

Abstracts

Power-Handling Capability of the Rhombic Waveguide

P.L. Overfelt and C.S. Kenney. "Power-Handling Capability of the Rhombic Waveguide." 1990 Transactions on Microwave Theory and Techniques 38.7 (Jul. 1990 [T-MTT]): 934-941.

This paper uses a dimensionless efficiency factor to compute a figure of merit quantifying the power-handling capability of the uniform, perfectly conducting rhombic waveguide. A new method involving an infinite sum of nonseparable solutions of the Helmholtz equation provides accurate eigenfunctions and eigenvalues for use in the efficiency factor calculation. The power-handling capability of the rhombic waveguide is compared with that of the standard rectangular waveguide and is found to be only slightly lower.

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