

SPECIFICATION

SHEET FOR APPROVAL

(Revision: R: A1)

| | |
|-----------|---------------------------------|
| CUSTOMER | Tianjin HualTechnology Co., LTD |
| CS P/N | PIR3U-V2 (A304-033F) |
| PART NAME | FPC Antenna |
| FREQUENCY | 906.8-913.2MHz |
| ZTX NO. | 1.03.02529 |
| DATE | 2021-01-22 |

| CUSTOMER | | | |
|---------------|---------------|---------------|--------------------|
| QA CHECKED | ME CHECKED | RF CHECKED | MANAGER CHECKED |
| | | | |

Remark(备注):

Sign(客户确认签字盖章): _____

| ZHONG TIAN XUN TECHNOLOGY CO., LTD | | | | |
|------------------------------------|--------------------|---------------|---------------|--------|
| MANAGER CHECKED | MANAGER CHECKED | ME CHECKED | RF CHECKED | LISTER |
| | | Luiting Ru | Zou yi | |



深圳市中天迅通信技术股份有限公司

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ANTENNA SPECIFICATION

CUS P/N :PIR3U-V2 (A304-033F) FPC Antenna
ZTX P/N :PIR3U-V2 (A304-033F) FPC Antenna

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Revision history

| NO | Date | State |
|----|------------|-------------------|
| A1 | 2022-01-22 | The first edition |
| | | |
| | | |
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ANTENNA SPECIFICATION

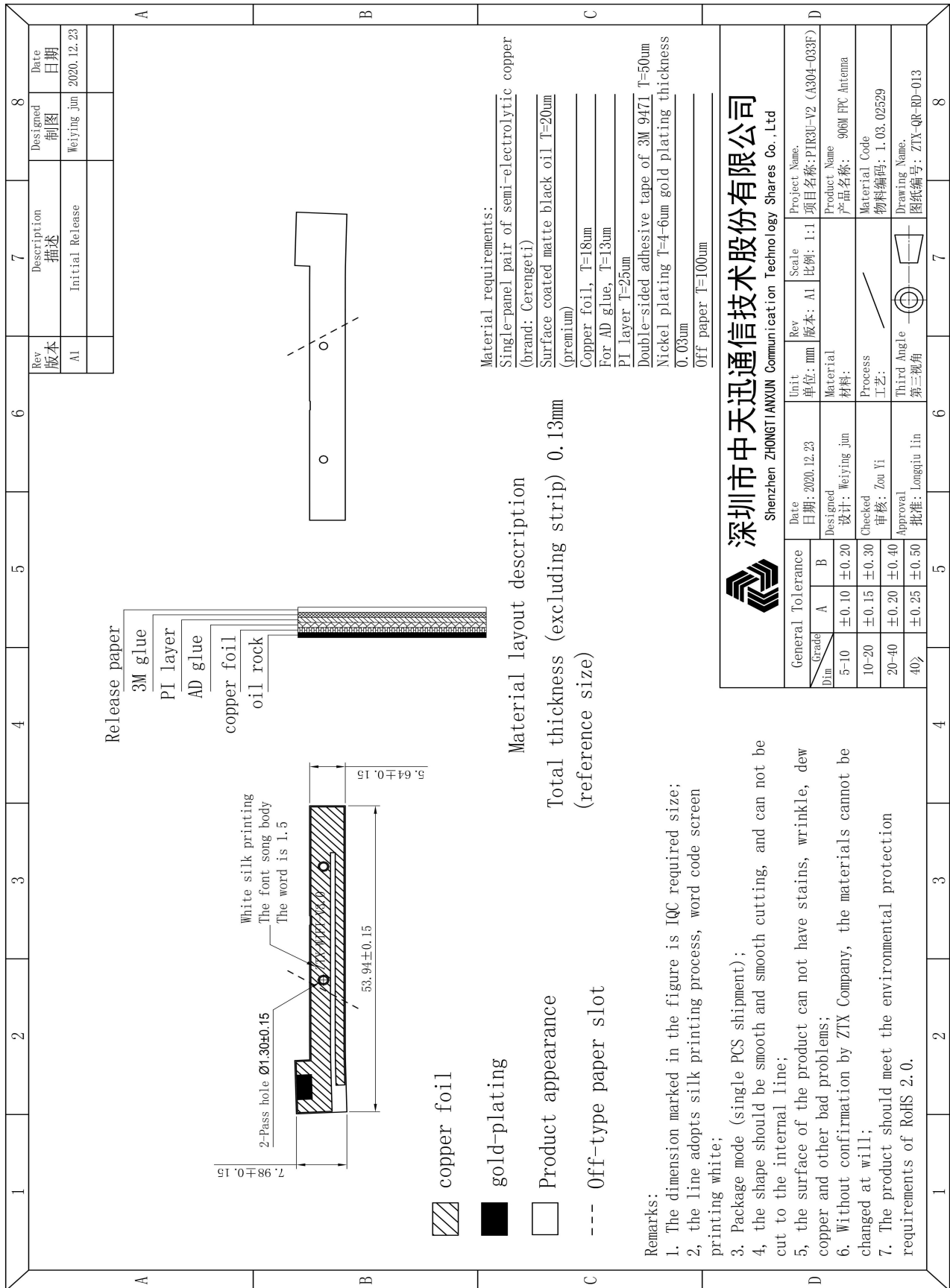
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1. Mechanical Specification

