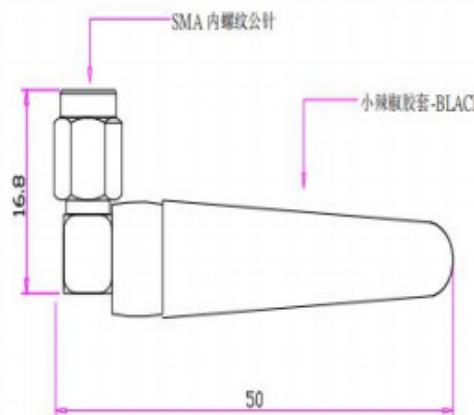
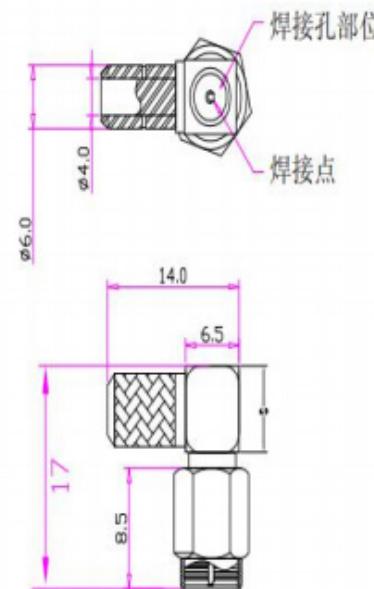


# Antenna Specifications

- Shenzhen Sunshow Industrial Co., Ltd.
- Model: ANT1
- PACK Gain: 3.33dbi

## 4.1 附图

| A   | B    | C           | D | E | F    | G |
|-----|------|-------------|---|---|------|---|
| REV | DATE | DESCRIPTION |   |   | NAME |   |
| A1  |      |             |   |   |      |   |
| A2  |      |             |   |   |      | 1 |



备注：

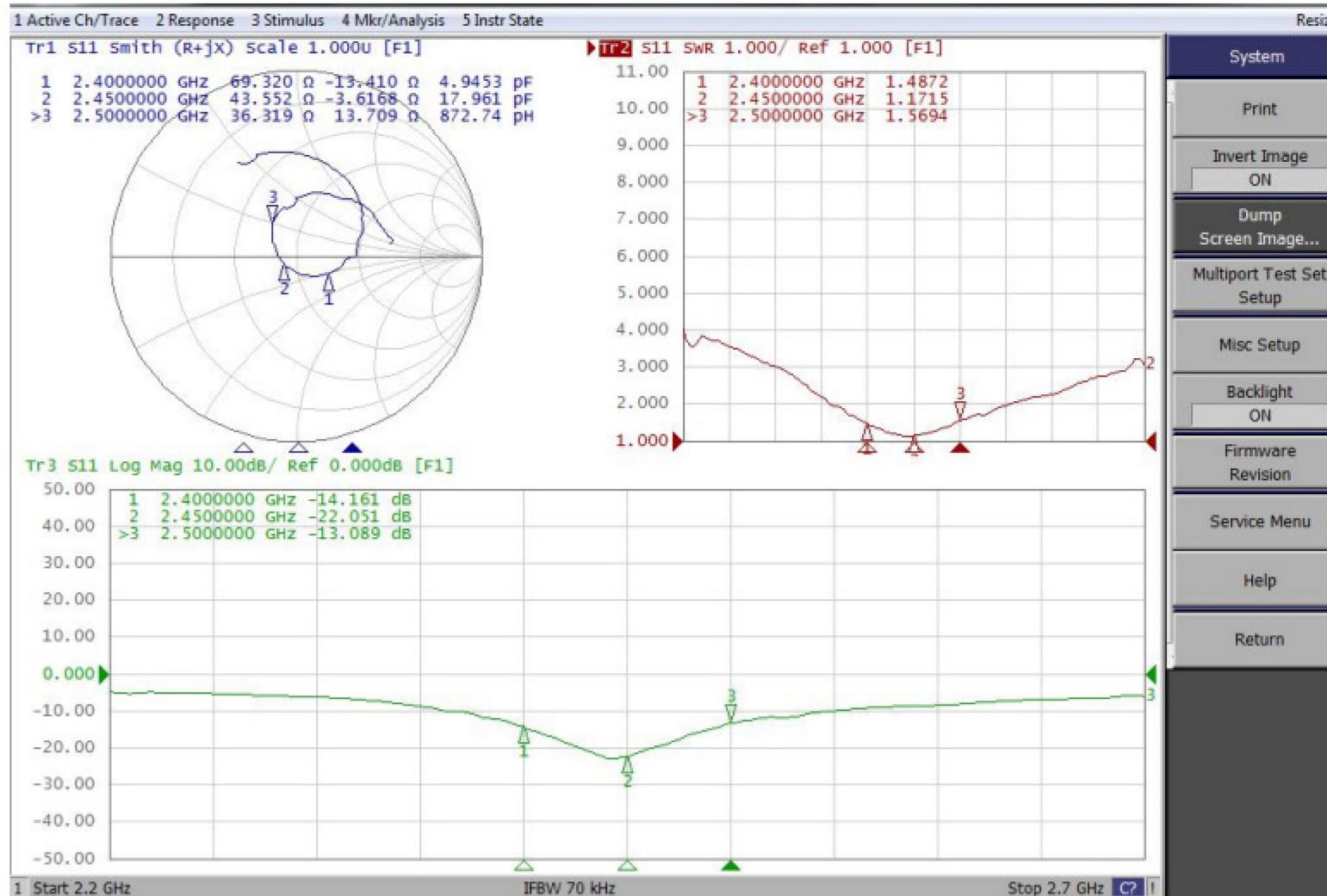
1. 橡胶外套不可有刮伤不良现象
2. 接头电镀良好，产品导通OK
3. 未标注尺寸以正负0.3为准

