

SPECIFICATION

Shenzhen Feixin Wireless Communication Co., Ltd.

2.4G/5.8 FPC antenna  
Product specification

|                    |          |           |                                |
|--------------------|----------|-----------|--------------------------------|
| Customer           |          | Frequency | 2400——2500MHz<br>5150——5835MHZ |
| R F design         | XIAO BIN | Version   |                                |
| Technical director | ANDY     | date      | 2026-04-20                     |

Customer confirmation:

Whether the assembly meets your company's requirements: ☐OK ☐NG

## Directory

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## 1、Product pictures



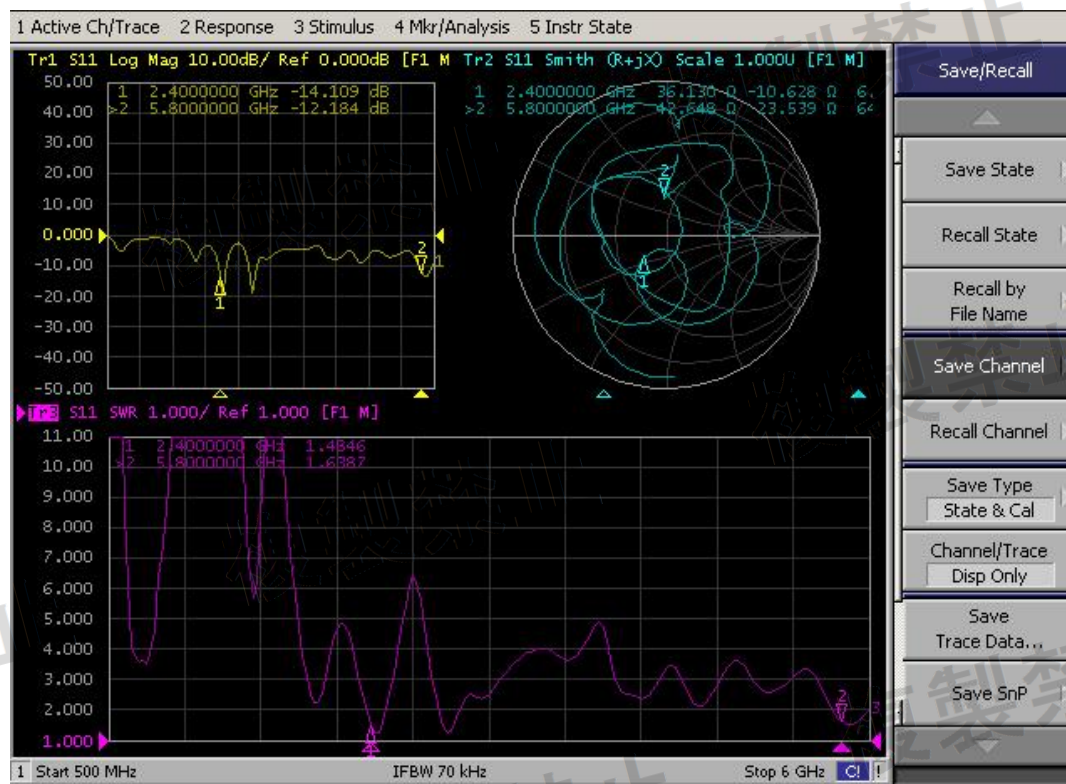
## 2、Product parameters

| Product testing parameters            |                                    |                          |                                    |
|---------------------------------------|------------------------------------|--------------------------|------------------------------------|
| 产品名称(Name)                            | 2.4G WIFI                          | 产品型号(Model Type)         | FX-PD2516-P2-WIFI-A-1.13B-220-4    |
| 电 性 能 指 标 (Electrical Specifications) |                                    |                          |                                    |
| 频率范围 (Frequency Range)                | 2400-2500MHZ<br>5200-5800MHZ       | 极化方式 (Polarization)      | vertical                           |
| 输入阻抗(Impedance)                       | 50 $\Omega$                        | 辐射方向                     | Omnidirectional                    |
| 驻波比 (VSWR)                            | $\leq 3.0$                         | 功率容量(Power)              | 5W                                 |
| 增益(Gain)                              | 1.45/3.43 dBi                      | 带宽 (Bandwidth)           | 100/600 MHz                        |
| 机 械 指 标 (Mechanical Specifications)   |                                    |                          |                                    |
| 尺寸 (Dimensions)                       | 52.50*11.18 $\pm$ 0.15mm           | 外壳颜色(ANT Color)          | black                              |
| 连接器型号 (Connector)                     | IPEX 4 代                           | 引线长度(Cable Length)       | 220 $\pm$ 3 mm                     |
| 外壳材料 Radome Material                  | FPC                                |                          |                                    |
| 工作温度 (Working Temperature)            | -40 $^{\circ}$ C--+85 $^{\circ}$ C | 存放温度 (Limit Temperature) | -40 $^{\circ}$ C--+85 $^{\circ}$ C |

