

# Acknowledgement

## SPECIFICATION FOR APPROVAL

CUSTOMER NAME: Shenzhen Kaadas Intelligent Technology co.,Ltd.

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PRODUCT NAME: 2.4G internal antenna L=100mm

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CUSTOMER P/N:

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Ren Feng P/N: U00T02S000N03175 REV: A

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|              | MANUFACTURER<br>SIGNATURE | CUSTOMER<br>SIGNATURE |
|--------------|---------------------------|-----------------------|
| CHECKED BY:  | Huang Lei                 |                       |
| AUDITOR BY:  | Huang Chao                |                       |
| APPROVED BY: | Yao Dingjun               |                       |
| DATE:        | 2023-04-13                |                       |

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**一、 Change of resume**

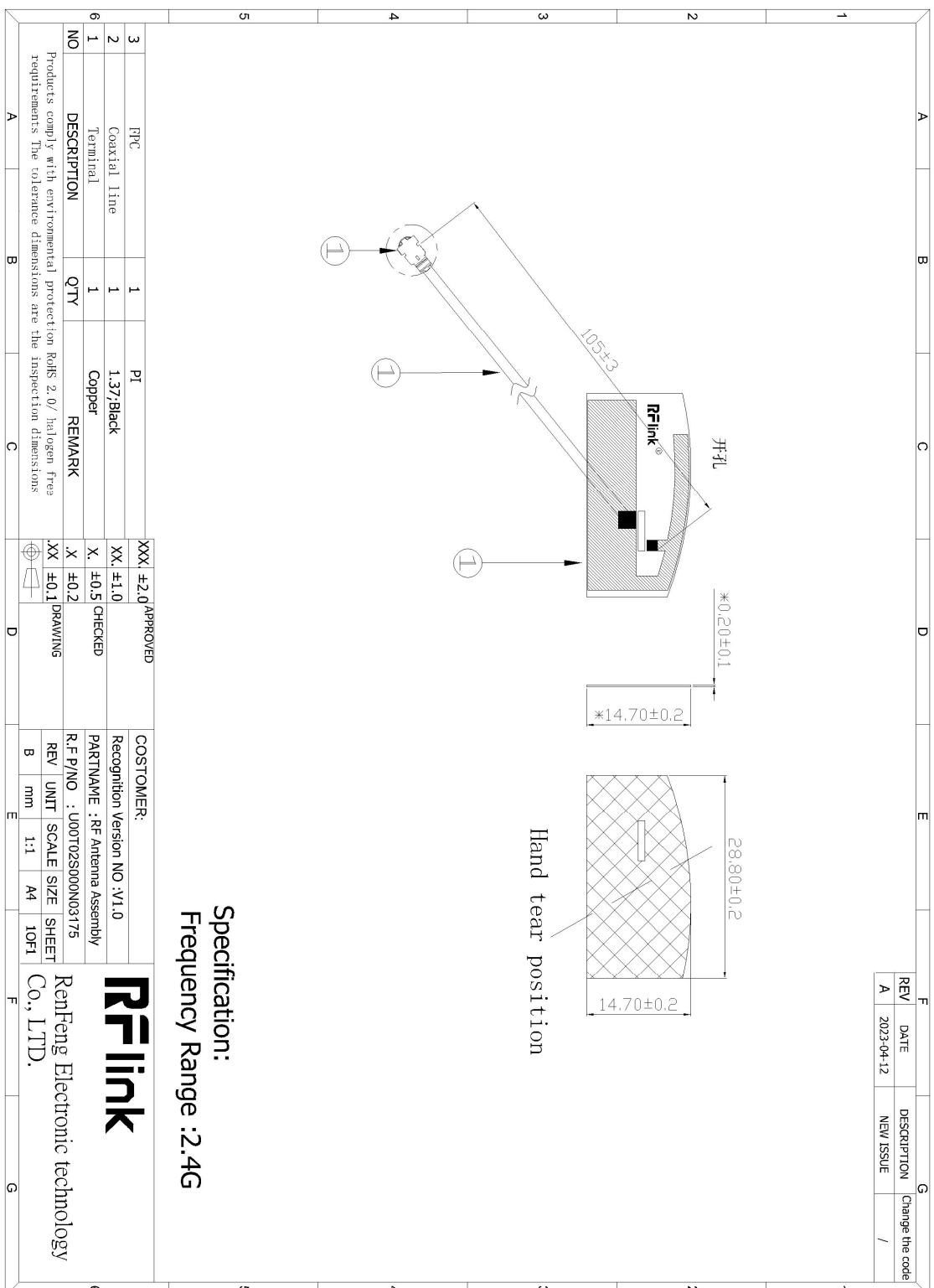
| REV | DATE       | Change record   |
|-----|------------|-----------------|
| A   | 2023-01-05 | Initial release |
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## 二、Specification sheet:

