

## 2JF0102Pa

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 Antenna

High Performance

Ground Plane Independent

Self-Adhesive

Dimensions 67.5 × 25.0 × 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>     | ~-22.1                                   | ~-14.6    | ~-8.8     |
| <b>VSWR</b>                 | ~1.2:1                                   | ~1.5:1    | ~2.2:1    |
| <b>Efficiency (%)</b>       | ~71.3                                    | ~68.3     | ~59.0     |
| <b>Peak Gain (dBi)</b>      | ~2.0                                     | ~4.7      | ~3.7      |
| <b>Average Gain (dB)</b>    | ~-1.5                                    | ~-1.7     | ~-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) |           |           |

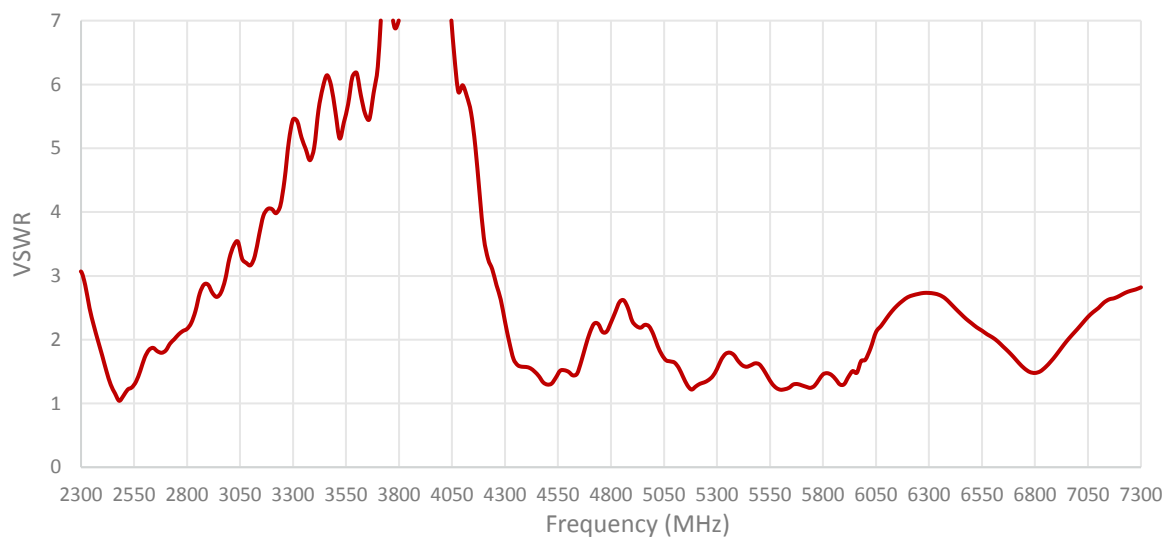
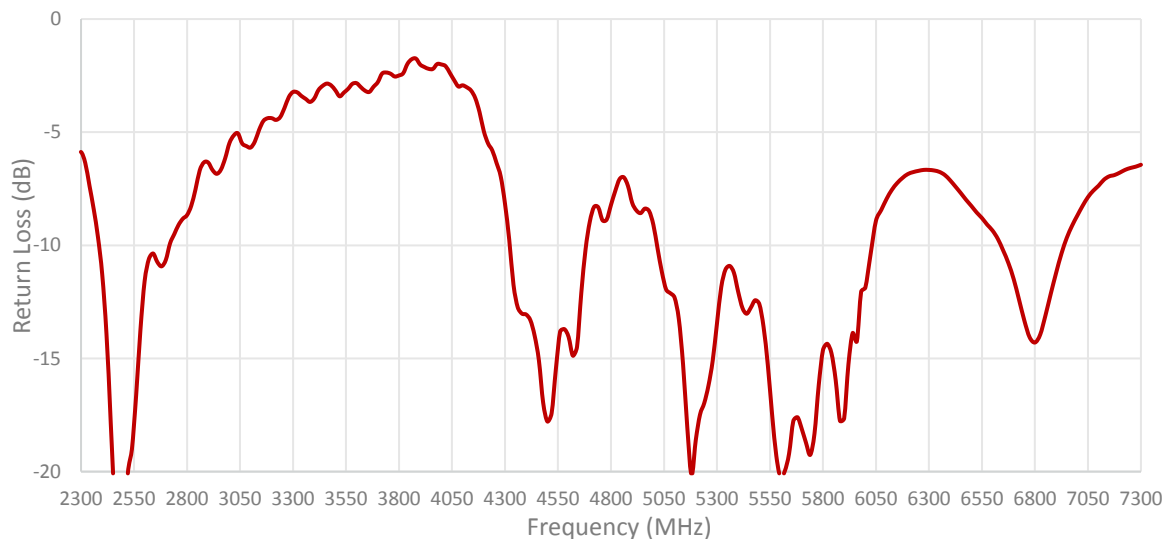
### Antenna Measurement Conditions:

