

## PCB Antenna Design for Small Size

The specific dimensions of the antenna are as shown in Fig. 1. (The plate is made up of two layers of FR4. The layer thickness is 0.6mm.)

### Antenna Linewidth:

A: 0.15mm; B: 0.25mm; C: 0.4mm

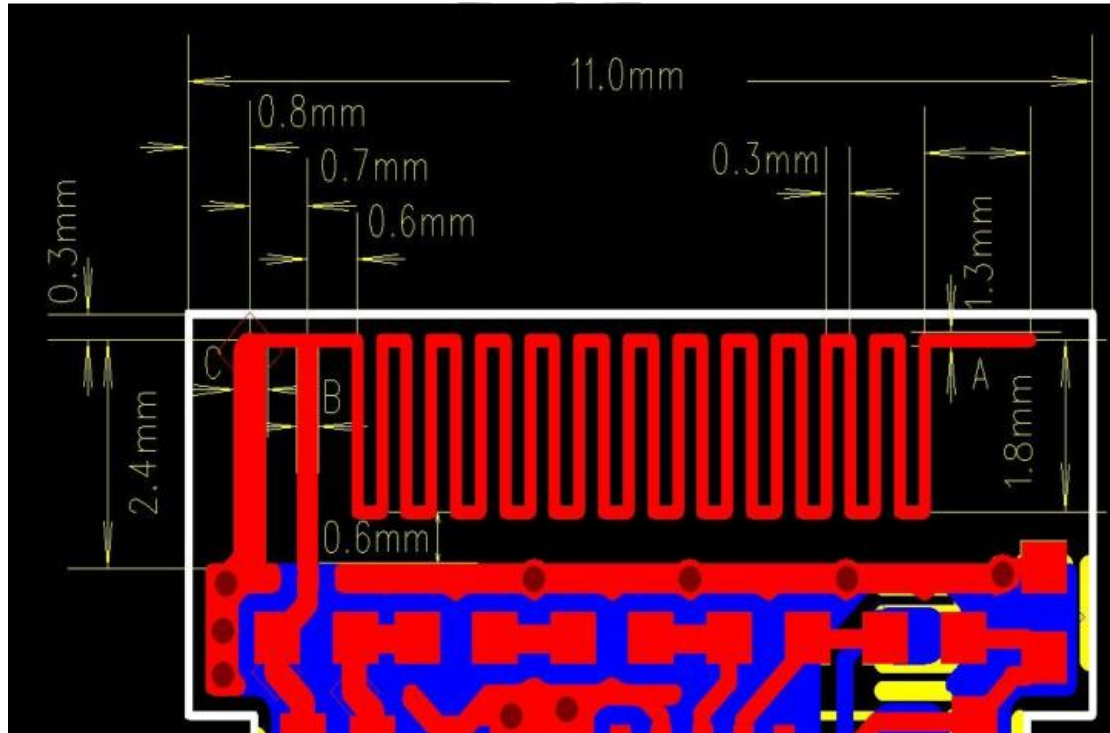


Fig. 1 PCB Antenna

The antenna performance of S11 is as shown in Fig. 2. Its operating band can cover the entire 2.4G ISM band.

