Abstract

A compact CPW-fed fractal circle monopole antenna with dual wideband is presented for simultaneously satisfying wireless local area network (WLAN) for 2.4/5.2/5.8 GHz application. The antenna consists of irregular shape circles based on the Descartes circle theorem. The simulated -10 dB bandwidth for return loss is from 2.04 to 3.35 GHz and 4.96 to 5.9 GHz,
covering all the 2.4/5.2/5.8 GHz WLAN Bands obtained. It is observed that the gain of proposed antenna for 2.4 GHz and 5.2 GHz is 3.606 dBi and 5.96 dBi respectively. This antenna gives stable monopole-like radiation patterns.

**Reference**


**Index Terms**

Computer Science  Communications

**Key words**

Dual wide band  Circular

Antenna  Fractal Antenna

CPW-fed

Descartes Circle Theorem