

2JF0102P

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

Embedded Antenna

WIFI 6E / WIFI 7 Antenna

High Performance

Ground Plane Independent

Self-Adhesive

Dimensions 39.6 × 8.4 × 0.1 mm

Customizable Cable and Connector



Description

2JF0102P 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. 2JF0102P 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) | ~-20.8 | ~-15.5 | ~-8.9 |
| VSWR | ~1.2:1 | ~1.4:1 | ~2.1:1 |
| Efficiency (%) | ~76 | ~82 | ~60.4 |
| Peak Gain (dBi) | ~2.2 | ~3.8 | ~3.2 |
| Average Gain (dB) | ~-1.2 | ~-0.8 | ~-2.2 |
| Impedance (Ohm) | 50 | | |
| Polarisation | Linear | | |
| Radiation Pattern | Omni-Directional | | |
| Max. Input Power (W) | 25 | | |
| Connector Type | Most RF Connectors (U.FL Standard) | | |
| Cable Length | Any Cable Length (100mm Standard) | | |
| Cable Type | Other Cables Available (1.37mm Standard) | | |

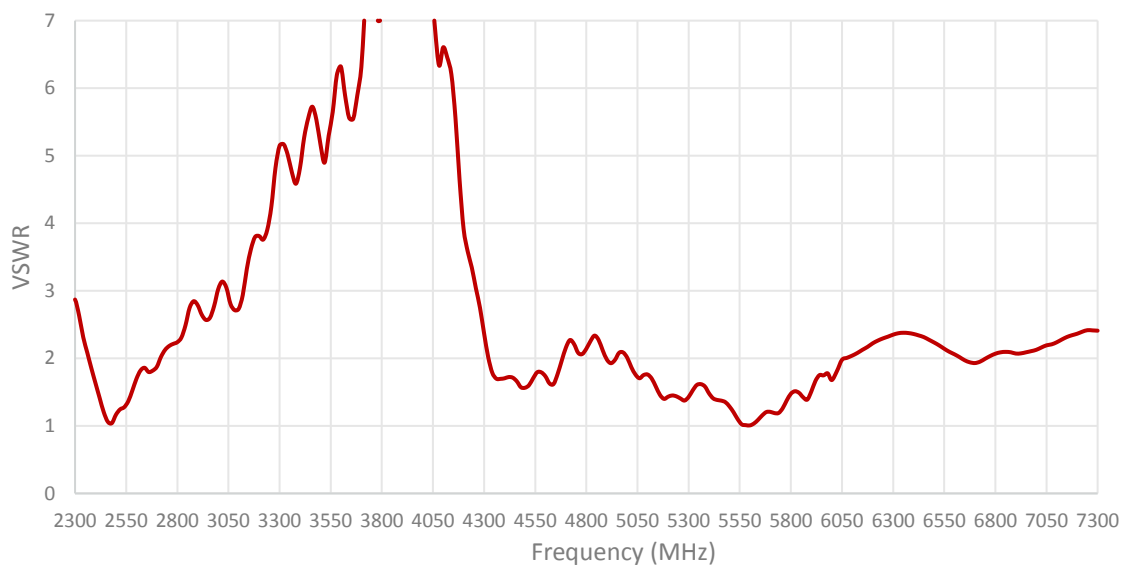
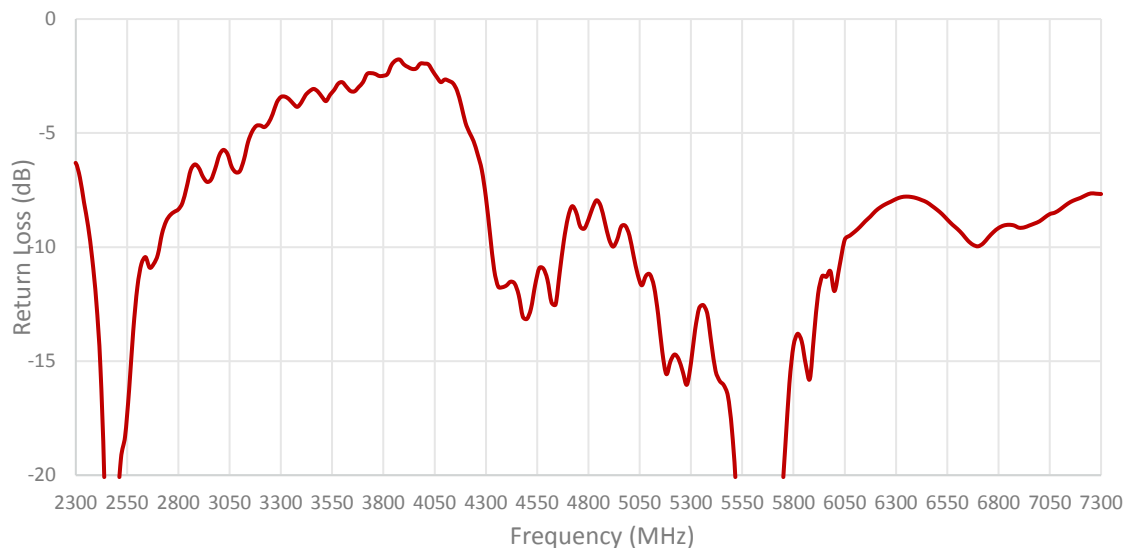
Antenna Measurement Conditions:

