

SHENZHEN MTC CO., LTD



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# 深圳市兆驰数码科技股份有限公司承认书

## APPROVAL SHEET

公司名称

MANUFACTORY:

深圳市南斗星科技有限公司

品 名

规 格

DESCRIPTION: BT 天线

SPECIFICATION: 1. 13 灰色, 总线长 L=200mm

料 号

机 型

PART NO.: 3. N101. 2338

MODEL NO.: H211R1

兆驰料号

日 期

PART NO.: 304ANT00816

D A T E: 2026. 04. 02

APPROVED BY

| 工程师                | PCB 工程师 | 安规工程师 | 部品工程师 | 经 理 |
|--------------------|---------|-------|-------|-----|
|                    |         |       |       |     |
| 承认章<br>APPROVED BY |         |       |       |     |
| 日期:                |         |       |       |     |

注: 此承认书需附上详细的样品规格书、图纸资料等。共四套完整的资料。样品数量不得少于 3 份。



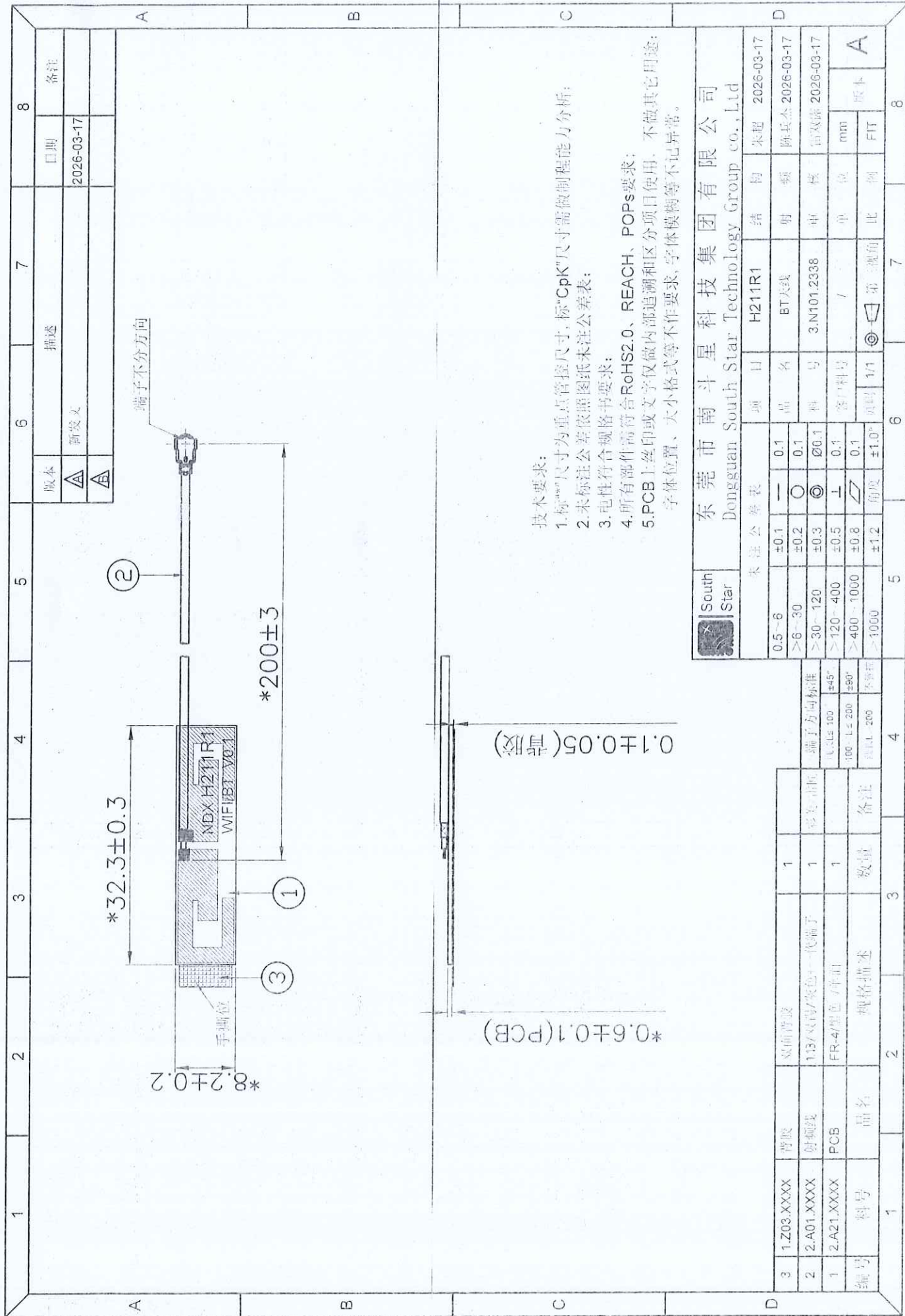
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# 深圳市南斗星科技有限公司

