

# Antenna

# YYL00A1CA Datasheet

## Antenna Services

Version: 2.0

Date: 2022-03-28

Status: Preliminary



## 1 Product Description

The antenna is designed for superior performance, and can be widely used for wireless applications.

We provide comprehensive antenna design support such as simulation, testing and manufacturing for custom antenna solutions to meet your specific application needs.

## 2 Product Features

- WIFI2.4G&5.8G
- High efficiency
- Excellent performance



### 3 Product Specifications

#### Passive Electrical Specifications

|                   |                             |
|-------------------|-----------------------------|
| Frequency Range   | 2400–2500 MHz&5150–5850 MHz |
| Input Impedence   | 50 Ω                        |
| VSWR              | ≤ 2.5                       |
| Gain              | ≤ 5.29 dBi                  |
| Polarization Type | Linear                      |

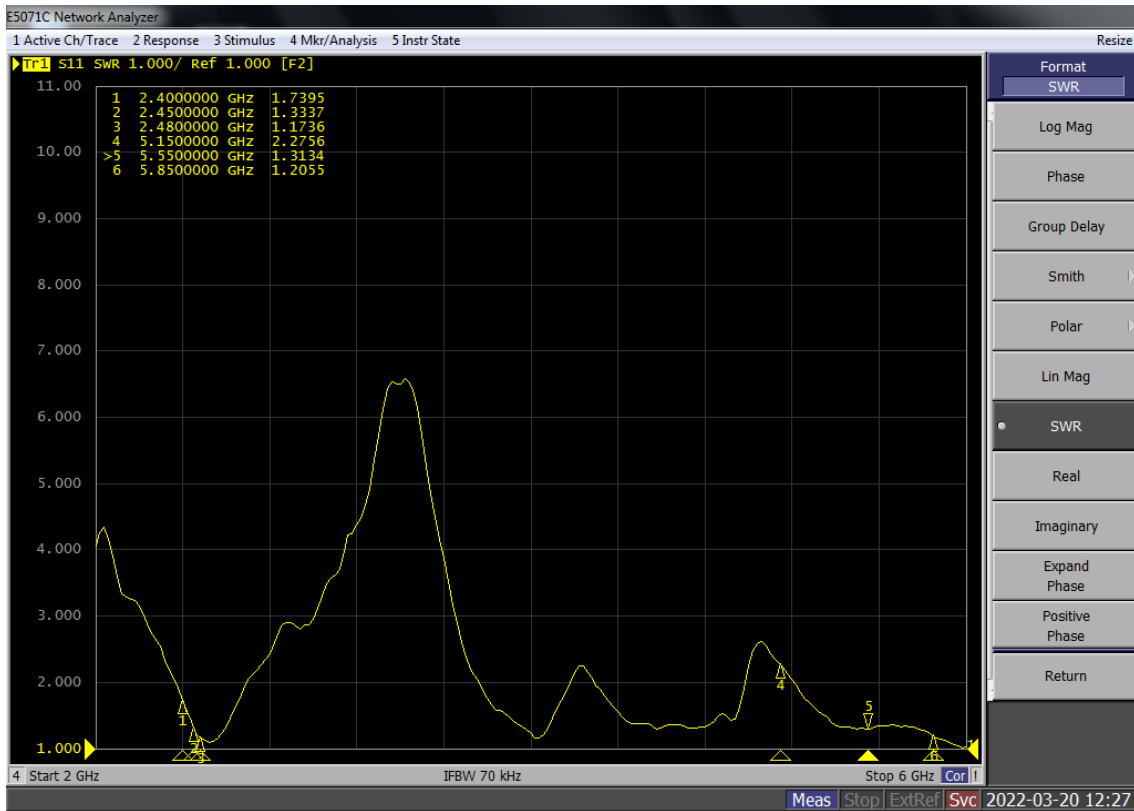
#### Detailed Passive Electrical Specifications

| Frequency Range (MHz)  | 2400–2500 | 5150–5850 |
|------------------------|-----------|-----------|
| VSWR (Max.)            | 1.74      | 2.27      |
| Average Efficiency (%) | 66.9      | 76.4      |
| Max. Peak Gain (dBi)   | 5.05      | 5.29      |

