Abstract

A 50-ohm Coplanar Waveguide feed antenna is used as a monopole half cut antenna having half fork-shaped radiating patch and extended ground plane to cover frequency band 3.1 GHz to 10.6 GHz. As the proposed antenna provides frequency coverage for UWB frequency spectrum. A half cut technique is used for the miniaturization of the antenna. This antenna provides worldwide compatibility for communication among of Microwave frequency band from 3.1GHz to 10.6 GHz. This literature covers the effects of miniaturization on the reflection coefficient [S11 Parameter] and VSWR. A comparative study of antenna parameter here I discussed. Enhance the performance of the antenna in terms of constant gain, radiation pattern, and impedance matching directivity. The parametric analysis and prototype simulation has been done with the help of An-soft HFSS.

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Index Terms

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