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.
Pi Shape Slot Loaded Patch Antenna for Wi-Max Applications

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