Abstracts

Gap Spacing for Narrow-Bandwidth End-Coupled Symmetric Stripline Filters (Correspondence)

J.K. Richardson. "Gap Spacing for Narrow-Bandwidth End-Coupled Symmetric Stripline Filters (Correspondence)." 1968 Transactions on Microwave Theory and Techniques 16.8 (Aug. 1968 [T-MTT]): 559-560.

The gap spacing for an end-coupled symmetric stripline filter (see Figs. 1, 2 [1]) may be determined as a function of the ground-plane spacing, center wavelength, and a normalized bandwidth parameter, utilizing the equivalent circuit of the gap between resonator strips (Fig. 3). It will be shown that the coupling between strips is accurately represented by a series susceptance for the ratio S/D not exceeding ½, but for S/D greater than unity, it is not always possible to accurately design end-coupled symmetric stripline filters utilizing the equivalent circuit of the coupling gap.

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