

# Antenna Specifications

At Wavelink, our aim is to provide timely and comprehensive services to our customers. If you require any assistance, please contact our headquarters:

2nd Floor, Building D, No. 88 Tongqiu Road, Zhangpu Town, Kunshan City, Jiangsu Province, China

Tel: +86-512-57449488

Email: [sales@kswavelink.com](mailto:sales@kswavelink.com)

Wavelink Certifications:



Wavelink Partners:

**Skyworth** **NARI**

**flex**

 **HUAWEI**

 **VVDN**  
TECHNOLOGIES

**Tenda** **Infinova**

**dji**

**Hikvision**

**JABIL**

## Catalogue

|   |                              |   |
|---|------------------------------|---|
| 1 | Product Description .....    | 3 |
| 2 | Product Features .....       | 3 |
| 3 | Product Specifications ..... | 3 |
| 4 | Overall Performance .....    | 4 |
| 5 | Product Size .....           | 7 |
| 6 | Others .....                 | 8 |

## 1 Product Description

This wavelink antenna covers WiFi2.4.

## 2 Product Features

Easy to install  
High efficiency  
Removable



## 3 Product Specifications

### Passive Electrical Specifications

|                 |               |
|-----------------|---------------|
| Frequency Range | 2400-2500 MHz |
| Input Impedance | 50 $\Omega$   |
| VSWR            | $\leq 2$      |
| Gain            | $\leq 3$ dBi  |

