Abstract

The proposed EBG Structure consists of stepped impedance Microstrip line with slots etched on the ground plane. The T-shaped DMS (Defected microstrip structure) causes large attenuation in the stop-band. A comparison is made between the non-DMS Structure and a DMS Structure. The overall size is 35*20 mm2. The structure is able to achieve a wide Stop band and a flat pass band with more than -30 dB attenuation in the stop band. A wide stop band from 4.4 GHz to 10.4 GHz is obtained. The CST Microwave Studio is used for Simulation.
References


Index Terms

Computer Science

Wireless

Keywords

Defected Microstrip Structure (dms)  Electromagnetic Band Gap (ebg).