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A novel CPW fed UWB antenna with 4GHz/5.48GHz/7.5Ghz triple notch band features has been proposed. The antenna which has a dimension of 35.4mm×28.8mm, is composed of pentagonal radiating stub with CPW framework. The ultra wide band from 3.03GHz to 11.1GHz frequency range has been obtained and by inserting three simple L shaped regular slots at the ground plane and the stub and optimized in order to achieve desired stop band characteristics. The triple frequency band notched characteristics has been achieved at IMT (International Mobile Telecommunications) advanced system 4th generation mobile communication system (3.4-4.2GHz), WLAN (5.15-5.3GHz) and X Band satellite communication(downlink) (7.25-7.75GHz). The antenna shows broad bandwidth, good impedance match and omnidirectional radiation patterns in the entire frequency range.

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I. Introduction

Ultra-wideband (UWB) technology has received much attention due to some important features such as low cost, low complexity, low spectral power density, high precision ranging and have become the most potential candidate for short-range high speed wireless communication systems. As a key component of the UWB systems, the antenna with ultra-wide bandwidth have been widely investigated by both industry and academia since the Federal Communications Commission (FCC) released 3.1 to 10.6 GHz unlicensed band for radio communication. To meet UWB requirements several coplanar waveguide-fed and microstrip-fed planar antennas have been proposed till date.

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