

Abstracts

Frequency-Dependent Characteristics of Gap Discontinuities in Suspended Striplines for Millimeter Wave Applications

A. Rong and S. Li. "Frequency-Dependent Characteristics of Gap Discontinuities in Suspended Striplines for Millimeter Wave Applications." 1988 MTT-S International Microwave Symposium Digest 88.1 (1988 Vol. I [MWSYM]): 355-358.

In this paper, a full-wave analysis of equivalent circuit parameters of gap discontinuities in suspended striplines is investigated rigorously by resonance method and variational technique. A set of charts of the parameters at W- and Ka-band are evaluated. A Ka-band prototype bandpass filter has been designed and realized to demonstrate the feasibility of the present analysis. The measured results agree well with the theoretical prediction.

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