

عنوان مقاله:

Ridge Gap Waveguide (RGW) Cavity And Its Analytical Model

محل انتشار:

اولین کنفرانس بین المللی چشم انداز های نو در مهندسی برق و کامپیوتر (سال: 1395)

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خلاصه مقاله:

A cavity based on ridge gap waveguide (RGW) technology is presented and a theoretical model is proposed for its analysis. A sample cavity is designed and simulated and its resonating modes compared with those predicted by theoretical model. Good agreement between simulation results and theory confirms the validity of proposed analytical model. The performance of the proposed cavity is also investigated by calculating its quality factor (Q-factor). Quite high Q-factor was obtained which shows that the presented cavity can be used to implement efficient microwave component devices and antennas

کلمات کلیدی:

cavity, gap waveguide, ridge, RGW, stop band

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