

## 2JF1002P

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

High Performance

Flexible Material

Ground Plane Independent

Dimensions 40 × 8 × 0.2 mm

Customizable Cable and Connector



## 1. Antenna and electrical specifications

Parameters	2.4/5.0/6.0 GHz ISM Antenna		
<b>Standards</b>	WiFi 6E, BT, ZigBee, ISM, SigFox, LoRa		
<b>Band (MHz)</b>	2.4 GHz	5.0 GHz	6.0 GHz
<b>Frequency (MHz)</b>	2410-2490	4920-5925	5925-7125
<b>Return Loss (dB)</b>	~-19.3	~-9.5	~-9.3
<b>VSWR</b>	~1.2:1	~2.3:1	~2.4:1
<b>Efficiency (%)</b>	~91.1	~65.7	~60.0
<b>Peak Gain (dBi)</b>	~4.2	~6.1	~6.4
<b>Average Gain (dB)</b>	~-0.4	~-1.9	~-2.3
<b>Impedance (Ohm)</b>	50		
<b>Polarisation</b>	Linear		
<b>Radiation Pattern</b>	Omni-Directional		
<b>Max. Input Power (W)</b>	25		
<b>Connector Type</b>	Most RF Connectors (U.FL Standard)		
<b>Cable Length</b>	Any Cable Length (100mm Standard)		
<b>Cable Type</b>	Other Cables Available (1.37mm Standard)		

### Antenna Measurement Conditions:

Mounted on 30 x 30 x 0.25 cm ABS Plate

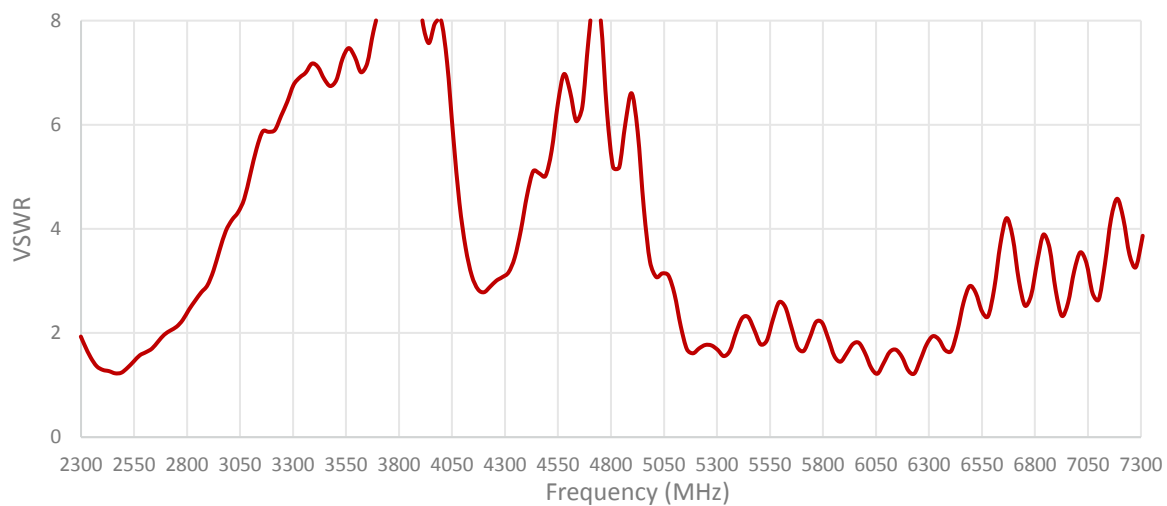
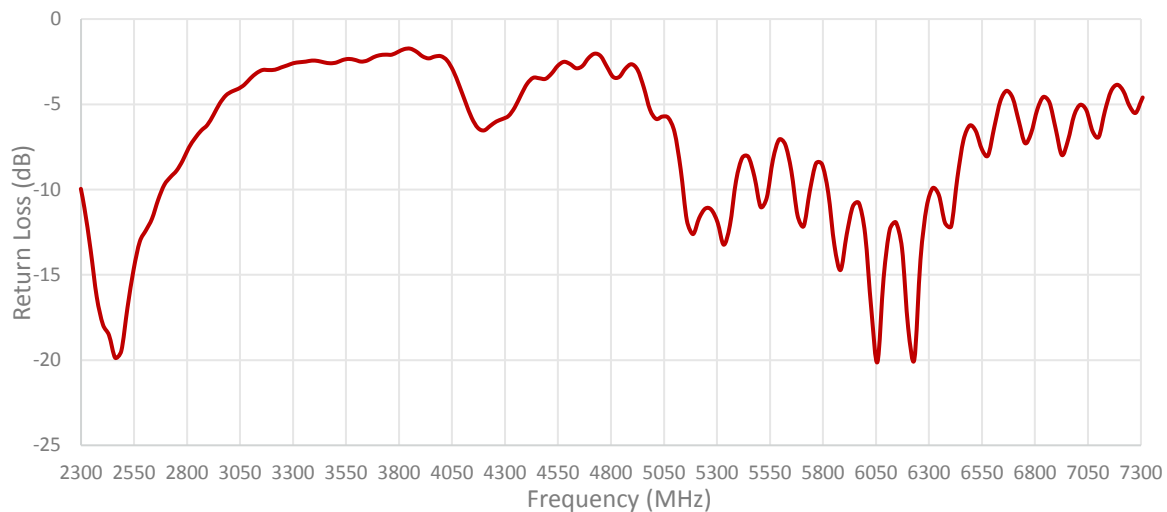
100 mm of 1.37 mm Cable

