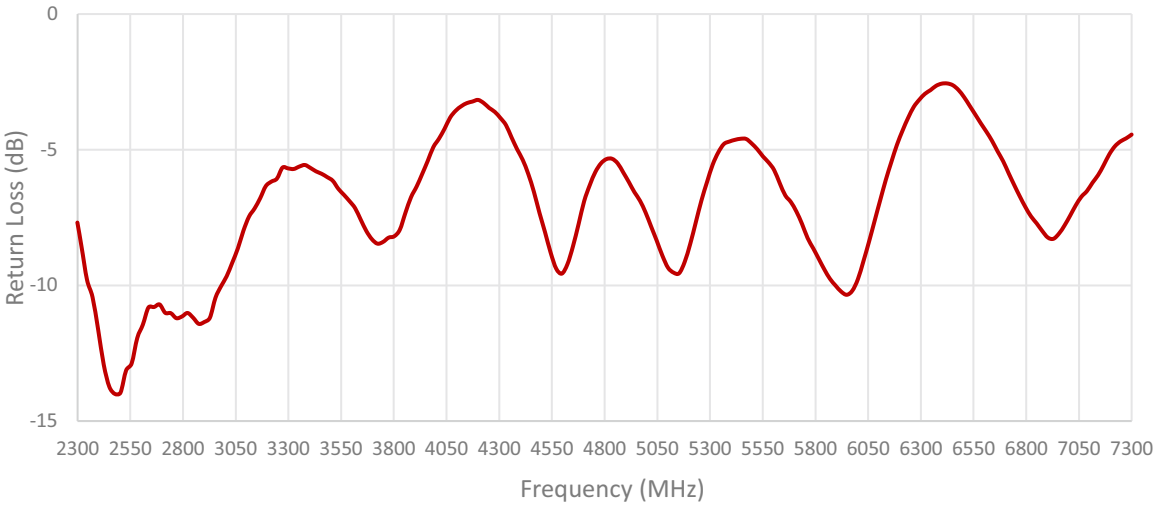
100 mm of 1.37 mm Mini-Coax Cable

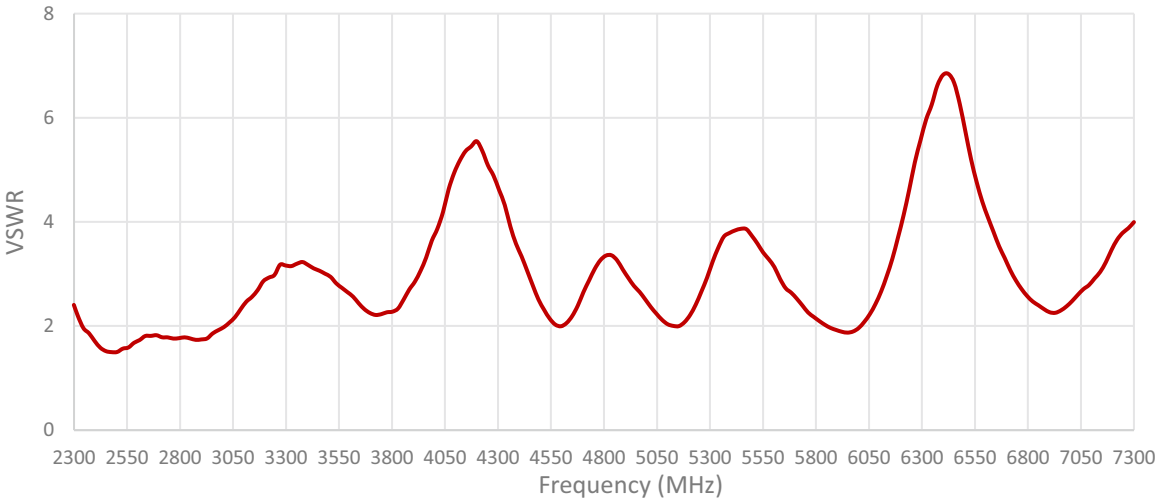
Measured in Certified CTIA 3D Anechoic Chamber

