

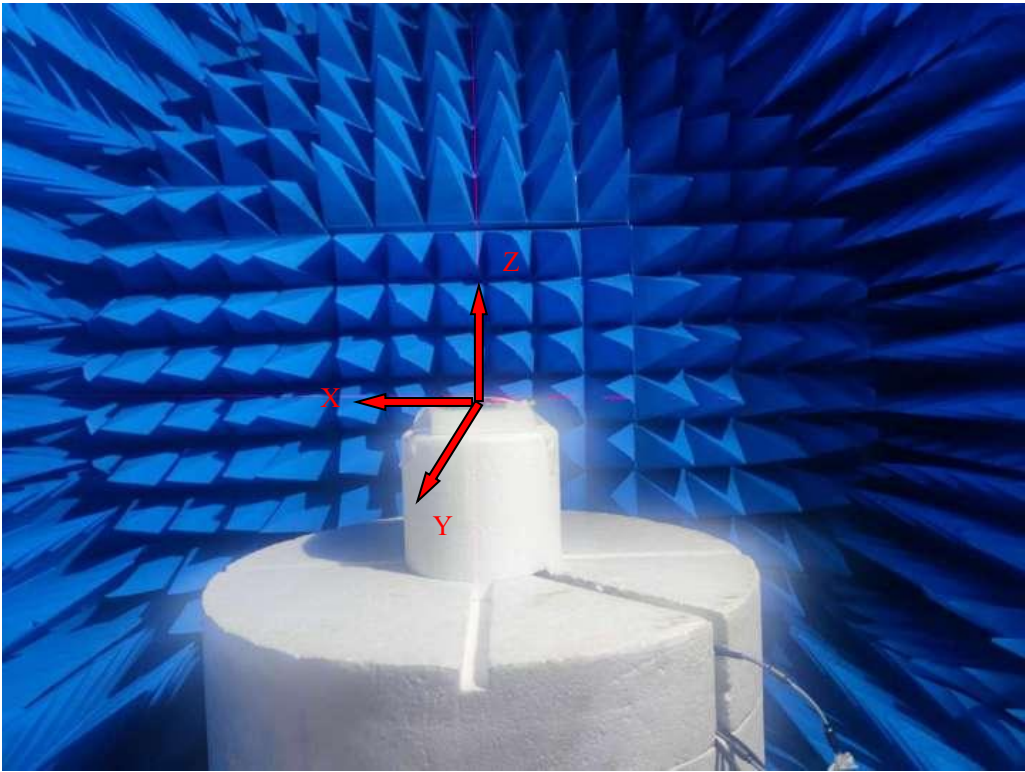
Antenna\_Specification

Manufacturer: Yongkang Saihan Technology Co.,Ltd

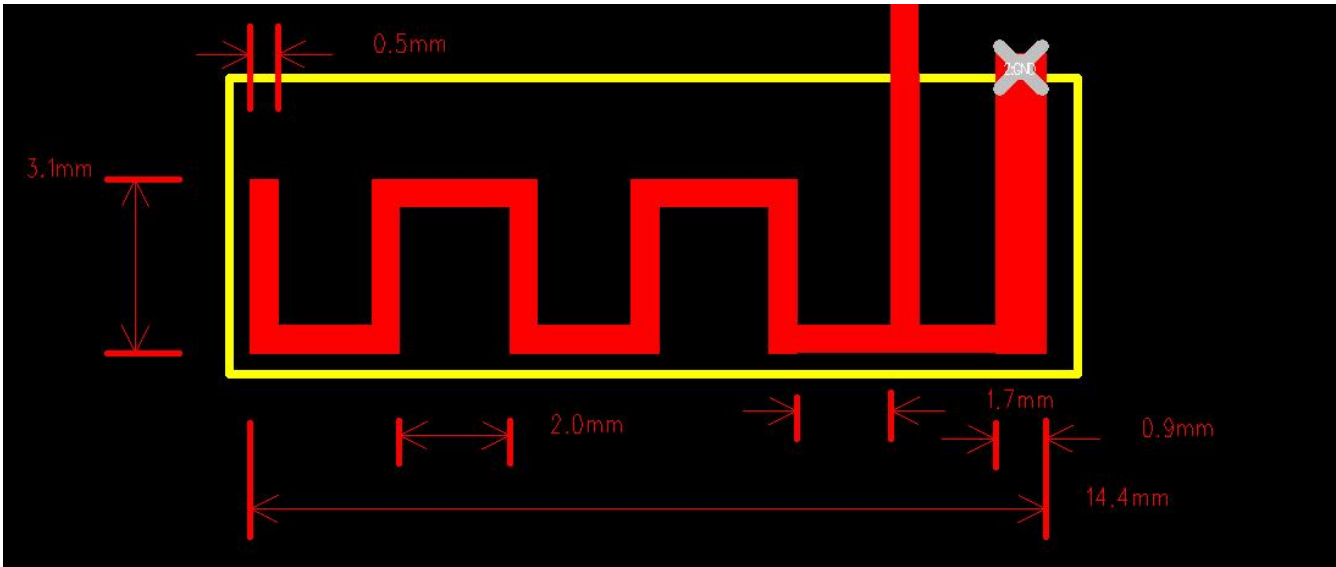
Model: CS-WP6

| SPECIFICATIONS     |                                     |
|--------------------|-------------------------------------|
| Frequency (MHz)    | 2400-2480                           |
| Peak Gain (dBi)    | 4.015                               |
