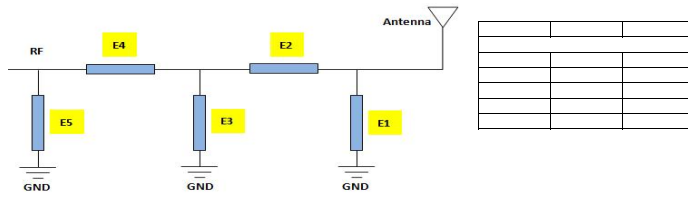
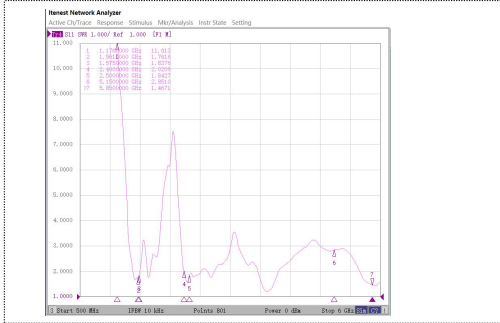


## Antenna Matching



## Antenna Passive S11

三合一

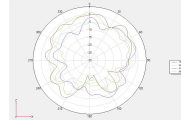


## Antenna Passive Efficiency

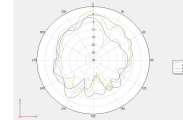
三合一

| Freq (MHz) | Effi (dB) | Effi (%) | MaxGain dBi | Freq (MHz) | Effi (dB) | Effi (%) | MaxGain dBi |
|------------|-----------|----------|-------------|------------|-----------|----------|-------------|
| 1550       | -4.52     | 35.32    | 0.57        | 2400       | -6.01     | 25.06    | -0.12       |
| 1551       | -4.59     | 34.75    | 0.48        | 2410       | -6.17     | 24.15    | -0.09       |
| 1552       | -4.69     | 33.96    | 0.38        | 2420       | -5.93     | 25.53    | -0.03       |
| 1553       | -4.79     | 33.19    | 0.27        | 2430       | -5.8      | 26.3     | 0.02        |
| 1554       | -4.87     | 32.58    | 0.17        | 2440       | -5.59     | 27.61    | 0.12        |
| 1555       | -4.94     | 32.06    | 0.14        | 2450       | -5.46     | 28.44    | 0.3         |
| 1556       | -4.99     | 31.7     | 0.06        | 2460       | -5.42     | 28.71    | 0.27        |
| 1557       | -5.03     | 31.41    | -0.01       | 2470       | -5.36     | 29.11    | 0.22        |
| 1558       | -5.06     | 31.19    | -0.07       | 2480       | -5.37     | 29.04    | 0.08        |
| 1559       | -5.06     | 31.19    | -0.09       | 2490       | -5.45     | 28.51    | 0.13        |
| 1560       | -5.08     | 31.05    | -0.1        | 2500       | -5.47     | 28.38    | 0.56        |
| 1561       | -5.1      | 30.9     | -0.11       | AVG        | -5.64     | 27.35    | 0.13        |
| 1562       | -5.1      | 30.9     | -0.08       | Freq.      | Effi      | Effi     | MaxGain     |
| 1563       | -5.09     | 30.97    | -0.03       | (MHz)      | (dB)      | (%)      | dBi         |
| 1564       | -5.07     | 31.12    | 0.03        | 5150       | -4.31     | 37.07    | -0.56       |
| 1565       | -5        | 31.62    | 0.13        | 5200       | -4.26     | 37.5     | -0.36       |
| 1566       | -4.94     | 32.06    | 0.21        | 5250       | -4.15     | 38.46    | -0.3        |
| 1567       | -4.86     | 32.66    | 0.32        | 5300       | -4.12     | 38.73    | 0           |
| 1568       | -4.79     | 33.19    | 0.41        | 5350       | -3.86     | 41.11    | -0.14       |
| 1569       | -4.74     | 33.57    | 0.52        | 5400       | -3.91     | 40.64    | 0.52        |
| 1570       | -4.69     | 33.96    | 0.58        | 5450       | -3.56     | 44.06    | 0.53        |
| 1571       | -4.64     | 34.36    | 0.75        | 5500       | -3.54     | 44.26    | 1.64        |
| 1572       | -4.62     | 34.51    | 0.83        | 5550       | -3.74     | 42.27    | 1.75        |
| 1573       | -4.6      | 34.67    | 0.89        | 5600       | -3.82     | 41.5     | 1.63        |
| 1574       | -4.59     | 34.75    | 0.94        | 5650       | -4.09     | 41.5     | 1.73        |
| 1575       | -4.58     | 34.83    | 0.97        | 5700       | -4.04     | 39.45    | 1.56        |
| 1576       | -4.58     | 34.83    | 1           | 5750       | -3.82     | 38.99    | 1.8         |
| 1577       | -4.58     | 34.83    | 1.05        | 5800       | -4.03     | 39.54    | 1.79        |
| 1578       | -4.6      | 34.67    | 1.08        | 5850       | -4.36     | 36.64    | 1.56        |
| 1579       | -4.62     | 34.51    | 1.09        | AVG        | -3.97     | 40.11    | 0.88        |
| 1580       | -4.64     | 34.36    | 1.14        |            |           |          |             |
| AVG        | -4.81     | 33.09    | 0.44        |            |           |          |             |

