



表单编号: CYX-FM-RD004-A

深圳创盈芯实业有限公司

Shenzhen Chuangyingxin technology co., Ltd

## 材料承认书

## Material acceptance

厂 商:

Manufacturer

Dongguan Songhui Industrial Co., LTD

品 名:

Name of a part

HOA-WIF5G-1 antenna 0.81 Gray line 4 generation terminal L=110MM

料 号:

Part Number

物 料 规 格

Material specification

WIFI+BT antenna PCB +081 Gray line L=110 mm 4 generation terminals

Tel:0755-23596969

Company web site:<http://www.cyxtech.com/>

深圳市龙华新区高峰社区科伦特低碳产业园 C 栋

Add: 5 / F, 1 Building, Xiazao Industrial Zone, Zhaohe Road, Fengfeng Community

Longhua New District, Shenzhen City



# 规格承认书

## SPECIFICATION FOR APPROVAL

编号: 2024101602

File No. \_\_\_\_\_

版本: 1.0

Revision \_\_\_\_\_

客 户 创盈芯

CUSTOMER: \_\_\_\_\_

客 户 料 号

CUSTOMER NO: \_\_\_\_\_

品 名 HOA-WIFI5G 天线0.81灰色线4代端子L=110MM

PART NAME: \_\_\_\_\_

供 方 料 号 **SL136P.300081.P01**

SUPPLIER NO: \_\_\_\_\_

送样日期 Date:

送样数量 Q'TY:

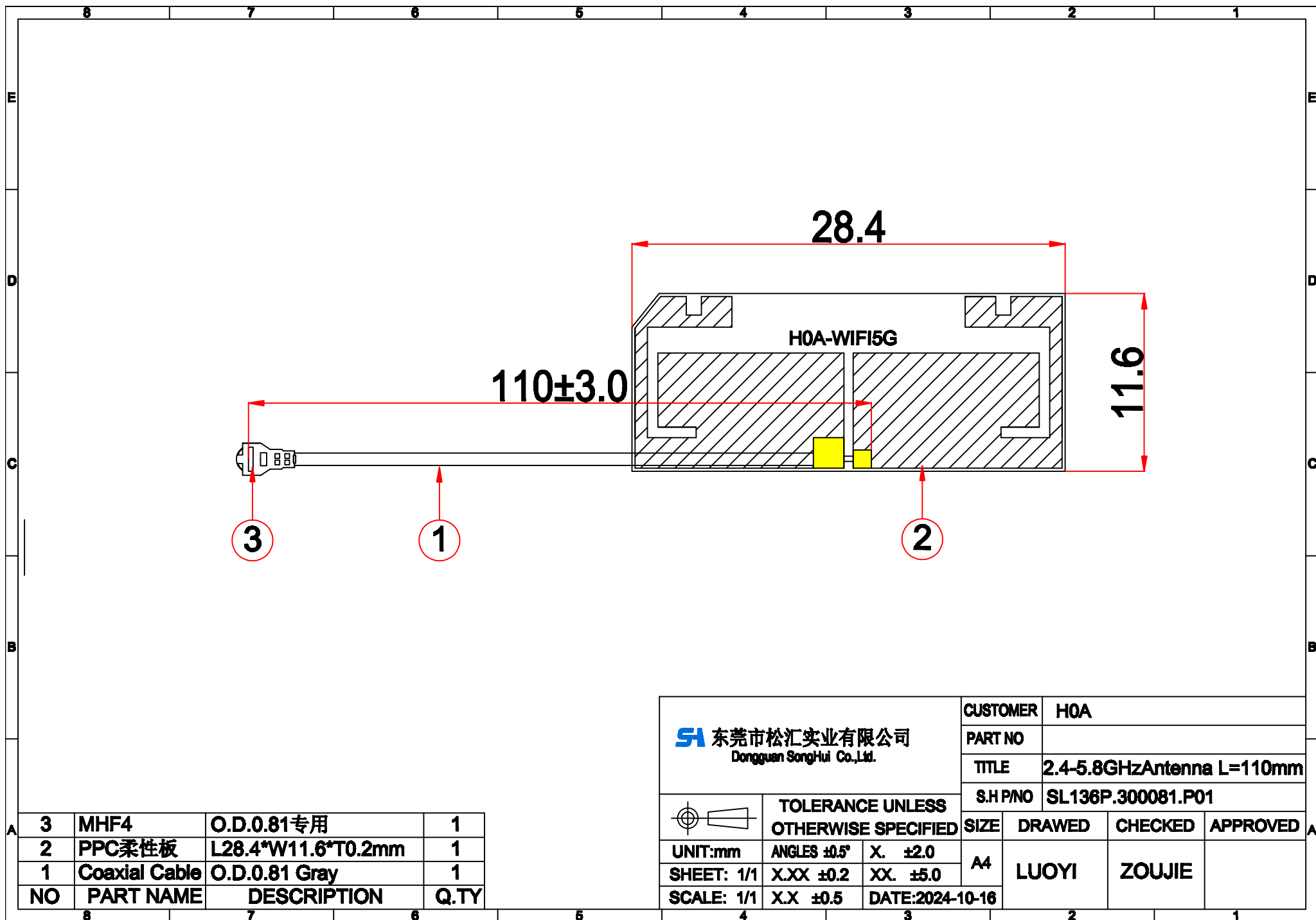
PCS

SH-RD-F04-A

add: 东莞市大朗镇巷尾村聚祥二路24号

电话: 0769-82226176

传真: 0769-82226175





# 电 性 测 试 报 告

## Test Reports

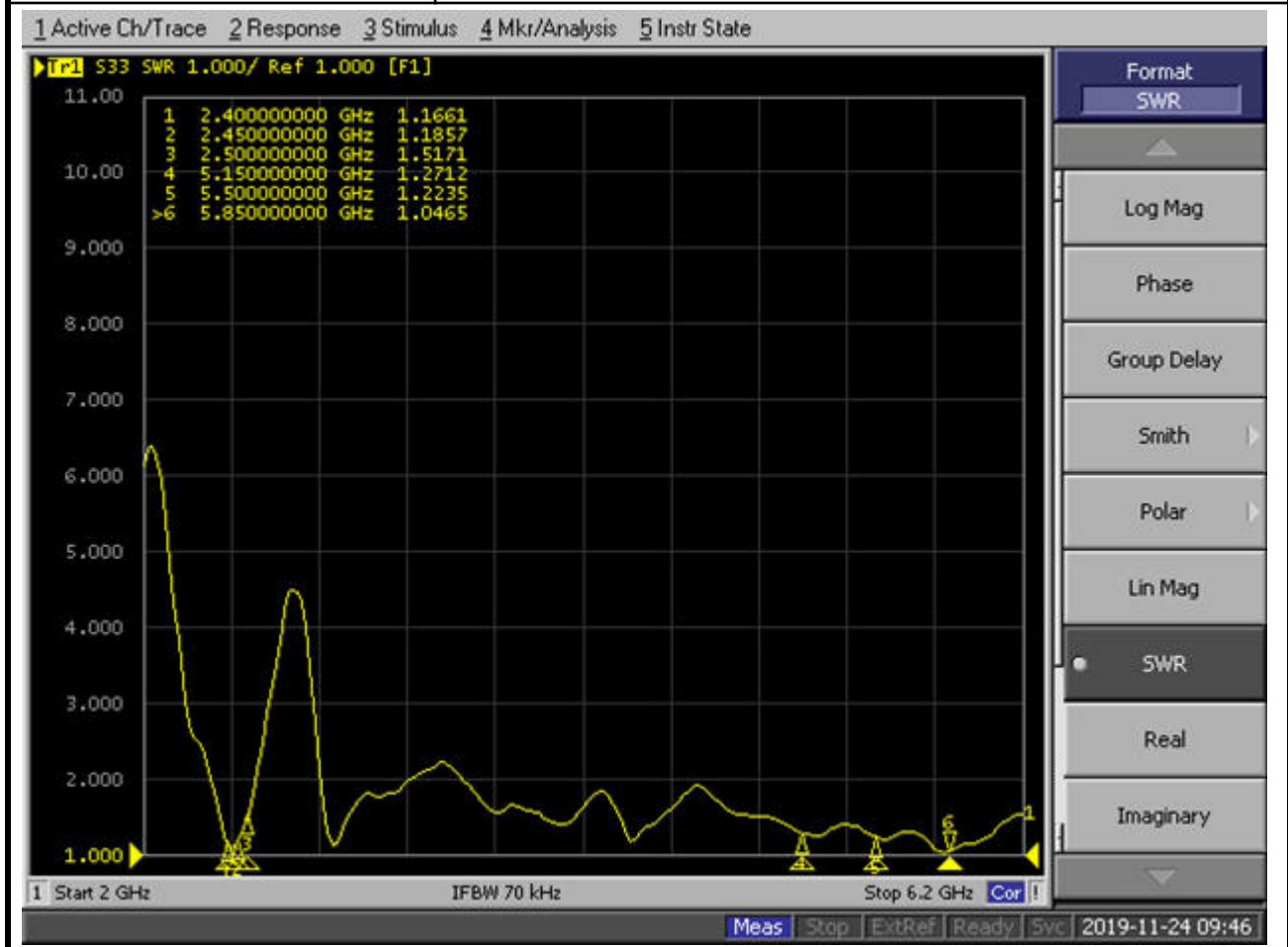
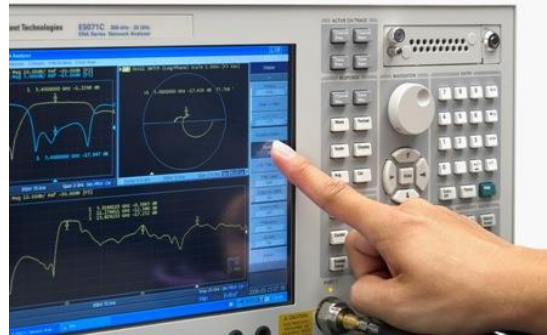
| Electrical Properties |                        |
|-----------------------|------------------------|
| Frequency             | 2400-2500/5150-5850MHz |
| Impedance             | 50 Ohm Nominal         |
| V.S.W.R               | 1.92 : 1 Max           |
| Return Loss           | -10 dB Max             |
| Radiation             | Omni-directional       |
| Gain (Peak)           | >2dBi                  |
| Efficiency            | >48%                   |
| Polarization          | Linear, Vertical       |
| Admitted Power        | 1 W                    |
| Connector             | MHF4                   |
| Physical Properties   |                        |
| Antenna Material      | PCB                    |
| Cable Type            | O.D. 0.81mm // L=110mm |
| Operating Temp.       | -10 ~ +60 °C           |
| Storage Temp.         | -10 ~ +70 °C           |
| Cable Color           | GRAY                   |



