

SPECIFICATION



ShenZhen TianDa Communication CO., LTD

BAP01 antenna

Product Certification

| | | | |
|-------------------------|---------------|-------------------|-----------------|
| Customers | Five grams | Frequency bands | Sub 1G - 915MHz |
| The name of the project | BAP01 | Edition | A |
| Item part number | WK-BA-P0-P1-A | Color | Color |
| RF design | Huang Zhilin | Structural design | Zhou Luhong |
| Date | 2024.04.11 | | |

The Client acknowledges that:

Whether the assembly meets your company's requirements: OK NG

Shenzhen Tianda Communication Co.,
Ltd

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Shenzhen

ShenZhen TianDa Communication CO., LTD.

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Table of Contents

| | |
|--|---|
| 1. WIFI antenna | 3 |
| 1. Specifications..... | 3 |
| 1.1.Electrical specifications..... | 3 |
| 1.1.1.Electrical performance index..... | 3 |
| 1.1.2. Matching circuit diagram..... | 3 |
| 1.2. Test | 4 |
| 1.2.1. Passive test data | 4 |
| 1.2.1.1, antenna standing wave | 4 |
| 1.2.1.2. Antenna gain, efficiency, | 5 |
| 1.2.1.3. Antenna pattern..... | 6 |
| 1.2.2. Active test data of the whole machine | 8 |
| 二、 the structural specifications..... | 9 |
| 2.1. Antenna composition..... | 9 |
| 2. Drawing | 9 |
| 三. Conclusions..... | 9 |
| 四、 the packaging | 9 |

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1. 915MHz antenna

1. Specifications

This acknowledgment provides the test status of the electrical and structural performance parameters of the 915MHz antenna of the BAP01 project. The picture below is a picture of the 915MHz antenna designed by Tianda.



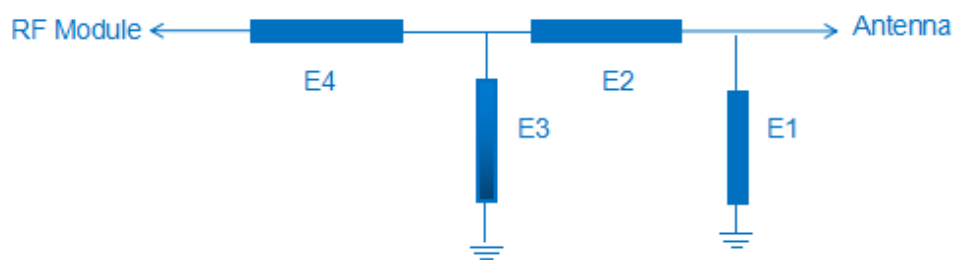
1.1、 Electrical specifications

1.1.1. Electrical performance indicators

The operating frequency band of the antenna of the project is 900-930MHz, and the following are the electrical performance indicators of the antenna designed and trial-produced by Investec.

| WIFI | | |
|--------|-----------------|------|
| Band | Frequency (MHz) | VSWR |
| 915MHz | 900-930 | ≤2.0 |