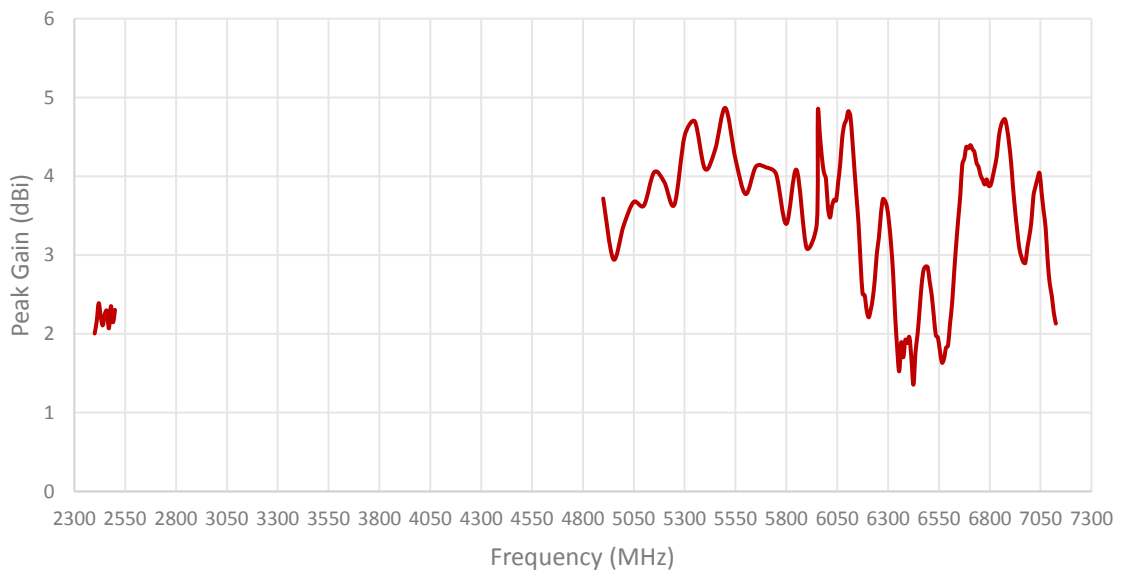
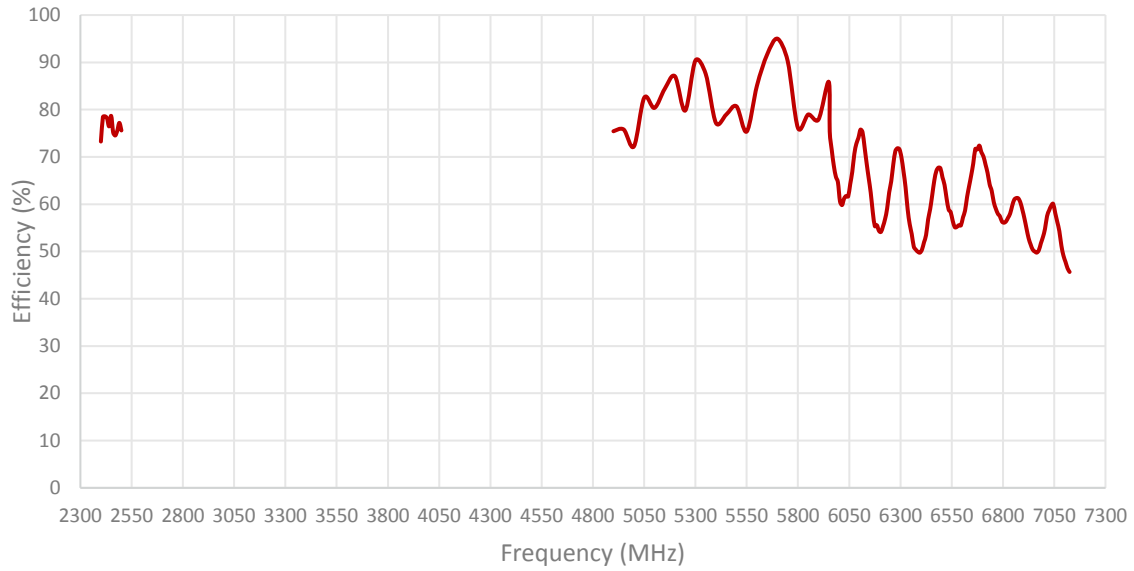
Mounted 30x30x0.25 Cm ABS Plastic Plate
 Measured in Certified CTIA 3D Anechoic Chamber