|                   |  |
|-------------------|--|
| FREQUENCY RANGE : | 2400-2483 MHZ  |
| Gain :            | 2.0dBi   |
| SWR :             | <2.5   |
| Polarization :    | Linear, Vertical                                     |
| Impedance :       | 50 OHM   |
| Manufacturer :    | 深圳市三秀实业有限公司<br>Shenzhen Sunshow Industrial Co., Ltd. |

|     |      |             |           |  |   |  |            |
|-----|------|-------------|-----------|--|---|--|------------|
| 4   |      | 1           | 1701-0006 | 0-1<br>1-10<br>11-30<br>31-100<br>101-300<br>301-<br>ANGULAR $\pm 1^\circ$ | 品名规格 (PRODUCT NAME)<br>料号 (PART NAME)<br>客户料号 (CUS PART NAME)<br>绘图 (DRAW)<br>客核 (CHECK)<br>核准 (APP.) | 2400-2483 MHZ<br>RH0111-30060<br>N/ELR<br>CHEM<br>JERL R | A1         |
| 3   |      | 1           | 1701-0002 | 1-10<br>11-30<br>31-100<br>101-300<br>301-<br>ANGULAR $\pm 1^\circ$        | 料号 (PART NAME)  | RH0111-30060   |            |
| 2   | 橡胶杆套 | 1           | 1201-0022 | 客户料号 (CUS PART NAME)   |   |  |            |
| 1   | SMA  | 1           | 1101-0050 | 绘图 (DRAW)  | N/ELR   | 版本 (REV)   | A1         |
| NO. | NAME | Description | Q' TY     | Part No.   | 客核 (CHECK)  | 日 期 (DATE)   | 2011-09-13 |
|     |      |             |           |  | 核准 (APP.)   | 页 码 (PAGE)   | 1/1        |

