

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 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 | | |
|-----------------------------|--|-----------|-----------|
| 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) | ~-19.3 | ~-9.5 | ~-9.3 |
| VSWR | ~1.2:1 | ~2.3:1 | ~2.4:1 |
| Efficiency (%) | ~91.1 | ~65.7 | ~60.0 |
| Peak Gain (dBi) | ~4.2 | ~6.1 | ~6.4 |
| Average Gain (dB) | ~-0.4 | ~-1.9 | ~-2.3 |
| 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 on 30 x 30 x 0.25 cm ABS Plate

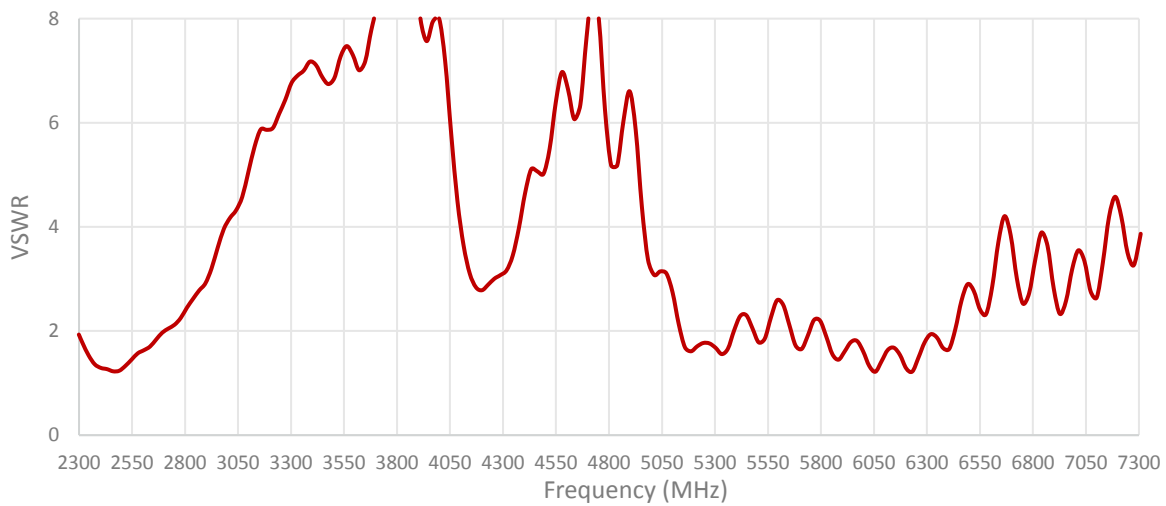
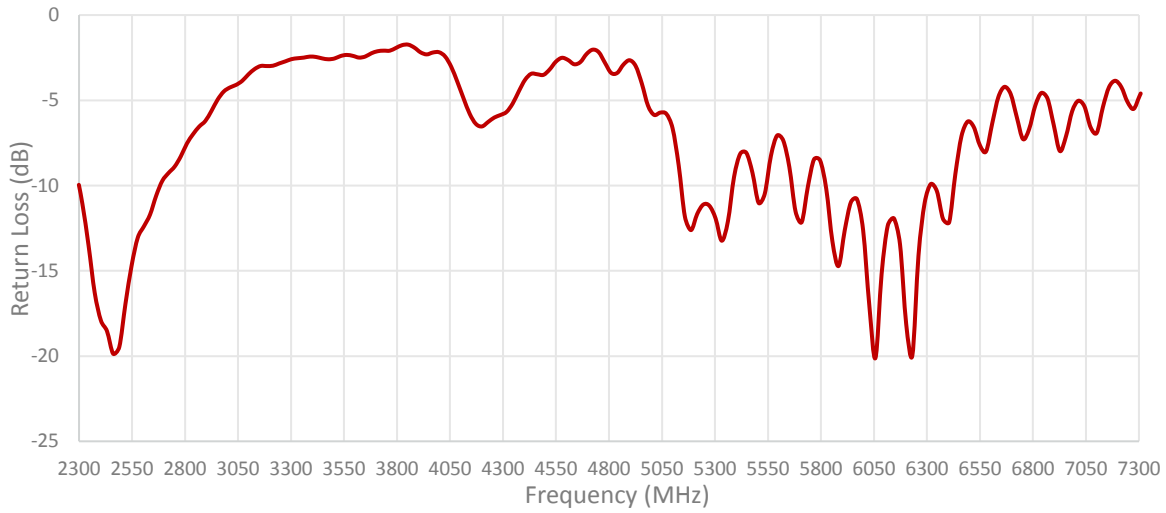
100 mm of 1.37 mm Cable