1.1.2. Matching circuit diagram



Confidentiality requirements

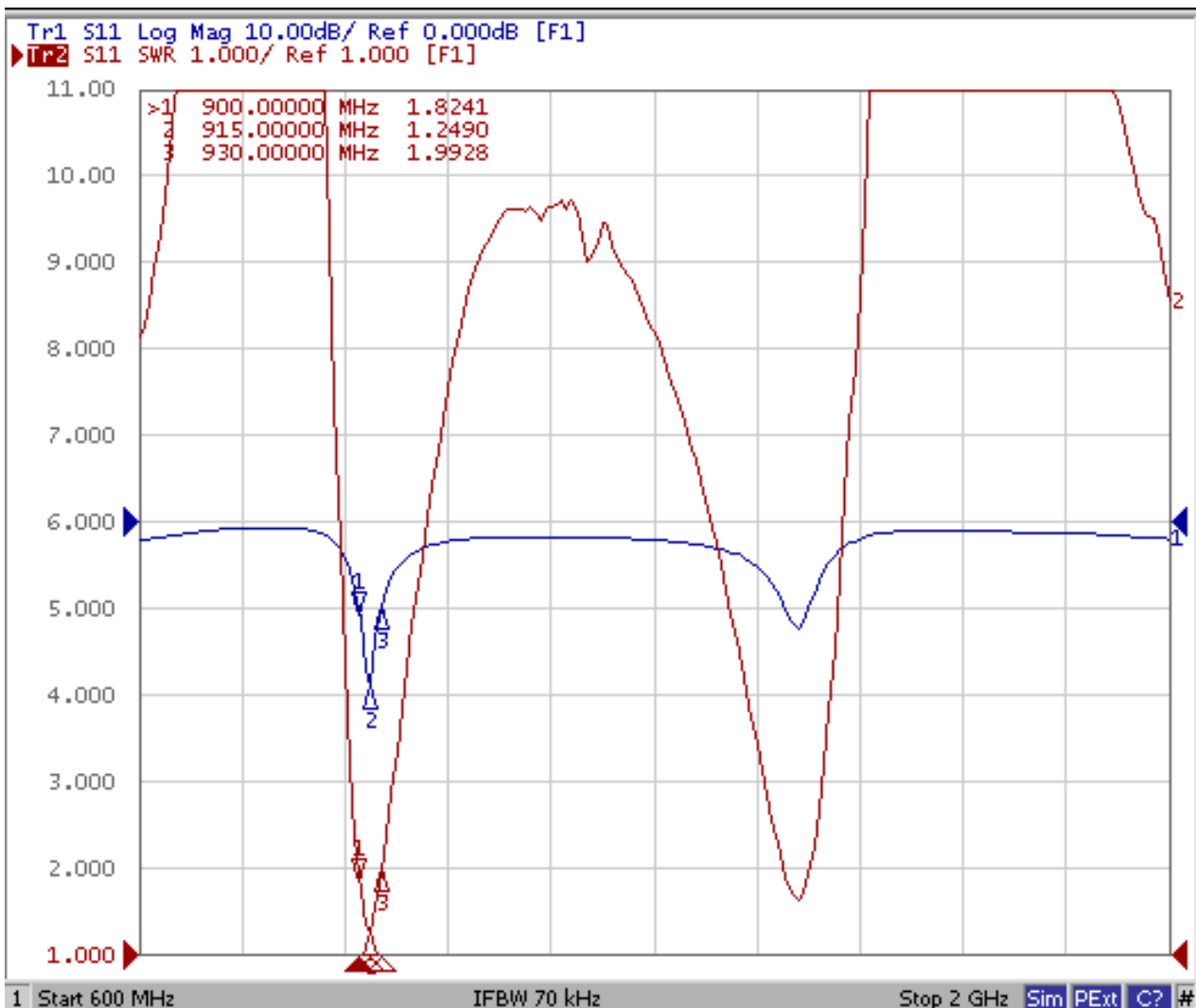
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The match has not changed.

1.2、 Test

1.2.1. Passive testing

1.2.1.1. Antenna Standing Wave Test (VSWR).



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1.2.1.2. Antenna gain and efficiency

| Passive Test For WiFi Antenna(2.4G) | | | |
|-------------------------------------|-------------|--------------|---------------|
| Freq (MHz) | Effi (%) | Effi (dB) | Gain (dBi) |
| 900 | 42.51 | -3.67 | -1.46 |
| 905 | 42.42 | -3.71 | -1.38 |
| 910 | 41.37 | -3.83 | -1.65 |
| 915 | 41.22 | -3.85 | -1.51 |
| 920 | 38.72 | -4.13 | -1.39 |
| 925 | 35.83 | -4.11 | -1.59 |
| 930 | 35.67 | -4.53 | -1.59 |

