

- 1: Antenna model: Inverted F antenna (IFA)
- 2: Antenna type: PCB submerged plate antenna
- 3: Gain: 1.5dB
- 4: Antenna dimensions are shown in Figure 1

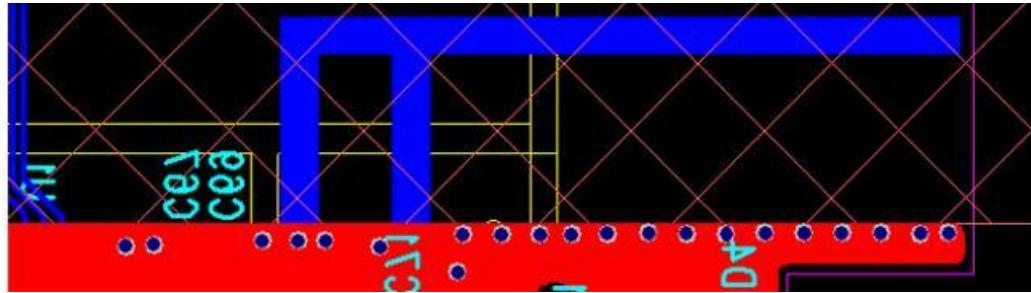


Figure 1 18.2*5.5mm

5: Antenna efficiency

| Freq (MHz) | Effi (%) | Effi (dB) | Gain (dBi) |
|------------|----------|-----------|------------|
| 2400 | 36.8 | -4.3 | 0.8 |
| 2410 | 40.3 | -3.9 | 1.3 |
| 2420 | 40.4 | -3.8 | 1.4 |
| 2430 | 41.6 | -3.8 | 1.5 |
| 2440 | 40.5 | -3.7 | 1.4 |
| 2450 | 40.7 | -3.7 | 1.4 |
| 2460 | 41.2 | -3.8 | 1.5 |
| 2470 | 40.0 | -4 | 1.4 |
| 2480 | 38.0 | -4.2 | 1.1 |
| 2490 | 35.9 | -4.5 | 0.9 |
| 2500 | 34 | -4.7 | 0.7 |

6. The antenna performance is shown in Figure 2. The operating band covers the entire 2.4G ISM band.

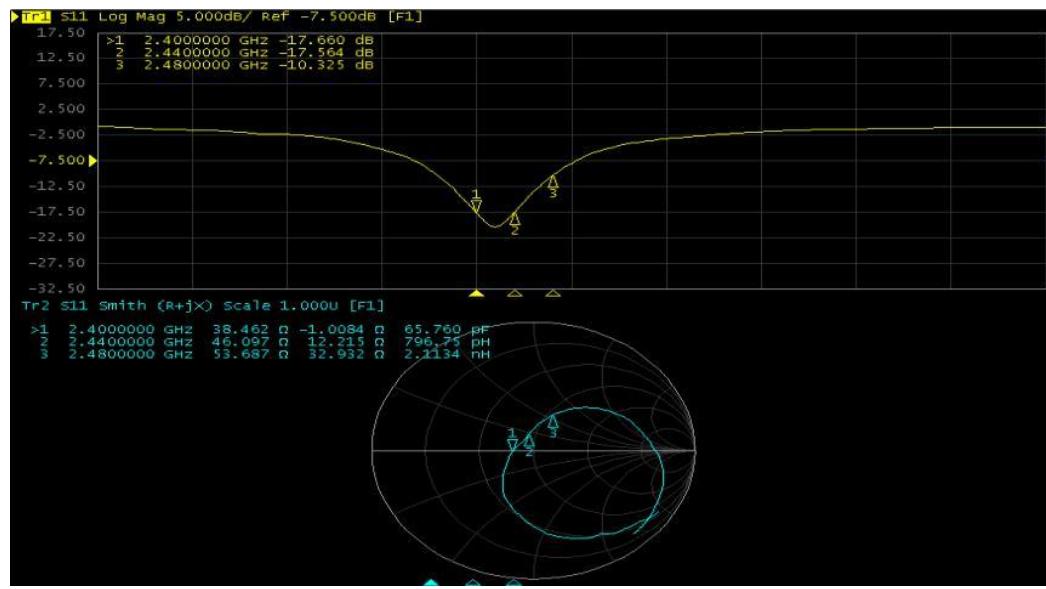


Figure 2

7:2D and 3D gains are as follows, reaching around

1.5dB:

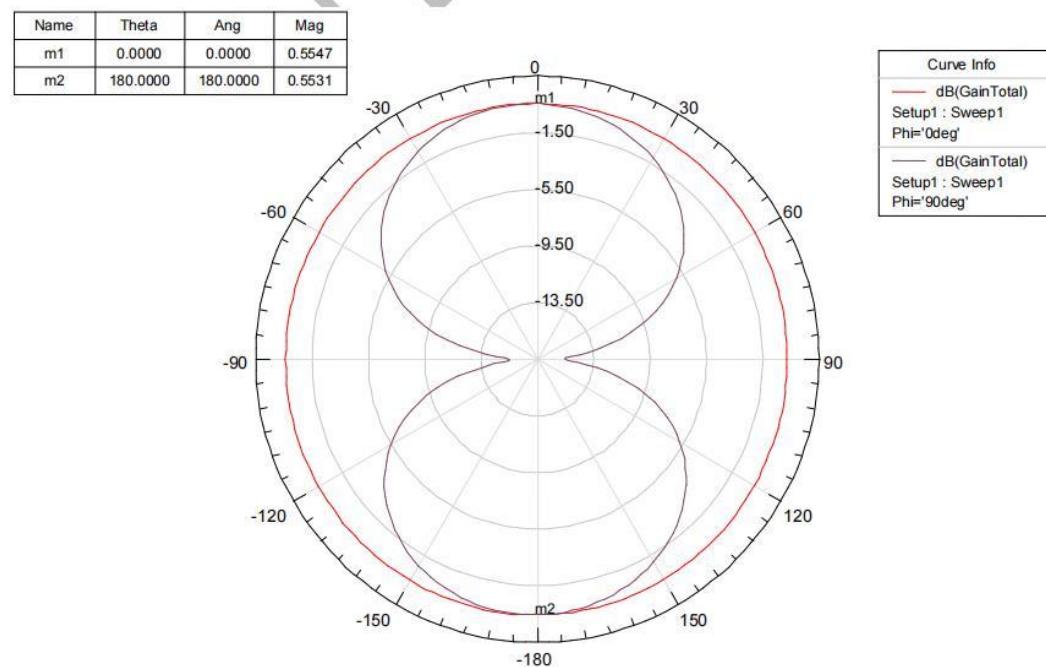


Figure 3

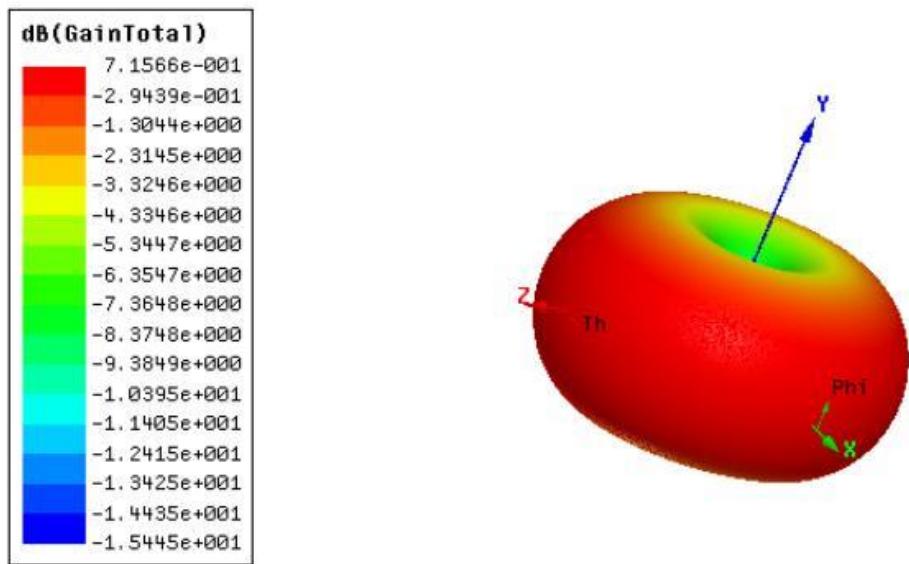


Figure 4 Antenna gain