



# Antenna Specification

版本: V1.0

|                                                                                               |                                                                            |                      |                                    |
|-----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------|------------------------------------|
| 制造商:深圳市中天迅通信技术股份有限公司<br>manufacturer:Shenzhen Zhongtianxun Communication Technology Co., Ltd. |                                                                            |                      |                                    |
| 射频<br>RF                                                                                      | 王宁wangning 17827623394                                                     | 结构<br>MD             |                                    |
| 审核<br>Checked                                                                                 | 黄烈云huanglieyun 136<br>1302 2071                                            | 业务<br>Business       | 叶 航 yehang 138 7415<br>1221        |
| 公司地址<br>Add.:                                                                                 | 深圳市宝安石岩石龙大道34号<br>NO.34 Shilong Road, Bao'an District, Shenzhen, Guangdong |                      |                                    |
| 项目信息<br>Project Message                                                                       |                                                                            |                      |                                    |
| 天线型号<br>Antenna Model                                                                         | A1790                                                                      |                      |                                    |
| 天线类型<br>Antenna Type                                                                          | FPC+Cable                                                                  | 天线尺寸<br>Antenna Size | FPC:34.54mm*13.3mm,<br>Cable:120mm |
| 天线制式<br>Antenna System                                                                        | wifi/BLE                                                                   | 日期<br>Date           | 2023.10.12                         |
|                                                                                               |                                                                            |                      |                                    |