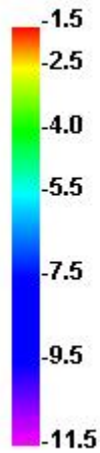
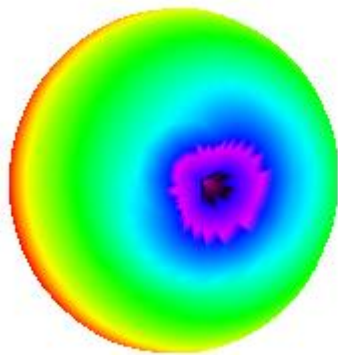
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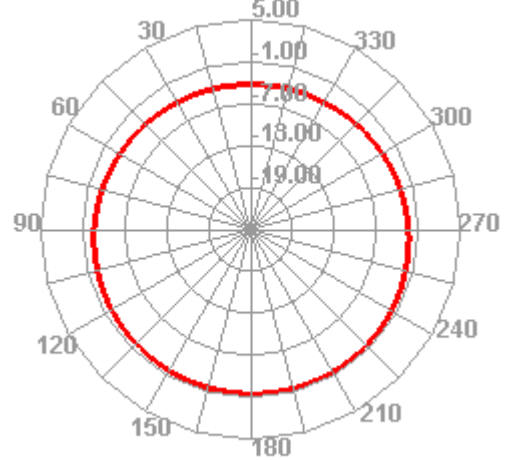
1.2.1.3. Antenna pattern

Radiation Pattern For WiFi Antenna(900MHz)

