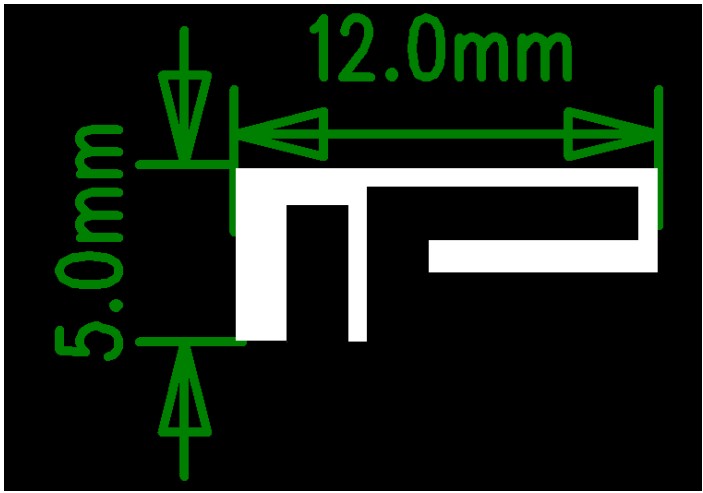
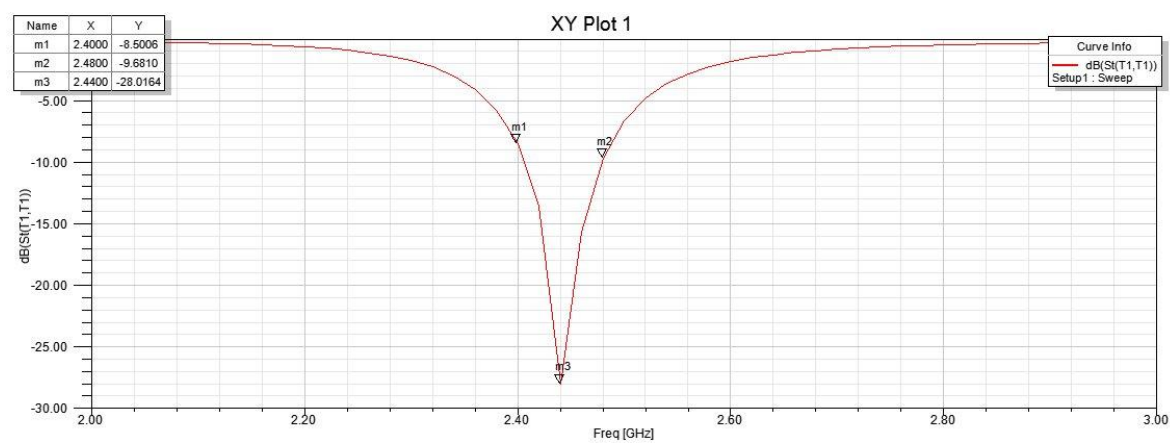