#### Mechanical Specifications

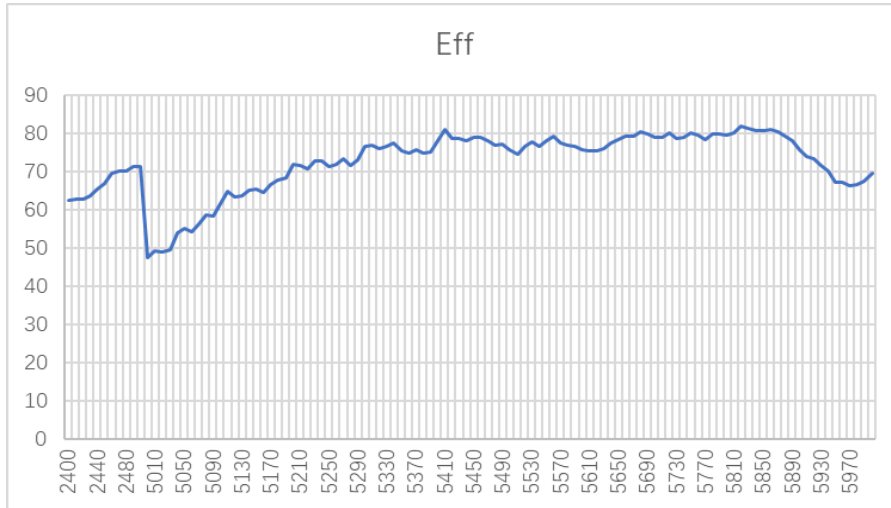
|                     |                  |
|---------------------|------------------|
| Antenna Size(mm)    | 37×18.6          |
| Casing              | FPC              |
| Connector Type      | RF 1             |
| Working Temperature | -30 °C to +65 °C |
| Radome Color        | Black            |
| Mounting Type       | Adhesive         |
| Weight              | 0.6g             |

## 4.2. VSWR



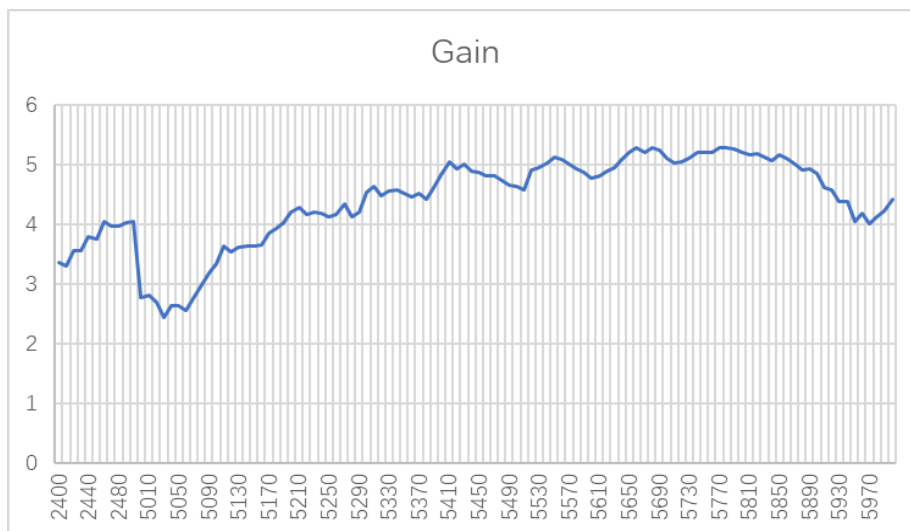
| Frequency (MHz) | 2400 | 2500 | 5000 | 5850 |
|-----------------|------|------|------|------|
| VSWR            | 1.74 | 1.17 | 2.27 | 1.20 |

### 4.3. Efficiency

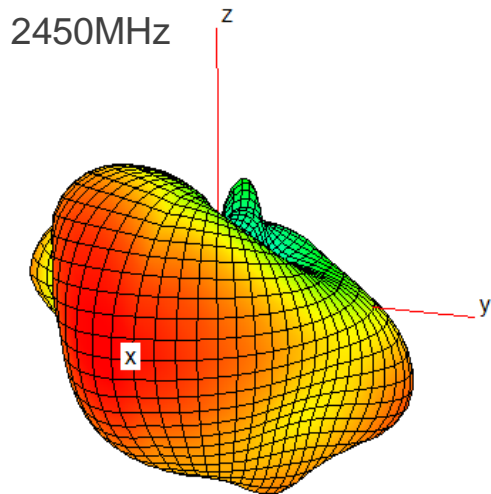


|                        |       |       |       |       |
|------------------------|-------|-------|-------|-------|
| <b>Frequency (MHz)</b> | 2400  | 2500  | 5000  | 5850  |
| <b>Efficiency (%)</b>  | 62.49 | 71.28 | 65.41 | 80.86 |

