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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.

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Index Terms

Computer Science

Wireless

Keywords

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

