

Antenna specification

PIFA antenna on the Keyboard

The Keyboard antenna uses an ultra-small PIFA antenna, Due to the limited PCB area, the gain of this antenna will be smaller than that of other antennas, It has an impact on the communication distance, and the general communication distance can reach about 8 to 10 meters。Keyboard PCB antenna area size is about 14.724*2.488mm, PCB thickness is 0.8 mm.The specific dimensions of the antenna are shown in Figure 1.

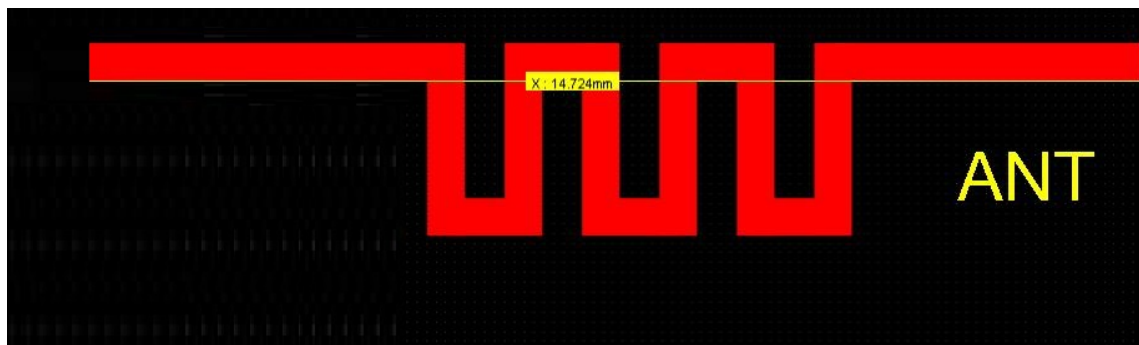


Figure 1 Keyboard antenna design dimension

The S11 test data of the antenna is shown in Figure 3, covering the entire 2.4G band.

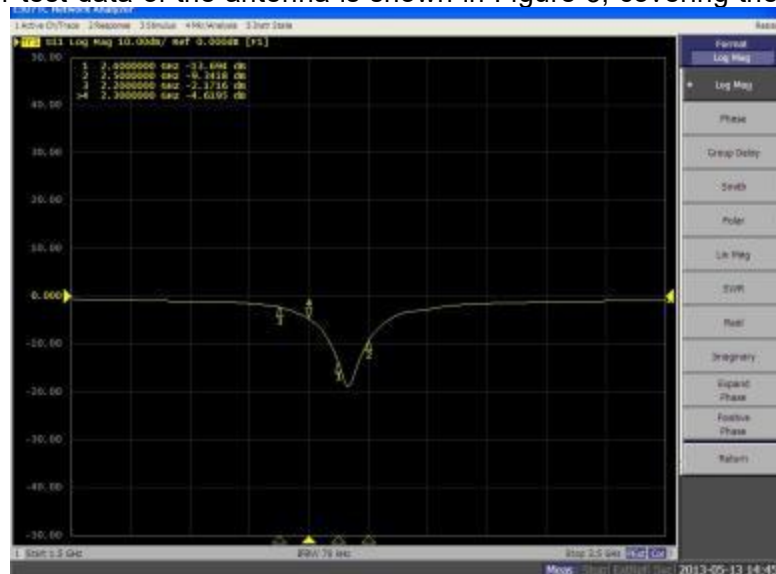


Figure 2 shows the gain simulation data of the S11 antenna.

As shown in Figure 3, the maximum gain is 0.95dBi .

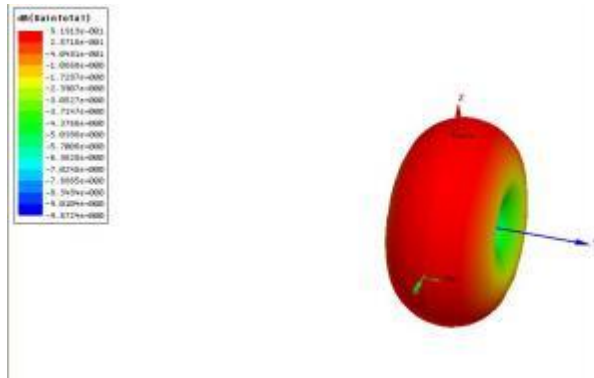
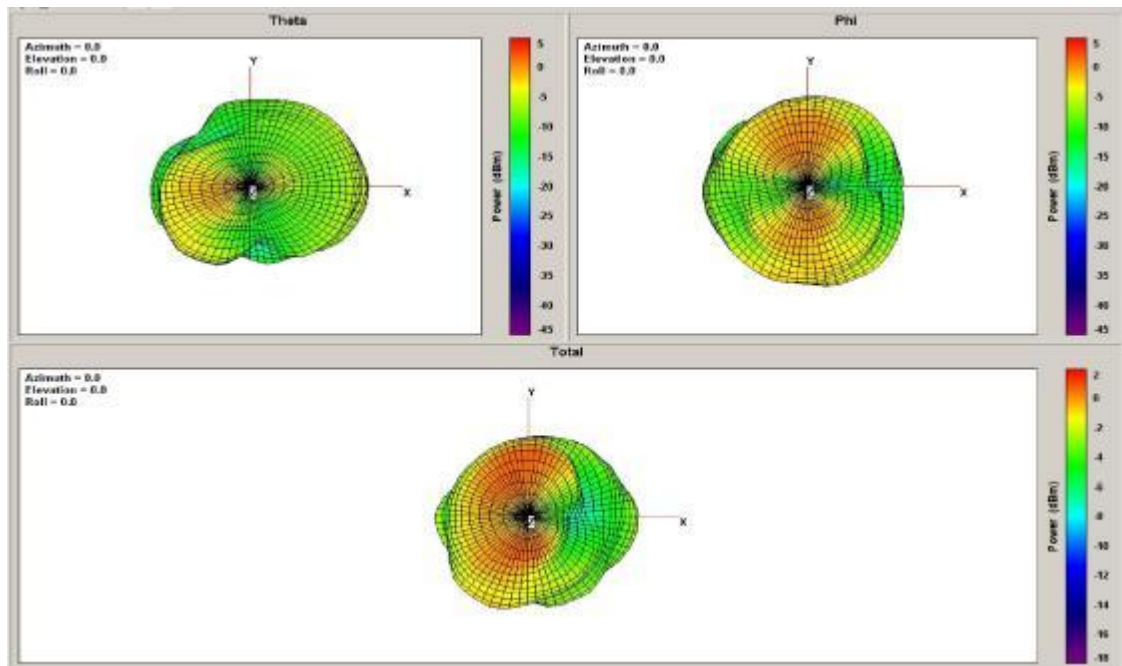


Figure 3

Keyboard antenna field effect diagram



Antenna gain and 3D pattern

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