Polarization Type Linear

## Mechanical Specifications

Antenna Size 195mm × 12mm

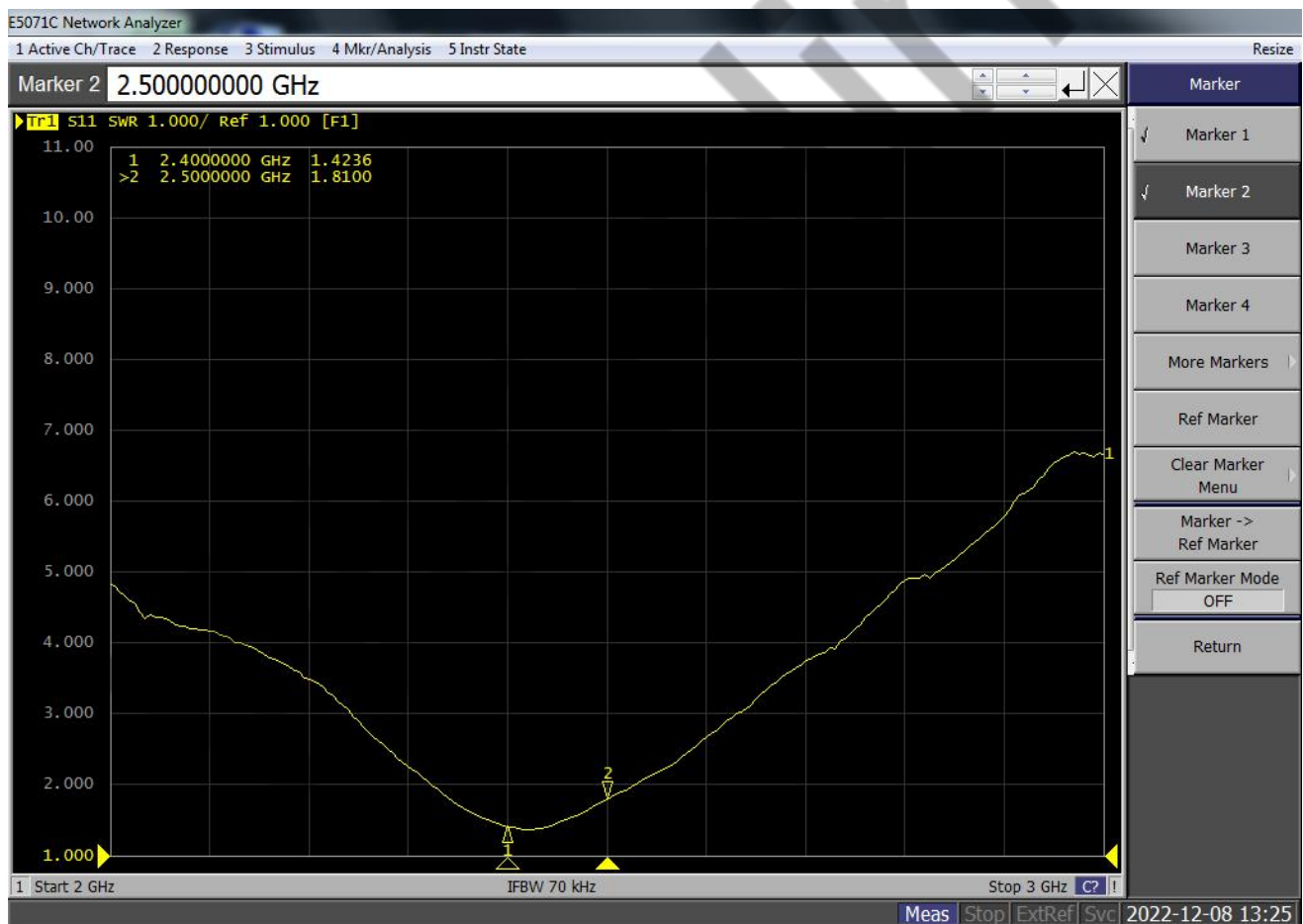
Connector Type SMA

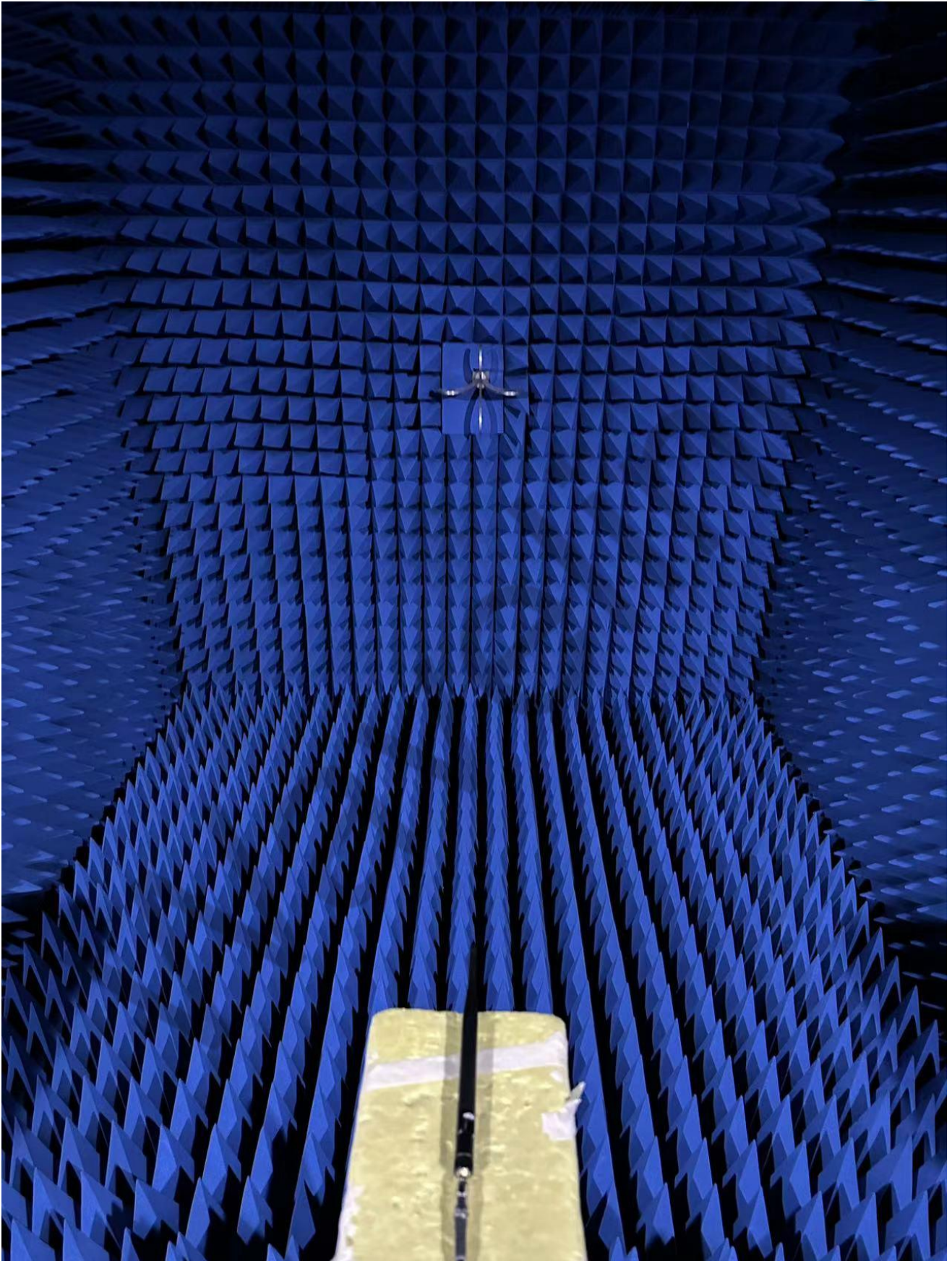
Working Temperature -40 °C to +85 °C

Radome Color Black

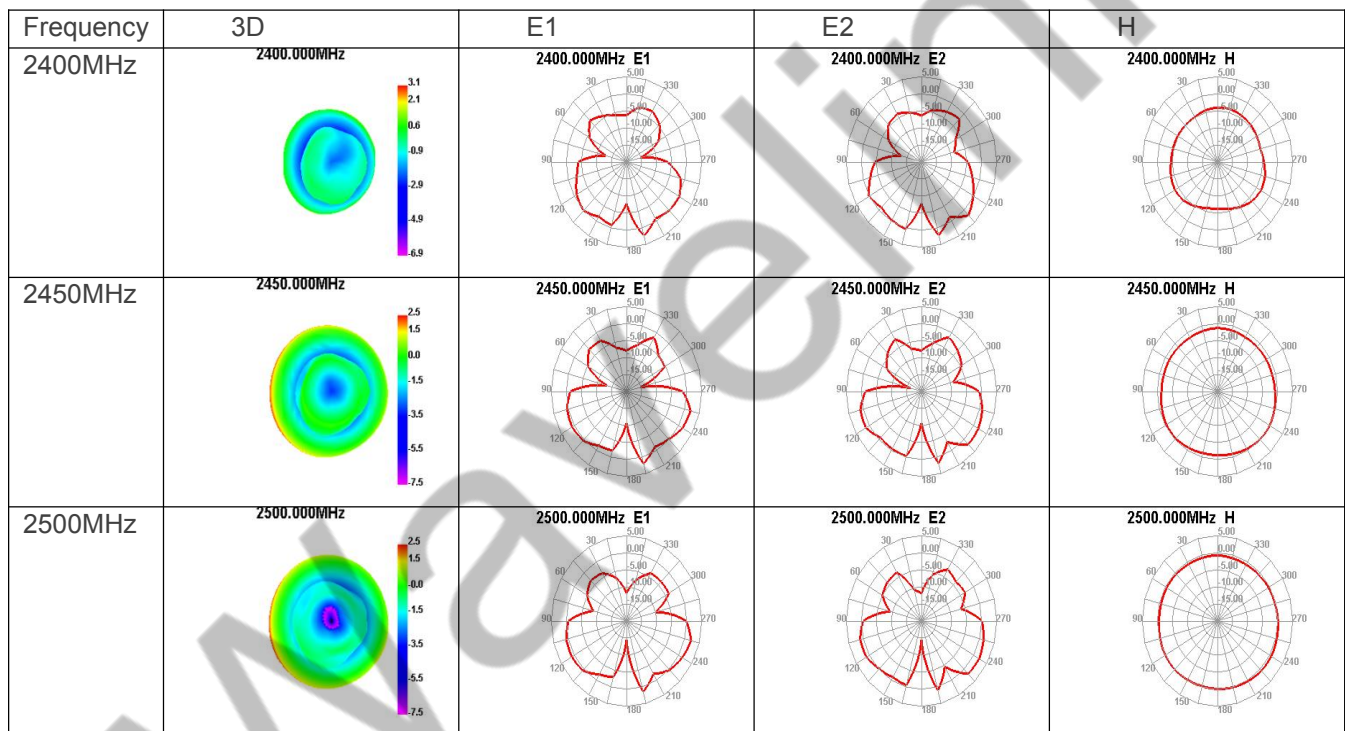
## 4 Overall Performance

KEYSIGHT VNA Network Analyzer E5071C 100 kHz – 8.5 GHz

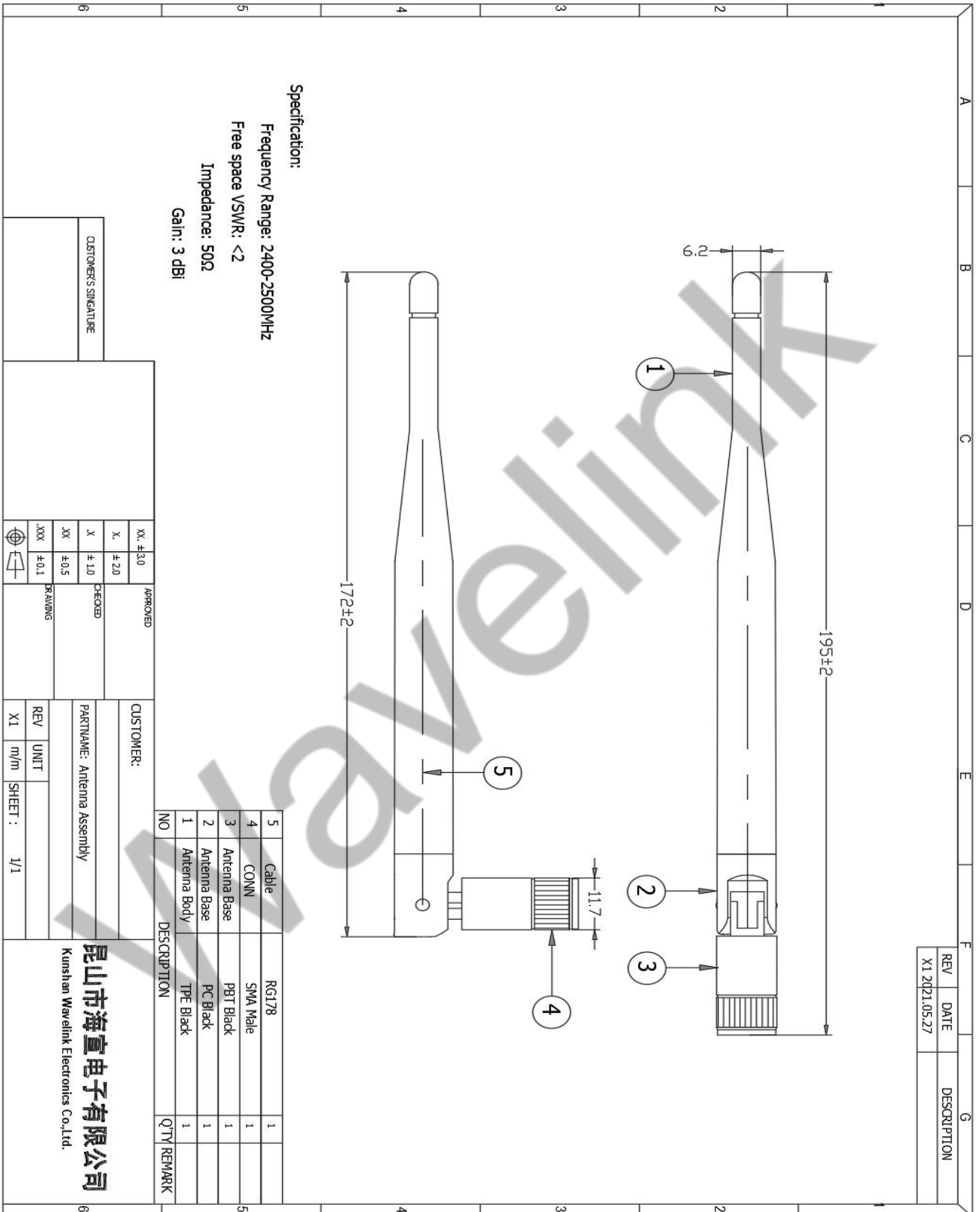




| Freq<br>(MHz) | Effi<br>(%) | Effi<br>(dB) | Gain<br>(dBi) | Gain<br>(dBd) | Max<br>(dB) | Min<br>(dB) | Directivity<br>(dBi) | AttH<br>(dB) | AttV<br>(dB) |
|---------------|-------------|--------------|---------------|---------------|-------------|-------------|----------------------|--------------|--------------|
| 2400          | 54.7        | -2.62        | 3.06          | 0.91          | 3.06        | -15.2       | 5.68                 | 46.16        | 46.3         |
| 2410          | 57.54       | -2.4         | 3.1           | 0.95          | 3.1         | -16.88      | 5.5                  | 46.26        | 46.45        |
| 2420          | 60.02       | -2.22        | 3.03          | 0.88          | 3.03        | -18.4       | 5.24                 | 46.15        | 46.32        |
