



SPECIFICATION FOR APPROVAL

Customer name: BeiNaiTe

Product name: 2.4G copper tube antenna

Customer Part Number: _____

Manufacturers of Material: SFANTR316001

Deliver quantity: 5PCS

| Mark | Check | Examine and approve | Datelanded |
|------|-------|---------------------|------------|
| Biao | Lisen | Amy | 2022.09.05 |

That Customers:

| Acknowledge | Check | Examine and approve | Datelanded |
|-------------|-------|---------------------|------------|
| | | | |

Admit that situation: new product product shanges

Admit that project: acknowledgement soecimen 10PCS

Admit that conclusion: reception refuse

Company address : Floor 3, Building D, No.96 Lingxia Road, Fuyong Fenghuang Fourth Industrial Zone, Baoan District, Shenzhen

Phone number: 0755-33881455

Fax NO.: 0755-33233276

Email: liqinghui@sufeitech.com

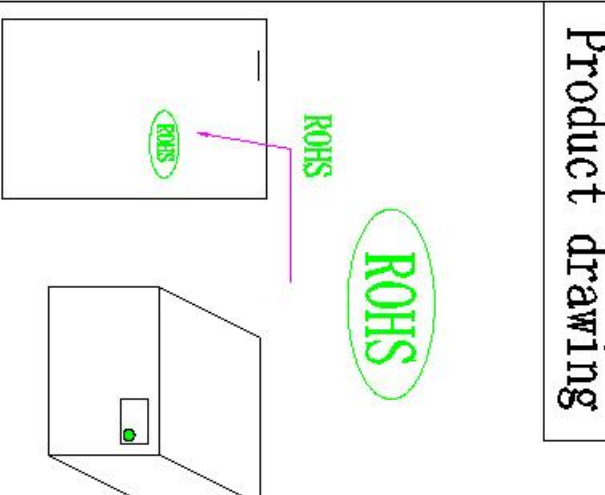
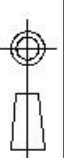
Main technical parameters of the product

| Main technical specifications | |
|---------------------------------------|--|
| Frequency Range(MHZ) | 2400-2500 |
| Gain (dBi) | 1.85 dBi |
| Impedance(Ω) | 50\pm10 |
| ReTurnLoss(dB) | \leq-10 |
| VSWR | \leq2 |
| Admitted Power | 1W |
| Polarization | Linear Vertical |
| Connector Type | Weld |
| Physical Properties | |
| Antenna Base | Copper |
| Operating Temp | -20$^{\circ}$C-+60$^{\circ}$C |
| Storage Temp | -20$^{\circ}$C-+70$^{\circ}$C |

List of raw materials:

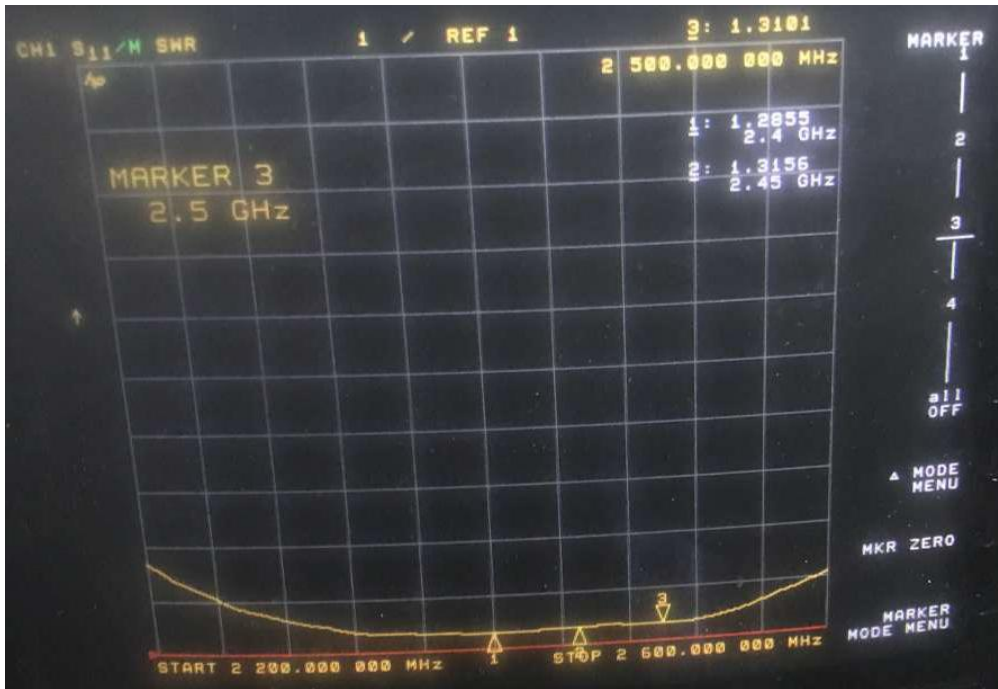
| Serial number | Name | Texture | Quantity | Unit | Remark |
|---------------|----------|----------|----------|------|--------|
| 1 | Wire rod | 316 wire | 1 | PCS | |

