

Abstracts

A Novel Rectangular Waveguide with Double T-Septums (Short Papers)

G.G. Mazumder and P.K. Saha. "A Novel Rectangular Waveguide with Double T-Septums (Short Papers)." 1985 Transactions on Microwave Theory and Techniques 33.11 (Nov. 1985 [T-MTT]): 1235-1238.

A new rectangular waveguide with two T-shaped septums in place of solid rectangular ridges has been analyzed theoretically by the Ritz-Galerkin technique and is found to have superior cutoff and bandwidth characteristics of the dominant TE₁₀ mode compared to the conventional ridged guides. Numerical data are presented and compared with those of symmetric double-ridged guides with identical gap parameters.

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