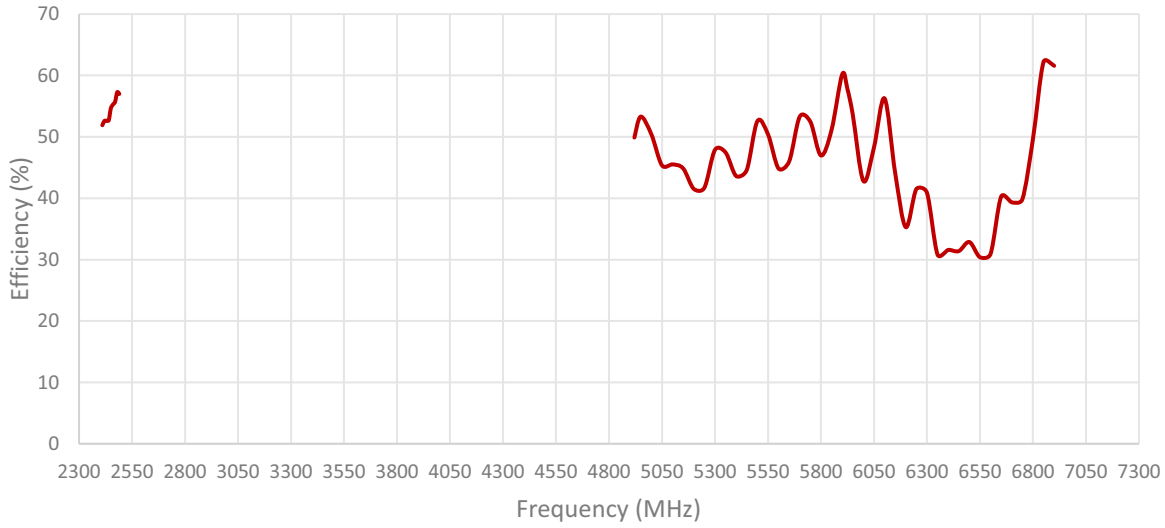
2. Mechanical and environmental specifications

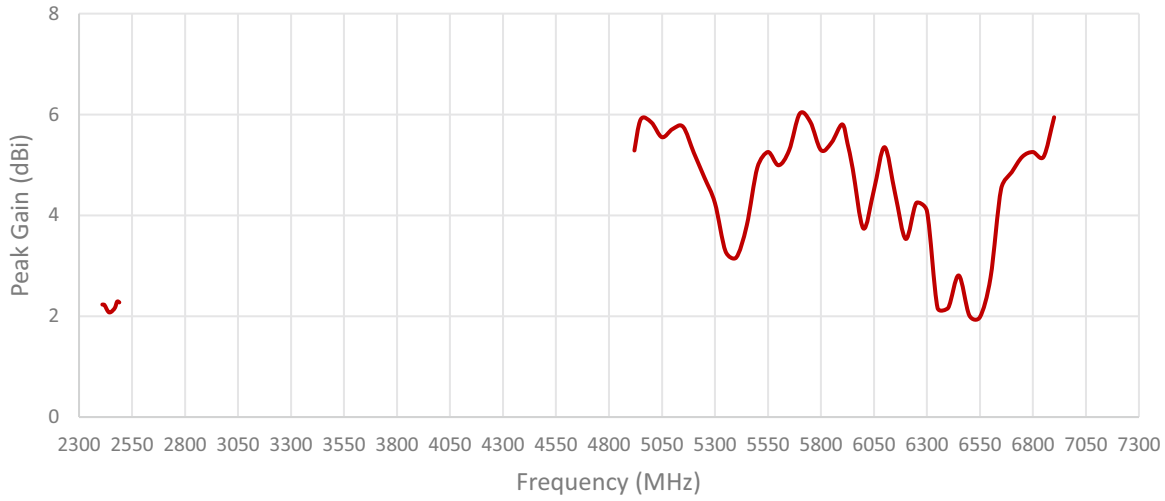
Specifications	2JF0802P
Mounting Type	Self-Adhesive
Dimensions (mm)	39.6x 8.4 x 0.2
Material	Flexible Polymer
Operating Temperature (C)	-40 to +85
Storage Temperature (C)	-40 to +85
Substance Compliance	RoHS

