



Address: No. 1, San keng Industrial Zone, Qing hu tou, Tang xia Town, Dongguan City; Tel :0769-38940168;  
Fax :0769-39010966; Website: <http://rflink.net.cn>

## SPECIFICATION FOR APPROVAL

CUSTOMER NAME: Skyworth

PRODUCT NAME: 2.4/5G internal antenna exposed L=42mm+ terminal

Ren Feng P/N: U00T02S000N03753 REV: B

|              | MANUFACTURER<br>SIGNATURE | MANUFACTURER<br>SIGNATURE |
|--------------|---------------------------|---------------------------|
| CHECKED BY:  | Huang Lei                 |                           |
| AUDITOR BY:  | Liu Xiaolin               |                           |
| APPROVED BY: | Yao Dingjun               |                           |
| DATE:        | 2023-11-02                |                           |



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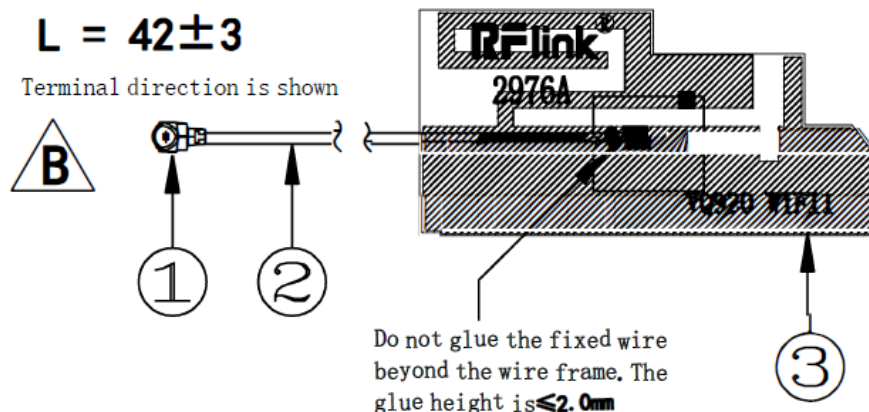


## 一、Change resume

| REV | DATE       | Change log                                 |
|-----|------------|--------------------------------------------|
| A   | 2023-07-13 | Initial release                            |
| B   | 2023-11-02 | Change board shape and line length exposed |
|     |            |                                            |