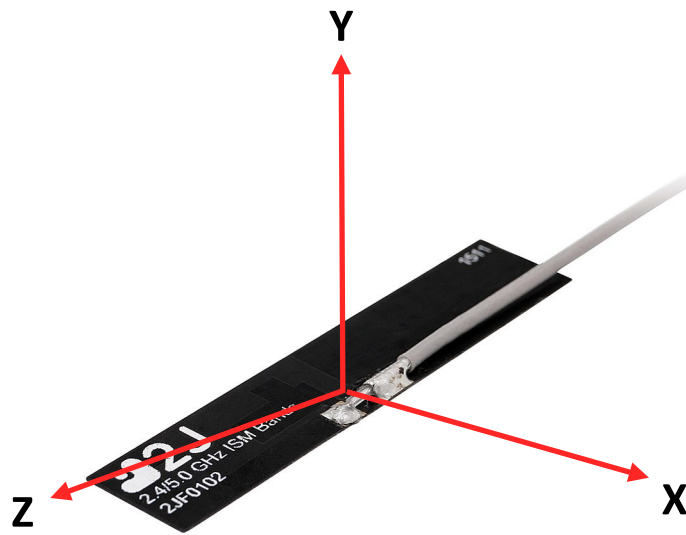
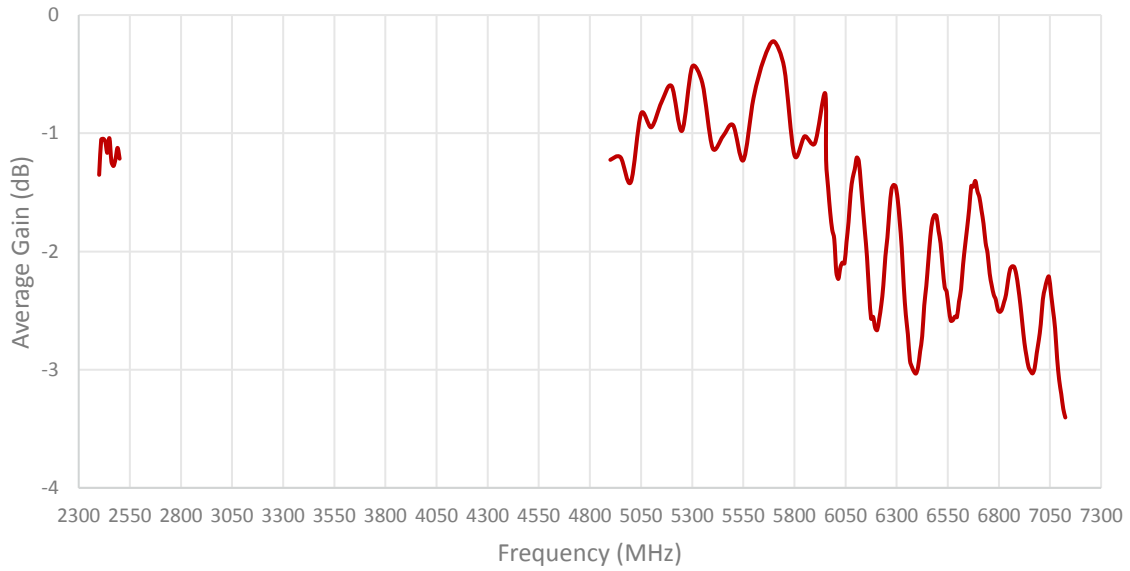
2. Mechanical and environmental specifications