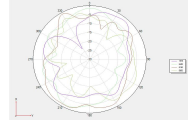
Phi 0 2D



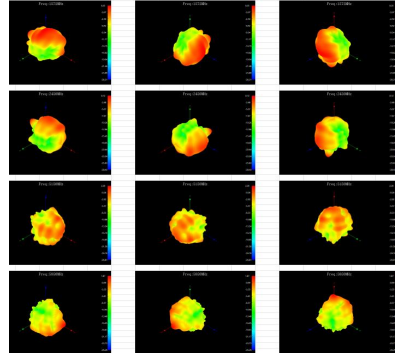
Phi 90 2D



Theta 90 2D



3D苹果图



## 天线测试环境

测试环境



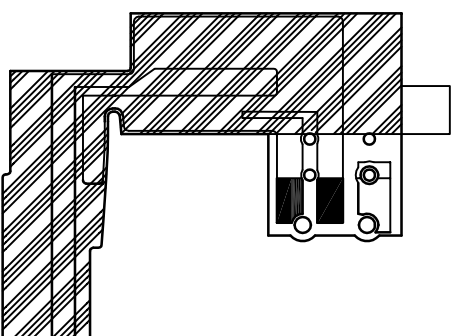
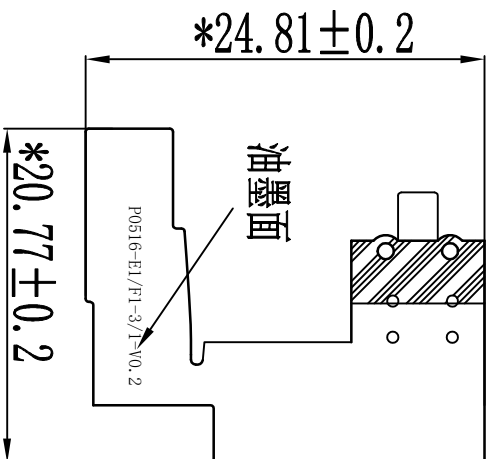
DEV-QR-06

版本

修改内容

修改人

日期



技术要求

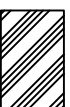
1. 出货包装要求(微封装膜包装)
2. 铜箔表面涂黑色哑光, 油墨要均匀;
3. 镀金盐雾测试过48H, 镀金厚度0.5微米
4. 带“\*”符号尺寸为重点尺寸;
5. 背胶用3M9471;
6. 基材使用PI 0.5mm;
7. 铜箔厚0.5oz;
8. 未注倒圆角均为0.2, 工艺边为0.2mm;
9. 未注公差按一般公差表;
10. 产品符合RoHS2.0标准REACH标准要求。