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### 3. VSWR, Return loss and Smith data



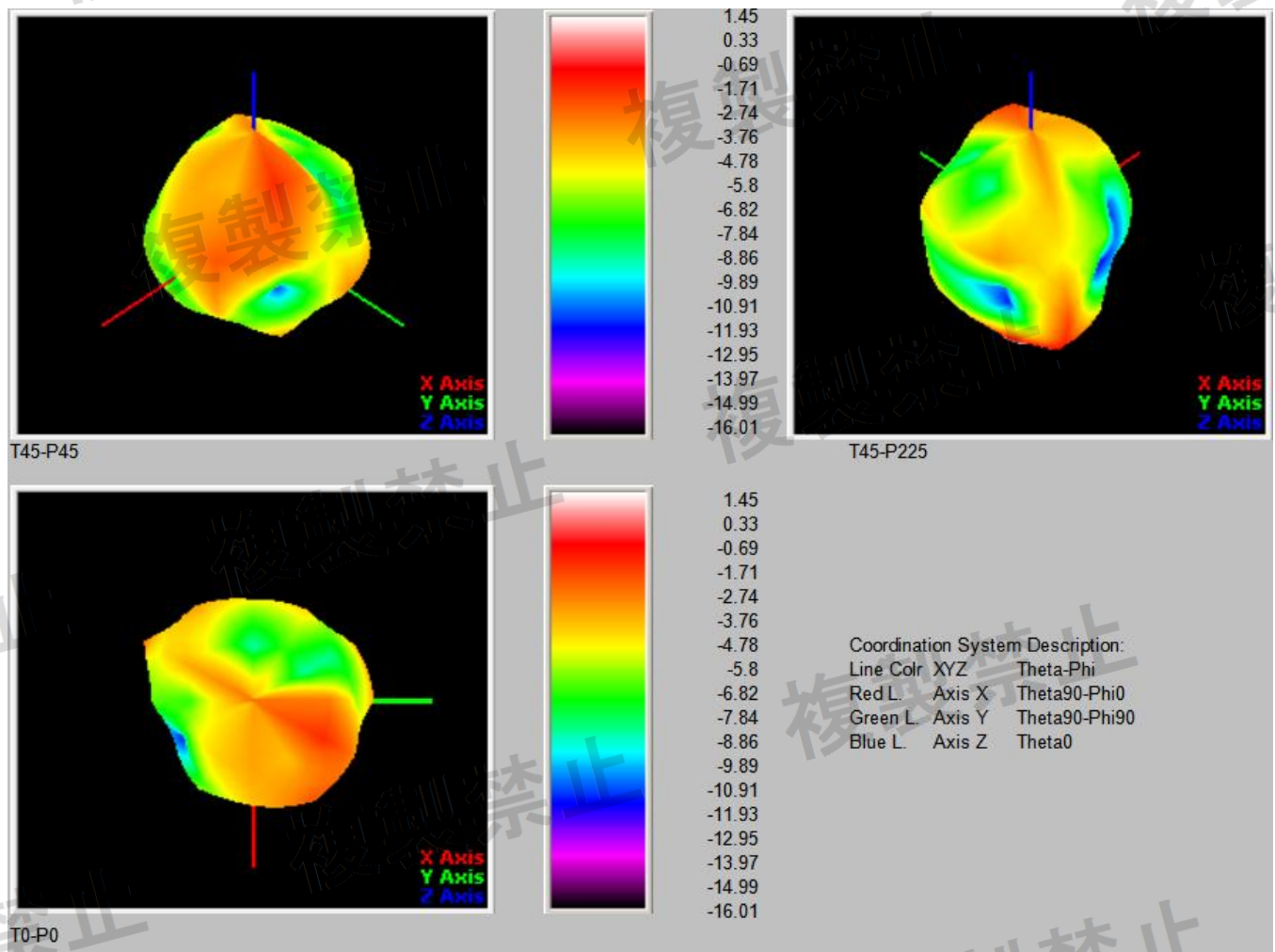
### 4、Antenna test data (gain, efficiency, apple chart)