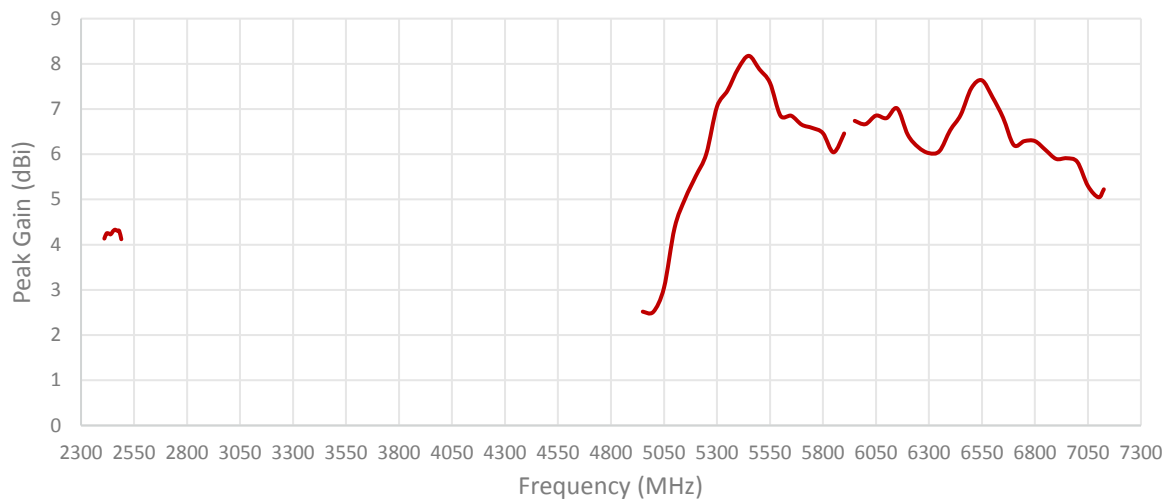
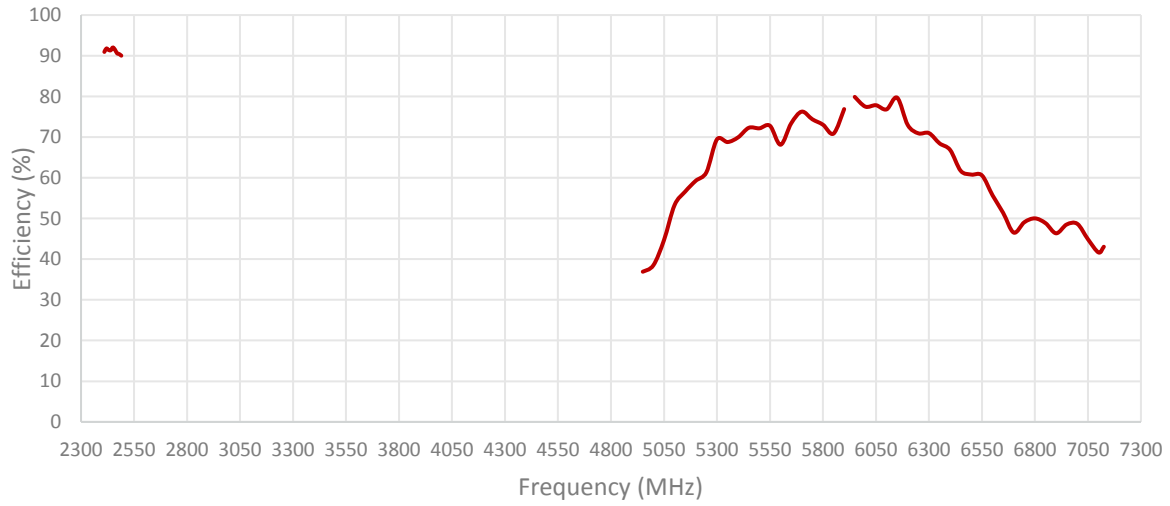
Measured in Certified CTIA 3D Anechoic Chamber