铜箔区域



镀金



全部背胶

上海尚远通讯科技有限公司

PART NAME: P0516-EI/FI-三合一天线板  
DATE: 20260519

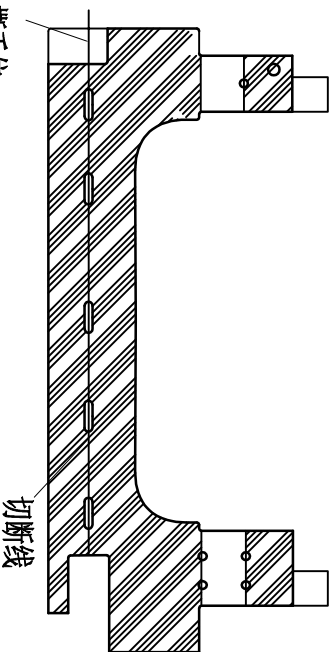
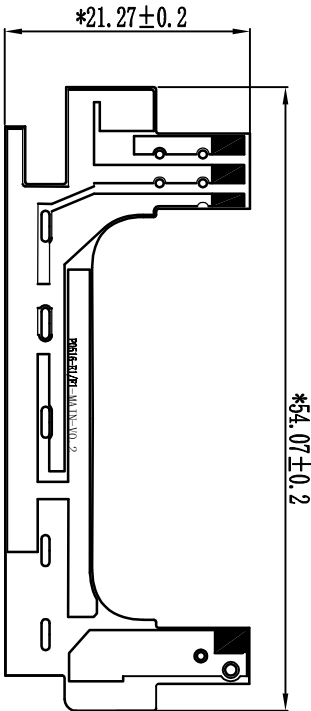
PART NO: SH26045IB75-2  
DRAWN: 邵兵

MATERIAL:  
CHECKED: 于姜

FINISHING:  
APPROVED:

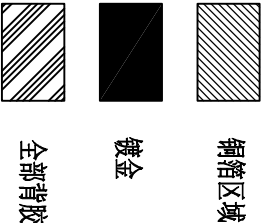
TOLERANCE  
X, Y ±0.25  
.XX ±0.25  
.XXX ±0.05  
ANGULAR  $\angle \pm 0.5^\circ$   
UNIT: mm  
COLOUR: 黑色  
SCALE: 1:1  
REV: 1.S02

| 版本 | 修改内容 | 修改人 | 日期 |
|----|------|-----|----|
|    |      |     |    |
|    |      |     |    |
|    |      |     |    |



技术要求

- 出货包装要求: (微黏膜包装)
- 铜泊表面涂黑色哑光, 油墨要均匀;
- 镀金盐雾测试过48h, 镀金厚度0.5 $\mu$ m
- 带“\*”符号尺寸为重点尺寸;
- 背胶用3M9471;
- 基材使用PI 0.5mm;
- 铜箔厚0.5oz;
- 未注倒圆角均为0.2, 工艺边为0.2mm;
- 未注公差按一般公差表;
- 产品符合RoHS2.0标准REACH标准要求。



上海尚远通讯科技有限公司

|                                                                                     |            |                             |             |
|-------------------------------------------------------------------------------------|------------|-----------------------------|-------------|
|                                                                                     |            |                             |             |
|                                                                                     | PART NAME: | P0516-EL/PI-MAIN天线PCB DATE: | 20260519    |
|                                                                                     | PART NO:   | SH260451B75-1               | DRAWN: 邵兵   |
|                                                                                     | MATERIAL:  |                             | CHECKED: 于姜 |
|                                                                                     | FINISHING: |                             | APPROVED:   |
| TOLERANCE<br>X.X ±0.25<br>.XX ±0.25<br>.XXX ±0.05<br>ANGULAR $\angle \pm 0.5^\circ$ | COLOUR: 黑色 | SCALE: 1:1                  | REV: 1.S02  |
| UNIT: mm                                                                            |            |                             |             |