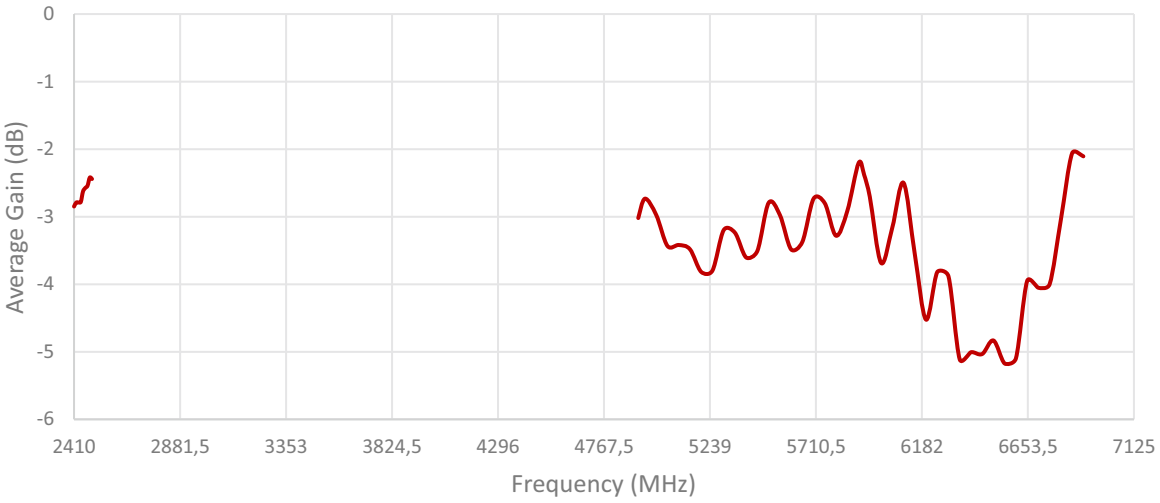
3. Antenna parameters

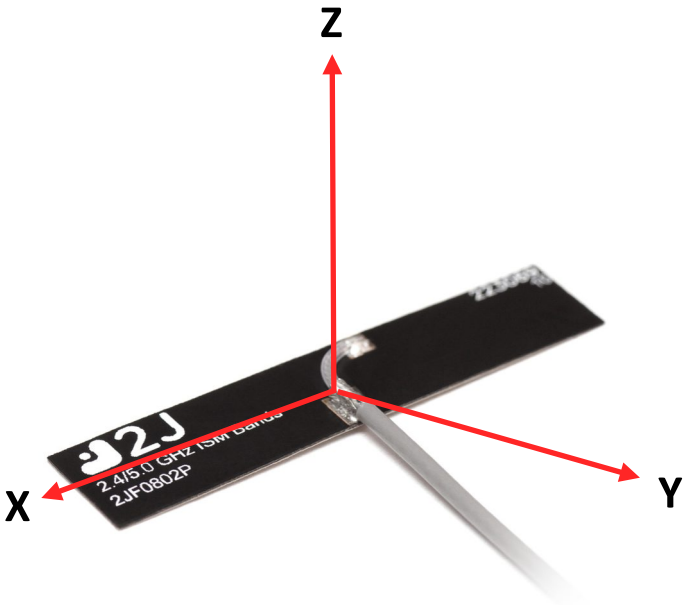




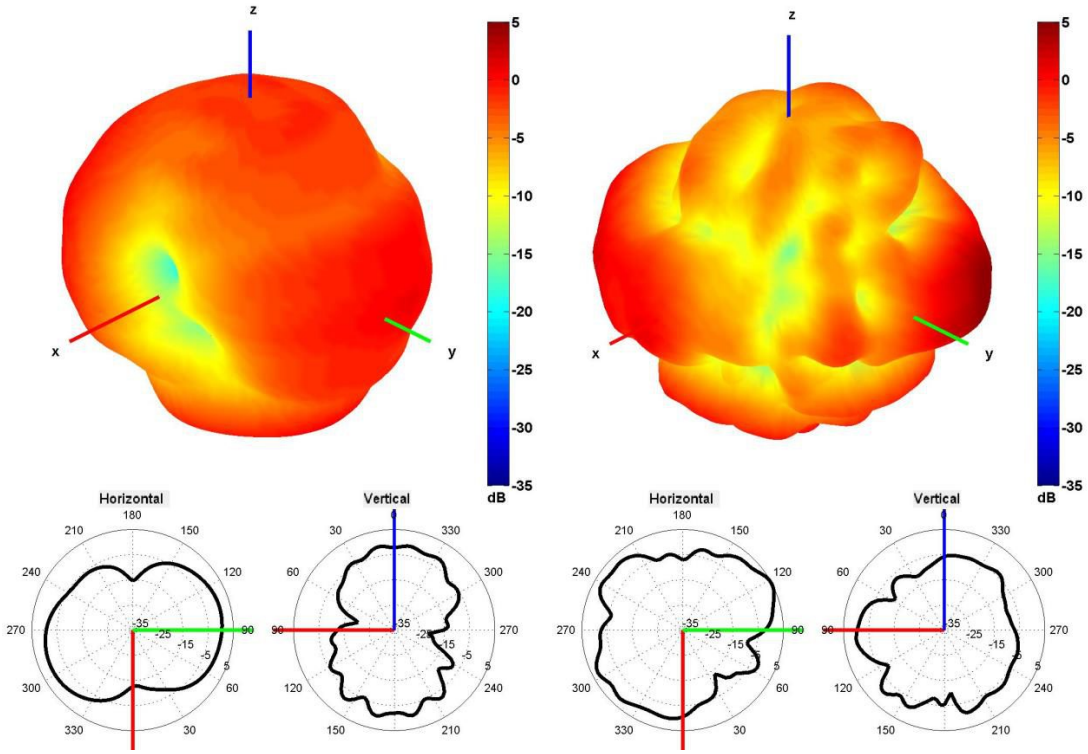

70
60
50
40
30
20
10
0
Efficiency (%)
2300 2550 2800 3050 3300 3550 3800 4050 4300 4550 4800 5050 5300 5550 5800 6050 6300 6550 6800 7050 7300
Frequency (MHz)


