Abstracts

Effects of Ferrite Strip Mounting Positions on Millimeter Wave Isolator Characteristics (Correspondence)

K. Ishii, J.B.Y. Tsui and F.F.Y. Wang. "Effects of Ferrite Strip Mounting Positions on Millimeter Wave Isolator Characteristics (Correspondence)." 1961 Transactions on Microwave Theory and Techniques 9.4 (Jul. 1961 [T-MTT]): 362-362.

The position of the ferrite strip in a field displacement type isolator is an important problem. If x and L are defined as the mounting position of the ferrite strip and the width of the rectangular waveguide, respectively, as shown in Fig. 1, then, according to Soohoo, Lax, Fox, et al., and Button, the optimum value of x ranges from 0.095L to 0.27L. The sign of the directivity (backward to forward ratio of attenuation) for very thin ferrite strip is the same if x<L/2.

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