Abstracts

Eigenvalue Spectrum of Rectangular Waveguide with Two Symmetrically Placed Double Ridges

D. Dasgupta and P.K. Saha. "Eigenvalue Spectrum of Rectangular Waveguide with Two Symmetrically Placed Double Ridges." 1981 Transactions on Microwave Theory and Techniques 29.1 (Jan. 1981 [T-MTT]): 48-51.

The eigenvalue spectrum of rectangular waveguide with two symmetrically placed double ridges has been determined by formulating an integral eigenvalue problem and solving by Ritz-Galerkin method. The bandwidth characteristic is found to be adequate for varactor-tuned solid-state microwave oscillator applications requiring ridge structure for resonator. There remains some ambiguity in the designation of trough modes.

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