

# Acknowledgement

## SPECIFICATION FOR APPROVAL

CUSTOMER NAME: Guoguang Electric Company Limited

PRODUCT NAME: 2.4G BT internal antenna L=345mm

CUSTOMER P/N: EAN00318

Ren Feng P/N: U00T02S000N02790 REV: A

|              | MANUFACTURER<br>SIGNATURE | CUSTOMER<br>SIGNATURE |
|--------------|---------------------------|-----------------------|
| CHECKED BY:  | Huang Lei                 |                       |
| AUDITOR BY:  | Liu Xiaolin               |                       |
| APPROVED BY: | Yao Dingjun               |                       |
| DATE:        | 2023-01-12                |                       |

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一、 Change your resume

| REV | DATE       | Change record   |
|-----|------------|-----------------|
| A   | 2023-01-12 | Initial release |
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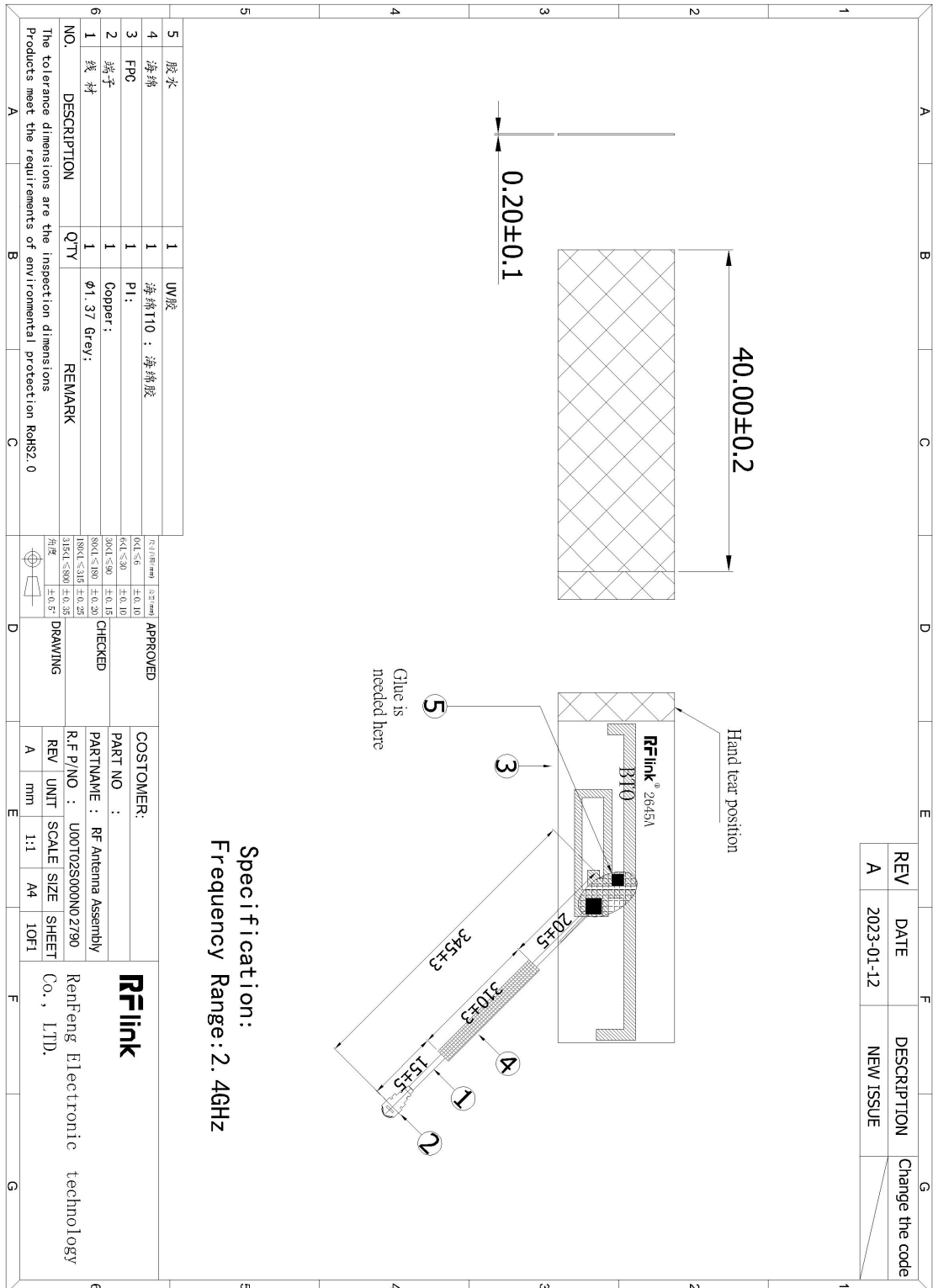
## 二、 Specification sheet:

