

Abstracts

Shielding Effect of a Diaphragm in a Packaged Microstrip Circuit

H.-H. Chen and S.-J. Chung. "Shielding Effect of a Diaphragm in a Packaged Microstrip Circuit." 1995 Transactions on Microwave Theory and Techniques 43.5 (May 1995 [T-MTT]): 1082-1086.

The scattering of a diaphragm in a packaged microstrip line is investigated using the mode-matching method together with the method of lines. Instead of analyzing the discontinuity in the microstrip, this paper tackles the variation of the waveguide housing. The influences of the thickness and the depth of the diaphragm on the scattering of the dominant mode and higher-order modes are analyzed based on a comparison of the modal power distributions. Finally, the shielding effect of a pair of closely spaced diaphragms is investigated.

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