Abstract

In this paper, design and analysis of circularly polarised micro-strip patch antenna is presented. The use of circularly polarised antenna is an attractive solution to achieve polarization matching between the transmitting and receiving antenna. It is compact design of a square of 35.8 mm side with opposite corner by removing 11 mm each side on Rogers TMM4 substrate with dielectric constant of 4.5, thickness of 1.524mm and feed by a coaxial feed technique. The Proposed antenna is operated between 2.4-2.7 GHz with below 2 db VSWR. This antenna is having axial ratio below 3 db over the band of 2.55-2.69 GHz. The Parameter of this antenna such as radiation pattern, return loss, VSWR and axial ratio is simulated using HFSS software.

References

2. A thesis on “Development of cavity backed antenna for use in communication application”
Design and Analysis of Circularly Polarized Micro-strip Patch Antenna using HFSS

by Jeffrey S. Carrie.


Index Terms

Computer Science Wireless

Keywords

Circular Polarization, Axial Ratio, Radiation Pattern.