8
6
4
2
0
Peak Gain (dBi)
2300 2550 2800 3050 3300 3550 3800 4050 4300 4550 4800 5050 5300 5550 5800 6050 6300 6550 6800 7050 7300
Frequency (MHz)

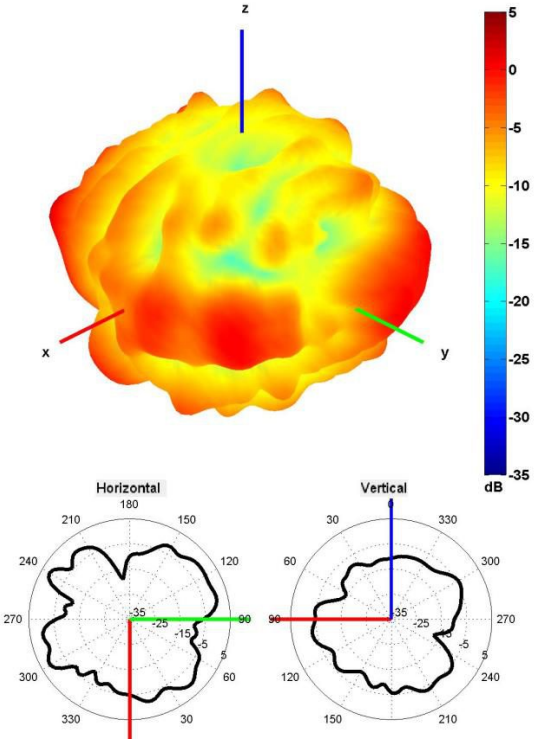




Radiation pattern reference

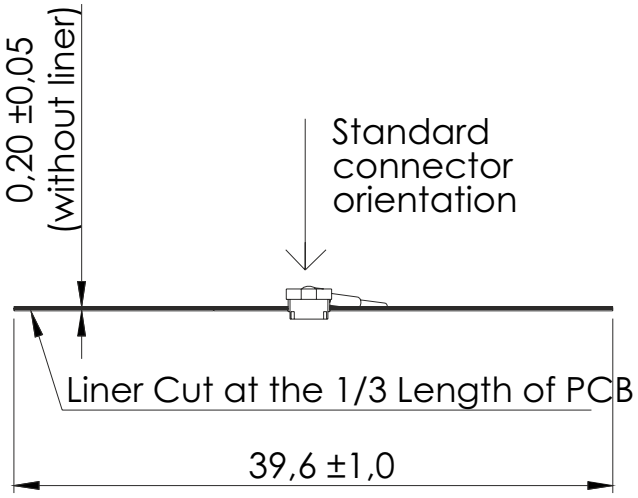


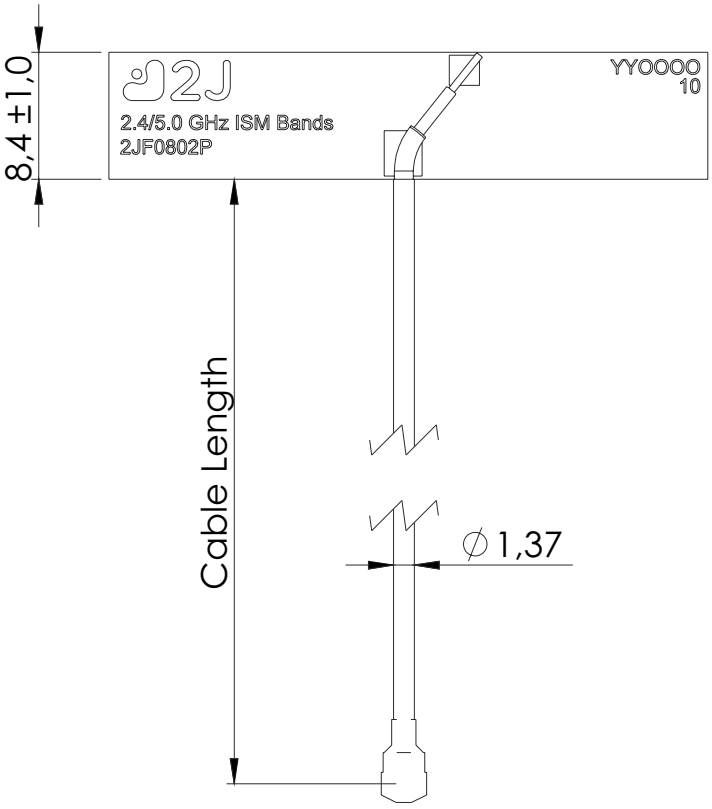
2450 and 5500 MHz Radiation pattern



6500 MHz Radiation pattern

4. Antenna drawings





5. Antenna Images