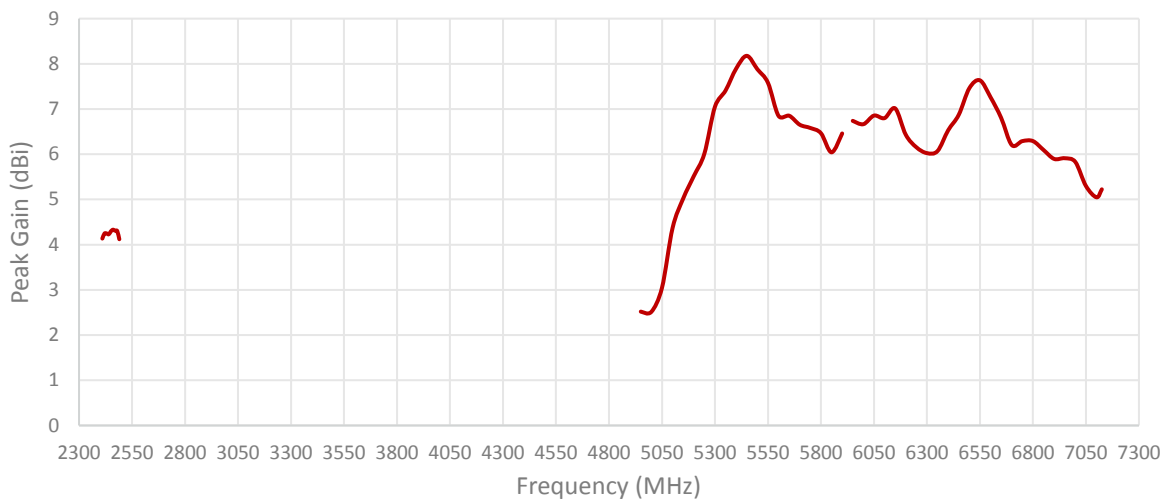
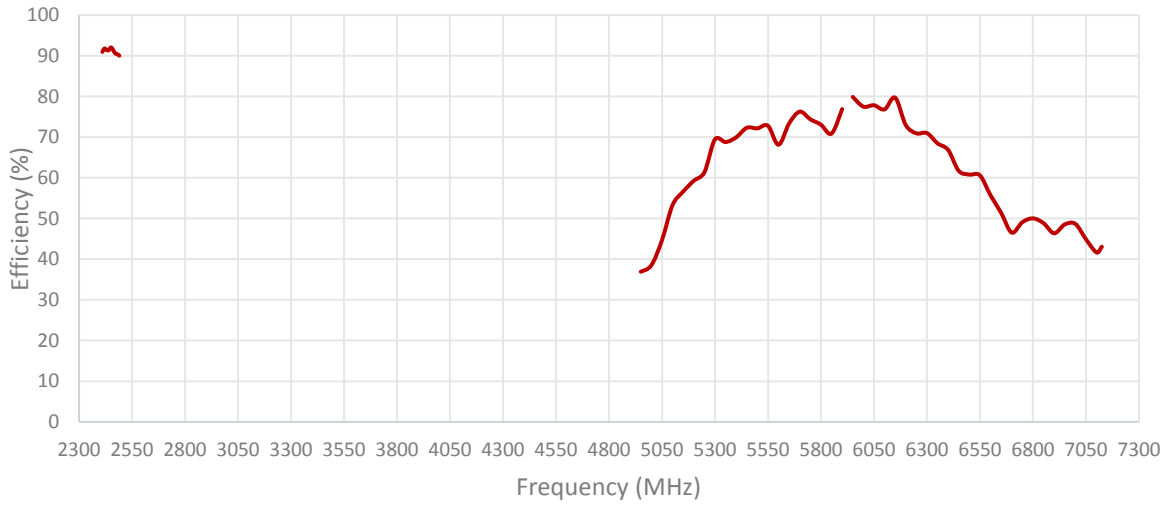
Measured in Certified CTIA 3D Anechoic Chamber

