

Abstracts

Spectral-Domain Immittance Approach for the Propagation Constants of Unilateral Finlines with Magnetized Ferrite Substrate (Short Papers)

P. Xun. "Spectral-Domain Immittance Approach for the Propagation Constants of Unilateral Finlines with Magnetized Ferrite Substrate (Short Papers)." 1989 Transactions on Microwave Theory and Techniques 37.10 (Oct. 1989 [T-MTT]): 1647-1650.

In the paper, the admittances of TM and TE modes in ferrite substrate are given, and the propagation constants for the forward and backward directions of the dominant mode in unilateral finlines with magnetized ferrite substrate are obtained. The solution is obtained by applying the transverse equivalent transmission line in the spectral domain and Galerkin's method. Numerical results are presented which can be used in designing a finline displacement isolator.

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