Product drawing

| Product drawing | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|-----------|---------|--|---------|---|--|--------|--|---|--------|--|---|---|--|--|--|---|--|--|--|---|-------|----------|---|----|-------------|-----|--------|
|  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Specification:</p> <p>Frequency Rang: 2400-2500MHZ</p> <p>Return Loss: -10DB or less</p> <p>VSWR: 1.92 Max</p> <p>gain: 2.0 dbi</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <tr> <td>6</td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td></td> <td></td> <td></td> </tr> <tr> <td>1</td> <td>Cable</td> <td>316 wire</td> <td>1</td> </tr> <tr> <td>NO</td> <td>DESCRIPTION</td> <td>QTY</td> <td>REMARK</td> </tr> </table> | | 6 | | | | 5 | | | | 4 | | | | 3 | | | | 2 | | | | 1 | Cable | 316 wire | 1 | NO | DESCRIPTION | QTY | REMARK |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Cable | 316 wire | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NO | DESCRIPTION | QTY | REMARK | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>TITLE: 2.4G copper tube antenna</p> <p>P/N</p> <p>CUSTOMER:</p> <p>DRAW NO.: SPANTR316001</p> <p>DIMENSIONS TOLERANCES UNLESS OTHERWISE NOTED</p> <table border="1"> <tr> <td>TOLERANCE</td> <td>XXX ±0.05</td> <td>XX ±1.0</td> </tr> <tr> <td></td> <td>XX ±0.1</td> <td></td> </tr> <tr> <td></td> <td>X ±0.2</td> <td></td> </tr> <tr> <td></td> <td>X ±0.5</td> <td></td> </tr> </table> | TOLERANCE | XXX ±0.05 | XX ±1.0 | | XX ±0.1 | | | X ±0.2 | | | X ±0.5 | | <p>ShenZhen XinErSheng Technology Co.,Ltd</p>  <p> APPROVED CHECKED DRAWN </p> | | | | | | | | | | | | | | | | |
| TOLERANCE | XXX ±0.05 | XX ±1.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | XX ±0.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | X ±0.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | X ±0.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>SHEET: 1/1</p> <p>UNIT: MM</p> <p>SCALE: 1/1</p> <p>REV. A</p> | <p>APPROVED</p> <p>CHECKED</p> <p>DRAWN</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Network analyzer test report:

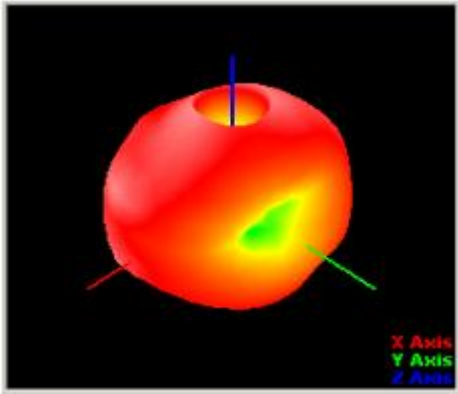
1. SWR:



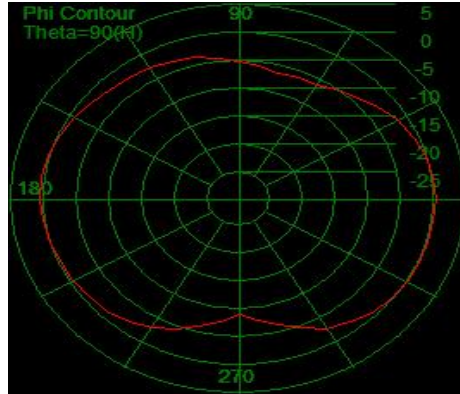
2. return loss



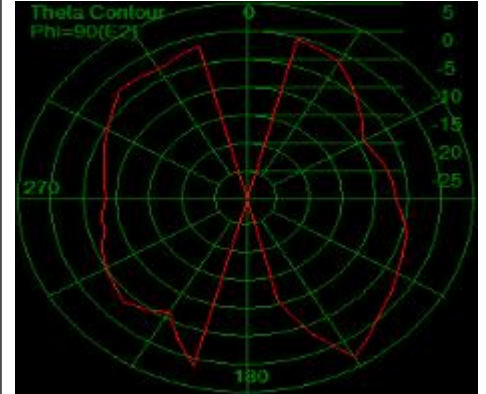
2D、3DRaditation Pattern



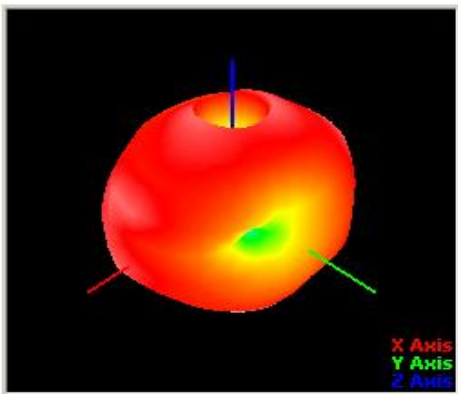
2.4G



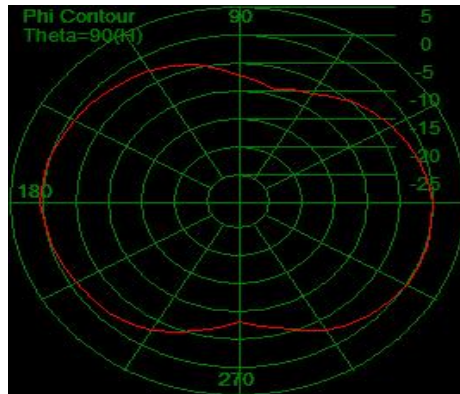
Gain(Peak):1.76dBi



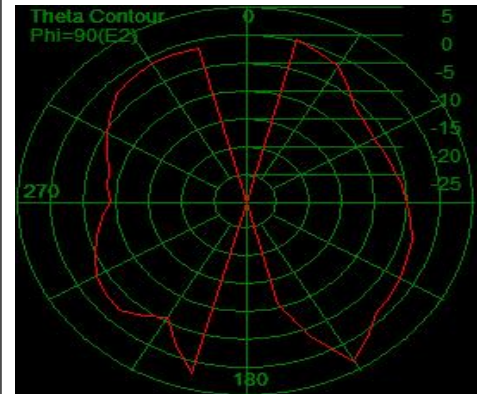
Efficiency:51.2%



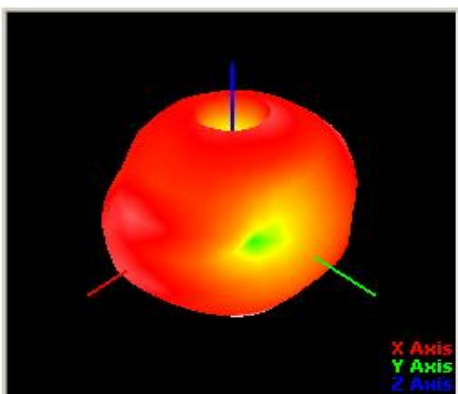
2.45G



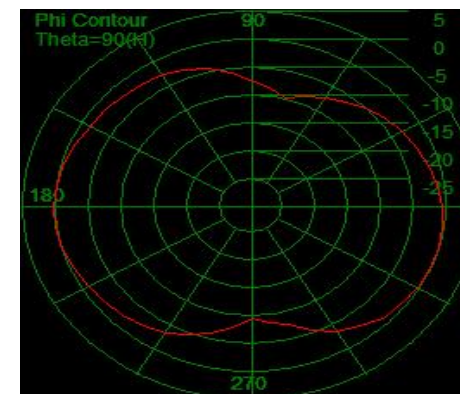
Gain(Peak):1.85dBi



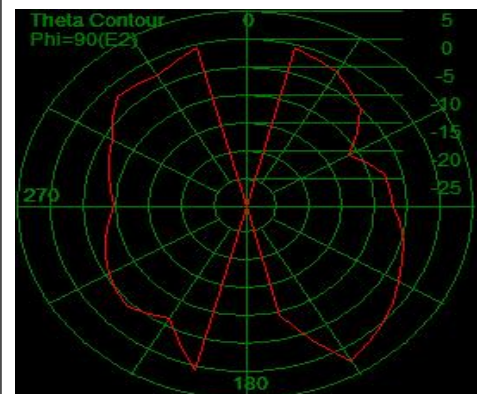
Efficiency:53.1%



2.5G



Gain(Peak):1.81dBi



Efficiency:52.7%