Bandwidth Enhancement of Circular Micro Strip Antenna using Stub

Abstract

A novel circular micro strip dual band stub loaded antenna is described. The antenna is built with a dielectric constant of \( \varepsilon_r = 2.33 \) with RT/5870 as the substrate material. Due to the effect of stub loading, dual frequency is produced at 1.88 GHz and 2.73 GHz respectively for the stub length=17 m. m. With the further increment of stub length, shifting of secondary resonant frequency is possible from 2.88 GHz to 1.99 GHz which further improves the percentage bandwidth using controllable dual band. The primary resonant frequency is fixed at 1.88 GHz. Throughout the entire operation and the gain also remains constant.

References

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Index Terms

Computer Science Wireless

Keywords

Circular Patch Variable Stub Length Dual Band Response Enhanced Bandwidth