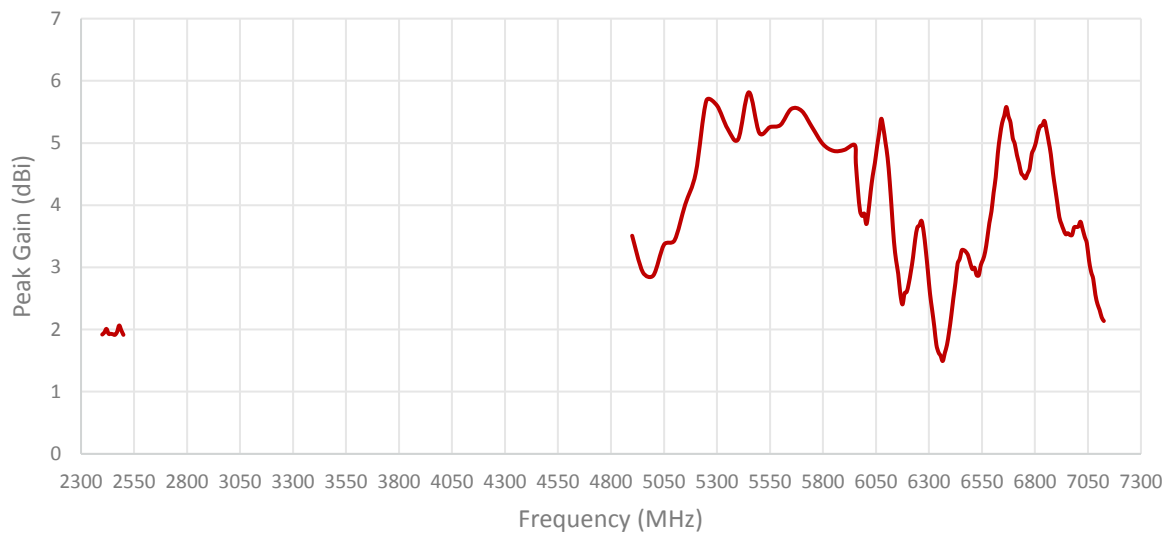
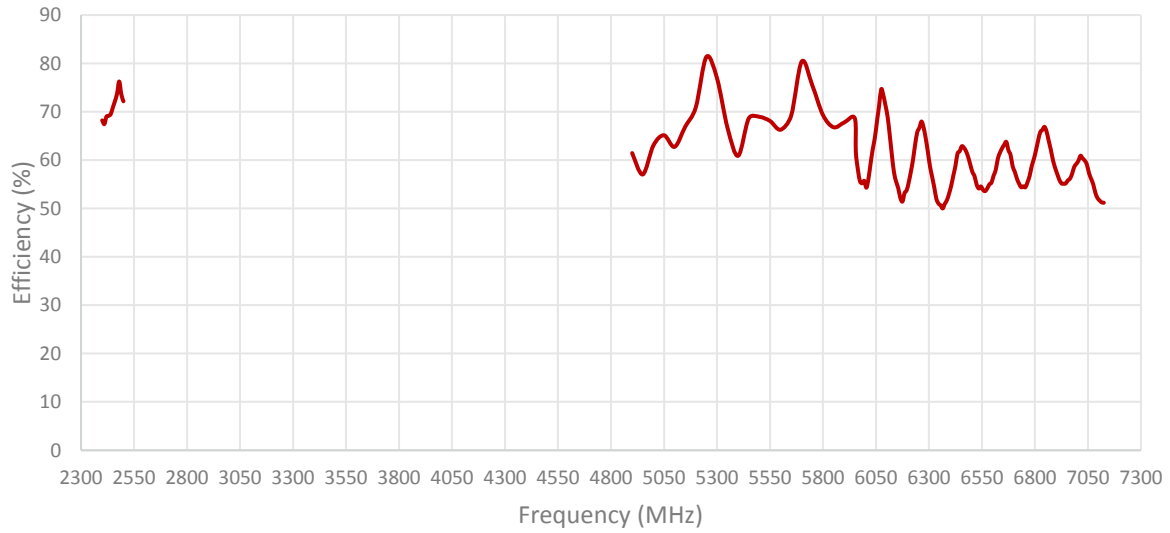
Mounted 30x30x0.25 Cm ABS Plastic Plate  
 Measured in Certified CTIA 3D Anechoic Chamber