1-1 Mechanical Configuration(FPC Antenna)



深圳市中天迅通信技术股份有限公司
 Shenzhen ZHONGTIANXUN Communication Technology Shares Co., Ltd



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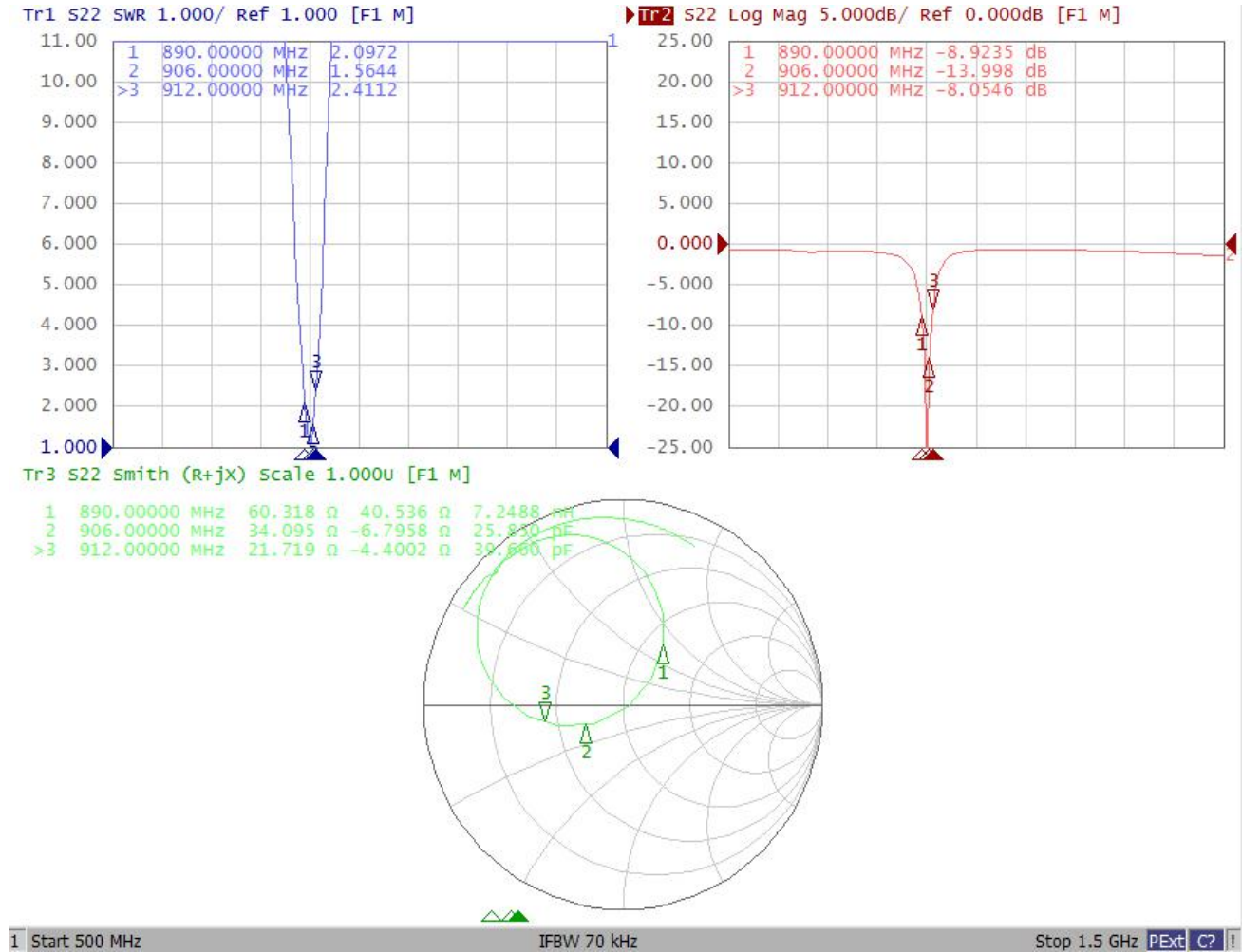
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2. Antenna test data