### Product main technical parameters

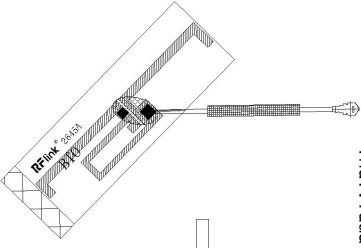
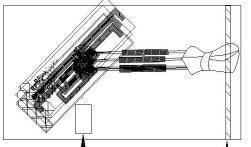
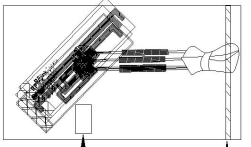
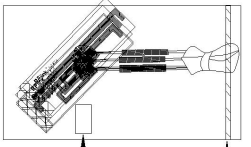
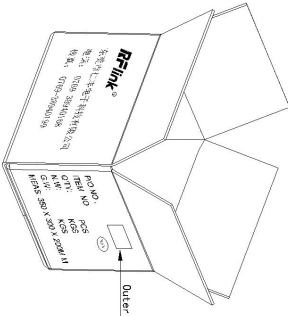
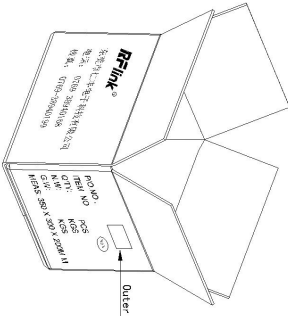
| Main technical specifications |                  | Main technical specifications |                  |
|-------------------------------|------------------|-------------------------------|------------------|
| Frequency Range<br>(MHZ)      | 2400-2500        | Frequency Range<br>(MHZ)      | 2400-2500        |
| Impedance( $\Omega$ )         | 50               | Impedance( $\Omega$ )         | 50               |
| Peak Gain(dBi)                | 3.38             | Peak Gain(dBi)                | 3.38             |
| VSWR                          | $\leq 2.0$       | VSWR                          | $\leq 2.0$       |
| Radiation                     | Omni-directional | Radiation                     | Omni-directional |
| Connector Type                | I-PEX            | Connector Type                | I-PEX            |
| Physical Properties           |                  | Physical Properties           |                  |
| Antenna cover                 | FPC              | Antenna cover                 | FPC              |
| Operating Temp                | -20℃~+70℃        | Operating Temp                | -20℃~+70℃        |
| Storage Temp                  | -20℃~+70℃        | Storage Temp                  | -20℃~+70℃        |

