

Antenna Specification

PIFA Antenna

The antenna adopts the ultra-small PIFA antenna, and because of the limited area of PCB, the gain of antenna will be smaller than that of the other antennas. The communication distance can reach about 15 ~ 20 meters. The size of the Module PCB antenna is 10.5 * 2.5mm, and the thickness of PCB is 1.6mm. The specific size of the antenna is shown in figure 1, the physical object is shown in figure 2.

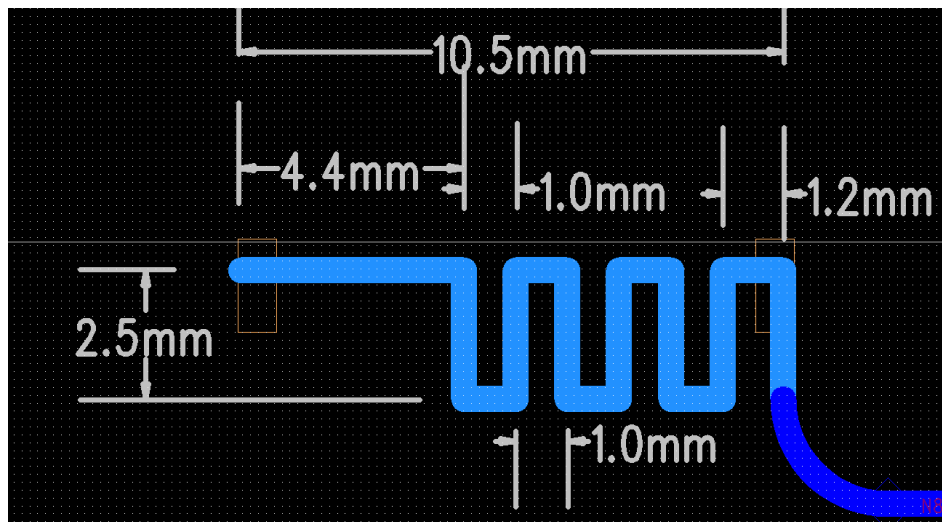


Figure1 Antenna size

The antenna's S11 test data is shown in figure 3, covering the entire 2.4 G frequency band.

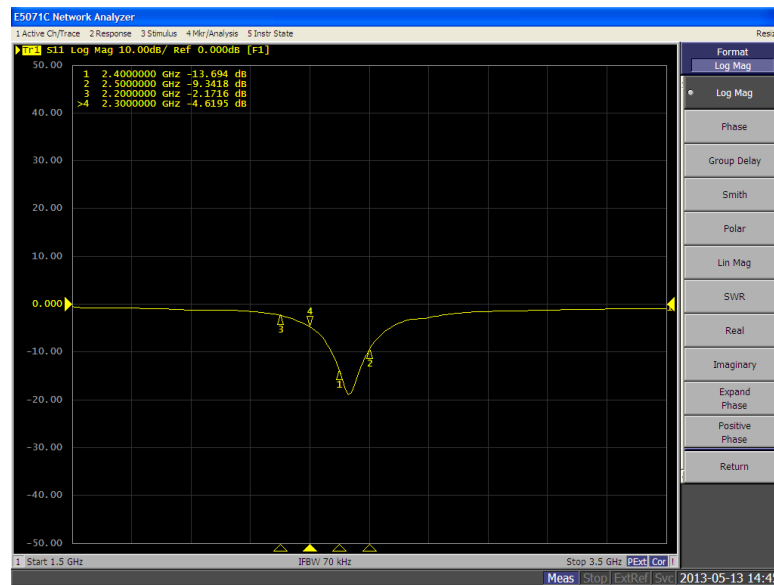


Figure3 Antenna S11

The gain simulation data of the antenna is shown in figure 4, with the maximum gain of 0.9dBi.

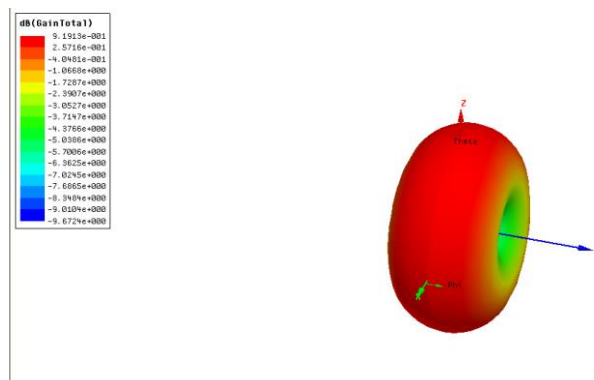


Figure4 antenna gain and 3D direction diagram (the Y-axis is the left and right direction of figure 1, and the X-axis is the upper and lower direction of figure 1)