

Abstracts

Annular Resonant Slots in Dielectric-Filled Circular Waveguide

M. Cohn. "Annular Resonant Slots in Dielectric-Filled Circular Waveguide." 1953 Transactions on Microwave Theory and Techniques 1.2 (Nov. 1953 [T-MTT]): 39-43.

Measurements were made to determine the properties of thin annular resonant slots in polystyrene-filled circular waveguide, in which the TE₁₁ mode is propagating. Data on the variation of susceptance of these slots as a function of frequency through the X-band region is presented in graphic form. Quantitative information relating the resonant frequency and Q of these slots to their geometry is presented. An empirical expression was found relating the Q of these slots to their gap size.

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