Abstracts

Miniaturized 3-dB Ring Hybrid Terminated by Arbitrary Impedances

H.-R. Ahn, I.-S. Chang and S.-W. Yun. "Miniaturized 3-dB Ring Hybrid Terminated by Arbitrary Impedances." 1994 Transactions on Microwave Theory and Techniques 42.12 (Dec. 1994, Part I [T-MTT]): 2216-2221.

In the UHF or VHF band, the new design method of small-sized 3-dB 0°/180° ring hybrid terminated by arbitrary impedances rising both lumped and distributed elements is presented. At the center frequency of 900 MHz, the small sized 3-dB 0°/180° hybrid terminated by arbitrary impedances is designed, analyzed and tested. Good agreements are obtained between measured and predicted results. Since both lumped and distributed elements are used, the proposed hybrid is occupied about 30% of all distributed-type hybrid.

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