Abstract

Microstrip patch antennas are strong candidates for use in many wireless communication applications. This paper proposes the use of patch antenna with pi-shaped slot to achieve dual band operation in WiMAX standard. A thick substrate helps broaden the bandwidths at two resonant frequencies. The slot loaded patch antenna resonates at 2.54 GHz and 3.45 GHz.
frequencies. It has been developed to be used in future Wi-max technology. The simulated bandwidths are 4.01% and 11% at 2.54 GHz and 3.45 GHz respectively. The return losses for these dual bands are -20dB and -16.77 dB respectively.

Reference


Index Terms

Computer Science
Information Technology

Key words

Wi-max Antenna
Impedance Bandwidth

CST Microwave Studio

Pi-slot patch