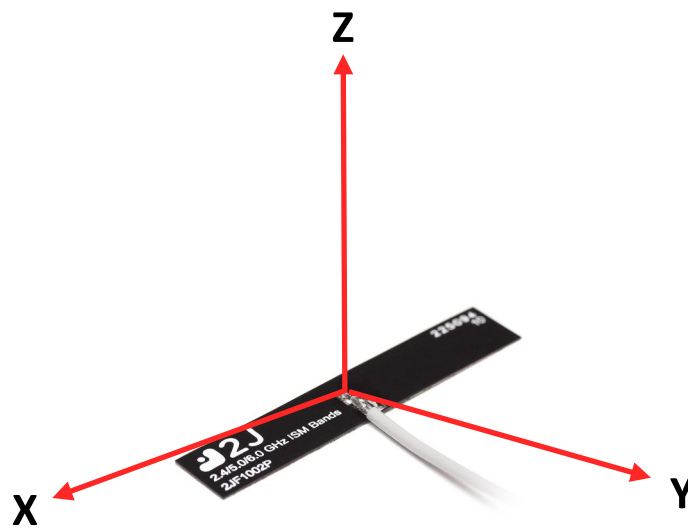
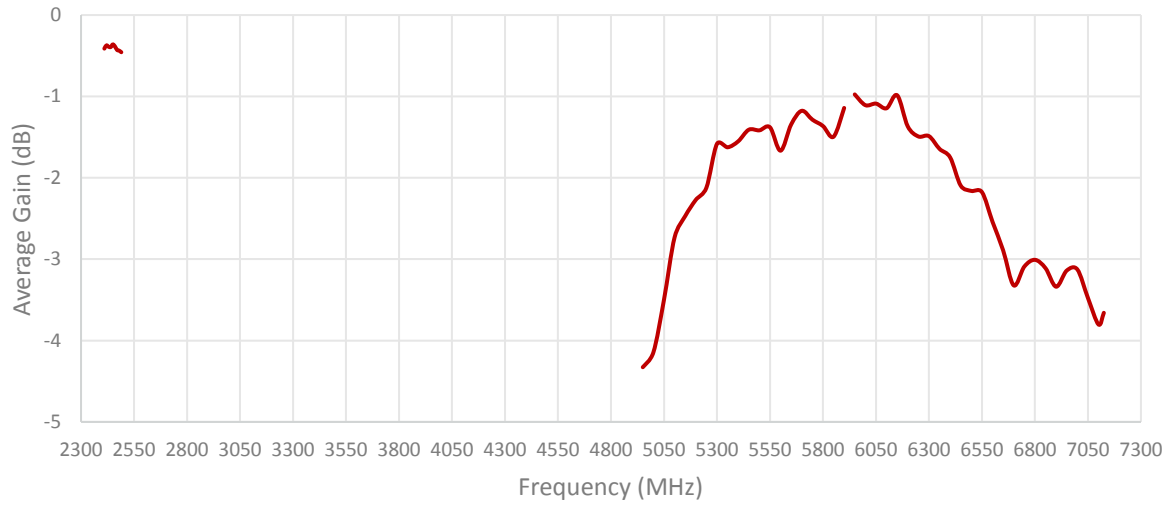
2. Mechanical and environmental specifications