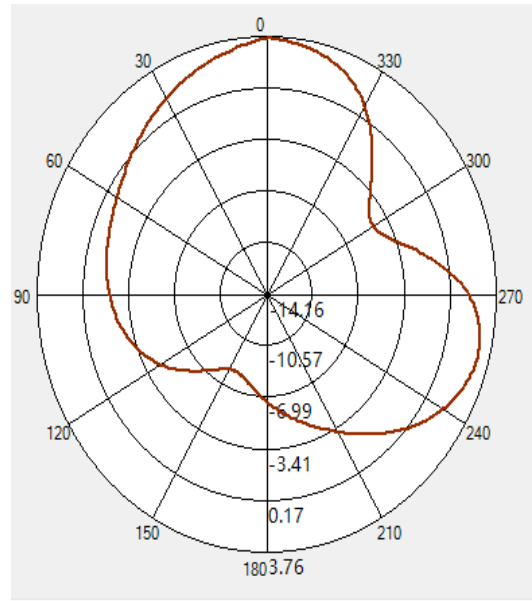
### 4.4. Gain



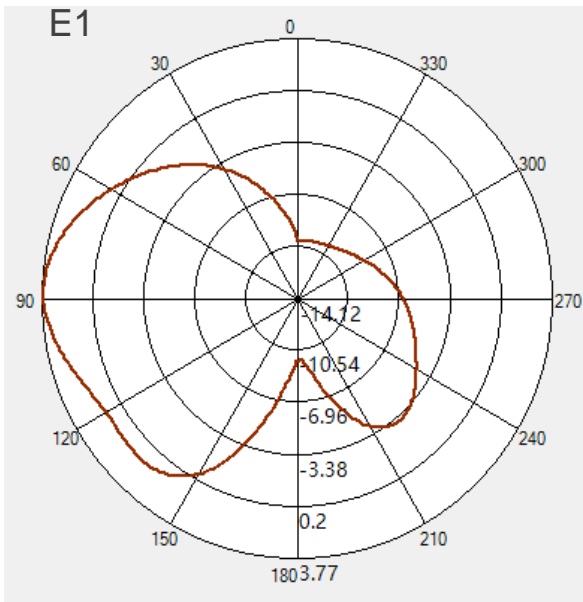
|                        |      |      |      |      |
|------------------------|------|------|------|------|
| <b>Frequency (MHz)</b> | 2400 | 2500 | 5000 | 5850 |
| <b>Gain (dBi)</b>      | 3.36 | 4.05 | 3.63 | 5.17 |



