Abstract

The compact multi band antennas are the demand of the new evolving technology. A triple band antenna for which two bands, are in C-band having bandwidths 134MHz and 87.5MHz. The center frequency for first band of bandwidth 134 MHz is 5.37GHz and for second band of bandwidth 87.5MHz is 5.88GHz. The third band lies in the frequency range of X-band having bandwidth 673MHz with center frequency 11.36GHz. By cutting five asymmetrical U-slots, we can make U-shaped patch antenna. Advantages of this structure are: Simple feed, single layer structure, Simple structure antenna, freedom of one extra degree can be achieved by the asymmetry of U-slot arm. The simulation results are compared with the previous results. The performance of our proposed antenna is better.

References

Planar Asymmetrical U-Slot Patch Antenna for C and X Band Applications


Index Terms

Computer Science Circuits and Systems
Keywords

U-slot antenna, micro-strip patch antenna, frequency selective surfaces, three bands, substrate integrated waveguide.