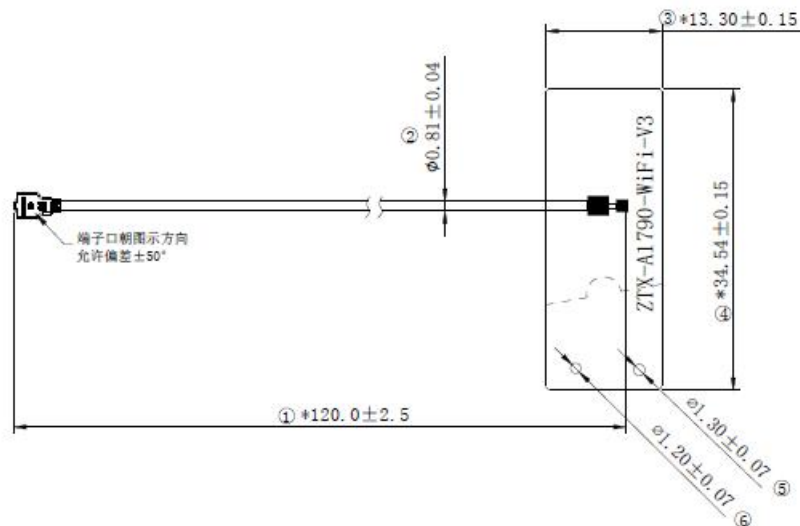
Add:深圳市宝安区石岩街道石龙大道34号

Add: NO.34 Shilong Road, Bao'an District, Shenzhen, Guangdong

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# 天线尺寸 Antenna Size

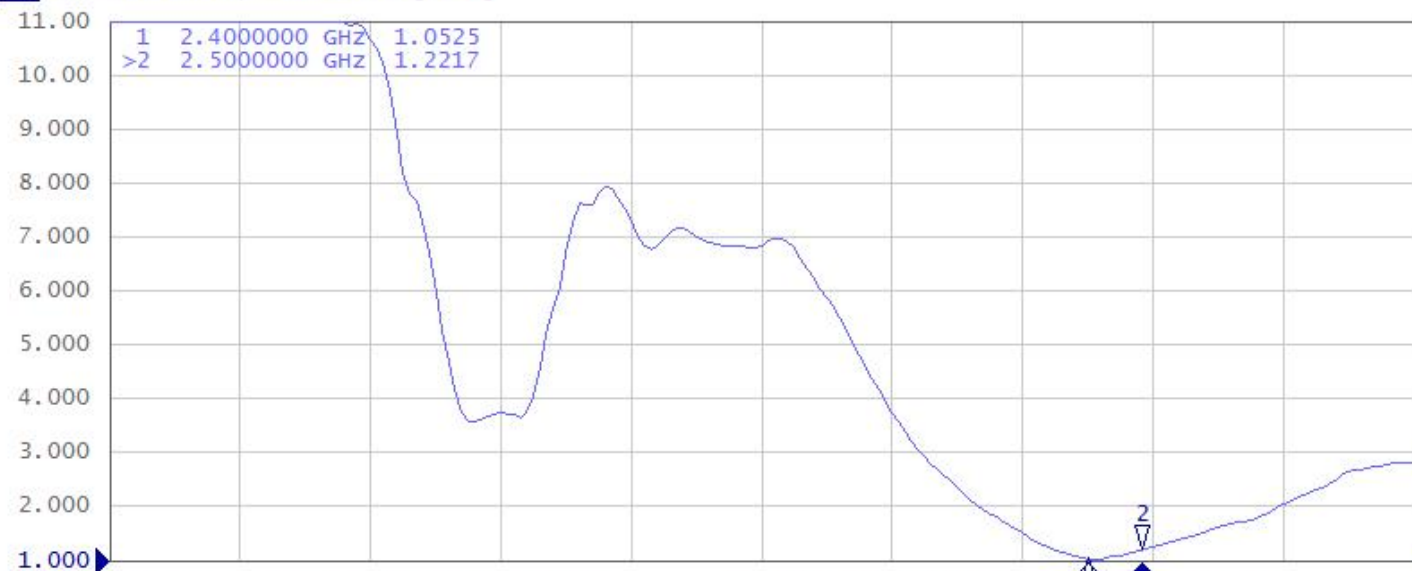


| Rev<br>版本 | Description<br>描述 | Designed<br>制图 | Date<br>日期 |
|-----------|-------------------|----------------|------------|
| A1        | 首次发行              | 陈正伟            | 2023.09.19 |

| ZTX 深圳市中天迅通信技术有限公司<br>Shenzhen ZHONGTIANXUN Communication Technology Co., Ltd. |       |                        |                |                 |                     |                                     |  |
|--------------------------------------------------------------------------------|-------|------------------------|----------------|-----------------|---------------------|-------------------------------------|--|
| General Tolerance                                                              |       | Date<br>日期: 2023.09.19 | Unit<br>单位: mm | Rev<br>版本: A1   | Scale<br>比例: 1:1    | Project Name<br>项目名称: A1790         |  |
| Dim                                                                            | Grade | A                      | B              | Designed<br>设计: | Material<br>材料:     | Product Name<br>产品名称: WiFi-天线组件     |  |
| 0-10                                                                           |       | $\pm 0.10$             | $\pm 0.20$     | Checked<br>审核:  | Process<br>工艺:      | Material Code<br>物料编码:              |  |
| 10-20                                                                          |       | $\pm 0.15$             | $\pm 0.30$     |                 |                     |                                     |  |
| 20-40                                                                          |       | $\pm 0.20$             | $\pm 0.40$     | Approval<br>批准: | Third Angle<br>第三视角 | Drawing Name<br>图纸编号: ZTX-QR-RD-013 |  |
| 40                                                                             |       | $\pm 0.25$             | $\pm 0.50$     |                 |                     |                                     |  |

# 天线 Antenna (LOGMAG+VSWR+SMITH)

Tr1 S22 SWR 1.000/ Ref 1.000 [F1 M]

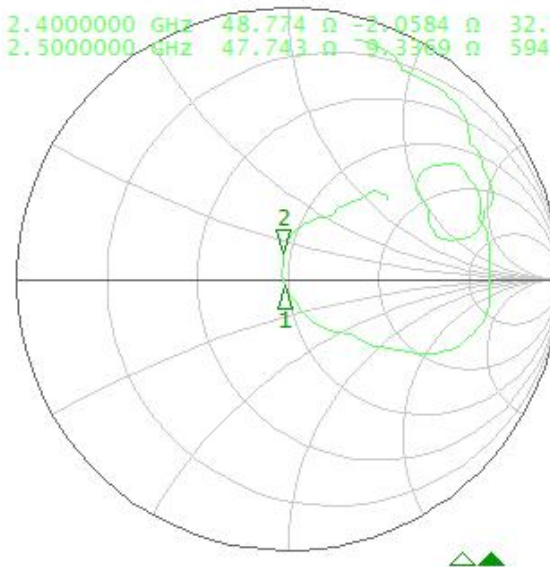


Tr2 S22 Log Mag 5.000dB/ Ref 0.000dB [F1 M]