| Specifications | 2JF0102P |
|----------------------------------|------------------|
| Mounting Type | Self-Adhesive |
| Dimensions (mm) | 39.6x 8.4 x 0.1 |
| Adhesive Type | 3M 467 |
| Material | Flexible Polymer |
| Operating Temperature (C) | -40 to +85 |
| Storage Temperature (C) | -40 to +85 |
| Substance Compliance | RoHS |

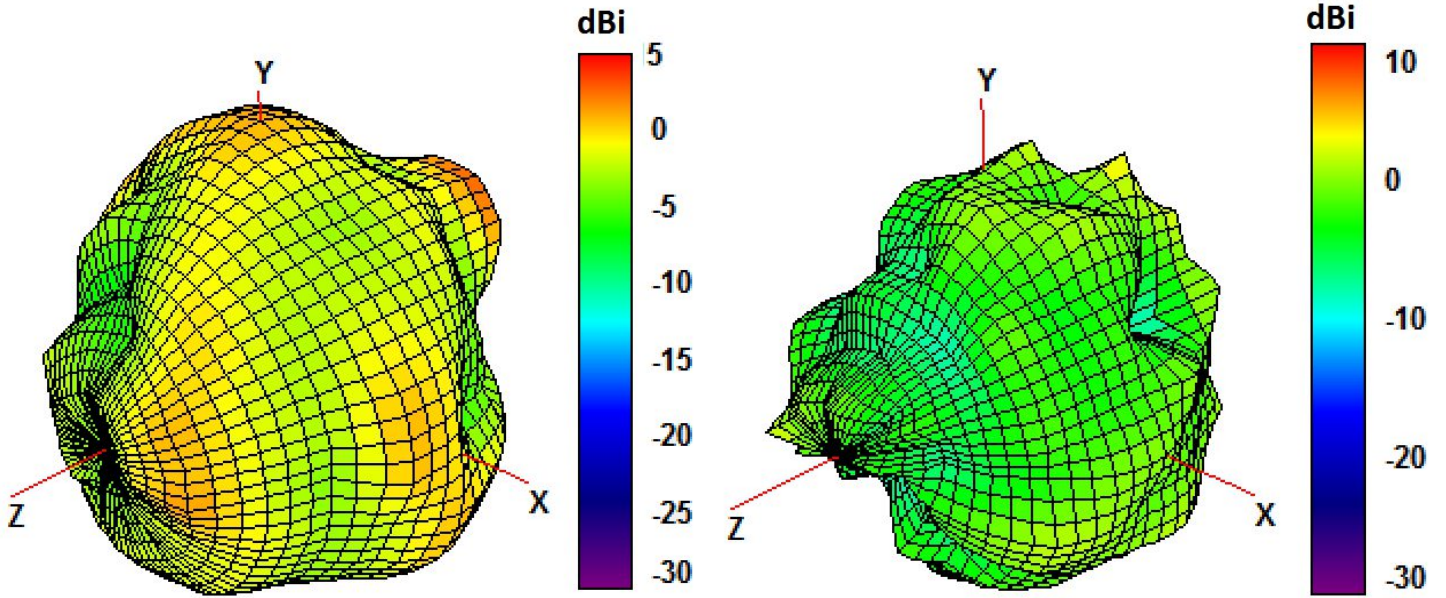
3. Antenna parameters



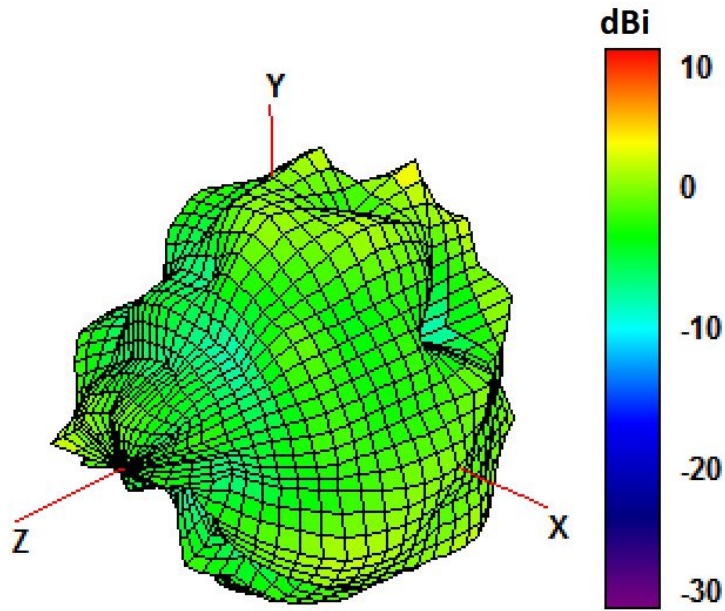




Radiation pattern reference

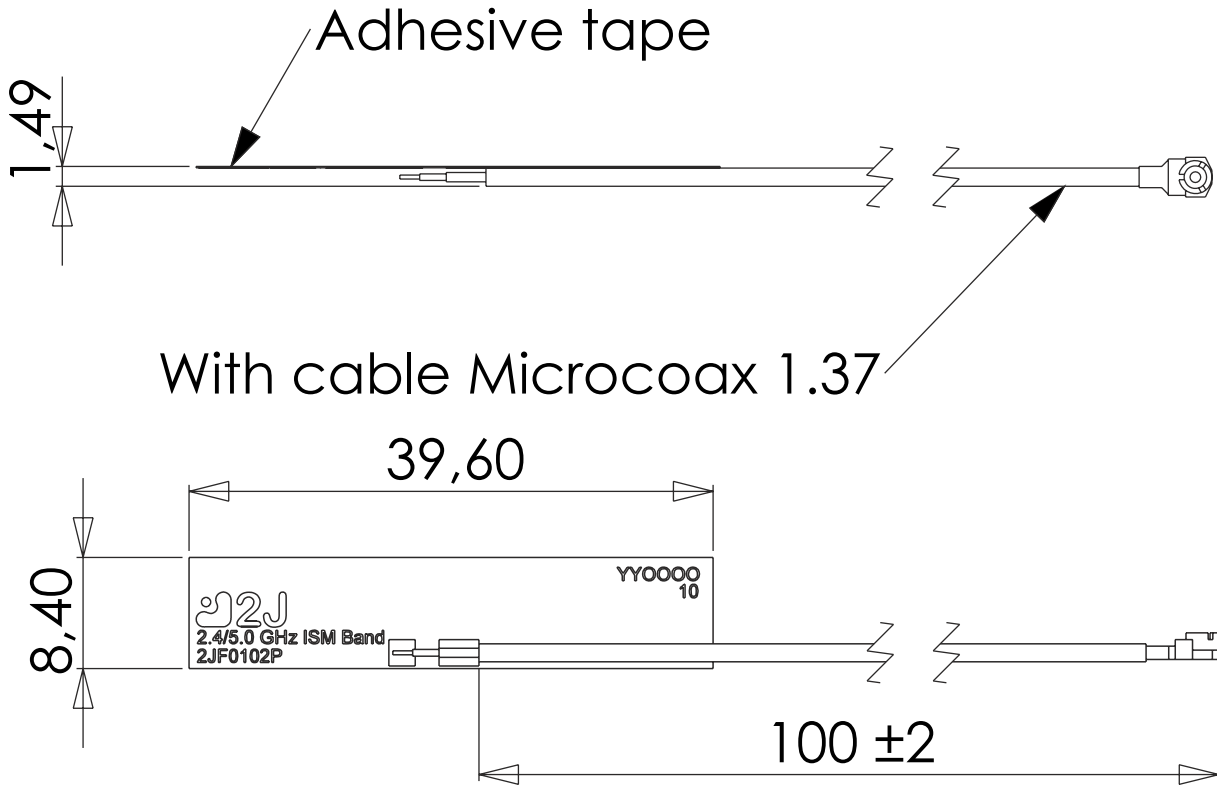


2450 and 5500 MHz Radiation pattern



6500 MHz Radiation pattern

4. Antenna drawings



5. Antenna Images