2-1 VSWR&Return loss plot&Smith Chart



2-2 No-source test data

| Frequency (MHz) | Efficiency | Efficiency (dB) | Gain (dB) |
|-----------------|------------|-----------------|-----------|
| 890 | 17% | -7.69 | 0.6 |
| 900 | 18% | -7.33 | 0.6 |
| 908 | 21% | -6.71 | 0.6 |
| 910 | 21% | -6.70 | 0.5 |
| 920 | 23% | -6.46 | 0.5 |
| 930 | 22% | -6.52 | 0.5 |
| 940 | 20% | -6.90 | 0.5 |
| 950 | 17% | -7.62 | 0.4 |



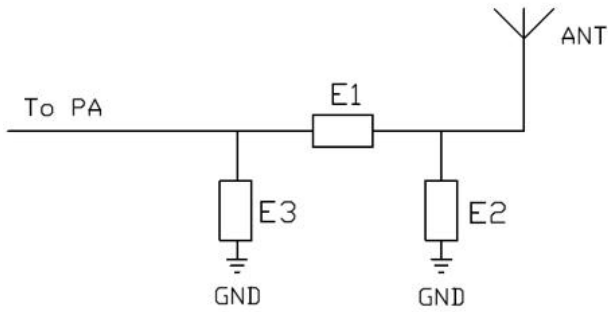
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2-3 Matching circuit