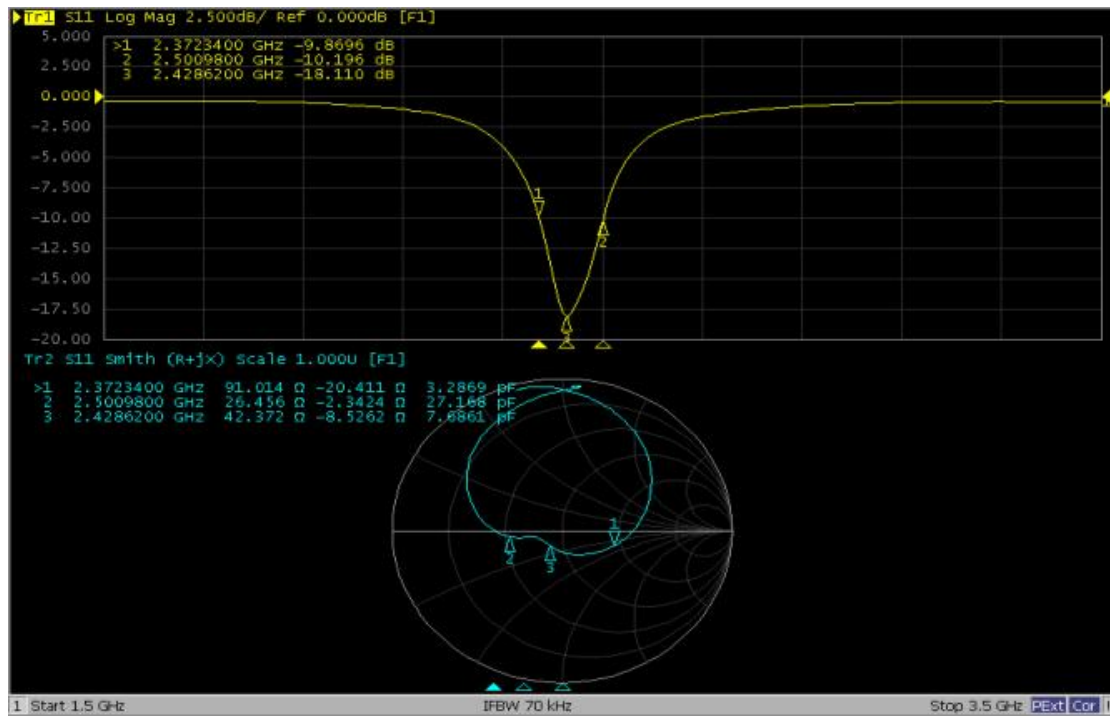


Fig. 2 PCB Antenna

The 2D and 3D schematics of the antenna gain are shown in Fig. 3. The maximum gain of this antenna is about a -4.9901dB.

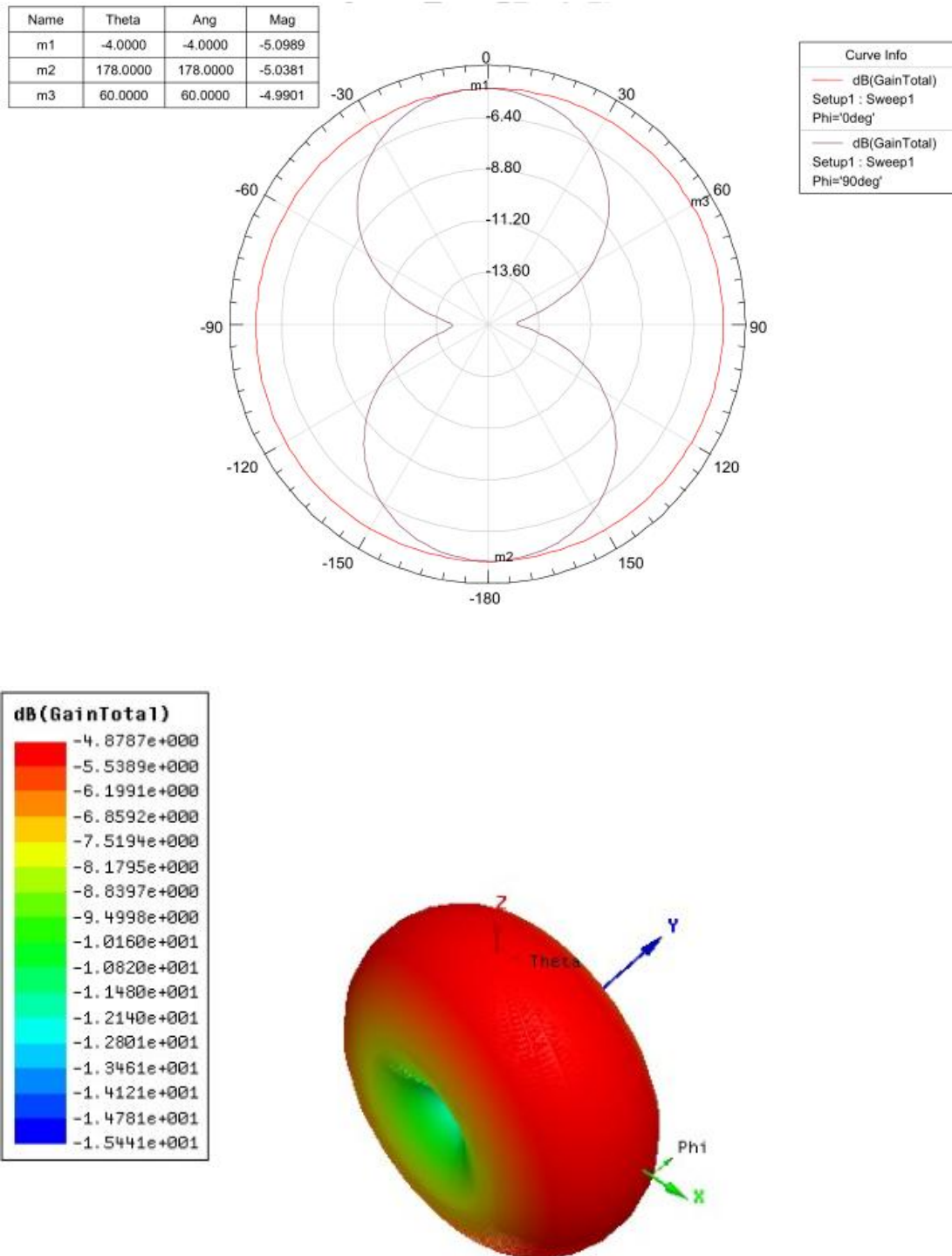


Fig. 3 PCB Antenna Gain