900.000MHz

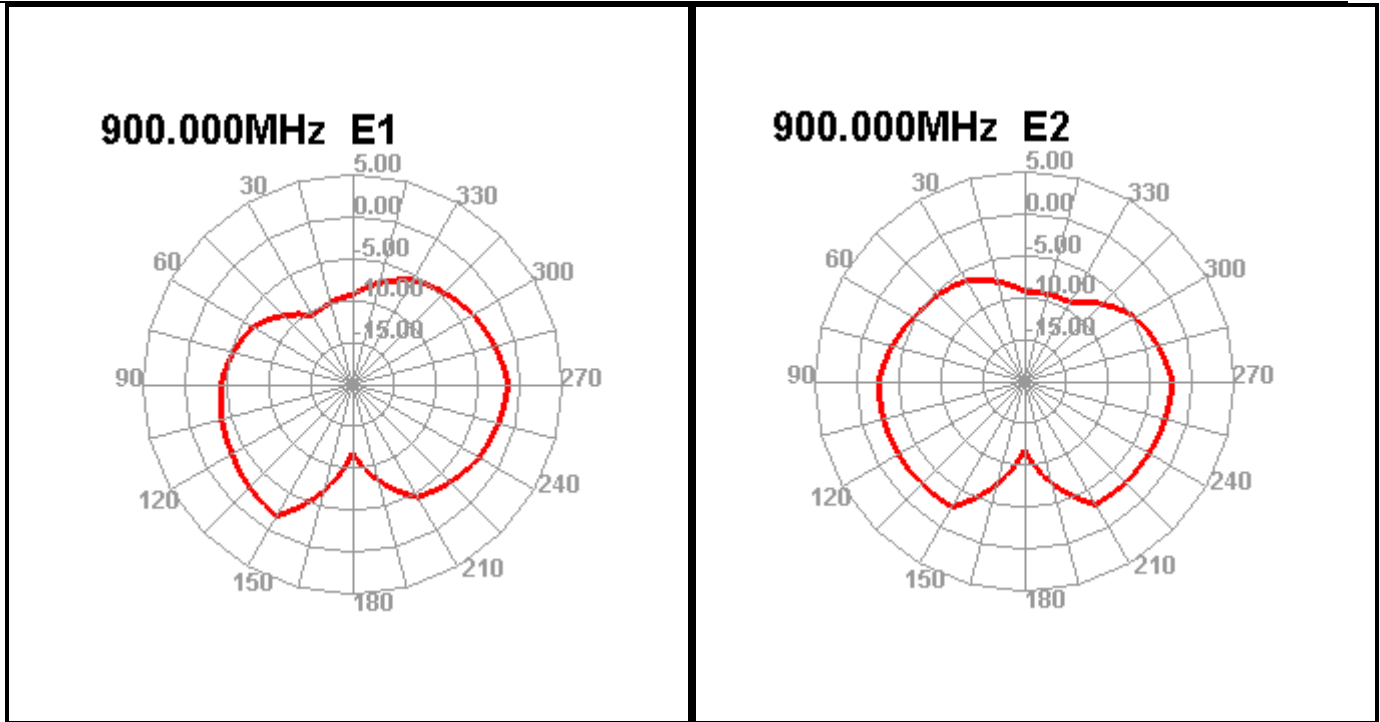


900.000MHz H

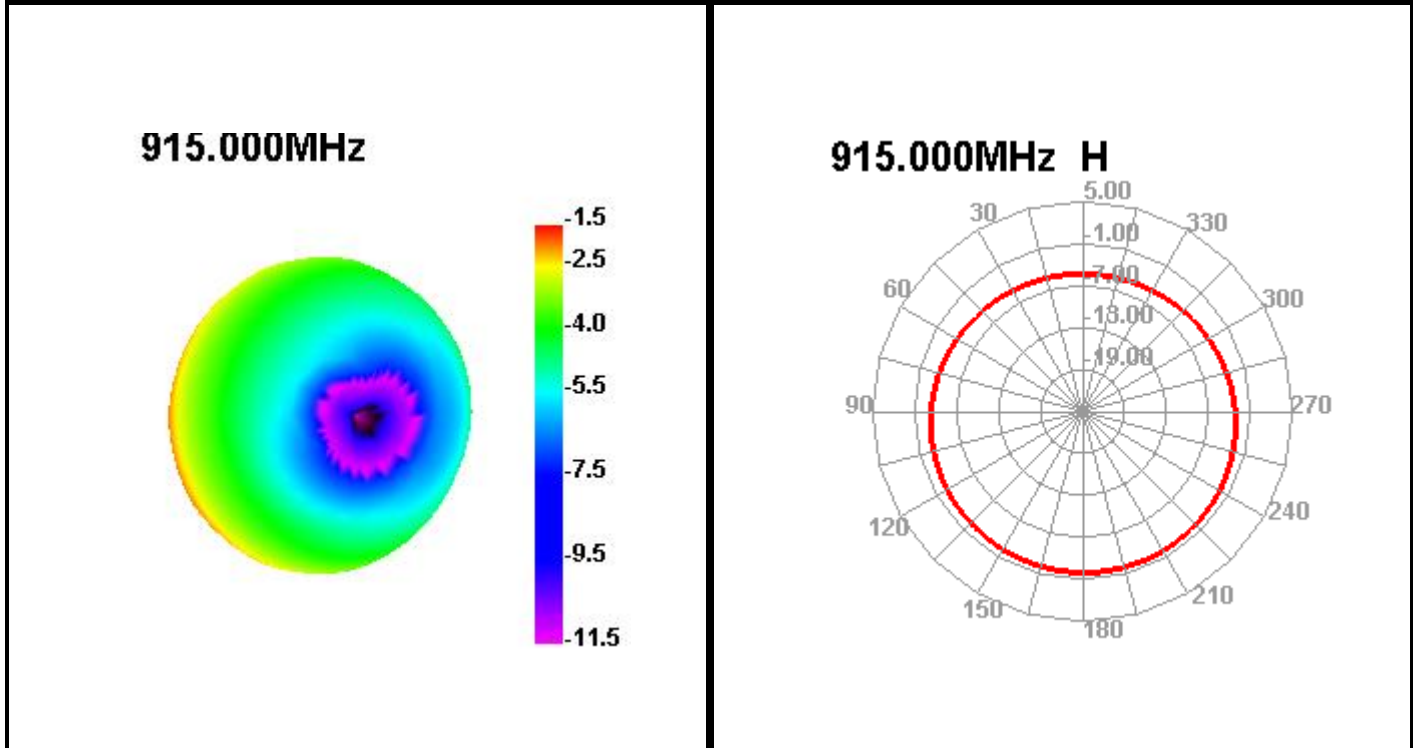