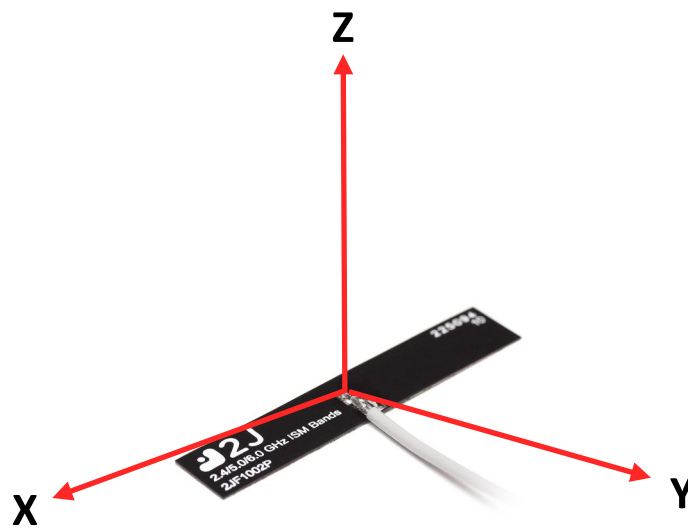
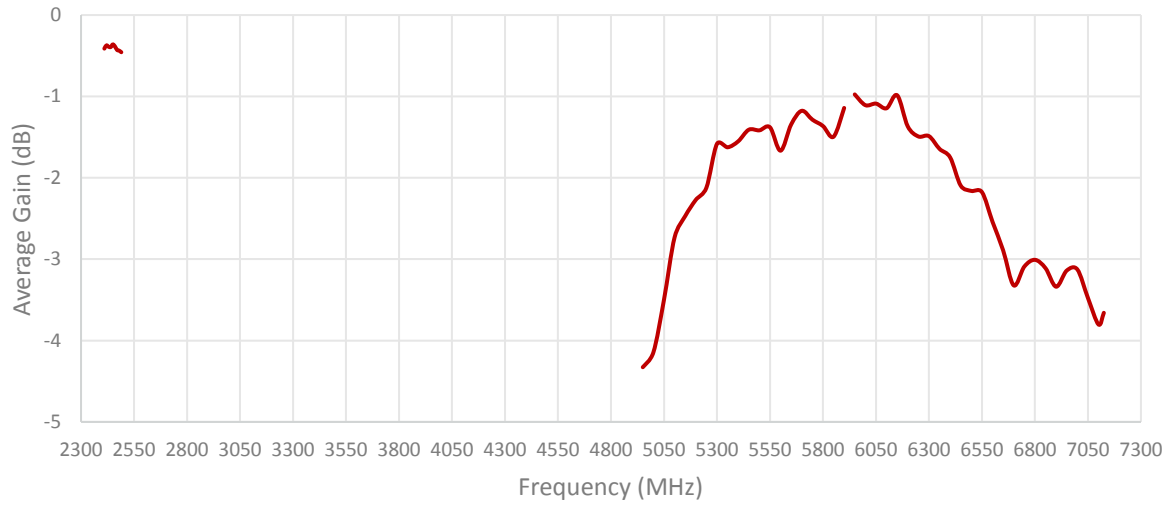
## 2. Mechanical and environmental specifications