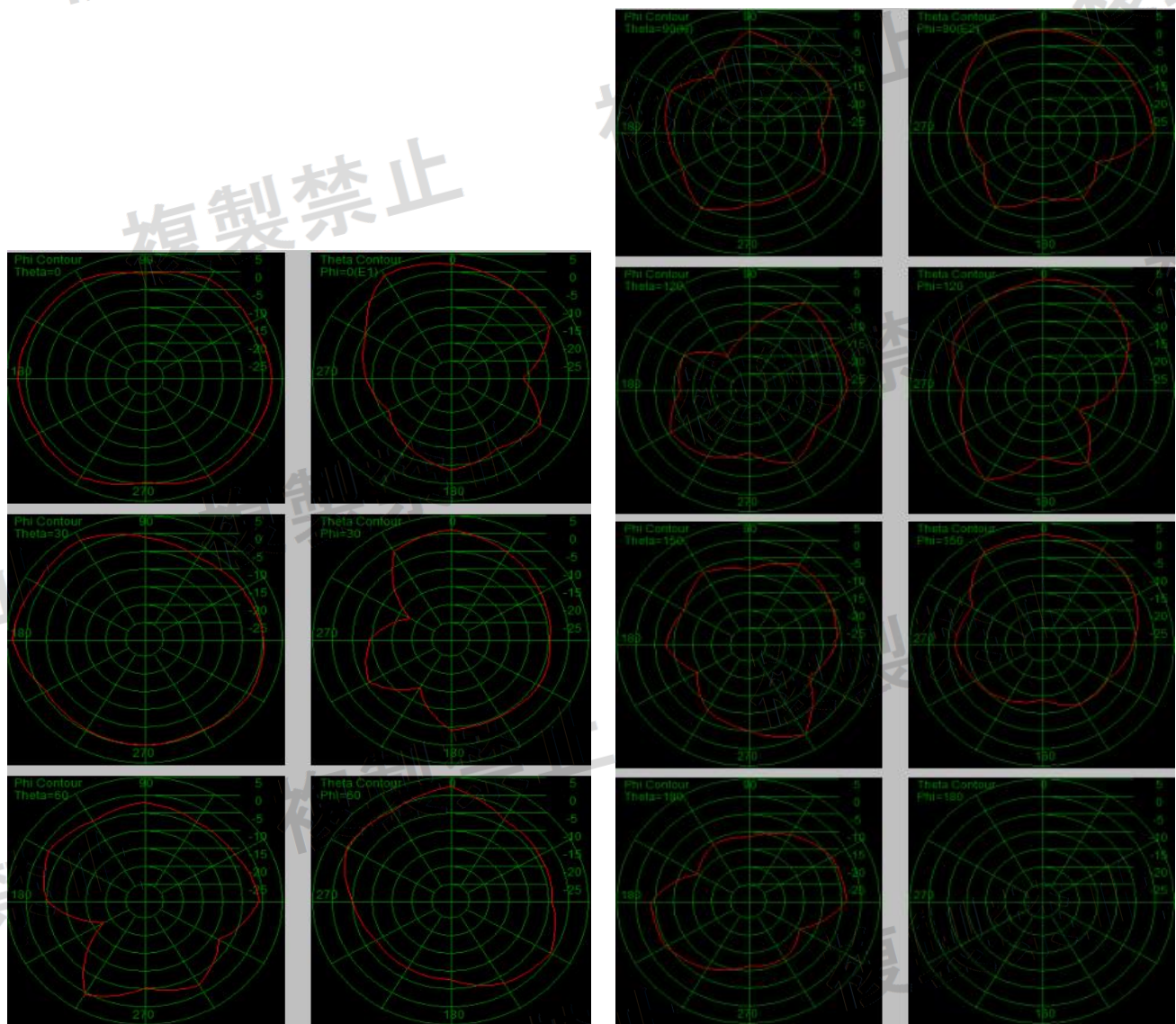
| 频率 (MHz) | 增益 (Gain) | 效率 (%) |
|----------|-----------|--------|
| 2400     | 1.22      | 25.90% |
| 2410     | 0.74      | 21.90% |
| 2420     | 1.45      | 24.40% |
| 2430     | 1.09      | 22.00% |
| 2440     | 1.26      | 23.00% |
| 2450     | 1.4       | 23.40% |
| 2460     | 1.31      | 22.60% |
| 2470     | 1.34      | 22.10% |
| 2480     | 0.64      | 22.60% |
| 2490     | 1.17      | 20.90% |
| 2500     | 0.63      | 20.70% |
| 5200     | 1         | 26.50% |
| 5220     | 1.42      | 25.60% |
| 5240     | 1.97      | 26.10% |
| 5260     | 1.28      | 26.40% |
| 5280     | 0.92      | 28.80% |
| 5300     | 0.83      | 29.10% |
| 5320     | 0.92      | 29.50% |
| 5340     | 1.27      | 30.20% |
| 5360     | 1.36      | 30.80% |
| 5380     | 1.67      | 31.20% |
| 5400     | 1.74      | 28.50% |
| 5420     | 2.3       | 29.60% |
| 5440     | 2.63      | 29.80% |
| 5460     | 1.87      | 24.20% |
| 5480     | 2.1       | 32.90% |
| 5500     | 1.56      | 27.00% |
| 5520     | 2.15      | 24.70% |
| 5540     | 0.73      | 22.60% |
| 5560     | 0.78      | 23.30% |
| 5580     | 2.43      | 24.40% |
| 5600     | 0.42      | 22.60% |
| 5620     | 1.37      | 24.10% |
| 5640     | 1.07      | 26.60% |
| 5660     | 1.72      | 28.40% |
| 5680     | 2.28      | 30.80% |
| 5700     | 2.14      | 37.60% |
| 5720     | 2.96      | 45.50% |
| 5740     | 2.31      | 38.80% |
| 5760     | 3.43      | 39.50% |
| 5780     | 3.33      | 39.30% |
| 5800     | 3.22      | 38.50% |