### 3. 无源性能测试参数

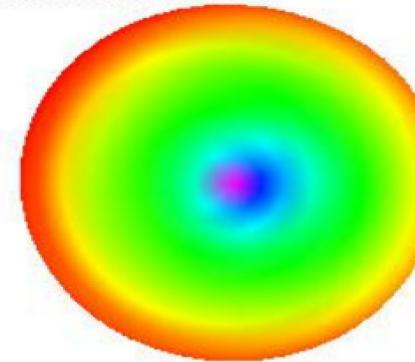
|                 |        |        |        |
|-----------------|--------|--------|--------|
| Frequency (MHz) | 2400   | 2450   | 2500   |
| VSWR            | 1.4872 | 1.1715 | 1.5694 |



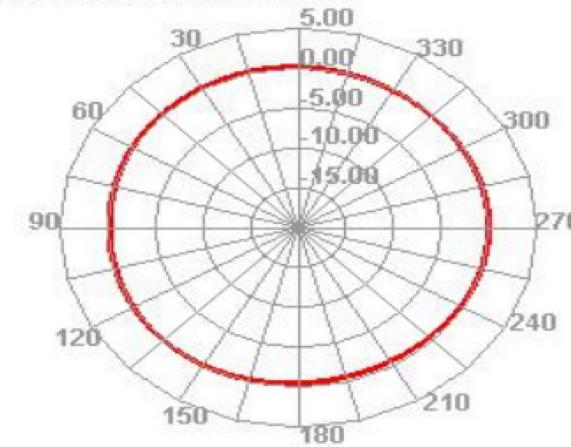
## 4. 2D、3D性能图

|    | A                        | B        | C         | D          | E          | F        | G        | H        | I        | J           | K           |
|----|--------------------------|----------|-----------|------------|------------|----------|----------|----------|----------|-------------|-------------|
| 1  | Passive Test For WIFI2.4 |          |           |            |            |          |          |          |          |             |             |
| 2  | Freq (MHz)               | Effi (%) | Effi (dB) | Gain (dBi) | Gain (dBd) | UHIS (%) | DHIS (%) | Max (dB) | Min (dB) | Attenut Hor | Attenut Ver |
| 4  | 2400                     | 71.18    | -1.48     | 3.01       | 0.86       | 46.066   | 25.118   | 3.01     | -27.09   | 48.68       | 48.95       |
| 5  | 2410                     | 74.88    | -1.26     | 3.11       | 0.96       | 48.109   | 26.77    | 3.11     | -24.05   | 48.6        | 49.03       |
| 6  | 2420                     | 78.87    | -1.03     | 3.14       | 0.99       | 50.195   | 28.673   | 3.14     | -20.92   | 48.66       | 49.12       |
| 7  | 2430                     | 80.35    | -0.95     | 3.02       | 0.87       | 50.662   | 29.688   | 3.02     | -21.67   | 48.73       | 49.16       |
| 8  | 2440                     | 82.39    | -0.84     | 3          | 0.85       | 51.589   | 30.797   | 3        | -21.52   | 48.9        | 49.33       |
| 9  | 2450                     | 82.32    | -0.84     | 3.02       | 0.87       | 51.258   | 31.064   | 3.02     | -22.94   | 49.02       | 49.47       |
| 10 | 2460                     | 80.02    | -0.97     | 3.05       | 0.9        | 49.739   | 30.277   | 3.05     | -21.36   | 49.12       | 49.5        |
| 11 | 2470                     | 75.02    | -1.25     | 2.95       | 0.8        | 46.693   | 28.323   | 2.95     | -19.34   | 49.1        | 49.75       |
| 12 | 2480                     | 72.97    | -1.37     | 2.96       | 0.81       | 45.663   | 27.304   | 2.96     | -19.39   | 49.33       | 49.67       |
| 13 | 2490                     | 75.82    | -1.2      | 3.15       | 1          | 47.614   | 28.209   | 3.15     | -20.36   | 49.49       | 50.01       |
| 14 | 2500                     | 80.91    | -0.92     | 3.33       | 1.18       | 50.758   | 30.15    | 3.33     | -19.36   | 49.73       | 50.17       |