Specifications	2JF1002P
<b>Mounting Type</b>	Self-Adhesive
<b>Dimensions (mm)</b>	40 × 8 × 0.2
<b>Adhesive Type</b>	3M 467
<b>Material</b>	Flexible Polymer
<b>Operating Temperature (C)</b>	-40 to +85
<b>Storage Temperature (C)</b>	-40 to +85
<b>Substance Compliance</b>	RoHS

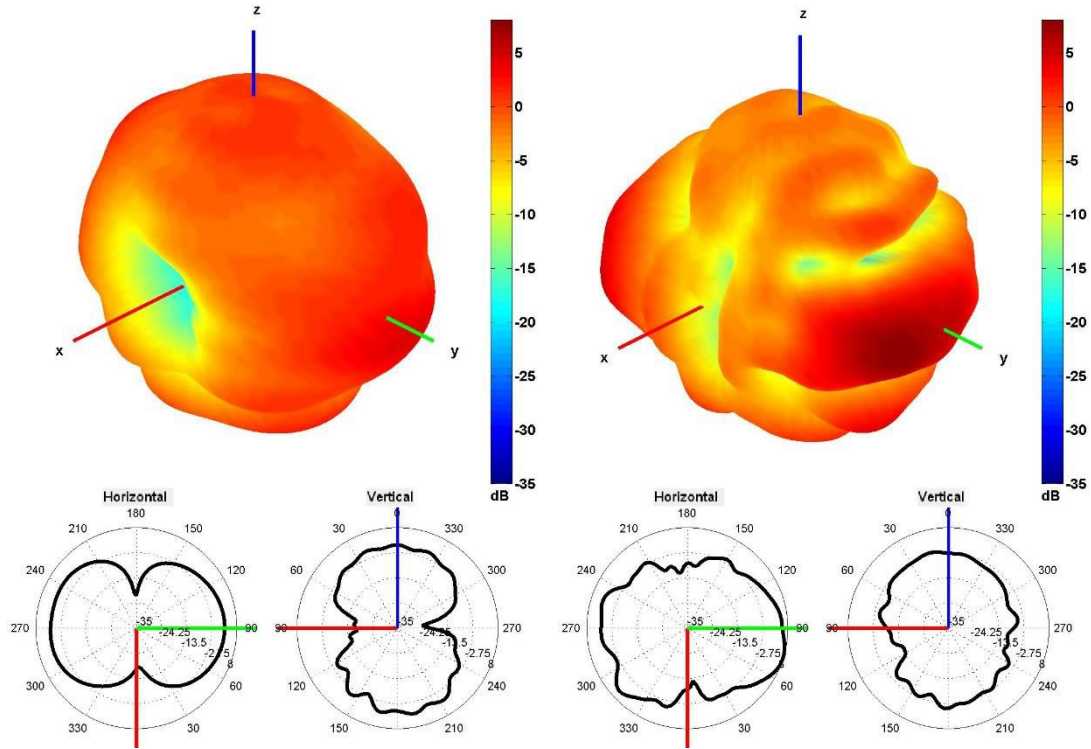
### 3. Antenna parameters



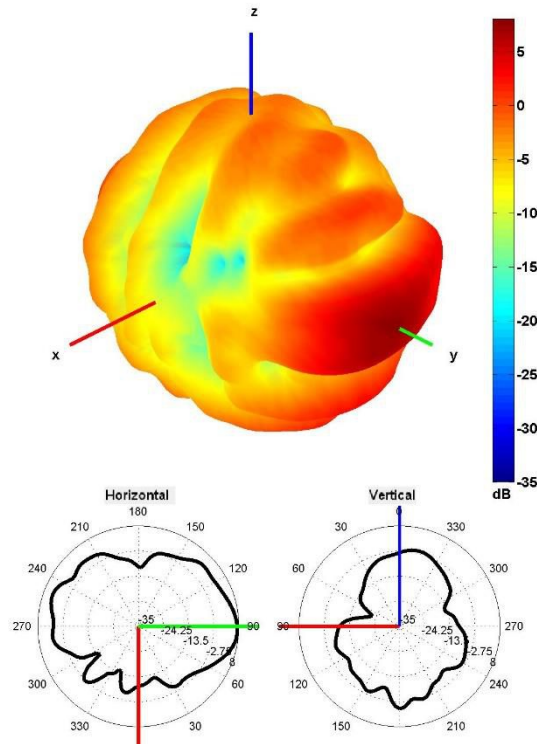




Radiation pattern reference

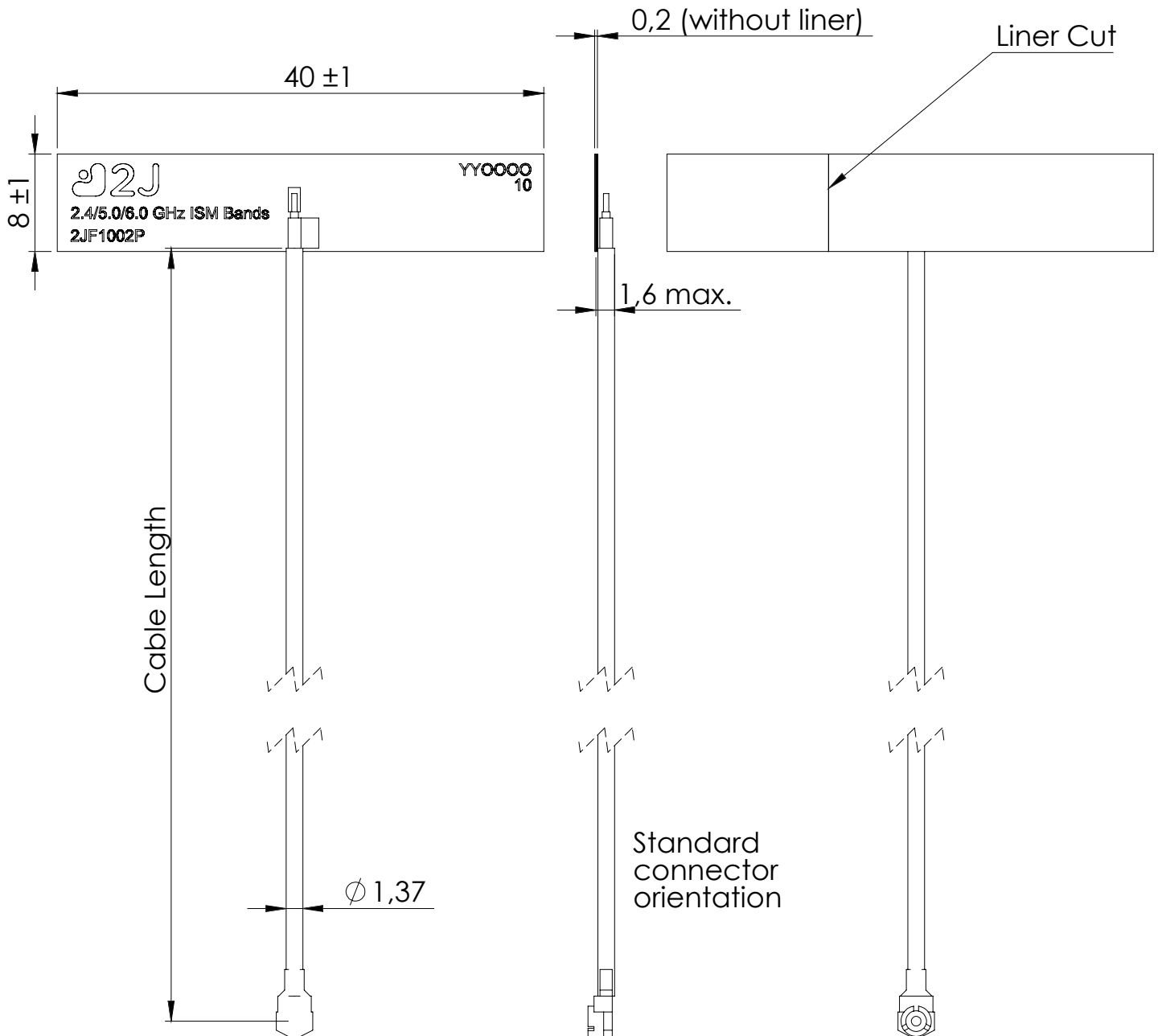


2450 and 5500 MHz Radiation pattern



6500 MHz Radiation pattern

## 4. Antenna drawings



5. Antenna Images

