Abstract

A circular-polarization (CP) operation of the square microstrip antenna with four slits and a pair of truncated corners is proposed and investigated. Simulated results show that the proposed
Square Microstrip Antenna for Circular Polarization Operation

compact CP design can have an antenna-size reduction of about 39% as compared to the conventional corner-truncated square microstrip antenna at a given operating frequency. Also, the required size of the truncated corners for CP operation is much greater than that for the conventional CP design using a simple square microstrip patch, providing a relaxed manufacturing tolerance for the proposed compact CP design. Details of the simulated results are presented and discussed.

References


Index Terms

Computer Science Communication Systems

Keywords

Square microstrip antenna circular polarization compact antenna
microstrip antenna