



承 认 书

SPECIFICATION FOR APPROVAL

客户名称 Customer Name: 东声

产品型号 Product Model: SUZI-Antenna 3

客户料号 Customer P/N : SCA050000-0101

鑫恒阳料号 XINHENGYANG P/N: WJ. 05. 0000009

产品规格 SPECIFICATIONS: 2400MHZ-2500MHZ

制作日期 Production date: 2024-8-30

封样版本 Sample Version: V2

| 鑫恒阳 (XINHENGYANG) | | |
|-------------------|----------------|-----------------|
| 编制 (FICTION) | 结构 (Structure) | 研发 (R&D) 唐师荣 |
| 肖谭平 | 何亮 | |
| 客户 (Customer) | | |
| 采 购 (PUR) | 品质 (QC) | 研发 (R&D) |
| | | |

生产厂商: 深圳市鑫恒阳科技有限公司

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一、 The basic parameters:

| A. Electrical Characteristics | | |
|--|-------------------------|--------------------|
| Frequency | 2400MHZ~2500MHZ | |
| VSWR | < 2.0 | |
| Avg Efficiency | >50% | |
| Impedance | 50 ± 25 Ohm | |
| Polarization | Linear | |
| Peak Gain | 2.4G:2.96dBi | |
| B. Material & Mechanical Characteristics | | |
| Material of Radiator | Internal Antenna | Silver gray |
| Cable Type | / | |
| Connector Type | / | |
| Dimension | / | |
| C. Environmental | | |
| Operation Temperature | -40 °C ~ +85 °C | |
| Storage Temperature | -40 °C ~ +85 °C | |

二、 Electrical Specification :

Those specifications were specially defined for SUZ1-Antenna 3 model.

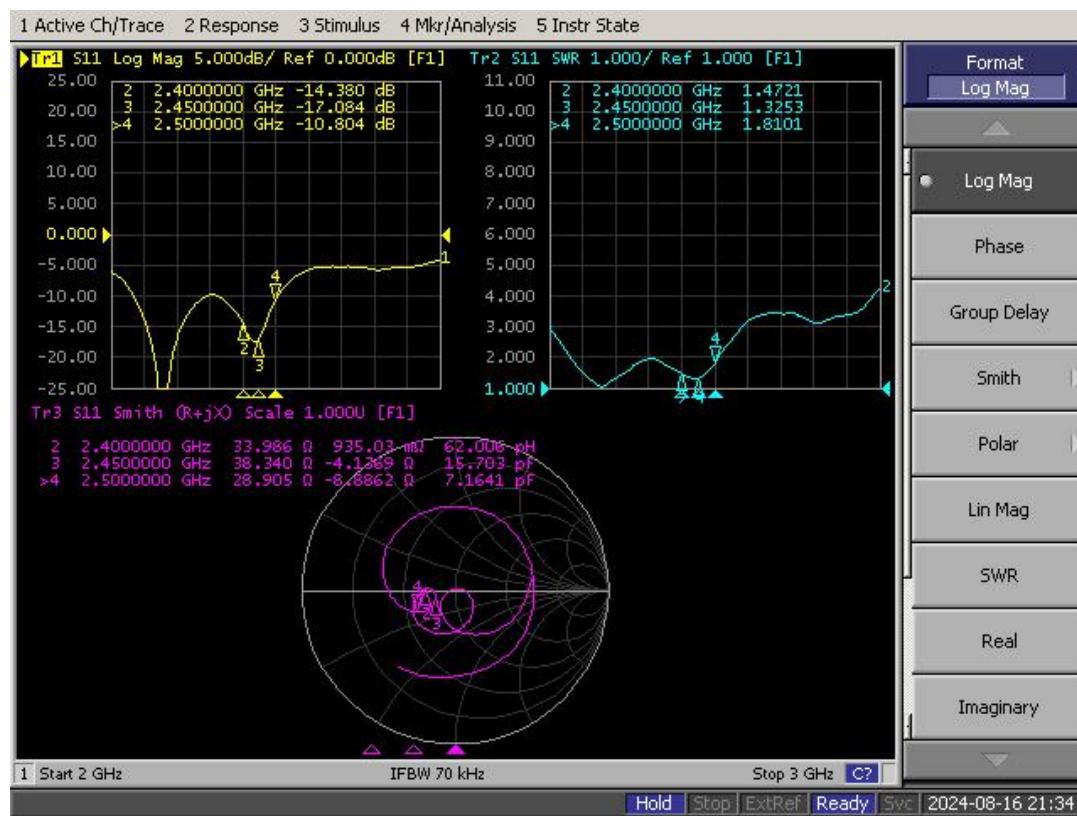
三、 VSWR

1 Measuring Method

1. A $50\ \Omega$ coaxial cable is connected to the antenna. Then this cable is connected to a network analyzer to measure the VSWR