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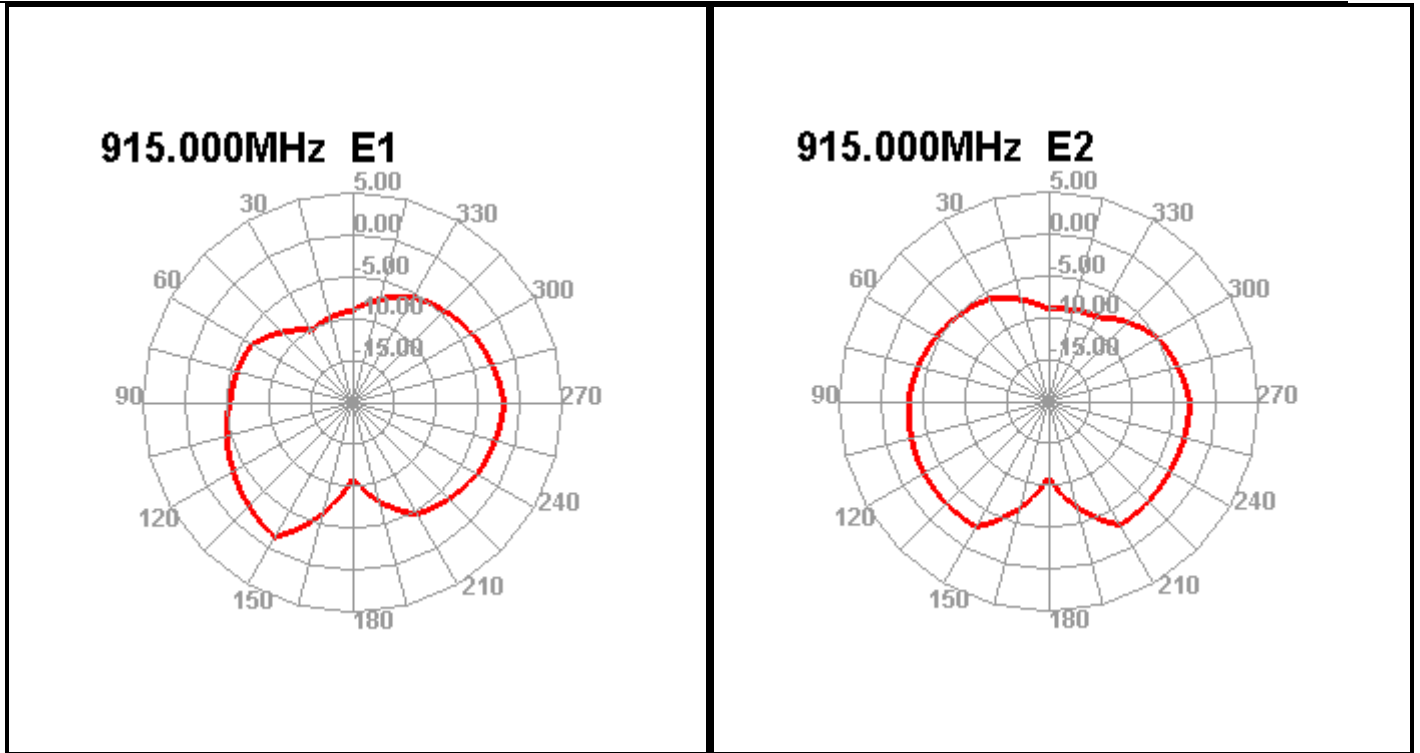