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## 基本参数(The basic parameters):

| A. 电性能Electrical Characteristics                |                                                       |
|-------------------------------------------------|-------------------------------------------------------|
| 天线类型<br>Frequency 频率                            | 内置、2.4G, 单频<br>2400MHz-2485MHz                        |
| VSWR 电压驻波比                                      | $\leq 2$                                              |
| Efficiency 效率                                   | $> 50\%$                                              |
| Impedance 阻抗                                    | 50 Ohm                                                |
| Polarization 极化                                 | Linear                                                |
| Peak Gain 最大增益                                  | 2.37dBi@2400MHz<br>2.67dBi@2440MHz<br>3.03dBi@2480MHz |
| Note 备注:                                        |                                                       |
| B. 材料&物理性能Material & Mechanical Characteristics |                                                       |
| 射频材料 Material of Radiator                       | PCB                                                   |
| 射频线类型 Cable Type                                | 双锡线 1.13mm 灰色                                         |
| 馈线长度 Cable length                               | 200mm                                                 |
| 接头类型 Connector Type                             | 一代端子                                                  |
| 天线尺寸 Antenna Dimensions                         | 32.3mm*8.2mm*0.6mm                                    |
| 重量 weight                                       |                                                       |
| C. 环境 Environmental                             |                                                       |
| 工作温度 Operation Temperature                      | -40°C ~ +70°C                                         |
| 存放温度 Storage Temperature                        | -40°C ~ +70°C                                         |





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测试设备 (Test Equipment & Conditions):

1. 网络分析仪 Network Analyzers:

Keysight E5071C

2. 综合测试仪 Comprehensive tester:

CMW500 、 MT8000A、 MT8862A

3. 3D 暗室测试系统 3D Chamber Test System:

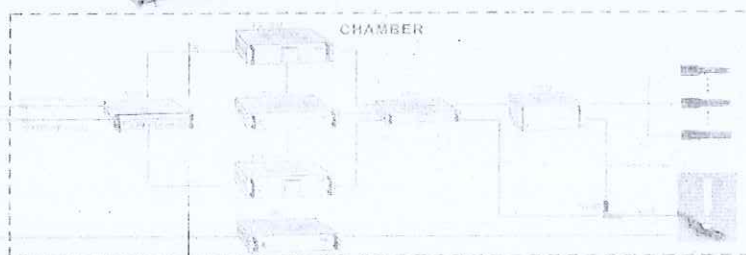
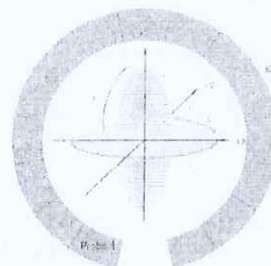
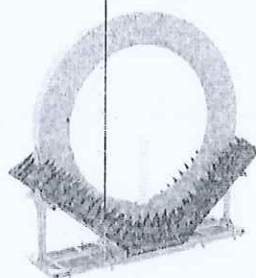
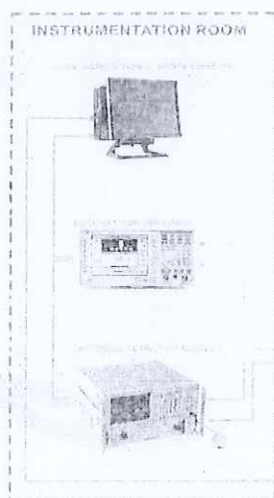