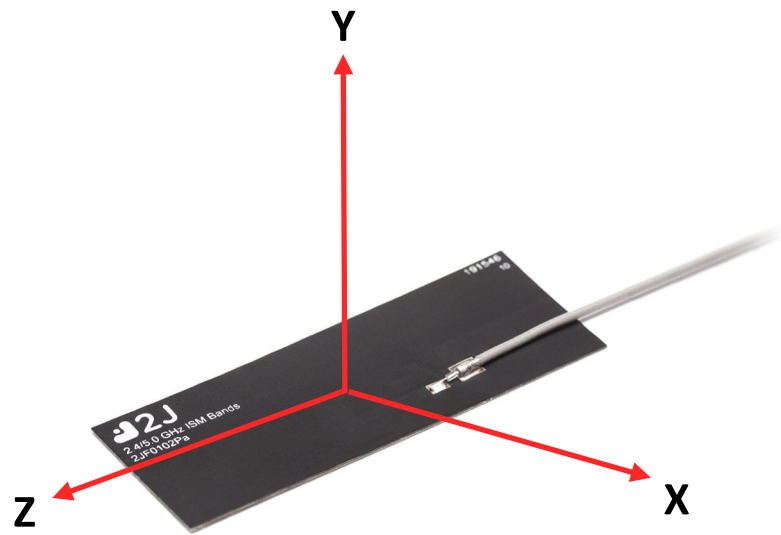
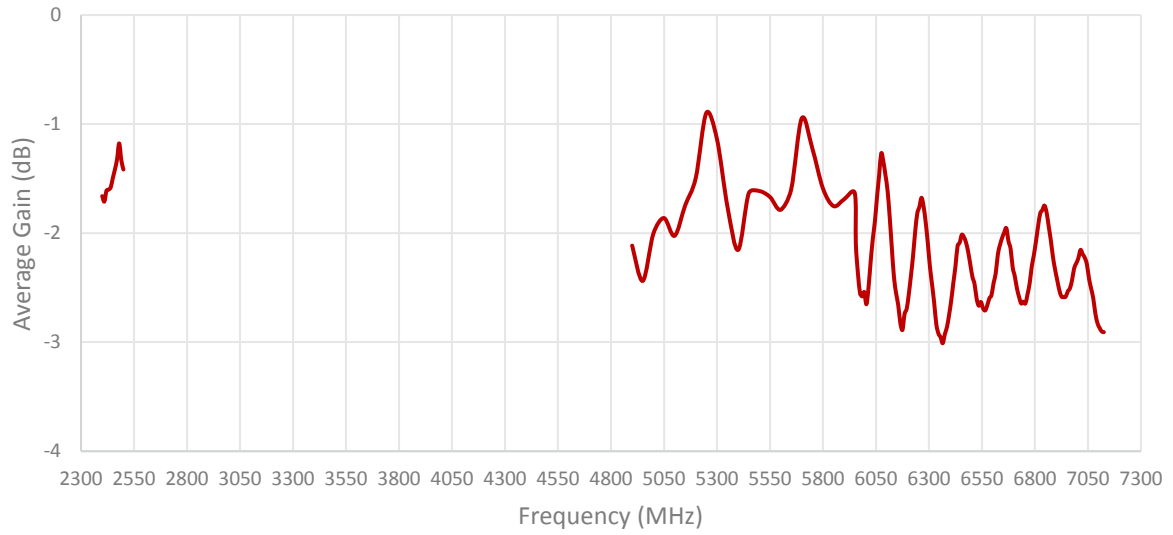
## 2. Mechanical and environmental specifications