Radiation Pattern For WiFi Antenna(915MHz)

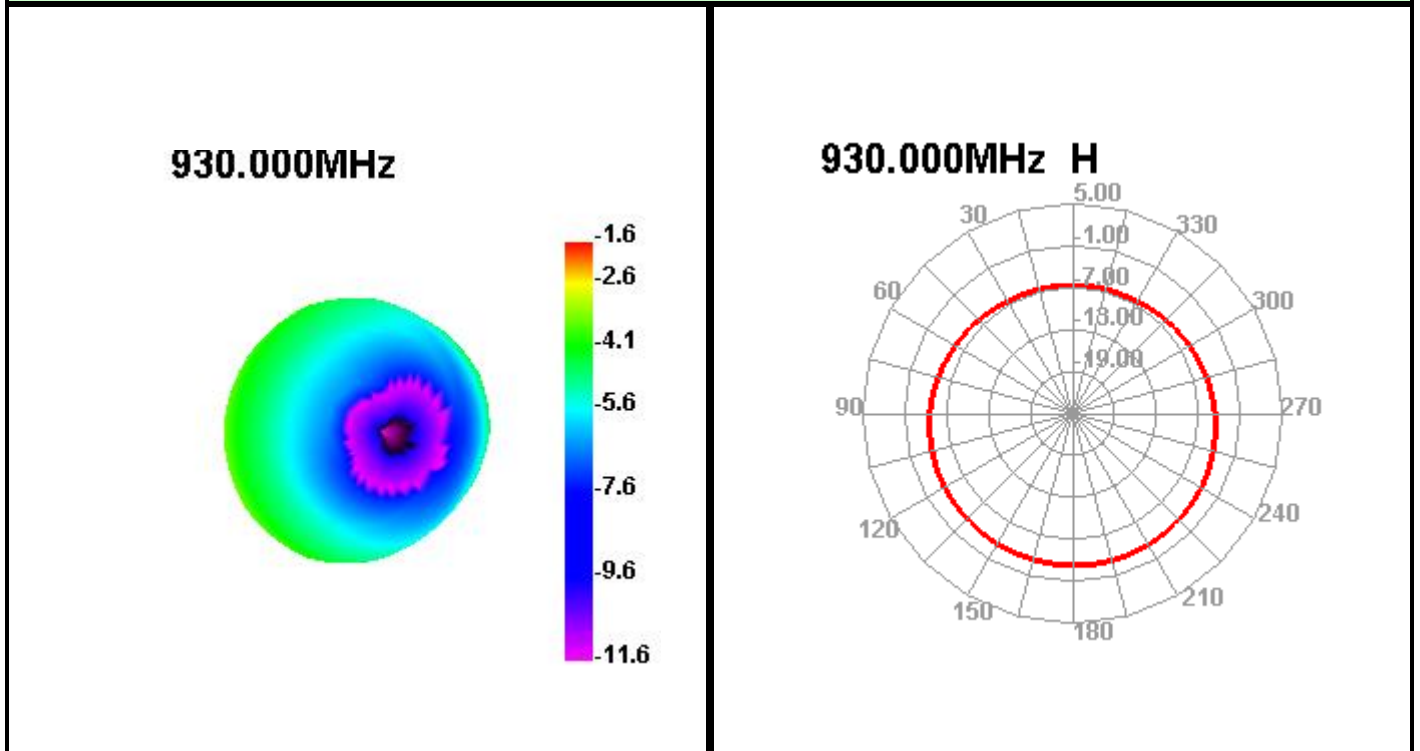


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