

Abstracts

Cylindrical Post with Gap in a Rectangular Waveguide

R. Keam. "Cylindrical Post with Gap in a Rectangular Waveguide." 1995 Microwave and Guided Wave Letters 5.5 (May 1995 [MGWL]): 147-149.

The problem of a thin hollow post, of the type often used for semiconductor mounting structures, in a rectangular waveguide is considered for the case where the post has a variable gap located at some position on it. The solution for the reflection coefficient in the waveguide for the case where there is only one propagating mode in the waveguide. A comparison of theoretical results and experimental measurements of the reflection coefficient as a function of gap size, shows the theory yields a high degree of accuracy.

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