SUNYIELD

## Multi-Probe OTA Measurement System

System Type: OTA

Frequency Range: 0.1-60GHz



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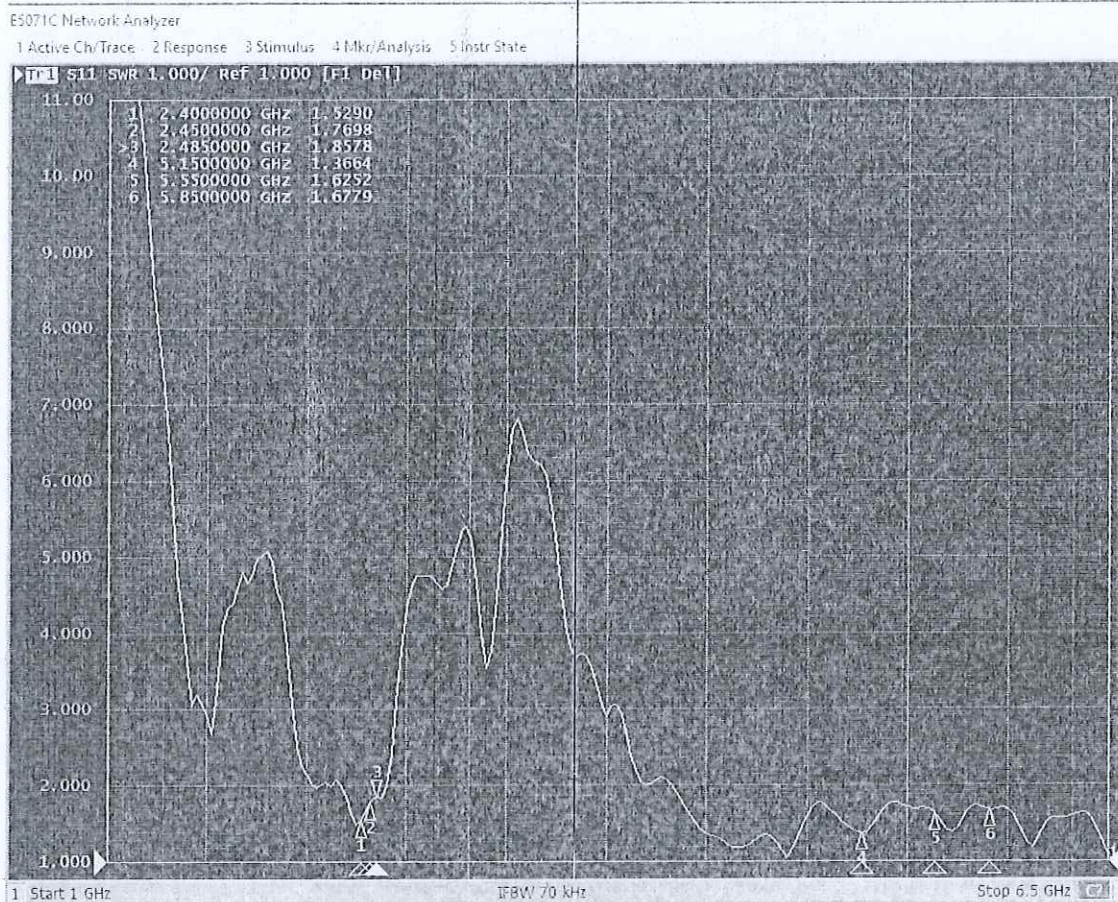
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天线阻抗 (Antenna Impedance):

S11



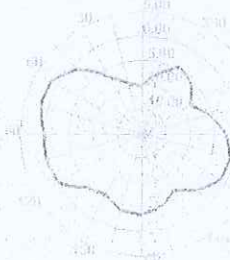
## 效率&增益&方向图(Efficiency & Gain): 整机

| Freq<br>(MHz) | Effi<br>(%) | Gain<br>(dBi) |
|---------------|-------------|---------------|
| 2400          | 55.85       | 2.37          |
| 2410          | 55.31       | 1.95          |
| 2420          | 55.3        | 2.22          |
| 2430          | 56.54       | 2.58          |
| 2440          | 56.47       | 2.67          |
| 2450          | 56.98       | 2.46          |
| 2460          | 56.53       | 2.67          |
| 2470          | 58.24       | 2.89          |
| 2480          | 59.76       | 3.03          |
| 2490          | 57.55       | 2.97          |
| 2500          | 57.55       | 3.33          |

2400.000MHz



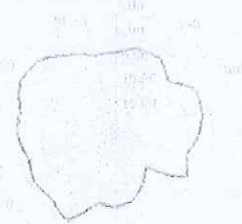
2400.000MHz H



2400.000MHz E1



2400.000MHz E2



2440.000MHz



2440.000MHz H



2440.000MHz E1



2440.000MHz E2



2480.000MHz



2480.000MHz H



2480.000MHz E1



2480.000MHz E2