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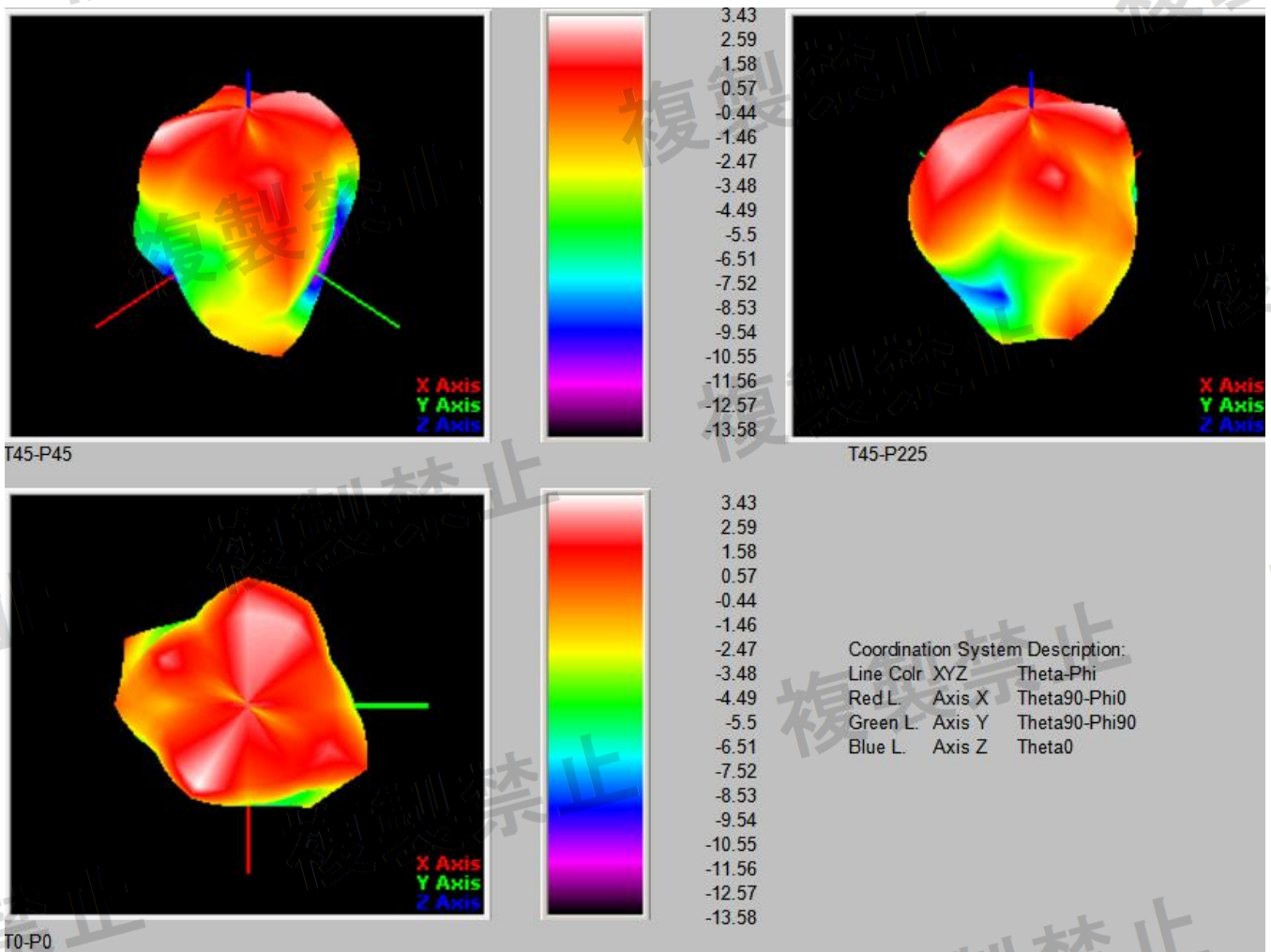
<http://www.fly-core.com>