| 2430          | 62.94       | -2.01        | 2.72          | 0.57          | 2.72        | -18.57      | 4.73                 | 46.31        | 46.44        |
| 2440          | 69.28       | -1.59        | 2.68          | 0.53          | 2.68        | -17.81      | 4.27                 | 46.52        | 46.56        |
| 2450          | 74.56       | -1.27        | 2.51          | 0.36          | 2.51        | -16.2       | 3.79                 | 46.77        | 46.93        |
| 2460          | 75.11       | -1.24        | 2.38          | 0.23          | 2.38        | -14.21      | 3.62                 | 46.82        | 46.89        |
| 2470          | 74.77       | -1.26        | 2.43          | 0.28          | 2.43        | -13.23      | 3.69                 | 46.54        | 46.65        |
| 2480          | 78.37       | -1.06        | 2.71          | 0.56          | 2.71        | -13.65      | 3.76                 | 47.04        | 47.22        |
| 2490          | 79.6        | -0.99        | 2.66          | 0.51          | 2.66        | -14         | 3.66                 | 46.75        | 46.82        |
| 2500          | 77.92       | -1.08        | 2.46          | 0.31          | 2.46        | -14.48      | 3.54                 | 46.91        | 47.08        |



## 5 Product Size



## 6 Others

| DESCRIPTION                   | SPECIFICATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Temperature /Humidity cycling | <p>1, The device under test is kept for 30 mins in an environment with a temperature of -40 °C.</p> <p>2, Kept for 4 Hours in an environment with a temperature of 8cthe conditions are stabilized at room temperature.</p> <p>3, Parts should meet RF spec before and after test.</p> <p>4, No cosmetic problem(No soldering problem;No adhesion problem of glue).</p>                                                                                                       |
| Temperature Shock             | <p>1, The device under test at -40 °C ⇌ 125 °C by 100 cycles, Dwell of 30 mins, transition time between Dwell 30 secs (~ 61 mins / cycle) and each item should be measured after exposing them in normal temperature and humidity for 24 h.</p> <p>2, Parts should meet RF spec before and after test.</p> <p>3, No cosmetic problem(No soldering problem; No adhesion problem of glue).</p>                                                                                  |
| High Temperature              | <p>1, Temperature:125°C, time:1008 hours</p> <p>2, There is no substantial obstruction to air flow across and around the samples, and the samples are not touching each other</p> <p>3, Parts should meet RF spec before and after test.</p> <p>4, No cosmetic problem(No soldering problem; No adhesion problem of glue).</p>                                                                                                                                                |
| Salt mist test                | <p>1, The device under test is exposed to a spray of a 5% (by volume) resolution of NACL in water for 2 hours. Thereafter the device under test is left for 1 week in room temperature at a relative humidity of 95%. The cycle is repeated until a total of 2 cycles have been completed. Here after the conditions are stabilized at room temperature.</p> <p>2, Parts should meet RF spec before and after test.</p> <p>3, No visible corrosion. Discoloration accept.</p> |