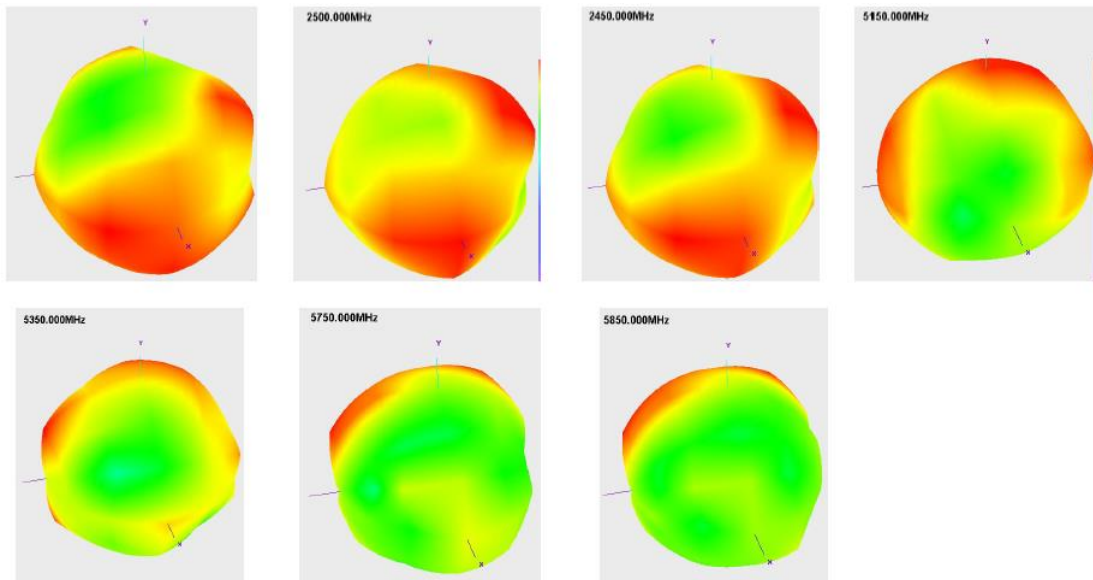
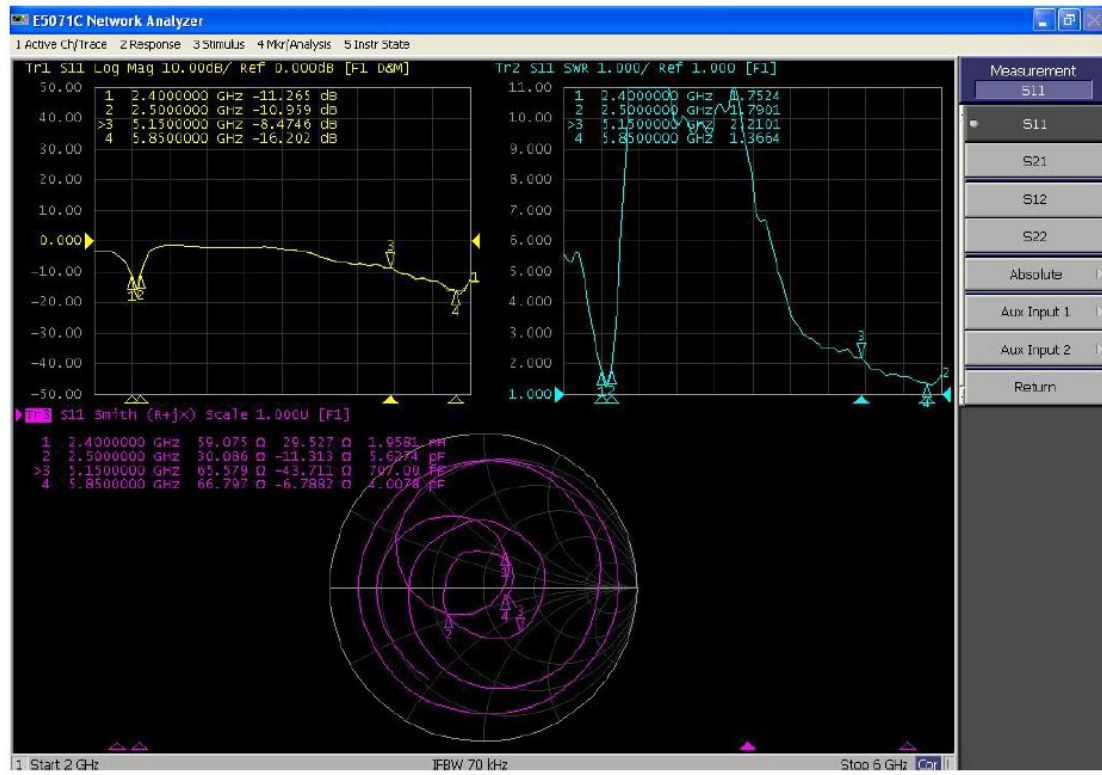
## 二、Change board shape and line length exposed

