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
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

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Keywords

Square microstrip antenna
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