

Abstracts

A Quasi-TEM Design Method for 3 dB Hybrid Couplers Using a Semi-Reentrant Coupling Section (Short Papers)

M. Nakajima and E. Yamashita. "A Quasi-TEM Design Method for 3 dB Hybrid Couplers Using a Semi-Reentrant Coupling Section (Short Papers)." 1990 Transactions on Microwave Theory and Techniques 38.11 (Nov. 1990 [T-MTT]): 1731-1733.

An effective quasi-TEM design method for 3 dB hybrid couplers using a semi-reentrant coupling section is presented. The design method includes an analysis technique with the rectangular boundary division method and a sequential optimization procedure. A 3 dB hybrid coupler with Teflon substrate is designed with this method, and measured characteristics are compared with theoretical ones.

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