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

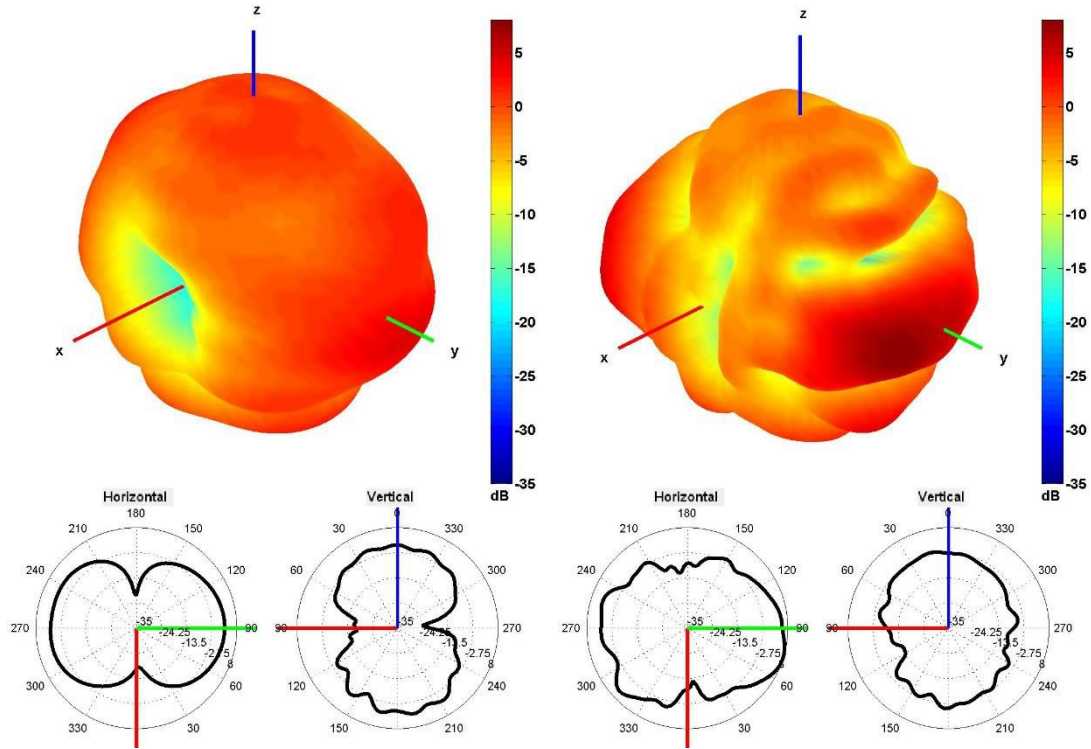
3. Antenna parameters



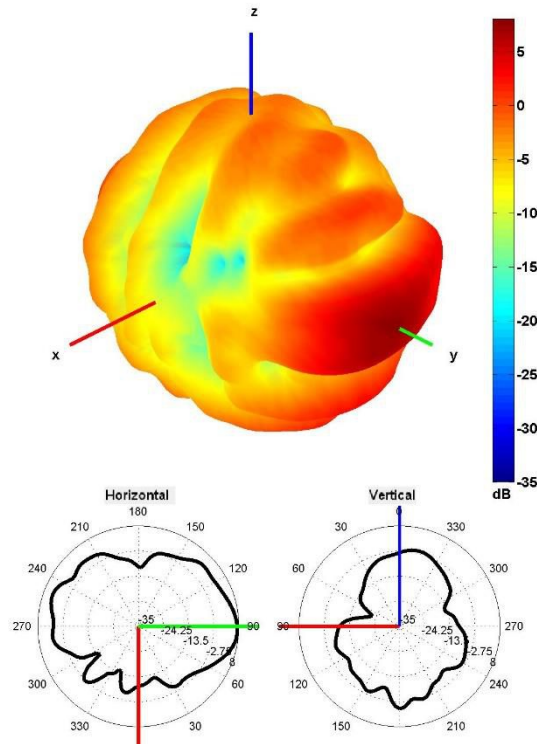