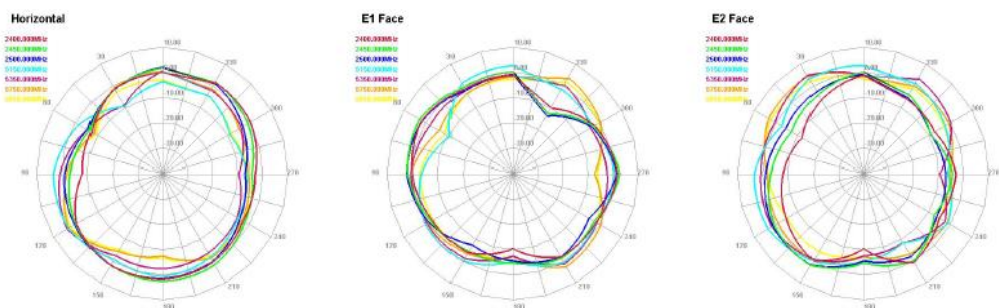
| Main technical specifications |                                   |
|-------------------------------|-----------------------------------|
| Frequency Range (MHZ)         | 2400-2500<br>5150-5850            |
| Impedance( $\Omega$ )         | 50                                |
| Peak Gain(dBi)                | $2.4G \leq 5.1$<br>$5G \leq 5.79$ |
| VSWR                          | $\leq 2.3$                        |
| Polarization                  | Cross                             |
| Radiation                     | Omni-directional                  |
| Connector Type                | MHF Plug                          |
| Physical Properties           |                                   |
| Antenna cover                 | FPC                               |
| Operating Temp                | -20°C - +70°C                     |
| Storage Temp                  | -20°C - +70°C                     |



|                                       |             |              |             |              |
|---------------------------------------|-------------|--------------|-------------|--------------|
| <b>COSTOMER:</b>                      |             |              |             |              |
| <b>PART NO :</b>                      |             |              |             |              |
| <b>PARTNAME : RF Antenna Assembly</b> |             |              |             |              |
| <b>R.F P/NO : U00T02S000N03753</b>    |             |              |             |              |
| <b>REV</b>                            | <b>UNIT</b> | <b>SCALE</b> | <b>SIZE</b> | <b>SHEET</b> |
| <b>B</b>                              | <b>mm</b>   | <b>1:1</b>   | <b>A4</b>   | <b>1OF1</b>  |

### 三、Test report





| Freq<br>(MHz) | Effi<br>(%) | Gain<br>(dBi) | Freq<br>(MHz) | Effi<br>(%) | Gain<br>(dBi) |
|---------------|-------------|---------------|---------------|-------------|---------------|
| 5150          | 49.22       | 4.08          | 2400          | 45.64       | 3.97          |
| 5200          | 42.92       | 3.57          | 2410          | 55.82       | 4.53          |
| 5250          | 44.61       | 3.99          | 2420          | 54.89       | 4.63          |
| 5300          | 40.76       | 3.91          | 2430          | 58.74       | 4.99          |
| 5350          | 49.03       | 4.63          | 2440          | 59.71       | 5.1           |
| 5400          | 50.3        | 5.06          | 2450          | 53.28       | 4.73          |
| 5450          | 55.26       | 5.22          | 2460          | 49.45       | 4.46          |
| 5500          | 57.18       | 5.43          | 2470          | 50.58       | 4.6           |
| 5550          | 64.31       | 5.01          | 2480          | 45.72       | 4.36          |
| 5600          | 63.34       | 5.18          | 2490          | 47.24       | 4.57          |
| 5650          | 54.82       | 5.69          | 2500          | 42.3        | 4.31          |
| 5700          | 60.29       | 5.79          |               |             |               |
| 5750          | 62.55       | 4.94          |               |             |               |
| 5800          | 59.89       | 4.93          |               |             |               |
| 5850          | 42.17       | 3.9           |               |             |               |



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#### 四、Raw Materials List

| Serial number | Name     | Material        | QTY | Unit | Manufacturer         | Remark |
|---------------|----------|-----------------|-----|------|----------------------|--------|
| 1             | FPC      | PI              | 1   | PC   | Junyi                |        |
| 2             | Terminal | Phosphor bronze | 1   | PC   | Kexincheng/CAI Mei   |        |
| 3             | Cable    | 0.81 silver tin | 1   | PC   | ChinaOceanconnection |        |