2. Keeping this jig away from metal at least 20cm

2 Measurement frequency points and VSWR value





四、 Anechoic chamber

Introduction:

Microwave darkroom and no reflection chamber, absorbing short wave darkroom dark room. Microwave darkroom by electromagnetic shielding room, filtering and isolation, grounding device, the ventilation duct, indoor distribution system, monitoring system, ceiling wave material part. It is based on the wave absorbing material as the lining of the shield room, it can absorb the most of the electromagnetic energy into the six wall is a better simulation of the free space conditions.

The main working principle of microwave anechoic chamber is according to the electromagnetic wave in the medium from the low magnetic guide magnetic direction of propagation rules, absorbing materials to guide the electromagnetic wave using high permeability, through resonance, a substantial absorption of electromagnetic wave radiation energy, by coupling the electromagnetic energy into heat energy.

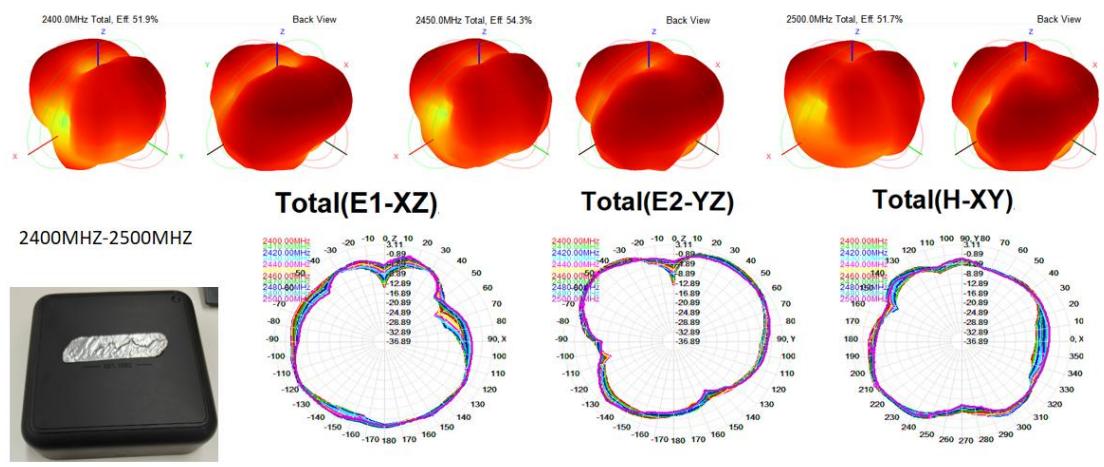
main performance :

Frequency range:400MHz ~ 6GHz ceiling reflected wave loss materials: 400MHz ~ 6GHz is equal to or more than 15dB (microwave absorbing material by composite wave absorbing materials, namely tapered containing carbon sponge suction wave material paste in ferrite)