### Product main technical parameters

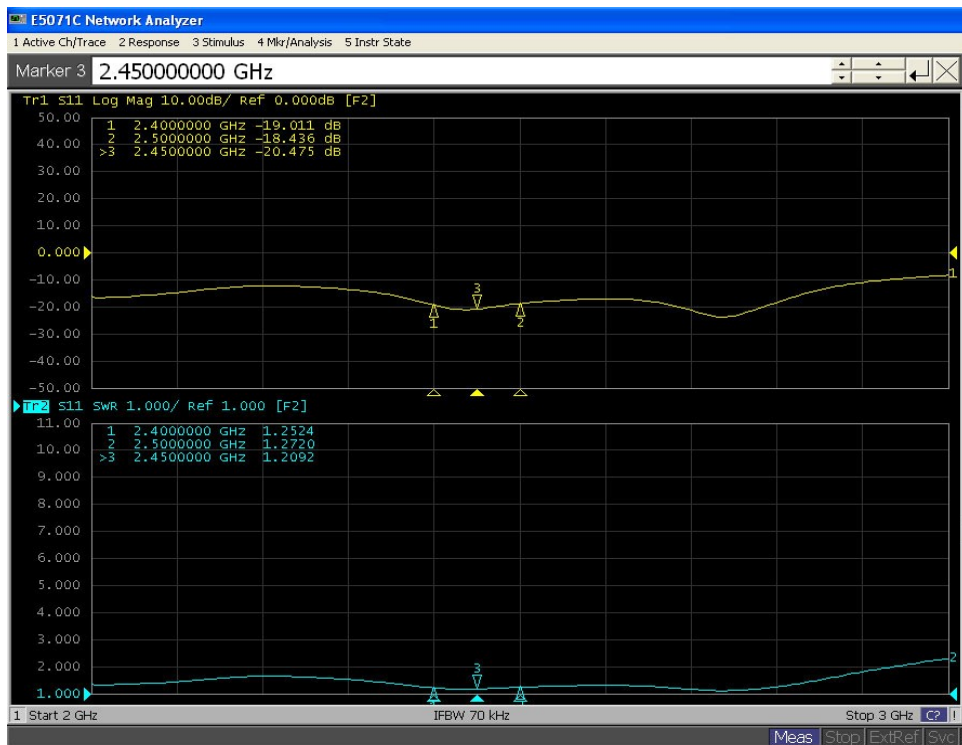
| Main technical specifications |                  | Main technical specifications |                  |
|-------------------------------|------------------|-------------------------------|------------------|
| Frequency Range<br>(MHZ)      | 2400-2500        | Frequency Range<br>(MHZ)      | 2400-2500        |
| Impedance( $\Omega$ )         | 50               | Impedance( $\Omega$ )         | 50               |
| Peak Gain(dBi)                | 4.47             | Peak Gain(dBi)                | 4.47             |
| VSWR                          | $\leq 2.0$       | VSWR                          | $\leq 2.0$       |
| Radiation                     | Omni-directional | Radiation                     | Omni-directional |
| Connector Type                | Terminal         | Connector Type                | Terminal         |
| Physical Properties           |                  | Physical Properties           |                  |
| Antenna cover                 | FPC              | Antenna cover                 | FPC              |
| Operating Temp                | -20°C~+70°C      | Operating Temp                | -20°C~+70°C      |
| Storage Temp                  | -20°C~+70°C      | Storage Temp                  | -20°C~+70°C      |

