

Abstracts

Ridged Circular Waveguide (Short Papers)

Y. Shiau and R.F.H. Yang. "Ridged Circular Waveguide (Short Papers)." 1974 Transactions on Microwave Theory and Techniques 22.2 (Feb. 1974 [T-MTT]): 130-132.

Characteristics of wave propagation inside a ridged circular waveguide are studied. The waveguide is a hollow, conducting circular cylinder with a pair of semicircular conducting ridges diametrically attached to its inside wall. Results of a perturbation analysis suggest that in this device a lower attenuation and a wider bandwidth than those of a conventional circular waveguide can be achieved. Certain numerical results are graphically presented.

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