

Antenna Specification

Overview:

Model: SDD Finder 3

Wireless Solution: Low-power Bluetooth BLE 5.3

Operating Frequency Band: 2402 MHz - 2480 MHz

Modulation Method: GFSK

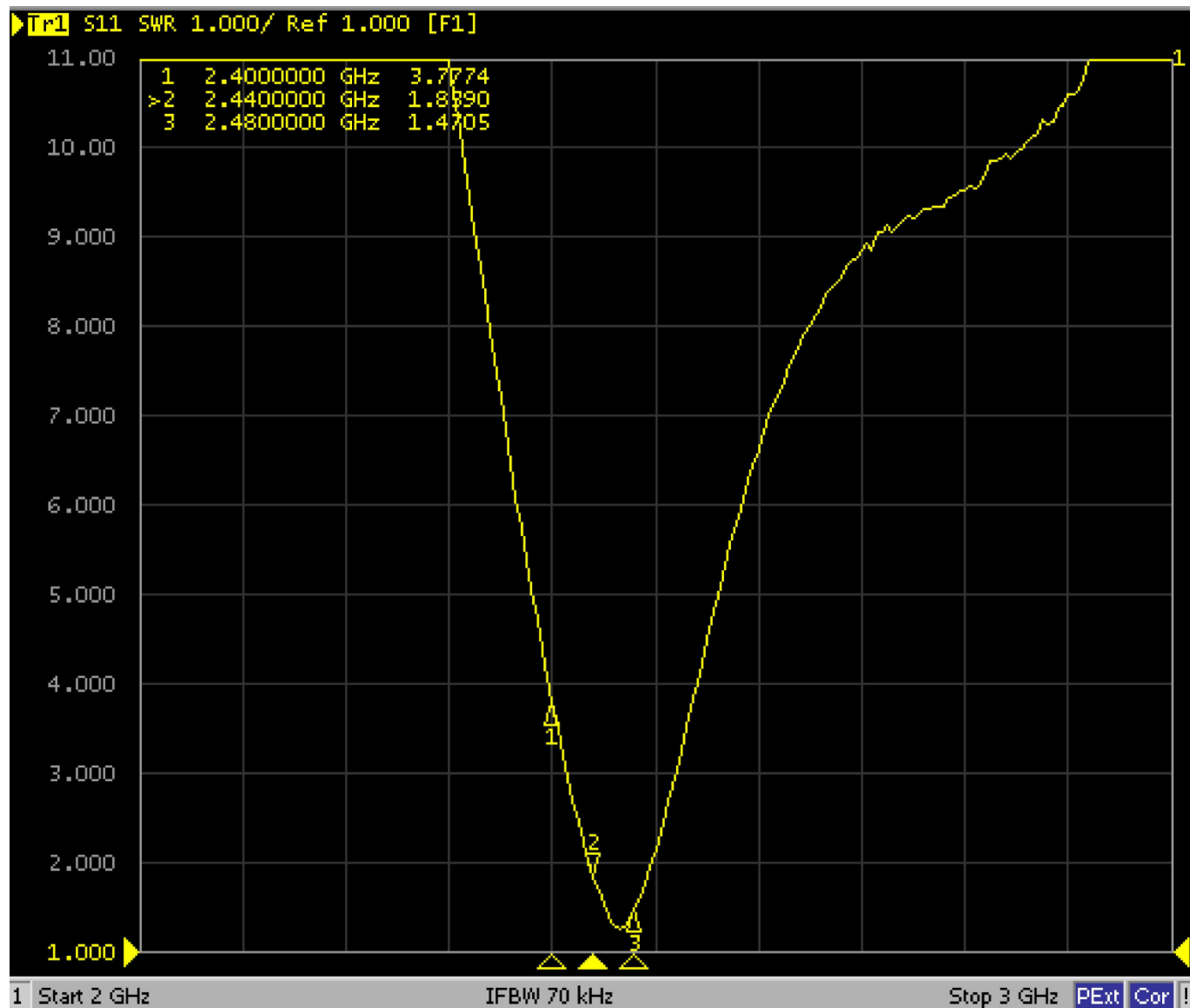
Frequency Hopping Method: AFH

| 项目<br>ITEM                    | 天线规格<br>ANT SPEC                                                                                                                                                                                           |         |         |                  |         |         |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------|------------------|---------|---------|
| 天线类型<br>Antenna type          | 板载天线<br>PCB Antenna                                                                                                                                                                                        |         |         |                  |         |         |
| 中心频率<br>Center Frequency      | 水平方向<br>Horizontal                                                                                                                                                                                         |         |         | 垂直方向<br>Vertical |         |         |
|                               | 2400MHz                                                                                                                                                                                                    | 2450MHz | 2500MHz | 2400MHz          | 2450MHz | 2500MHz |
|                               | -15.76                                                                                                                                                                                                     | -13.86  | -13.28  | -12.65           | -10.77  | -10.21  |
| 最大增益<br>MAX. Gain             | -10.21dbi                                                                                                                                                                                                  |         |         |                  |         |         |
| 极化方式<br>Polarization          | linear polarization                                                                                                                                                                                        |         |         |                  |         |         |
| 平面方向图<br>Azimuth Beam Pattern | omnibearing                                                                                                                                                                                                |         |         |                  |         |         |
| 阻抗<br>Impedance               | 50Ω                                                                                                                                                                                                        |         |         |                  |         |         |
| 天线尺寸<br>Antenna Size          | 9.77*2.7<br>*0.038mm                                                                                                                                                                                       |         |         |                  |         |         |
| 生产厂商<br>Manufacture           | Shenzhen Yongcheng Antenna Technology Co., Ltd.<br>Building C, 4th Floor, Huafeng International Robot Industrial Park, Hangcheng Avenue, Xiazhi Street, Bao'an District, Shenzhen City, Guangdong Province |         |         |                  |         |         |