| Average Gain (dBi) | >-4                                 |
| VSWR               | <1.6                                |
| Impedance (Ω)      | 50Ω                                 |
| Antenna Type       | Plannar Inverted F Antenna on board |
| Polarization       | Linear                              |

Test environment

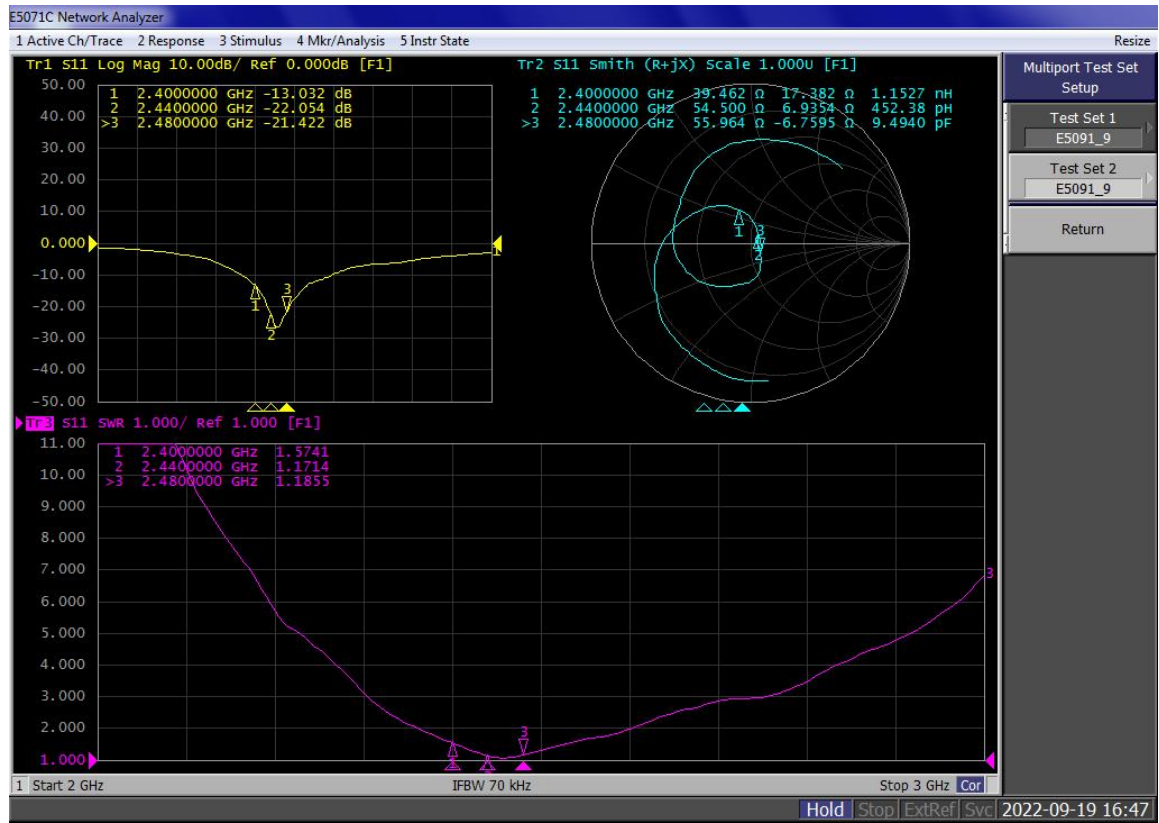


Antenna dimensions



Passive S parameter of antenna:

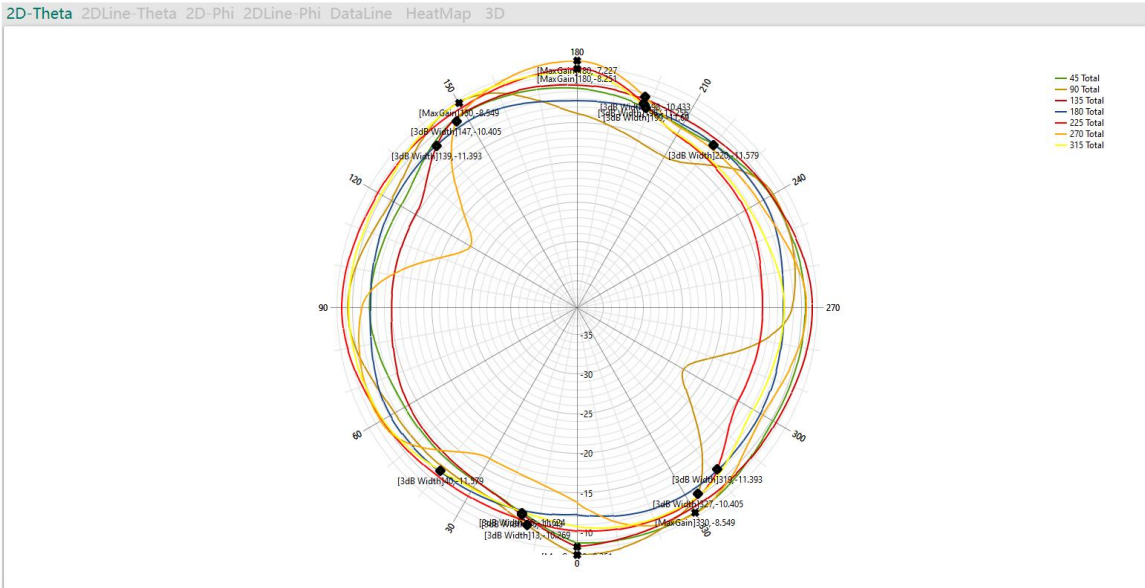
驻波比 (VSWR)、回波损耗 (Return Loss) And Smith circle



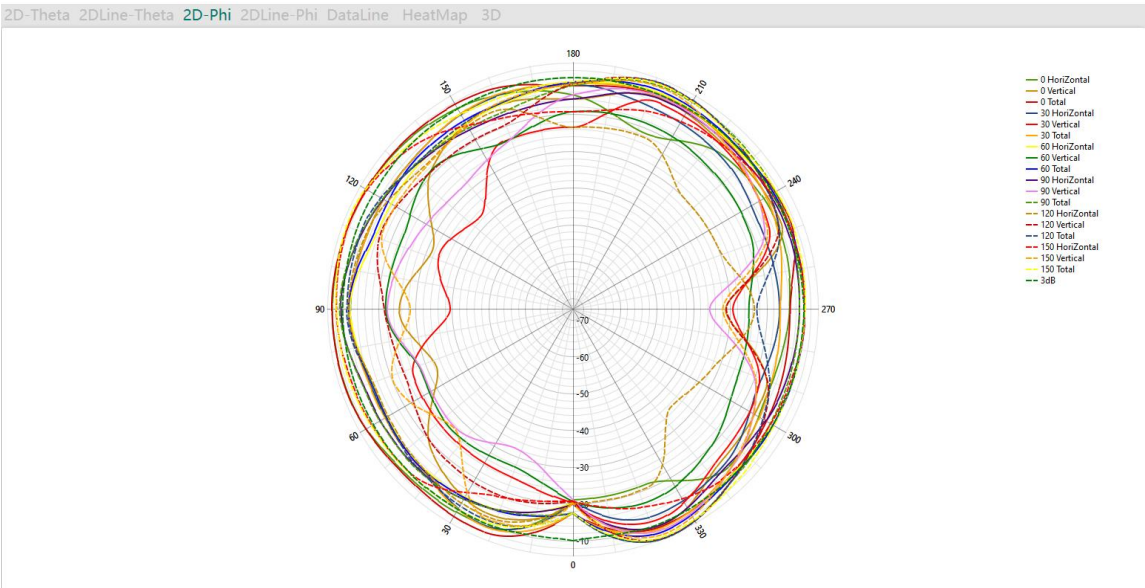
Antenna efficiency and gain

| Frequency (MHz) | Gain (dBi) | Efficiency (%) | AverageGain (dBi) | Efficiency (dB) |
|-----------------|------------|----------------|-------------------|-----------------|
| 2400            | 0.664      | 54.12%         | -3.155            | -2.666          |
| 2410            | 0.568      | 49.63%         | -3.781            | -3.043          |
| 2420            | 0.262      | 46.10%         | -3.949            | -3.363          |
| 2430            | 0.696      | 48.69%         | -3.679            | -3.126          |
| 2440            | 1.144      | 48.47%         | -3.738            | -3.145          |
| 2450            | 1.59       | 51.42%         | -3.288            | -2.889          |
| 2460            | 2.297      | 55.46%         | -2.914            | -2.561          |
| 2470            | 3.25       | 62.98%         | -2.21             | -2.008          |
| 2480            | 4.015      | 71.61%         | -1.617            | -1.45           |
| Average         | 1.610      | 54.28%         | -3.148            | -2.695          |
| Peak            | 4.015      | 71.61%         | -1.617            | -1.45           |

