Abstract

The different types of antennas such as tri-band, Koch, microstrip and rectangular carpet have been compared with proposed antenna (Giuseppe peano) in this manuscript. These antennas have been compared on the basis of performance parameters with the proposed antenna. The proposed antenna is designed on low cost FR4 glass epoxy substrate with dielectric constant 4.4 and dimensions 40×38.90×1.6mm³. Proposed antenna designed by using resonant frequency of 4GHz and the frequency is shifted towards the lower side in the simulated and measured results. This shifted of frequency band shows the miniaturization of antenna and reduction in the size of antenna. HFSS V13 simulator is used to design and simulate the proposed antenna. The designed antenna can be used for different wireless applications.

References


Index Terms

Computer Science Wireless

Keywords

Koch, microstrip, FR4, HFSS