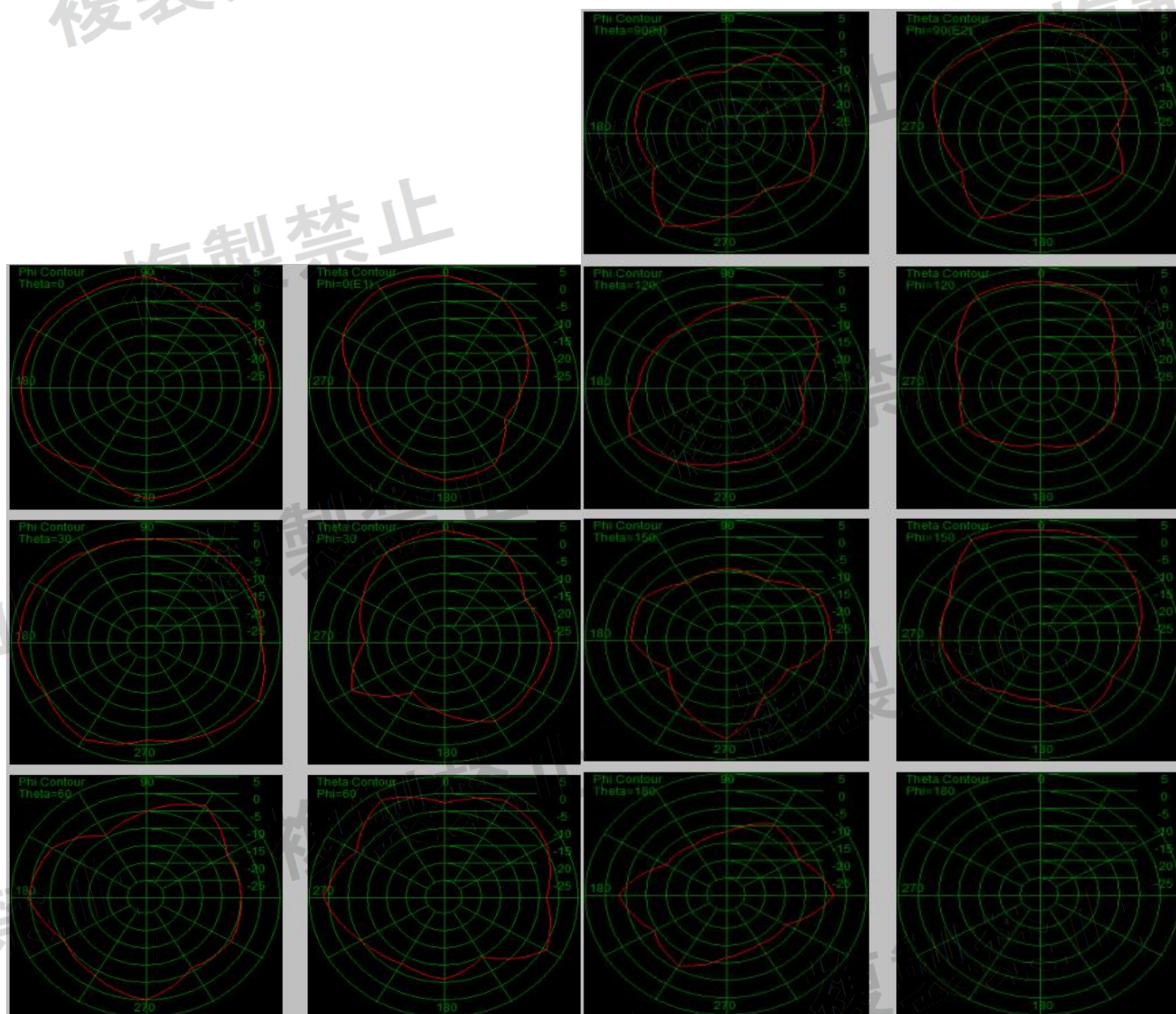
(1)Passive -Freq2420.00MHZ





(2) Passive -Freq5760.00MHZ





## 5、Product structure drawing

