

Resonant Frequencies of Rectangular Dielectric Resonators (Short Papers)

J.F. Legier, P. Kennis, S. Toutain and J. Citerne. "Resonant Frequencies of Rectangular Dielectric Resonators (Short Papers)." 1980 Transactions on Microwave Theory and Techniques 28.9 (Sep. 1980 [T-MTT]): 1031-1034.

The resonant frequencies of isolated dielectric resonators of rectangular shape are calculated using the dielectric waveguide model. The waveguide treatment of the rectangular dielectric rod is solved using the approximate semianalytical techniques of Marcatili, Knox, and Toullos. The accuracy with measured frequencies appear satisfactory with the former approach.

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