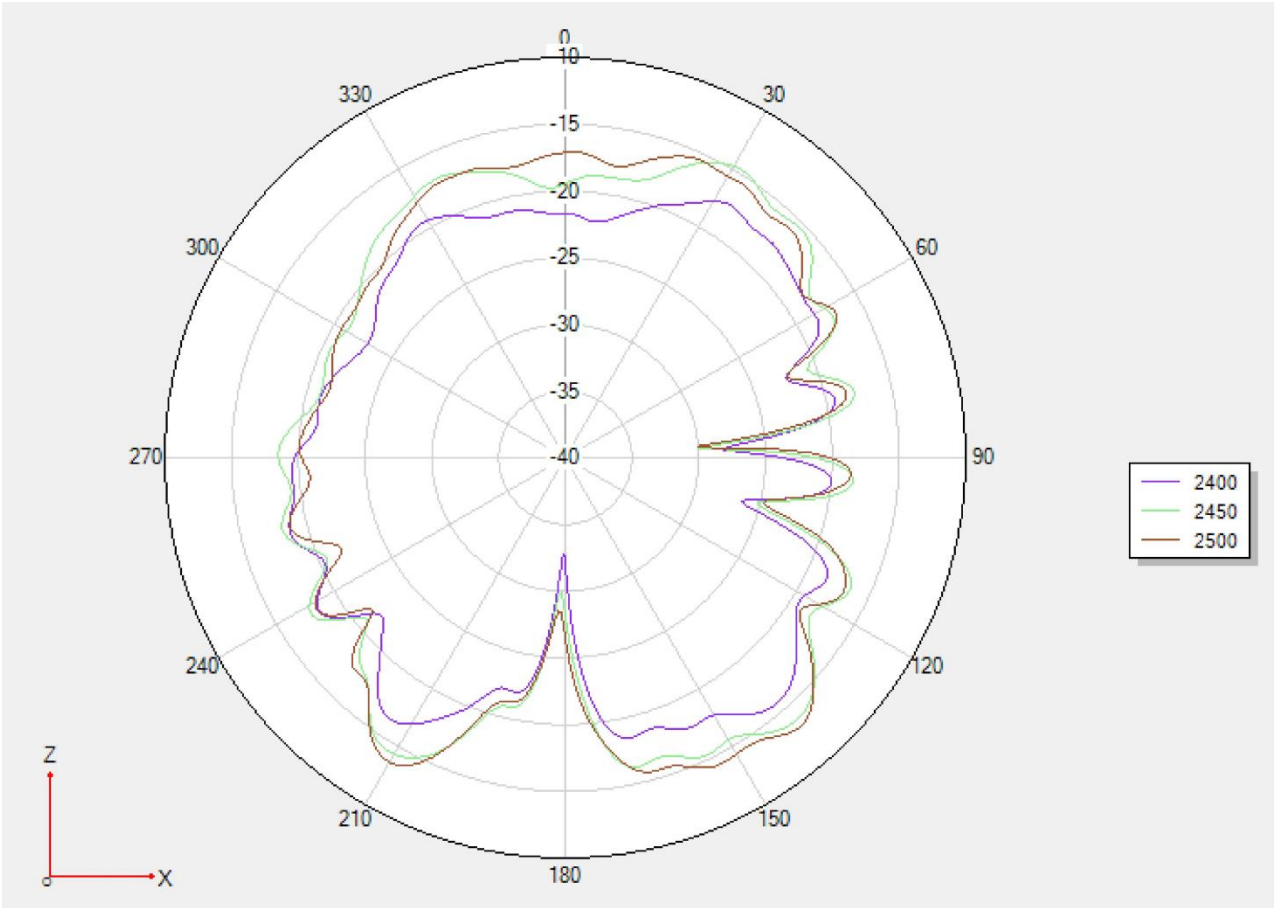
驻波比

Voltage Standing Wave



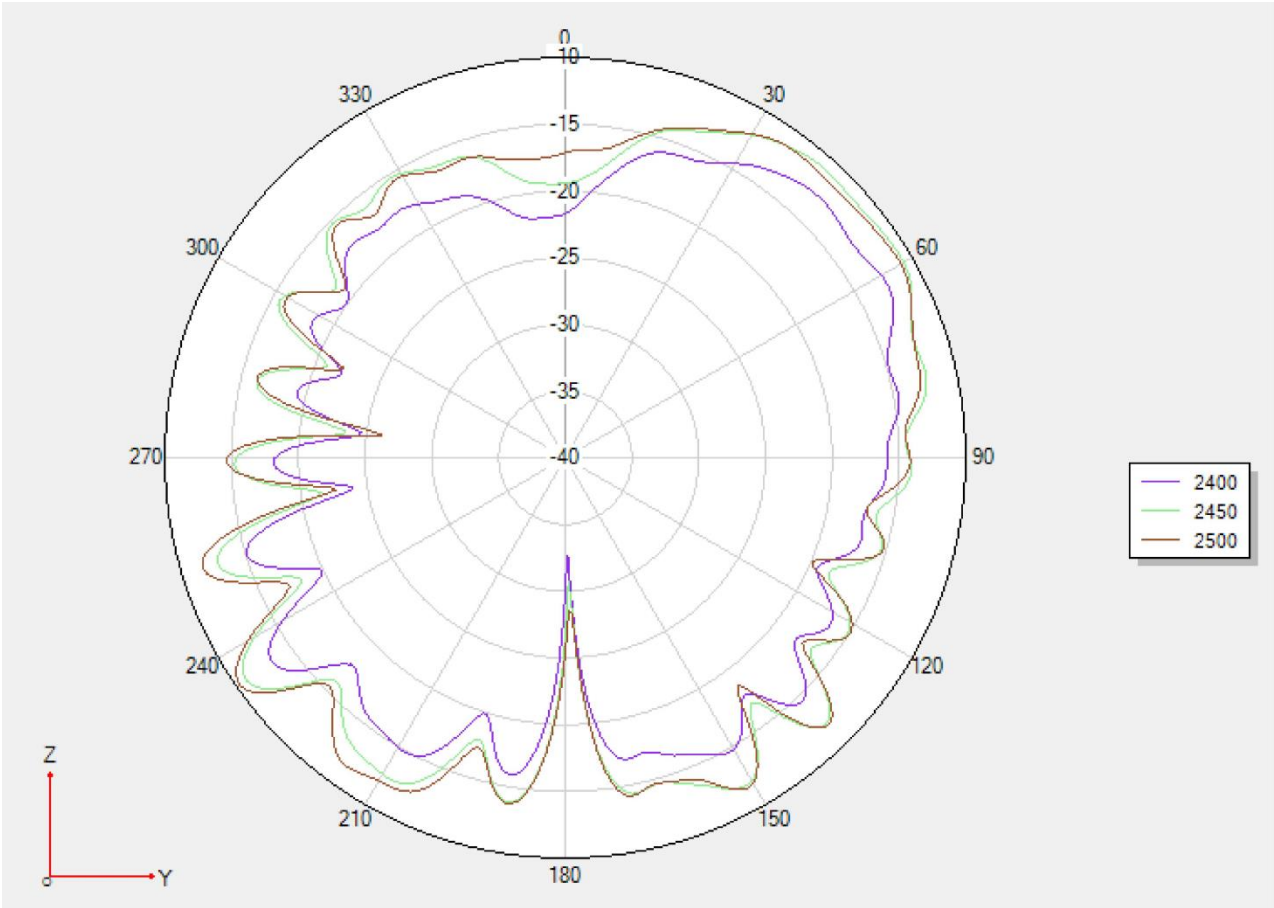
| 频率<br>Frequency (MHz) | 驻波比<br>VSWR |
|-----------------------|-------------|
| 2400                  | 3.7774      |
| 2450                  | 1.8390      |
| 2500                  | 1.4705      |

|                                 |             |     |             |     |              |           |
|---------------------------------|-------------|-----|-------------|-----|--------------|-----------|
| 水平方向:<br>Horizontal:            | 2400mhz     |     | 2450mhz     |     | 2500mhz      |           |
| 最大功率 (dBm):<br>Power (dBm) Max: | Max:<br>最大值 | -40 | Min:<br>最小值 | -10 | Scale:<br>刻度 | 5dbi/grid |



| 频率<br>Frequency<br>(MHz) | 增益Gain(dBi) |            |            |
|--------------------------|-------------|------------|------------|
|                          | 最大值<br>Max  | 最小值<br>Min | 平均值<br>Avg |
| 2400                     | -15.76      | -32.76     | -19.94     |
| 2450                     | -13.86      | -30.1      | -18.11     |
| 2500                     | -13.28      | -30.16     | -18.13     |

|                                 |             |     |             |     |              |           |
|---------------------------------|-------------|-----|-------------|-----|--------------|-----------|
| 水平方向：<br>Horizontal:            | 2400mhz     |     | 2450mhz     |     | 2500mhz      |           |
| 最大功率 (dBm):<br>Power (dBm) Max: | Max:<br>最大值 | -40 | Min:<br>最小值 | -10 | Scale:<br>刻度 | 5dbi/grid |



| 频率<br>Frequency<br>(MHz) | 增益Gain(dBi) |            |            |
|--------------------------|-------------|------------|------------|
|                          | 最大值<br>Max  | 最小值<br>Min | 平均值<br>Avg |
| 2400                     | -12.65      | -32.66     | -16.95     |
| 2450                     | -10.77      | -30.83     | -14.84     |
| 2500                     | -10.21      | -28.49     | -14.74     |