### 三、Finished drawing:

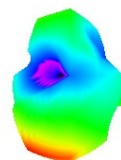


## 四、Test report

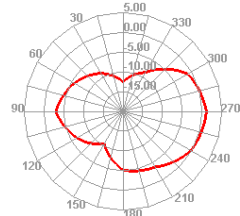
### 4. 1、Network division test diagram



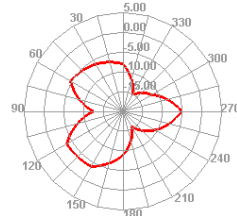
2400.000MHz



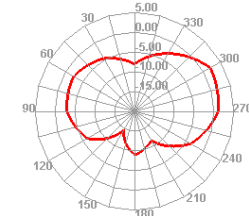
2400.000MHz H



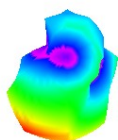
2400.000MHz E1



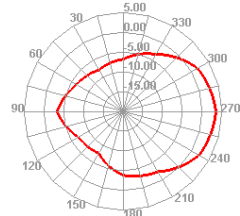
2400.000MHz E2



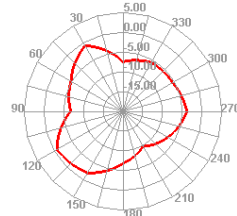
2450.000MHz



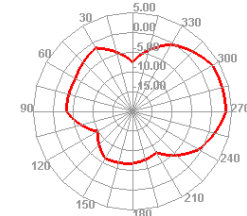
2450.000MHz H



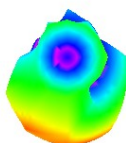
2450.000MHz E1



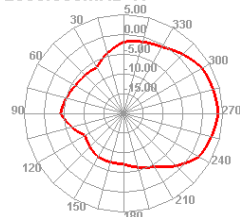
2450.000MHz E2



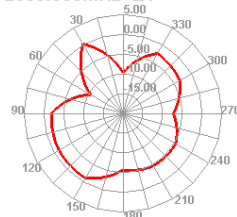
2500.000MHz



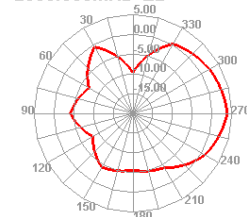
2500.000MHz H



2500.000MHz E1



2500.000MHz E2





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| Freq<br>(MHz) | Effi<br>(%) | Effi<br>(dB) |
|---------------|-------------|--------------|
| 2400          | 68.41       | 3.67         |
| 2410          | 71.48       | 3.36         |
| 2420          | 72.39       | 3.86         |
| 2430          | 70.14       | 4.27         |
| 2440          | 73.21       | 4.35         |
| 2450          | 71.99       | 4.47         |
| 2460          | 71.52       | 4.46         |
| 2470          | 72.13       | 4.21         |
| 2480          | 72.91       | 4.19         |
| 2490          | 73.41       | 3.87         |
| 2500          | 74.77       | 3.83         |



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## 五、ROHS/ Raw material list:

Meet RoHS requirements.

| Serial number | Name      | Material         | QTY | Unit | Material manufacturer | UL certification number |
|---------------|-----------|------------------|-----|------|-----------------------|-------------------------|
| 1             | FPC       | PI               | 1   | pc   | Junyi                 | /                       |
| 2             | Line 1.37 | Tin /FEP plating | 1   | pc   | Cable/China Unicom    | /                       |
| 3             | Terminal  | Copper           | 1   | pc   | Koxincheng/CAI Mei    | /                       |