| Specifications                   | 2JF0102Pa         |
|----------------------------------|-------------------|
| <b>Mounting Type</b>             | Self-Adhesive     |
| <b>Dimensions (mm)</b>           | 67.5 × 25.0 × 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              |

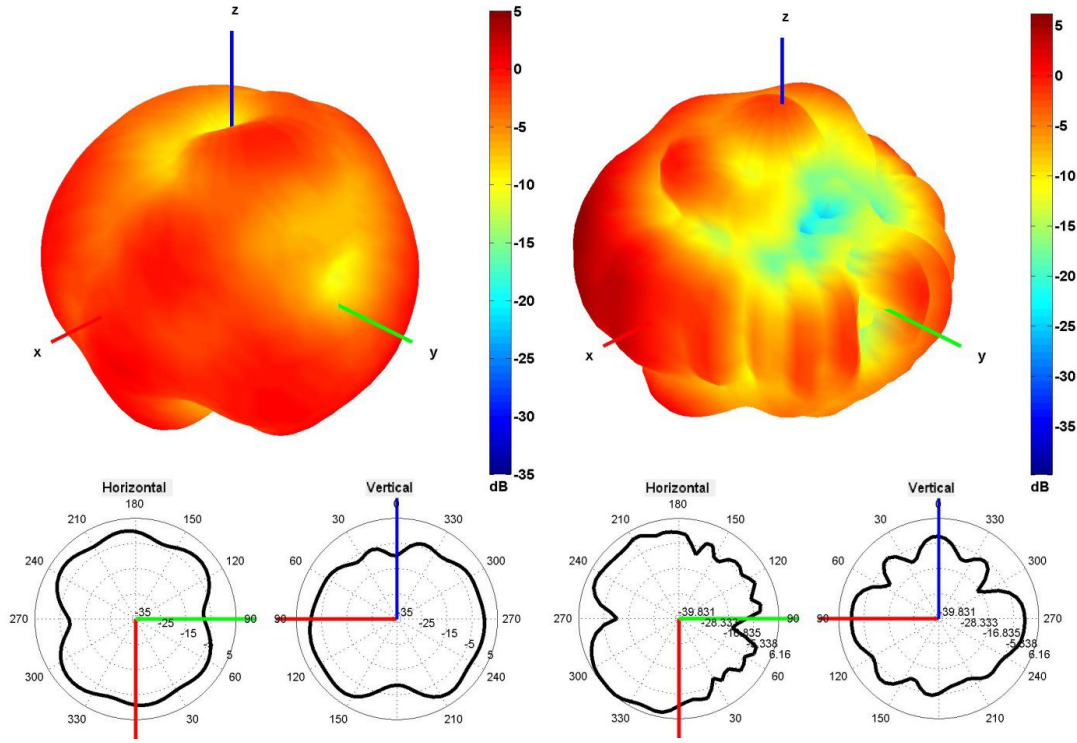