Radiation pattern reference

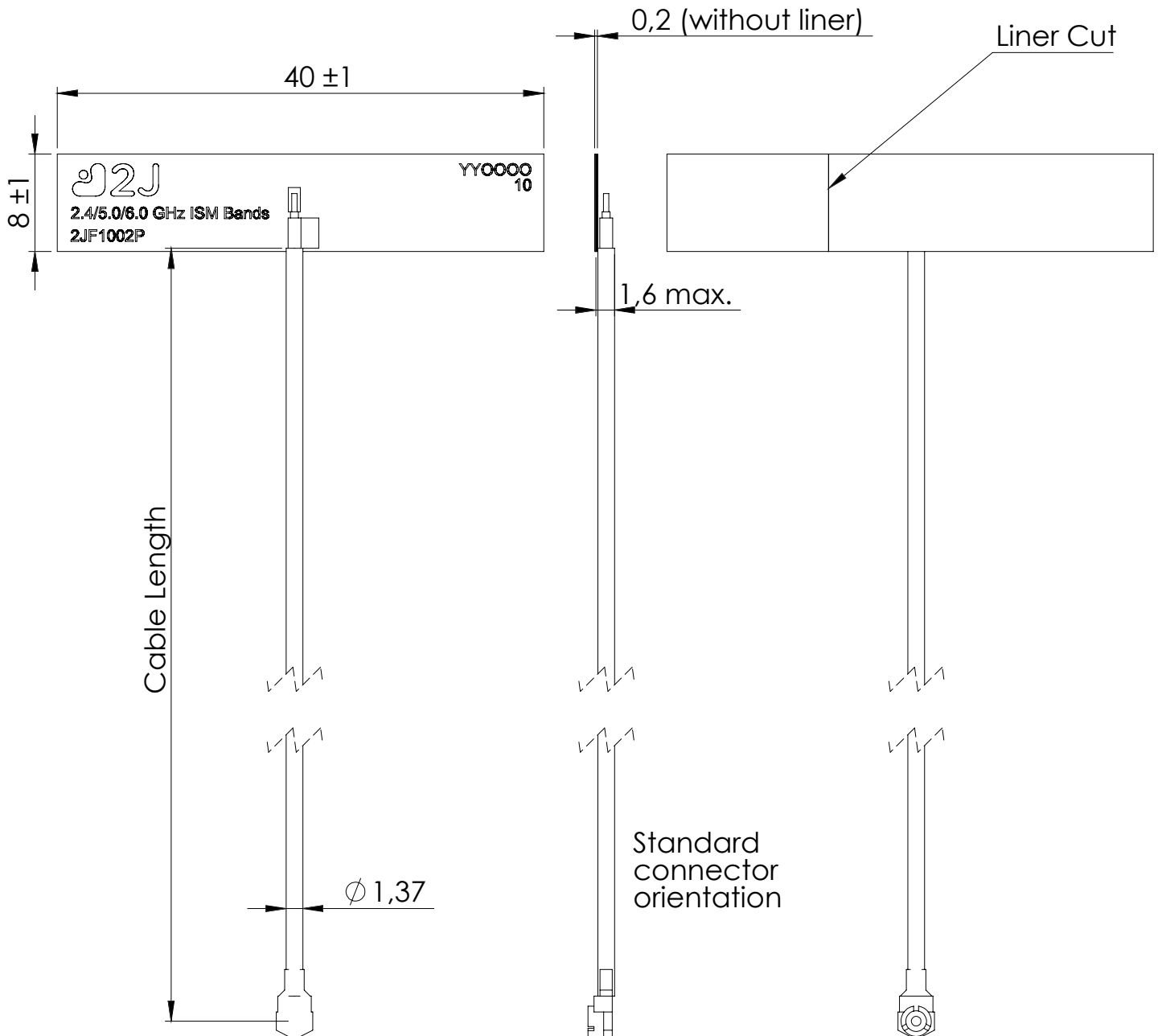


2450 and 5500 MHz Radiation pattern



6500 MHz Radiation pattern

4. Antenna drawings



5. Antenna Images