Tr3 S22 Smith (R+jX) scale 1.000u [F1 M]

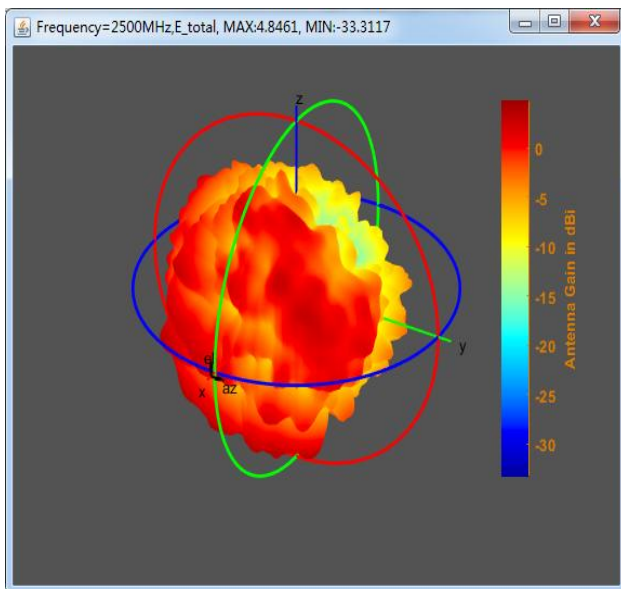
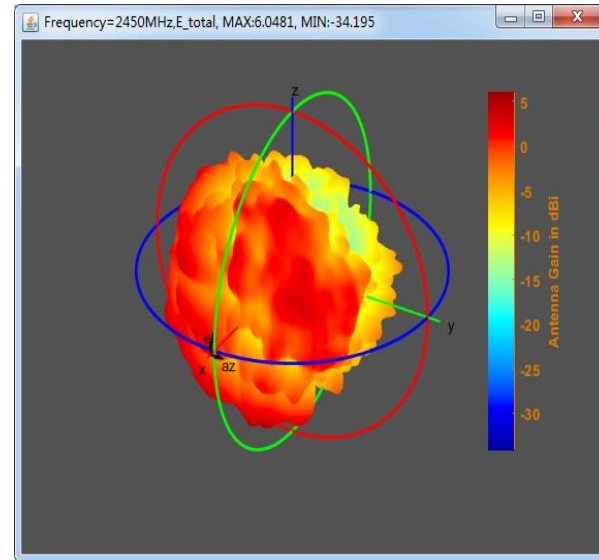
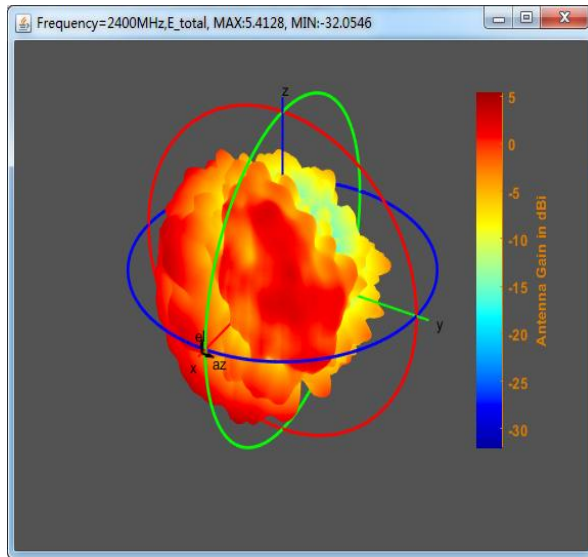
| Trace | Frequency (GHz) | R (ohms) | X (ohms) | Cap (pF) | Ind (pH) |
|-------|-----------------|----------|----------|----------|----------|
| 1     | 2.4000000       | 48.774   | -2.0584  | 32.217   |          |
| >2    | 2.5000000       | 47.743   | -9.3369  | 594.40   |          |