| 匹配说明 | |
|------|-------|
| E1 | 0Ω |
| E2 | 4.3nH |
| E3 | NC |

2-4 Environment treatment

N/A



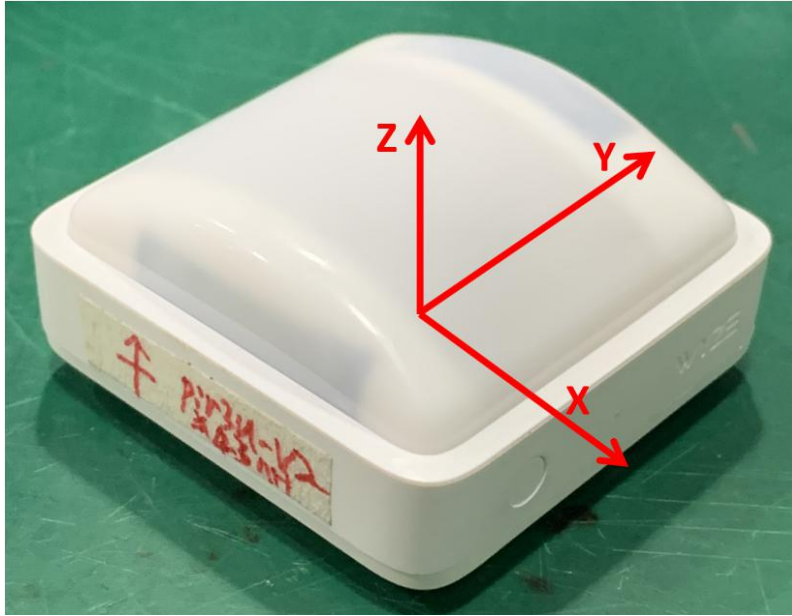
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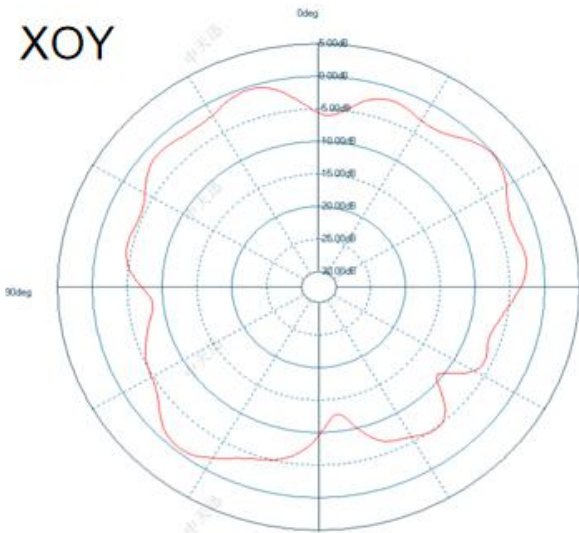
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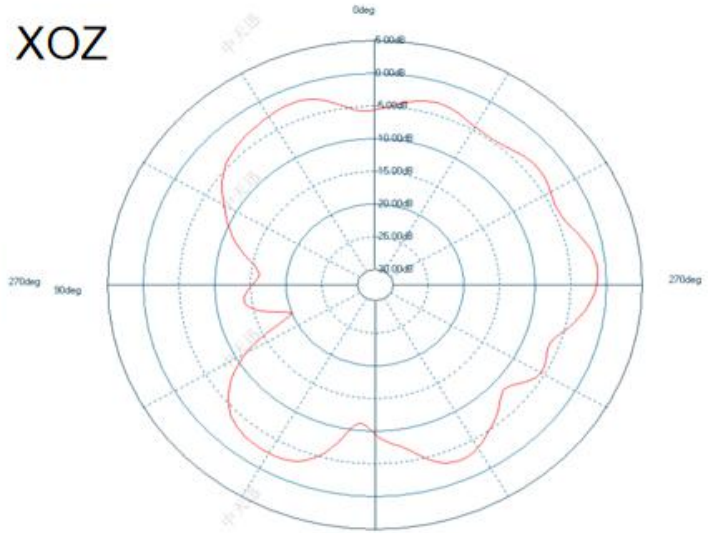
2-5 2D/3D Radiation Pattern Results