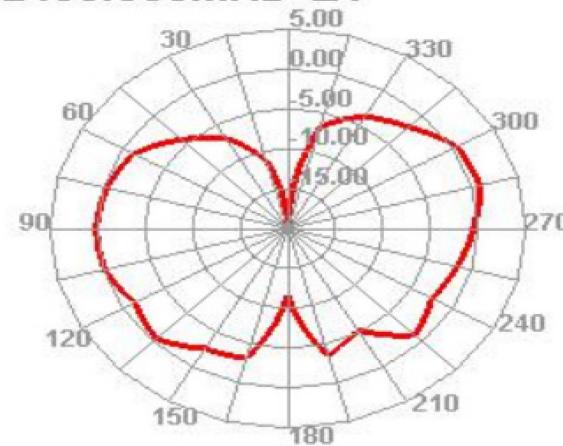
**2400.000MHz**



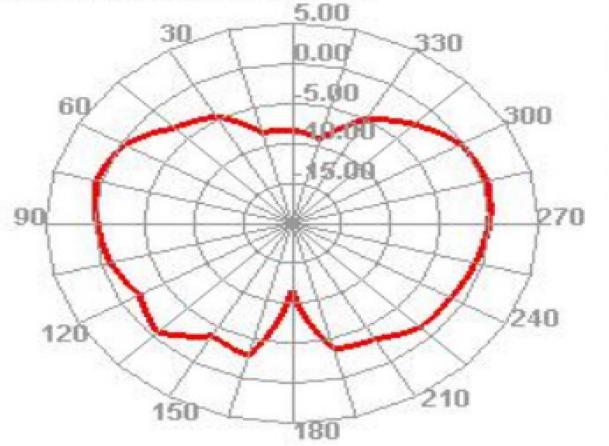
**2400.000MHz H**



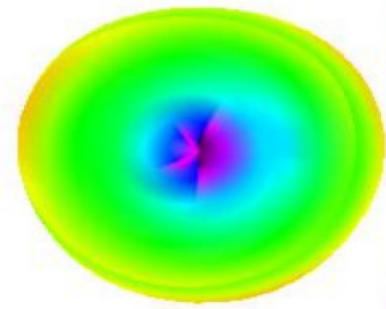
**2400.000MHz E1**



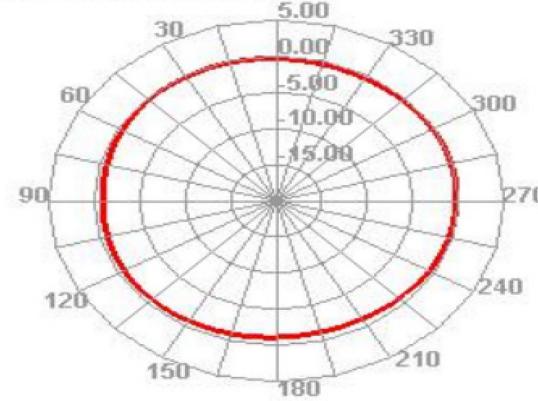
**2400.000MHz E2**



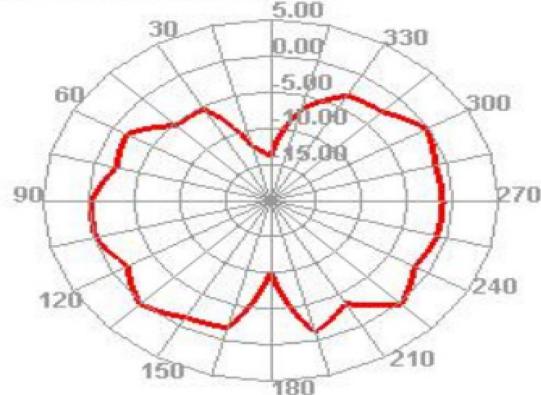
**2500.000MHz**



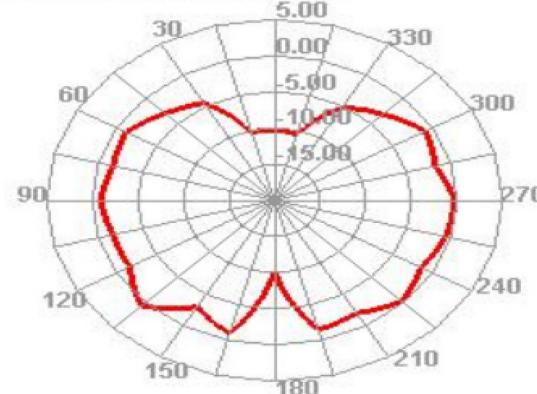
**2500.000MHz H**



**2500.000MHz E1**



**2500.000MHz E2**



## 5. 电气性能参数

| 名称<br>项目      | 2.4G 天线   | Name                         | 2.4G Antenna        |
|---------------|-----------|------------------------------|---------------------|
| 频率范围<br>(MHz) | 2400~2500 | Frequency (MHz)              | 2400~2500           |
| 带宽 (MHz)      | 100       | Bandwidth (MHz)              | 100                 |
| 极化方式          | 线极化       | Polarization Type            | linear polarization |
| 天线增益<br>(dBi) | 2         | Gain (dBi)                   | 2                   |
| 辐射方向          | 全向        | Radiation Patten             | Omni directional    |
| 电压驻波比         | ≤2        | VSWR                         | ≤2                  |
| 输入阻抗<br>(Ω)   | 50        | Input Impedance<br>(Ω)       | 50                  |
| 电缆线长度<br>(mm) | 100       | Cable length<br>(mm)         | 100                 |
| 电缆线颜色         | 黑色        | Cable Colour                 | Black               |
| 接口形式          | 一代端子      | Connector Type               | IPEX MHF 1          |
| 工作温度<br>(℃)   | -40~+85   | Operation temperature<br>(℃) | -40~+85             |
| 存储温度<br>(℃)   | -40~+85   | Store temperat<br>(℃)        | -40~+85             |

转接线



## (2) 转接线电气性能

| 测试项目    | 标准要求                    | 参照标准     | 测试方法          | 备注              |