# S 参数测试

## S Parameter Test

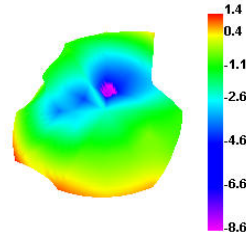
*Agilent E5071C*



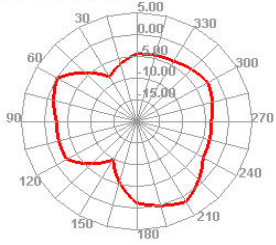
# Gain, Efficiency

| Freq (MHz) | Effi (%) | Gain (dBi) |
|------------|----------|------------|
| 2400       | 49.73    | 1.36       |
| 2410       | 55.81    | 2.08       |
| 2420       | 53.03    | 2.2        |
| 2430       | 53.02    | 2.6        |
| 2440       | 49.15    | 2.46       |
| 2450       | 48.82    | 2.51       |
| 2460       | 52.57    | 2.78       |
| 2470       | 51.89    | 2.72       |
| 2480       | 50.89    | 2.76       |
| 2490       | 49.25    | 2.86       |
| 2500       | 52.33    | 3.34       |
| Freq (MHz) | Effi (%) | Gain (dBi) |
| 5150       | 45.89    | 2.12       |
| 5175       | 45.47    | 2          |
| 5200       | 44.23    | 1.67       |
| 5225       | 43.08    | 1.58       |
| 5250       | 40.22    | 1.27       |
| 5275       | 44.51    | 2          |
| 5300       | 41.86    | 2.17       |
| 5325       | 42.37    | 2.29       |
| 5350       | 47.82    | 3.36       |
| 5375       | 41.77    | 2.3        |
| 5400       | 51.34    | 2.82       |
| 5425       | 43.73    | 1.77       |
| 5450       | 45.49    | 2.4        |
| 5475       | 43.68    | 1.72       |
| 5500       | 52.45    | 2.47       |
| 5525       | 39.84    | 1.31       |
| 5550       | 39.07    | 2.7        |
| 5575       | 42.53    | 1.84       |
| 5600       | 40.57    | 3.31       |
| 5625       | 41.37    | 1.74       |
| 5650       | 47.14    | 2.77       |
| 5675       | 44.45    | 0.74       |
| 5700       | 47.14    | 2.57       |
| 5725       | 49.74    | 1.51       |
| 5750       | 48.29    | 2.92       |
| 5775       | 39.63    | 1.67       |
| 5800       | 42.78    | 2.97       |
| 5825       | 38.54    | 1.25       |
| 5850       | 43.66    | 2.53       |