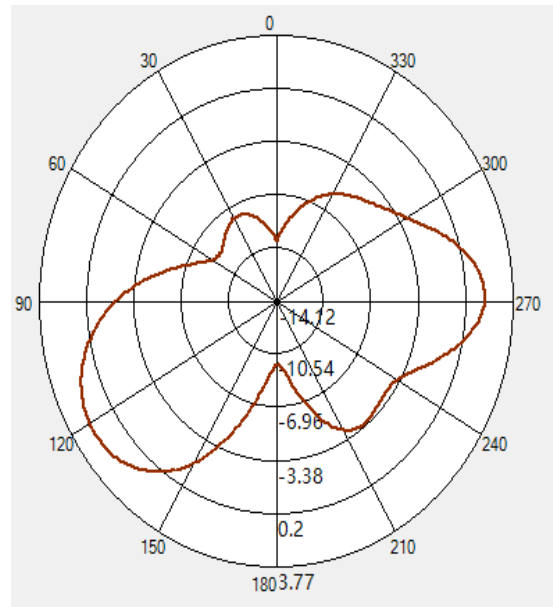
H1



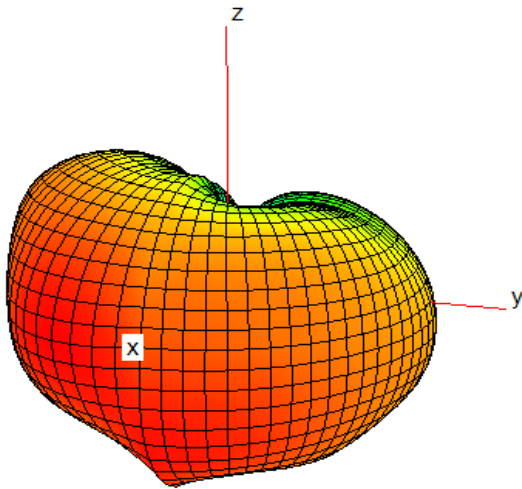
E1



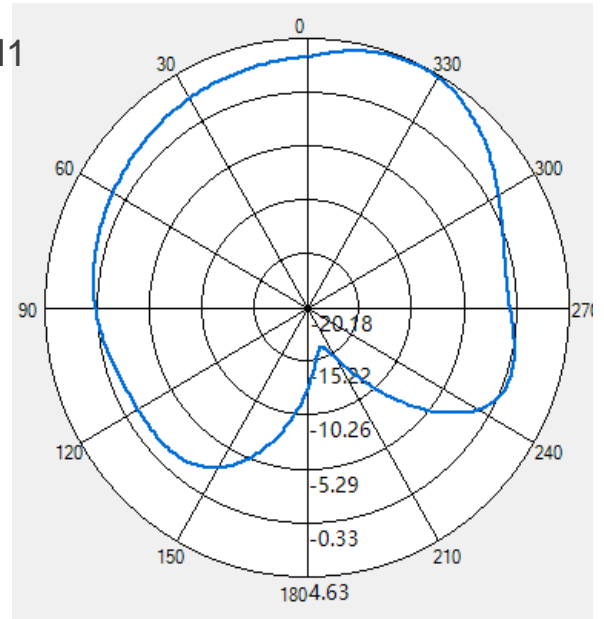
E2



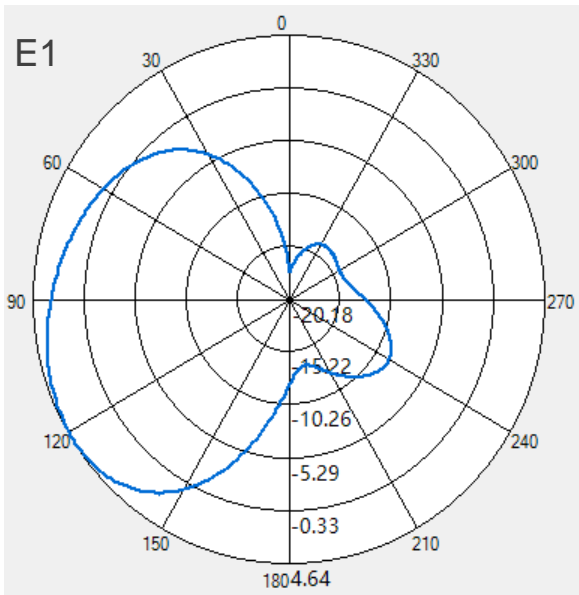
5800MHz



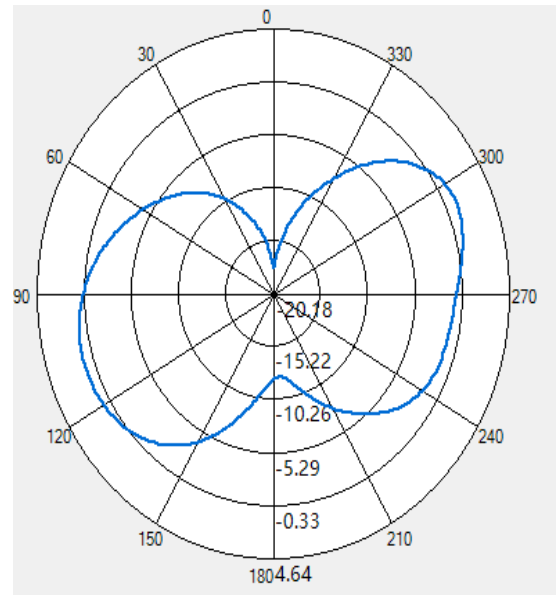
H1



E1



E2



### 5 Product Size

