

Abstracts

A Simple Experimental Technique for Determining Coupling Between Dielectric Resonators

J.C. Brand. "A Simple Experimental Technique for Determining Coupling Between Dielectric Resonators." 1986 MTT-S International Microwave Symposium Digest 86.1 (1986 [MWSYM]): 399-401.

A method for determining the coupling coefficients between dielectric resonators (DR) is presented. Experimentally measured S-parameters are used to characterize a circuit model of the DR. The DR's resonant frequency is systematically altered with a sliding short in the desired filter configuration and measured. This data is combined with the DR model utilizing equivalent circuit techniques to determine the coupling coefficient.

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