### 三、Finished product drawing & packing drawing:

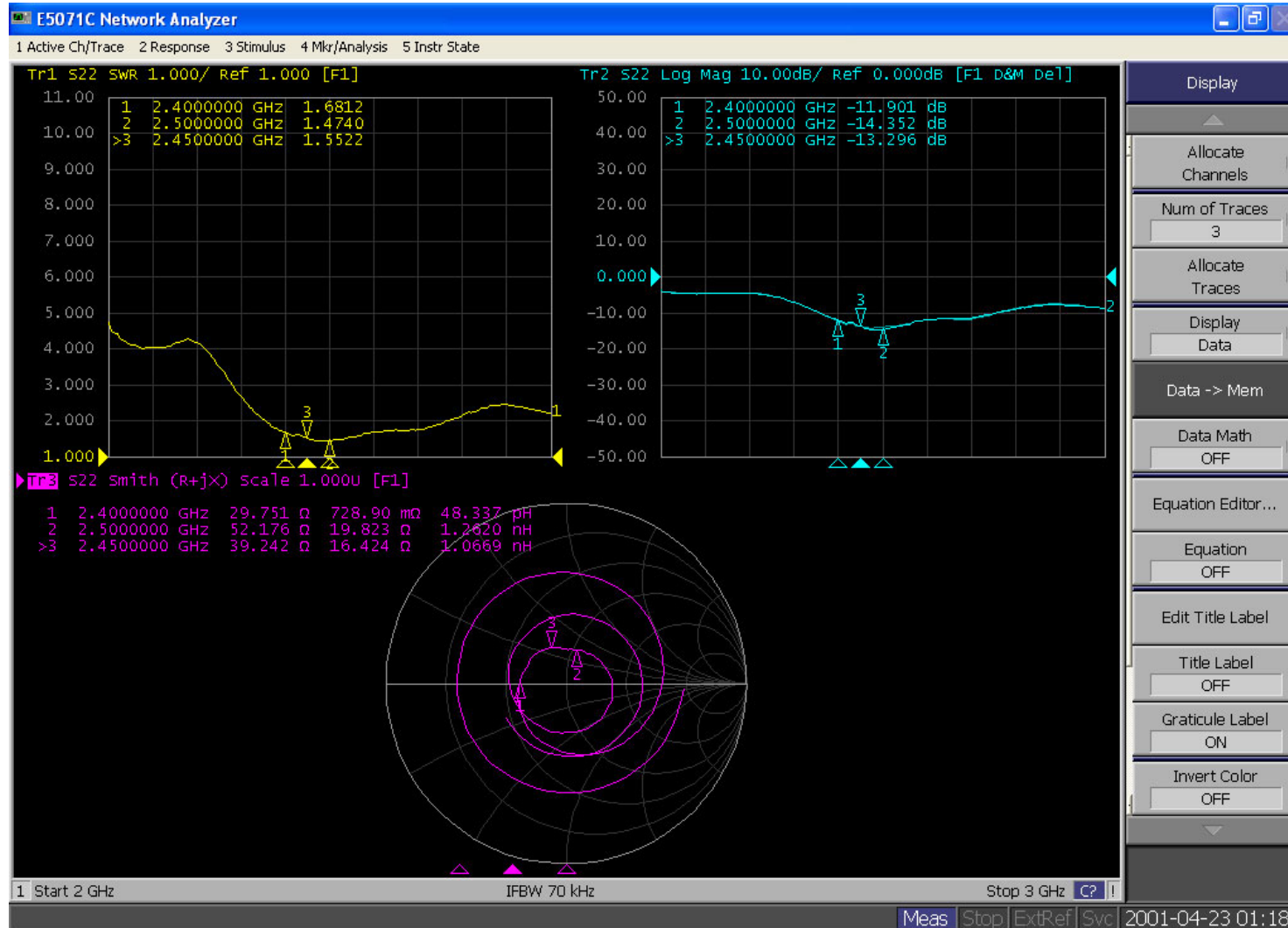
#### 2. 1、Antenna size diagram



## 2.2、Packing specification

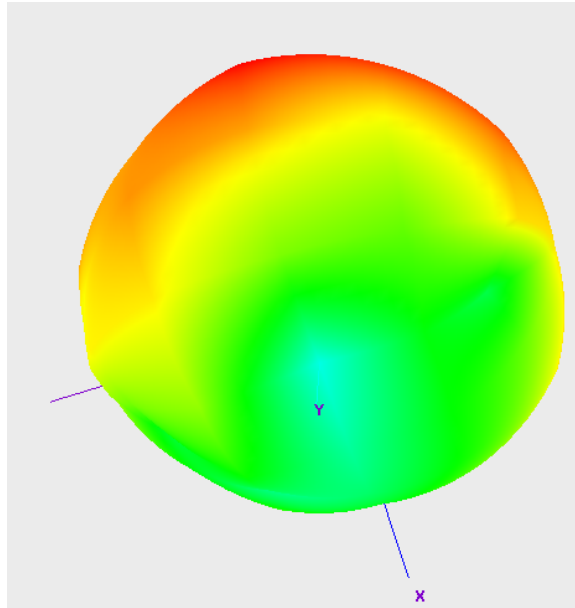
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  | B |  | C |  | D |  | E                                                                                             |  | F |  | G |  |  |  |  |  |  |  |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---|--|---|--|---|--|-----------------------------------------------------------------------------------------------|--|---|--|---|--|--|--|--|--|--|--|--|--|
| Product packaging                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |   |  |   |  |   |  | <div> <div>REV</div> <div>DATE</div> <div>DESCRIPTION</div> <div>Change the code</div> </div> |  |   |  |   |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |   |  |   |  |   |  | <div> <div>A</div> <div>2023-01-12</div> <div>NEW ISSUE</div> </div>                          |  |   |  |   |  |  |  |  |  |  |  |  |  |
| <div>Individual product</div> <div>  </div> <div> <div>Packing instructions of inner bag:</div> <div> 1. Each bag contains 100pcs of products.<br/> 2. Use a pearl-cotton bag or rubber band to fix the wire<br/> 3. Each bag should be labeled accordingly </div> </div> <div> <div>Inner bag packing</div> <div>  </div> </div> <div> <div>PE bag</div> <div>  </div> </div> <div> <div>Inner pocket tag</div> <div>  </div> </div> |  |   |  |   |  |   |  |                                                                                               |  |   |  |   |  |  |  |  |  |  |  |  |  |