|---------|-------------------------|----------|---------------|-----------------|
| 绝缘电阻    | $\geq 10\text{M}\Omega$ | GB3048   | 500V交流电持续1min | 电阻测试仪           |
| 最大承受压力  | 10000N                  | /        | /             | /               |
| 介质耐压    | 1.5KV                   | GB3048   | 3KV交流电持续1min  | 耐压测试仪           |
| 最大工作电压  | 1000V                   | GB3048   | /             | /               |
| 特性阻抗    | $50 \pm 2 \Omega$       | GB4098   | /             | 网络分析仪<br>TRK测试仪 |
| 电容      | 96.45PF/M               | GB4098   | /             | 数字电容仪           |
| 传输速率    | 70%                     | /        | /             | 网络分析仪           |
| 传输延迟    | 4.8ns/m                 | /        | /             | /               |
| 传输线工作频率 | 30GHZ                   | /        | /             | /               |
| 屏蔽衰减    | 100dB                   | /        | GB9023        | /               |
| 阻燃性     | passed                  | IEC322-3 | /             | /               |
| 卤素特性    | passed                  | IEC754   | /             | /               |
| 衰减量Db/m | 100MHZ                  | 0.453    | 参考GB4098      | 海平面20℃测试        |
|         | 400MHZ                  | 0.912    |               |                 |
|         | 1000MHZ                 | 1.457    |               |                 |
|         | 3000MHZ                 | 2.572    |               |                 |
| 载波功率    | 100MHZ                  | 173.5    |               |                 |
|         | 400MHZ                  | 121.5    |               |                 |
|         | 1000MHZ                 | 52.2     |               |                 |