# 天线效率及增益 Antenna Efficiency And Gain

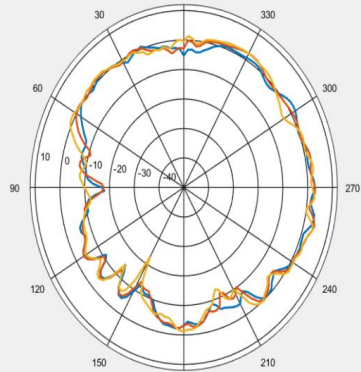
| Passive Test For 2400MHz~2500MHz |      |      |       |  |
|----------------------------------|------|------|-------|--|
| Freq                             | Effi | Effi | Gain  |  |
| (MHz)                            | (%)  | (dB) | (dBi) |  |
| 2400                             | 65%  | -1.9 | 2.4   |  |
| 2410                             | 64%  | -1.9 | 2.4   |  |
| 2420                             | 65%  | -1.9 | 2.7   |  |
| 2430                             | 65%  | -1.9 | 2.9   |  |
| 2440                             | 65%  | -1.9 | 3.1   |  |
| 2450                             | 65%  | -1.9 | 3     |  |
| 2460                             | 65%  | -1.9 | 3     |  |
| 2470                             | 64%  | -1.9 | 2.8   |  |
| 2480                             | 63%  | -2.0 | 2.5   |  |
| 2490                             | 63%  | -2.0 | 2.1   |  |
| 2500                             | 63%  | -2.0 | 1.8   |  |
|                                  |      |      |       |  |
|                                  |      |      |       |  |
|                                  |      |      |       |  |
|                                  |      |      |       |  |
|                                  |      |      |       |  |

## Radiation Pattern For Antenna (2450MHz)



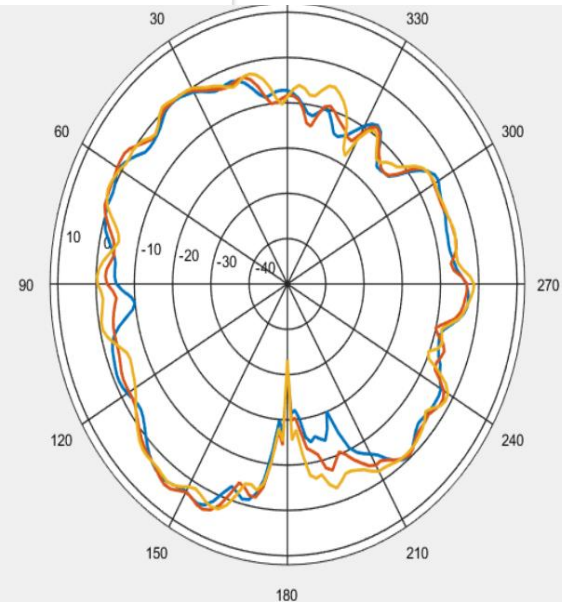
# 方向图 Direction Diagram

XOY

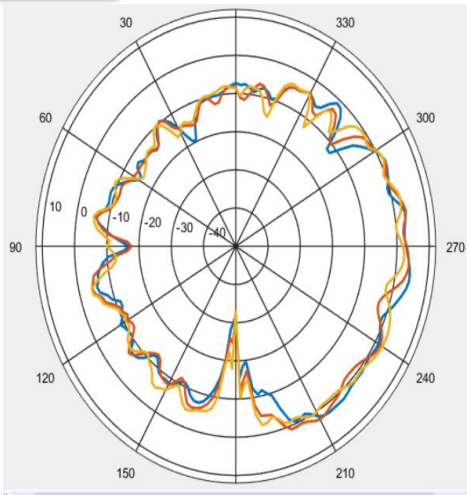


MIN:-21.13

XOZ



YOZ



## 天线位置 Antenna Position