五、Gain table of Antenn

无源3D&2D场型图



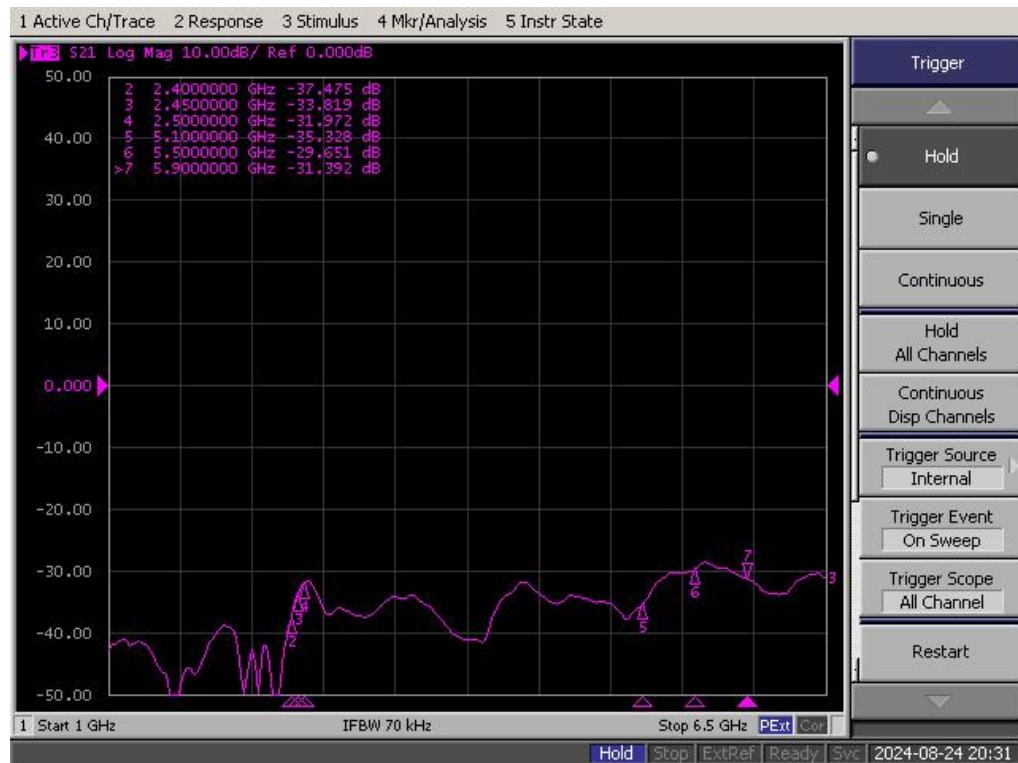
无源效率增益

Antenna 3

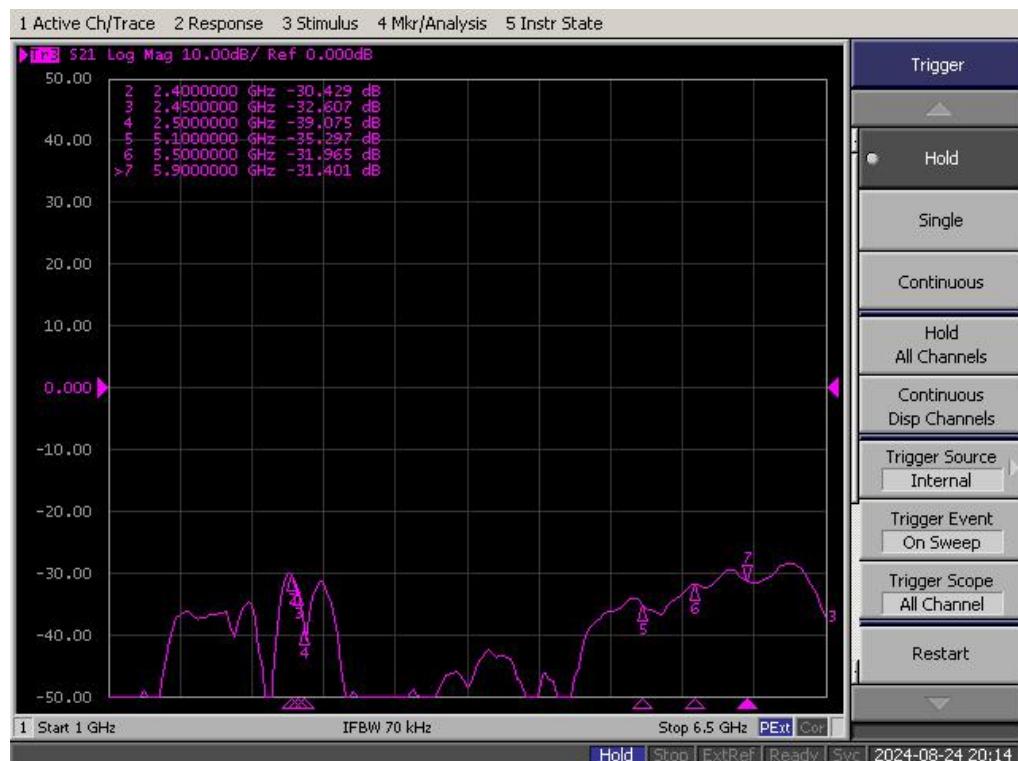
| Frequency (MHz) | Efficiency (%) | Gain (dBi) |
|-----------------|----------------|------------|
| 2400 | 51.87 | 2.11 |
| 2410 | 51.31 | 2.05 |
| 2420 | 52.10 | 2.95 |
| 2430 | 51.55 | 2.75 |
| 2440 | 53.46 | 2.81 |
| 2450 | 54.32 | 2.80 |
| 2460 | 55.36 | 2.91 |
| 2470 | 54.77 | 2.96 |
| 2480 | 53.75 | 2.93 |
| 2490 | 52.41 | 2.86 |
| 2500 | 51.66 | 2.82 |