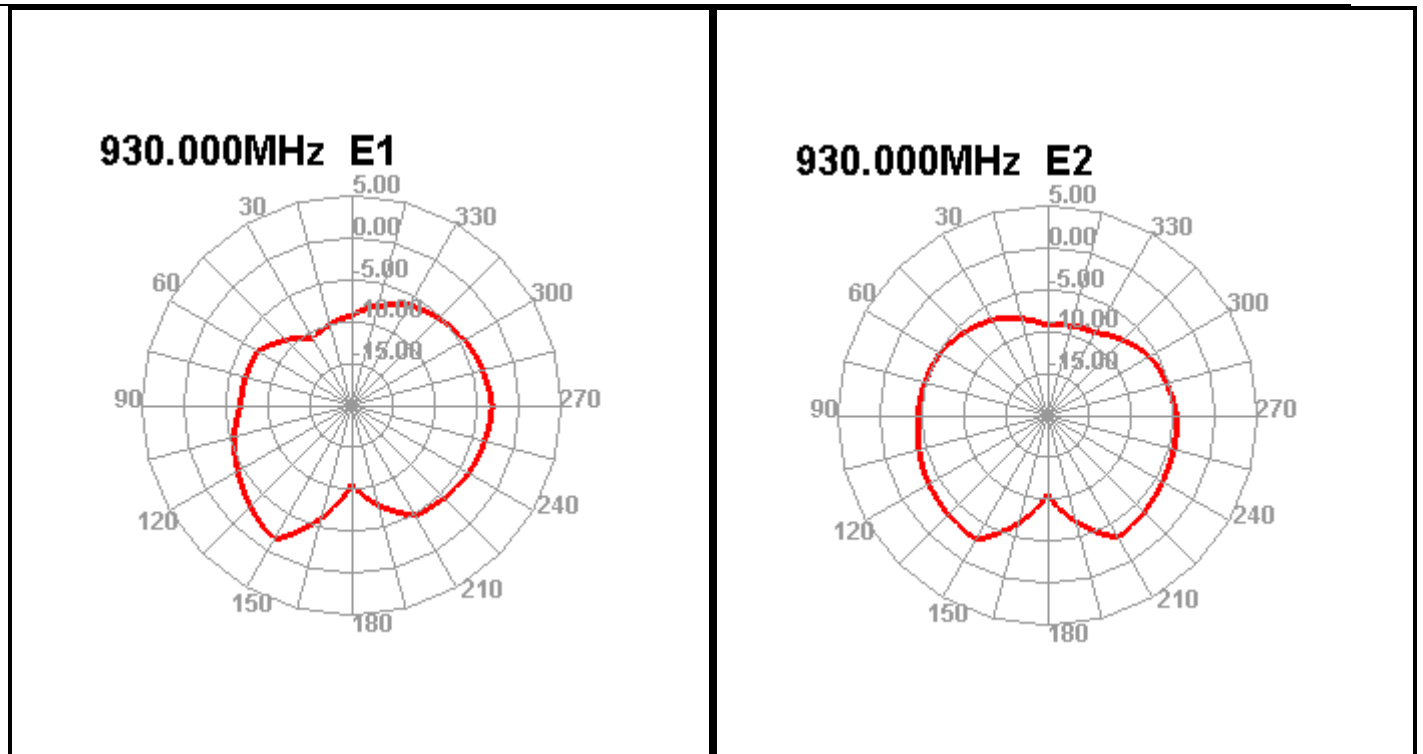


Radiation Pattern For WiFi Antenna(930MHz)



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2. Structural specifications