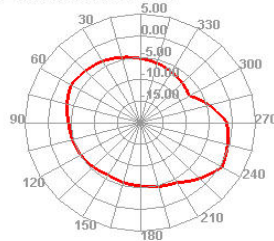
2400.000MHz



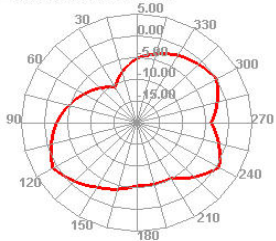
2400.000MHz H



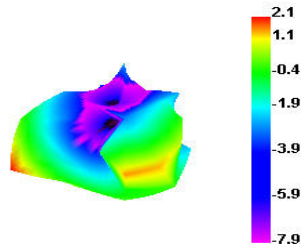
2400.000MHz E1



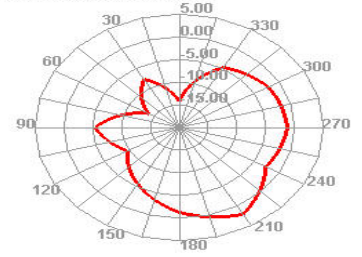
2400.000MHz E2



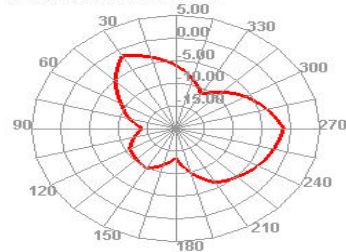
5150.000MHz



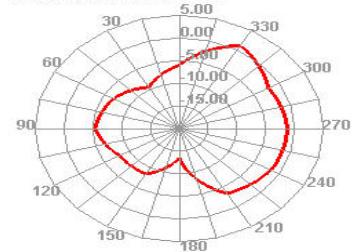
5150.000MHz H



5150.000MHz E1



5150.000MHz E2





# OTA test report

| 带宽 (MHz) | 测试项 | 模式 | 速率(Mbps) | 信道  | 频率(MHz) | 测试值 (dbm) | 测试项目 |
|----------|-----|----|----------|-----|---------|-----------|------|
| 20       | TRP | B  | 11       | 1   | 2412    | 16.6      | HOA  |
|          |     |    |          | 6   | 2437    | 17.6      |      |
|          |     |    |          | 11  | 2462    | 17.9      |      |
|          |     | G  | 6        | 1   | 2412    | 13.2      |      |
|          |     |    |          | 6   | 2437    | 15.6      |      |
|          |     |    |          | 11  | 2462    | 14.5      |      |
|          |     | N  | MCS7     | 1   | 2412    | 12.5      |      |
|          |     |    |          | 6   | 2437    | 14.5      |      |
|          |     |    |          | 11  | 2462    | 13.6      |      |
|          |     | A  | 6        | 36  | 5180    | 16.2      |      |
|          |     |    |          | 149 | 5745    | 17.5      |      |
|          |     |    |          | 165 | 5825    | 17.7      |      |
|          | TIS | B  | 11       | 1   | 2412    | -78       |      |
|          |     |    |          | 6   | 2437    | -78       |      |
|          |     |    |          | 11  | 2462    | -78       |      |
|          |     | G  | 54       | 1   | 2412    | -63       |      |
|          |     |    |          | 6   | 2437    | -63       |      |
|          |     |    |          | 11  | 2462    | -63       |      |
|          |     | N  | MCS7     | 1   | 2412    | -58       |      |
|          |     |    |          | 6   | 2437    | -58       |      |
|          |     |    |          | 11  | 2462    | -58       |      |
|          |     | A  | 54       | 1   | 2412    | -71       |      |
|          |     |    |          | 6   | 2437    | -71       |      |
|          |     |    |          | 11  | 2462    | -71       |      |





# Antenna assembly diagram

