

Abstracts

Radiation Loss of Y-Junctions in Rib Waveguide

L. Cascio, T. Rozzi and L. Zappelli. "Radiation Loss of Y-Junctions in Rib Waveguide." 1995 Transactions on Microwave Theory and Techniques 43.8 (Aug. 1995 [T-MTT]): 1788-1797.

In this paper we analyze the effects of radiation in Y-junctions in rib waveguide by combining the effective dielectric constant method and the concept of local modes of a five-layer slab guide. The evaluation of the fields of the junction is performed together with the analysis of the radiation effects at the end of the transition; various kinds of junctions are examined and discussed, in both LSE and LSM polarizations.

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