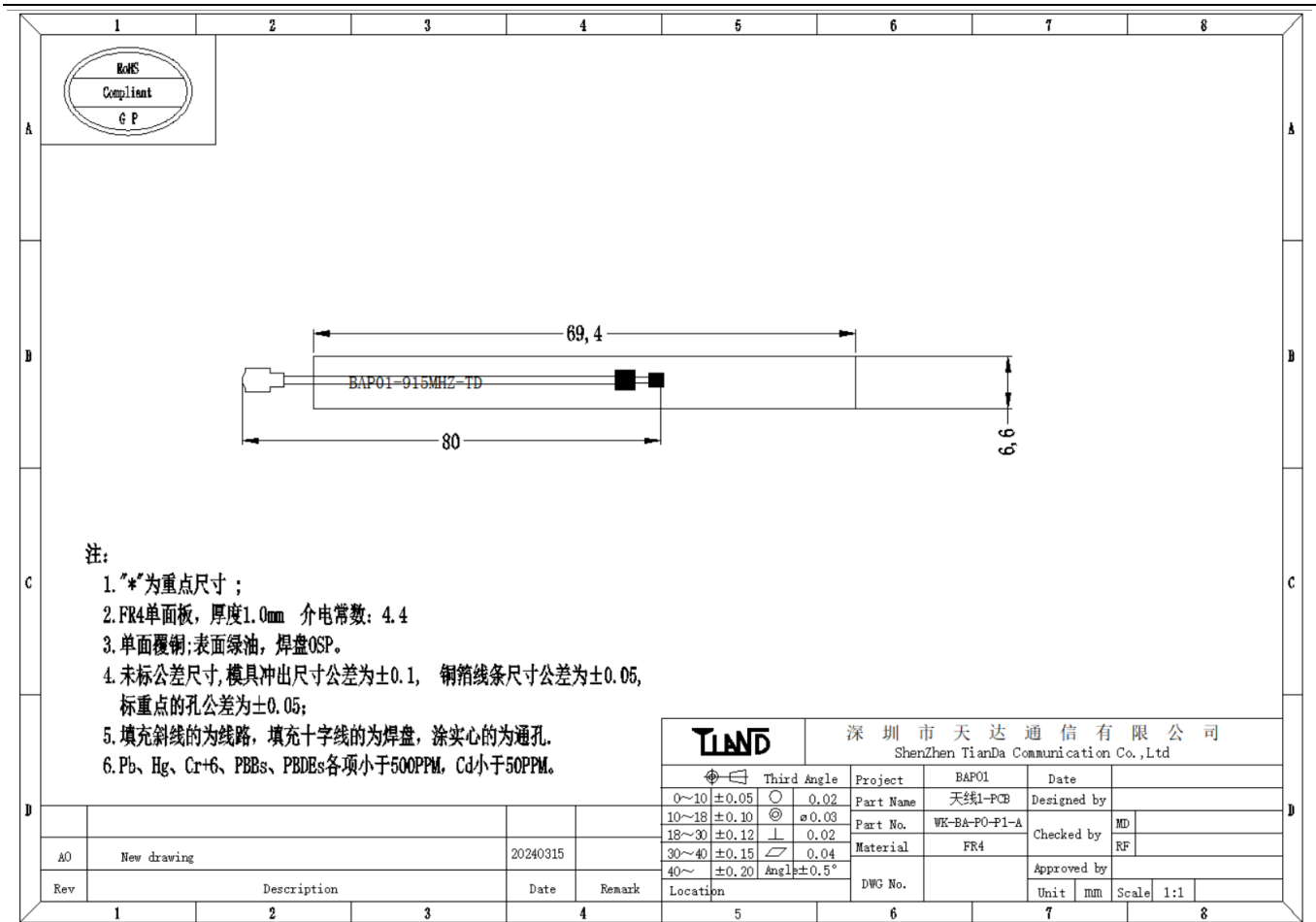
2.1. Antenna composition

The 915MHZ antenna is mainly composed of Cable line + PCB.

2.2. Engineering drawings

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III. Conclusion

This antenna is designed on the prototype provided by the customer, and the electrical parameters and structural dimensions have met the technical requirements, please confirm!

Fourth, packaging

Packed in plastic bags.

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