天线隔离度 (Antenna 3 & Antenna 1)

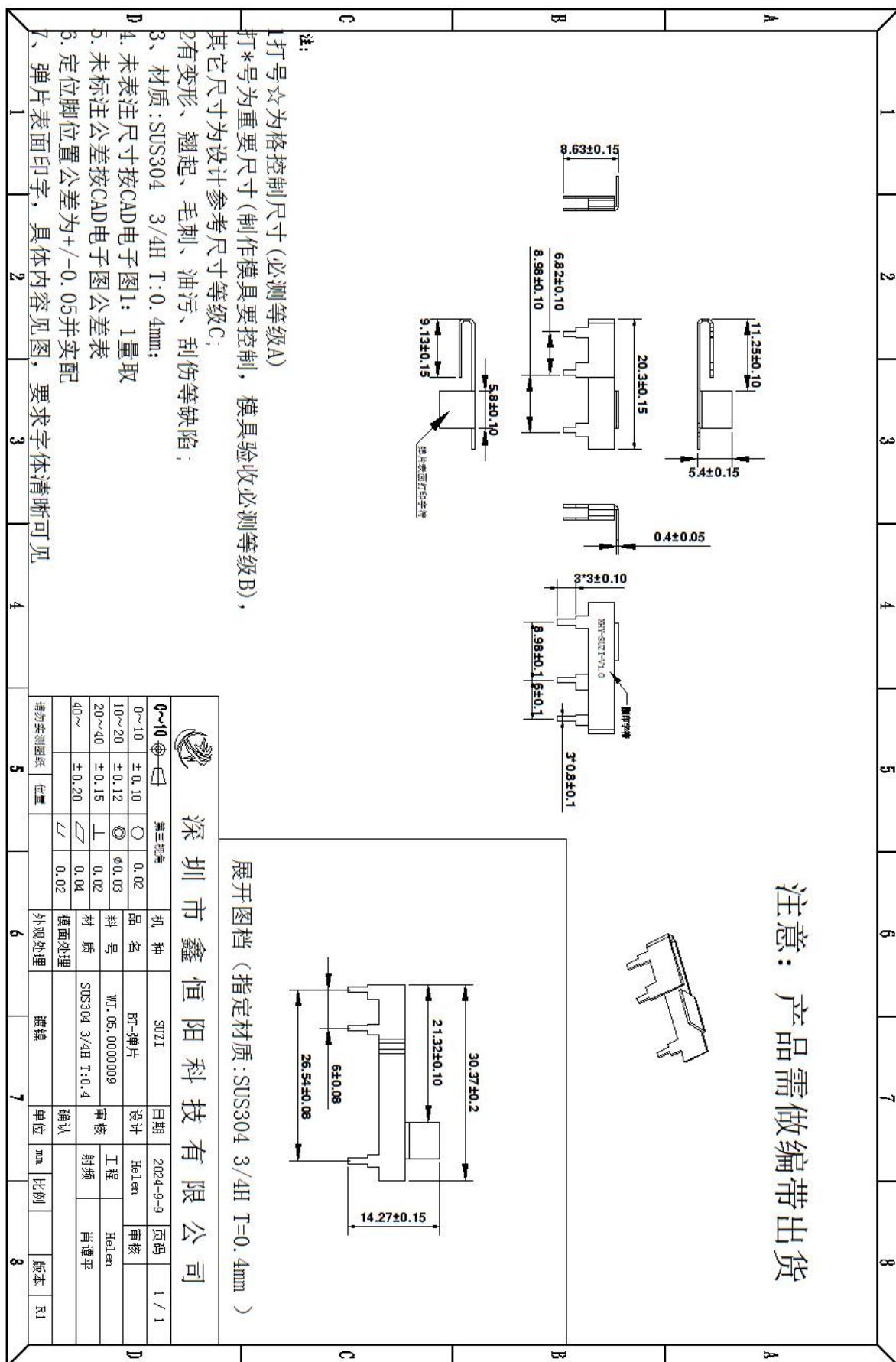


天线隔离度 (Antenna 3 & Antenna 2)





七、Antenna Dimensions





八、 ROHS:

Antenna WJ. 05. 0000009 meets RoHS requirements.

九、 Product packaging instructions:

- A. packing should meet the moistureproof, vibration, pressure and mildew proof, etc.
- B. the smallest packing unit logo must have the manufacturer trademarks, product model, name, code and quantity.
- C. in the attached packing list, certificate of approval, and the factory inspection report.

*****END*****