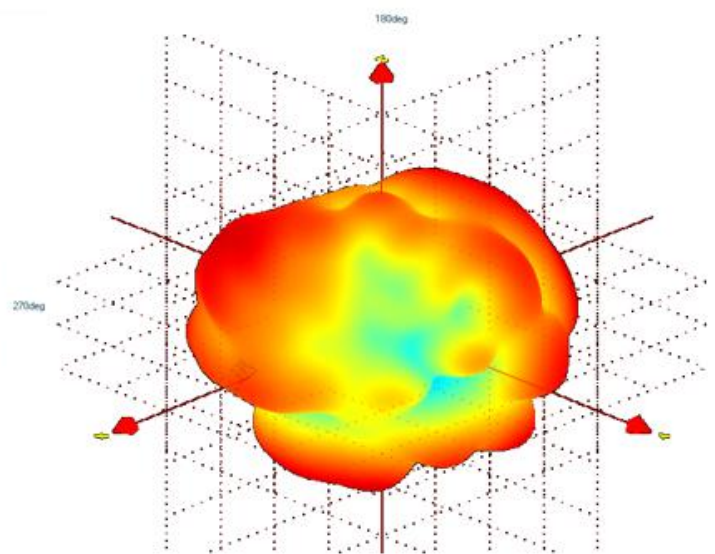
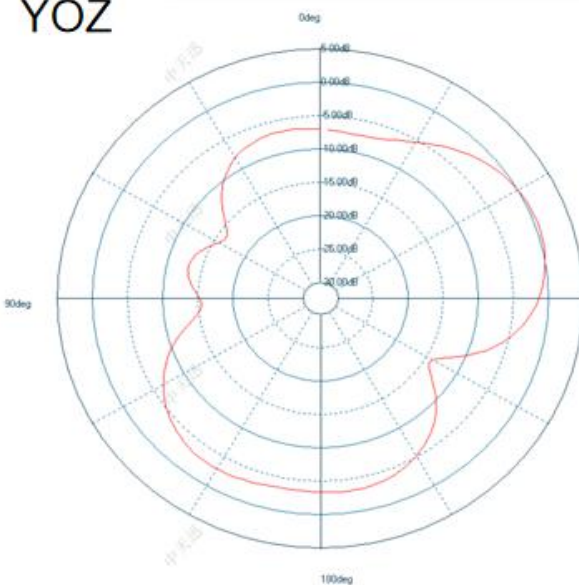
XOY



XOZ



YOZ



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4.Salt-Spray test

| | | | | | |
|--------------------|---|---|-------------------------|------------|---------------------------------------|
| customer name | Tianjin Hualai | product name | PIR3U-V2 FPC Antenna | date | 2021/01/08 |
| Product material | FPC | proving time | 48H | quantity | 5PCS |
| time quantum | test condition | test criteria | | bear fruit | Remarks |
| 0-6 Hours | Salt spray tester: salt liquid: NaCl (no water); concentration 5% ± 1%; pH value: 6.5~7.2; laboratory temperature: 32-38°C; compressed air pressure: 1.0 ± 0.01 (KG / M2) Spray amount: 1.0~2.0ML/80CM2/H. Relative humidity: 85% ± 2%; placement angle of test product: 30 degrees + / -10 degrees; salt spray duration: 48h, | Product surface without rust point, oxidation, corrosion, coating (coating) layer off and other adverse phenomena | | OK | 2021. 01. 06 10:00 AM beginning |
| 6-12 Hours | | | | | |
| 12-18 Hours | | | | | |
| 18-24 Hours | | | | | |
| 24-30 Hours | | | | | |
| 30-36 Hours | | | | | |
| 36-42 Hours | | | | | 2021. 01. 08 10:00 AM stop |
| 42-48 Hours | | | | | |
| More than 48 hours | | | | | |
| conclusion | Salt Spray Test OK | | | | |
| test clerk | Li Qingli | examine and verify | Yi Ailing | Ratify | Hu Chunmei |



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5.Environment Characteristic

| NO. | ITEM | TEST CONDITION | SPECIFICATION |
|-----|--|--|--|
| 5-1 | High Temperature/Humidity Storage Test(non operating) | 1.Temperature: +70 ±2°C 2.Humidity: 90~95%RH 3.Time: 48hrs | No material deformation is allowed. |
| 5-2 | Low Temperature/Humidity Storage Test(non operating) | 1.Temperature: -30±2°C 2.Humidity: 0%RH 3.Time:48hrs | The VSWR, Gain, Radiation Pattern must be met specifications after these test. |