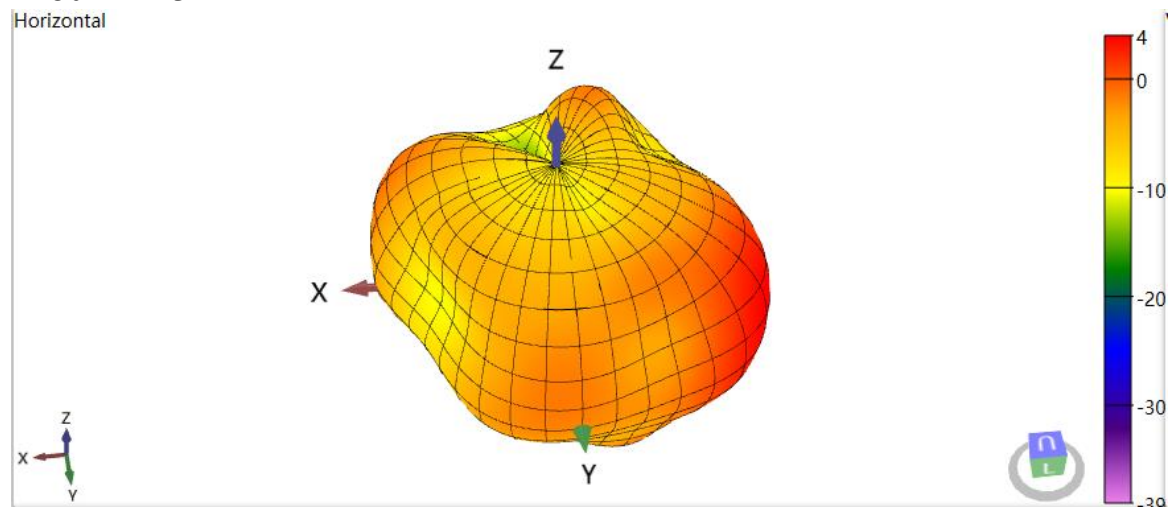
# 2480MHz 2D-Theta Pattern



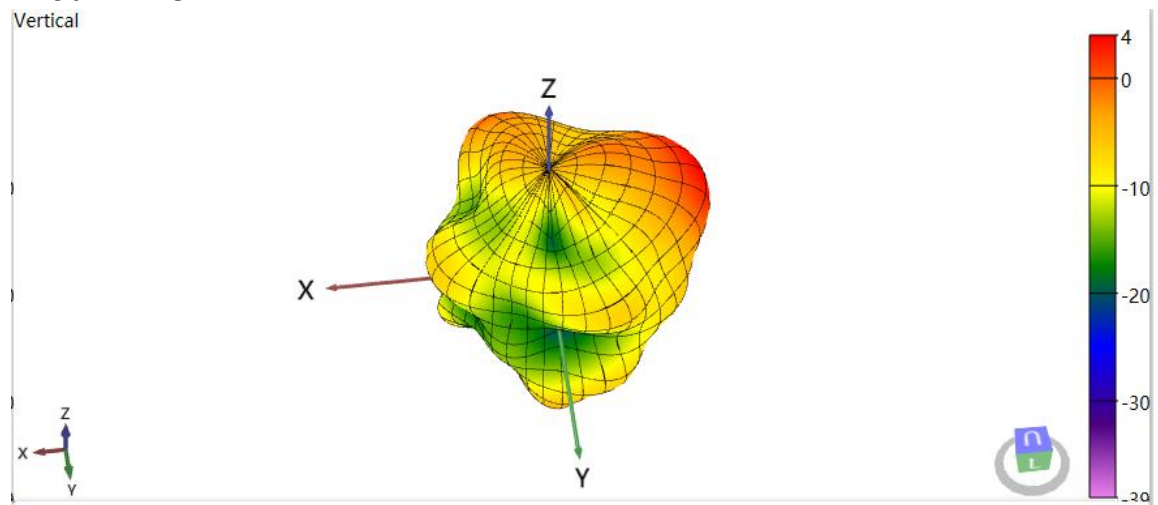
# 2480MHz 2D-Phi Pattern



## 2480MHz 3D-Horizontal Pattern



## 2480MHz 3D-Vertical Pattern



# 2480MHz 3D-Total Pattern