## 2.4 GHz PCB Antenna Specifications

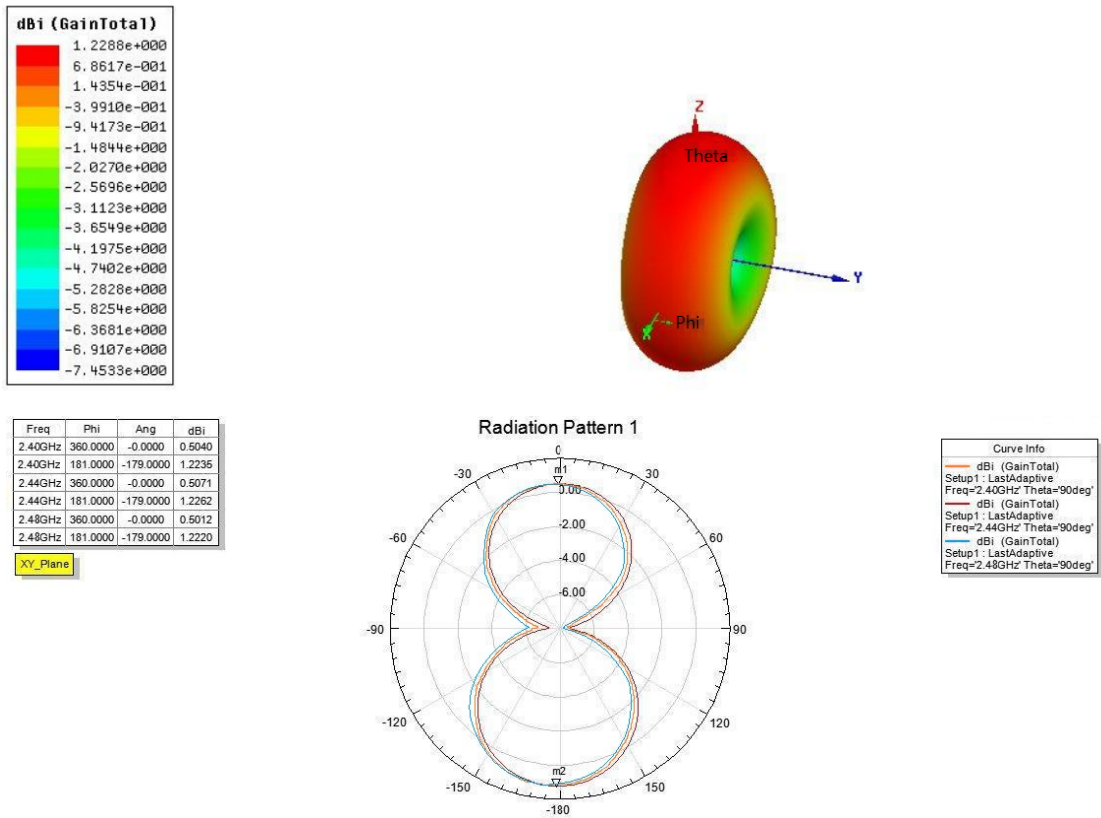
### 1. Summary

| Item            | Units | Value                                                                                |
|-----------------|-------|--------------------------------------------------------------------------------------|
| Outline         |       |    |
| Dimension       | mm    | L=12, H=5                                                                            |
| Frequency Band  | MHz   | 2400-2483.5                                                                          |
| Antenna Type    |       | PCB                                                                                  |
| Model           |       | F                                                                                    |
| Max Gain        | dBi   | 1.2                                                                                  |
| Input Impedance | Ohm   | 50                                                                                   |
| Manufacture     |       | Dongguan Huatuo Electronic Co. Ltd.                                                  |
| Address         |       | Room 205, No. 23, Nanjiang Road,<br>Humen Town, Dongguan City,<br>Guangdong Province |
| Trademark       |       |  |

2. S11



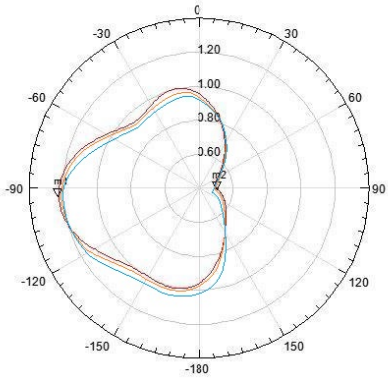
3. Radiation Pattern



| Freq    | Theta    | Ang      | dBi    |
|---------|----------|----------|--------|
| 2.40GHz | -93.0000 | -93.0000 | 1.2232 |
| 2.40GHz | 92.0000  | 92.0000  | 0.5092 |
| 2.44GHz | -93.0000 | -93.0000 | 1.2257 |
| 2.44GHz | 92.0000  | 92.0000  | 0.5101 |
| 2.48GHz | -93.0000 | -93.0000 | 1.2215 |
| 2.48GHz | 92.0000  | 92.0000  | 0.5075 |

XZ\_Plane

Radiation Pattern 2

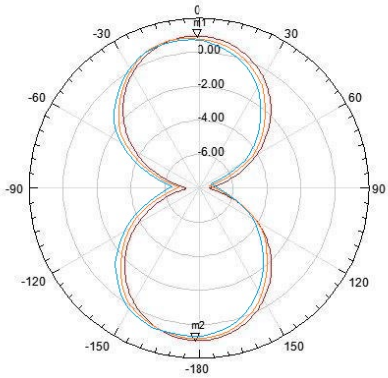


| Curve Info             |                      |
|------------------------|----------------------|
| dB((GainTotal))        | Setup1: LastAdaptive |
| Freq=2.40GHz Phi=0deg' |                      |
| dB((GainTotal))        | Setup1: LastAdaptive |
| Freq=2.44GHz Phi=0deg' |                      |
| dB((GainTotal))        | Setup1: LastAdaptive |
| Freq=2.48GHz Phi=0deg' |                      |

| Freq    | Theta     | Ang       | dBi    |
|---------|-----------|-----------|--------|
| 2.40GHz | 0.0000    | 0.0000    | 0.9522 |
| 2.40GHz | -179.0000 | -179.0000 | 0.9560 |
| 2.44GHz | 0.0000    | 0.0000    | 0.9557 |
| 2.44GHz | -179.0000 | -179.0000 | 0.9583 |
| 2.48GHz | 0.0000    | 0.0000    | 0.9513 |
| 2.48GHz | -179.0000 | -179.0000 | 0.9541 |

YZ\_Plane

Radiation Pattern 3



| Curve Info              |                      |
|-------------------------|----------------------|
| dB((GainTotal))         | Setup1: LastAdaptive |
| Freq=2.40GHz Phi=90deg' |                      |
| dB((GainTotal))         | Setup1: LastAdaptive |
| Freq=2.44GHz Phi=90deg' |                      |
| dB((GainTotal))         | Setup1: LastAdaptive |
| Freq=2.48GHz Phi=90deg' |                      |