

Keyboard Antenna Specification

Keyboard PIFA Antenna

Frequency (MHZ)	2402-2480
Maximum gain (db)	0.9
Impedance (Ω)	50
Antenna Type	Plannar Inverted Antenna onboard
manufacturer	Dongguan Leku Trading Co., Ltd

The Keyboard 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 Keyboard Module PCB antenna is 13.2 * 7.7mm, 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.

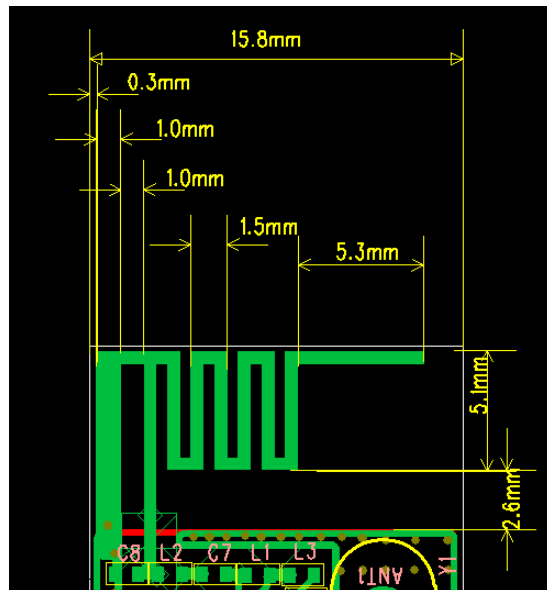


Figure1 Keyboard Antenna size



Figure2 Keyboard Antenna

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

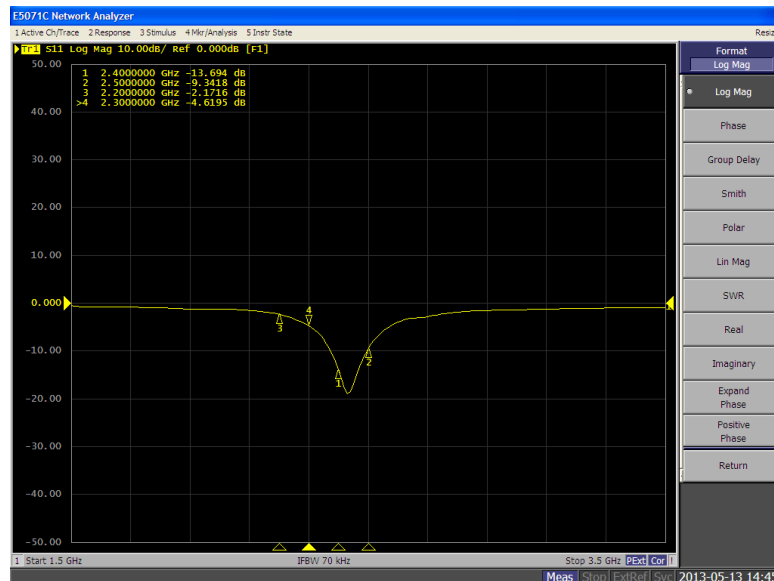


Figure3 Keyboard Antenna S11

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

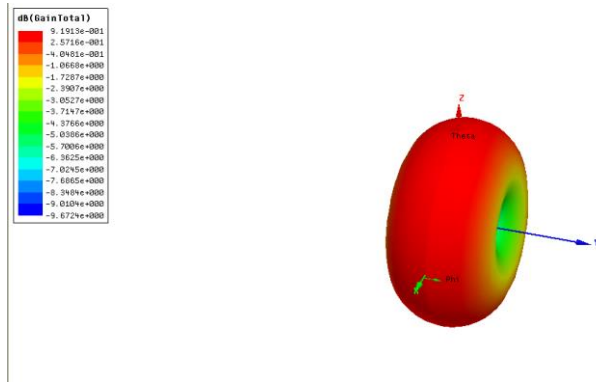


Figure4 Keyboard antenna gain and 3D direction diagram (the Y-axis is the left and right direction of figure 1, and the X-axis is the upper and lower direction of figure 1)