Abstract

response is presented. The pair of slots reduces the resonance frequency of orthogonal TM02 mode of the patch and along with the fundamental TM10 mode yields broadband response. Further to optimize the bandwidth and gain, a gap-coupled configuration with parasitic rectangular patches is proposed. The gap-coupled configuration with patches coupled along X-axis yields bandwidth of more than 420 MHz whereas with patches gap-coupled along both the X and Y-axis, yields a bandwidth of nearly 470 MHz. In both the configurations, broadside radiation pattern with gain of more than 7 dBi is obtained.
Broadband Proximity Fed Gap-Coupled Pair of Slot Cut Rectangular Microstrip Antennas

References

- Balanis, C. A. , Antenna Theory: analysis and design, 2nd edition, John Wiley & Sons Ltd.

Index Terms

- Computer Science
- Wireless

Keywords

Rectangular Microstrip Antenna  Broadband Microstrip Antenna  Proximity Feeding Pair Of Rectangular Slot

Higher Order Modes