| <div>Packing instructions for the outer box</div> <div> 1. RoHS label and 1pc label should be affixed to the outer box.<br/> 2. Each box contains 40 bags /4000pcs of products. </div> <div> <div>packing outer box</div> <div>  </div> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |   |  |   |  |   |  |                                                                                               |  |   |  |   |  |  |  |  |  |  |  |  |  |
| <div>Products meet the requirements of environmental protection RoHS2.0</div> <div> <div>尺寸范围 (mm)</div> <div>公差 (mm)</div> <div>APPROVED</div> <div>CHECKED</div> <div>DRAWING</div> <div>尺寸范围 (mm)</div> <div>公差 (mm)</div> <div>APPROVED</div> <div>CHECKED</div> <div>DRAWING</div> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |   |  |   |  |   |  |                                                                                               |  |   |  |   |  |  |  |  |  |  |  |  |  |
| <div>CUSTOMER:</div> <div> <div>PART NO :</div> <div>PARTNAME :</div> <div>R.F P/NO : U00T02S0000D2 790</div> <div>REV</div> <div>UNIT</div> <div>SCALE</div> <div>SIZE</div> <div>SHEET</div> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |   |  |   |  |   |  |                                                                                               |  |   |  |   |  |  |  |  |  |  |  |  |  |
| <div>RF link</div> <div>RenFeng Electronic technology Co., LTD.</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |   |  |   |  |   |  |                                                                                               |  |   |  |   |  |  |  |  |  |  |  |  |  |
| <div>Outer box label</div> <div>  </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |   |  |   |  |   |  |                                                                                               |  |   |  |   |  |  |  |  |  |  |  |  |  |

