Abstract

This paper presents the comparison of existing fractal antennas with the proposed fractal antenna on the basis of performance parameters such as return loss and gain. Proposed antenna is designed on FR4 glass epoxy substrate with thickness 1.6mm and dielectric constant 4.4. The HFSS V13 software is used to design and simulate the proposed fractal antenna. By observing the simulated results of proposed antenna it has been concluded that it works on six resonant frequency bands with the maximum value of gain 8.8dB at 3.14GHz frequency band. The existing antenna works on maximum two frequency bands of operation. Due to the multiband characteristics of proposed antenna, it can be used for different wireless applications as per FCC standards.

References


**Index Terms**

Computer Science  
Communications

**Keywords**

FCC, gain, return loss, HFSS, FR4.