### 3. Antenna parameters



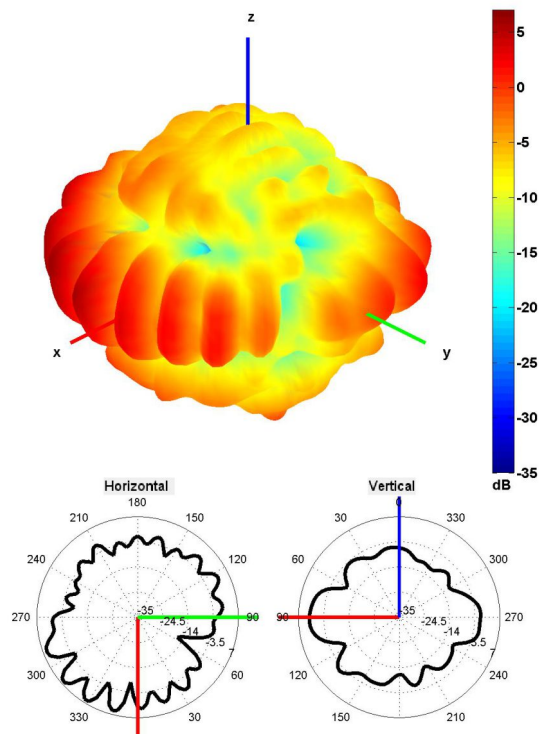




Radiation pattern reference

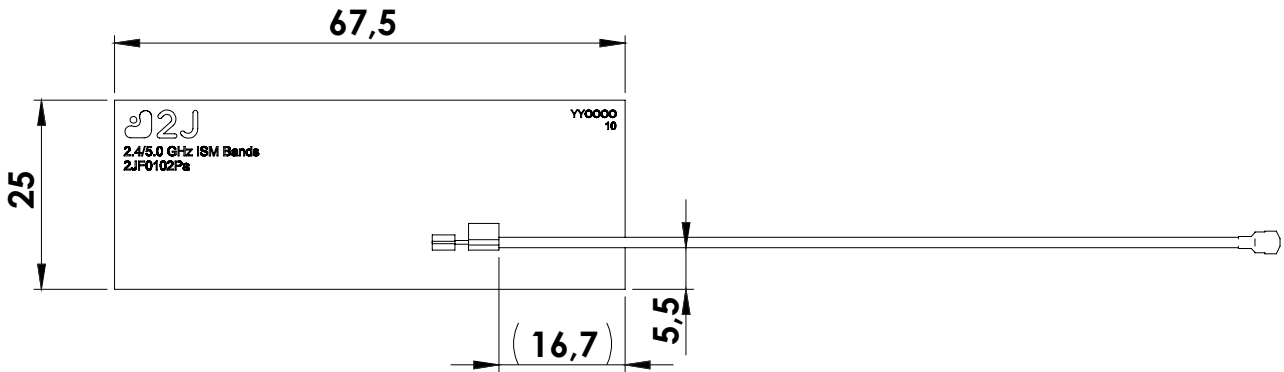
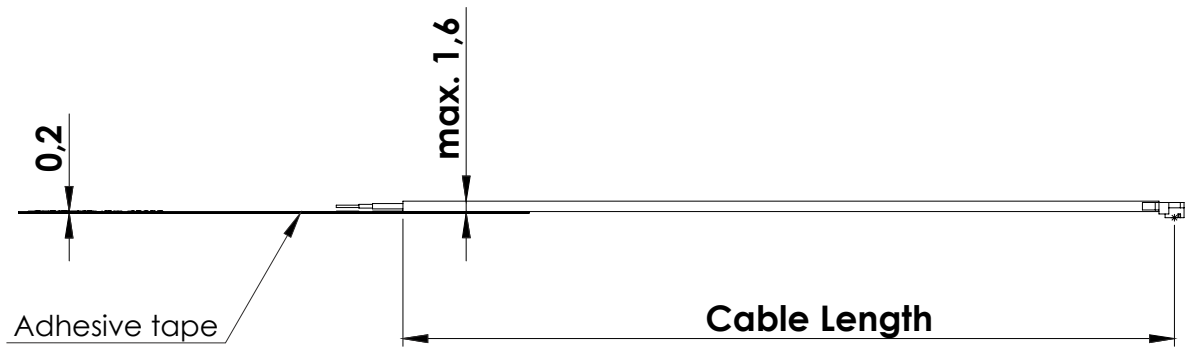


2450 and 5500 MHz Radiation pattern



6500 MHz Radiation pattern

## 4. Antenna drawings



## 5. Antenna Images