## Measurement data--Return Loss -BT-2.4G

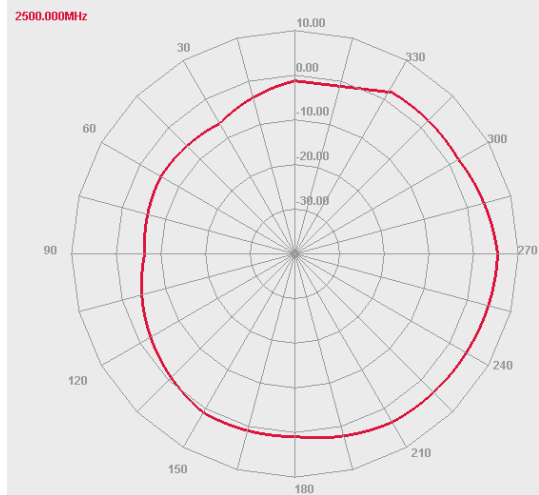




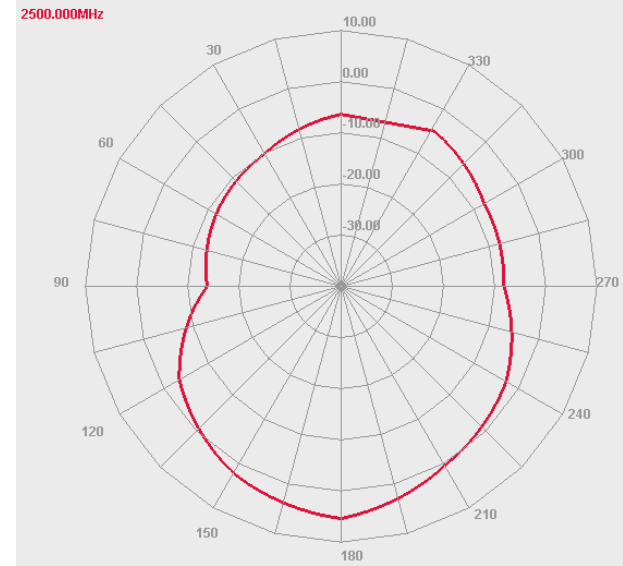
BT- Maximum gain point 2500MHZ



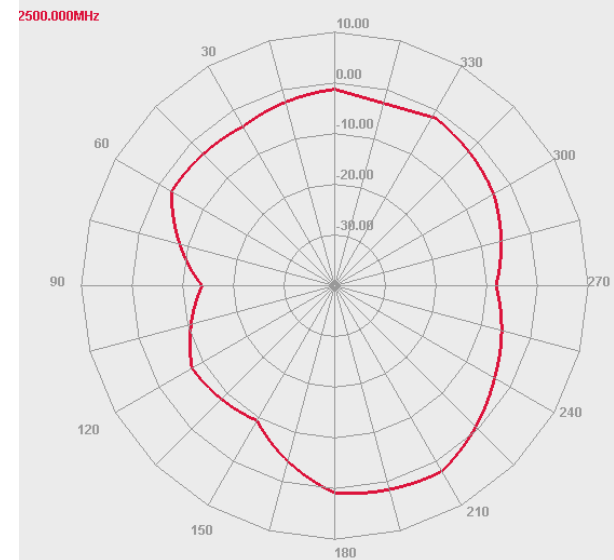
E1 Face



Horizontal



E2 Face





BT-2.4G

| Freq<br>(MHz) | Effi<br>(%) | Gain<br>(dBi) |
|---------------|-------------|---------------|
| 2400          | 71.99       | 2.89          |
| 2410          | 73.31       | 2.84          |
| 2420          | 80.08       | 2.58          |
| 2430          | 81.87       | 2.99          |
| 2440          | 83.56       | 3.22          |
| 2450          | 83.57       | 3.23          |
| 2460          | 83.53       | 3.21          |
| 2470          | 83.12       | 3.23          |
| 2480          | 83.25       | 3.31          |
| 2490          | 82.08       | 3.37          |
| 2500          | 79.46       | 3.38          |

六、ROHS/ Raw material list:

Meet RoHS requirements。

| Serial number | Name              | Material        | QTY | Unit | Supplier           | UL certification number |
|---------------|-------------------|-----------------|-----|------|--------------------|-------------------------|
| 1             | FPC               | PI              | 1   | pc   | Junyi              | /                       |
| 2             | 1.37 Coaxial line | Tinning/FEP     | 1   | pc   | China Ocean Unicom | /                       |
| 3             | Terminal          | Phosphor bronze | 1   | pc   | Kexincheng         | /                       |
| 4             | Linear sponge     | Sponge T10      | 1   | pc   | Pengsheng          | /                       |