

Abstracts

Improvement of Frequency Characteristics of Preselector Using a Hybrid Circuit (Correspondence)

S. Nishimura and T. Makimoto. "Improvement of Frequency Characteristics of Preselector Using a Hybrid Circuit (Correspondence)." 1968 Transactions on Microwave Theory and Techniques 16.10 (Oct. 1968 [T-MTT]): 891-893.

Yamamoto and Miyauchi have reported on a preselector which filters many frequency bands, separated by nearly equal frequency difference alternately into two groups. Their preselector is constructed of a matched magic tee to which are connected two short-circuited waveguide sections of appropriate lengths at two mutually decoupled ports. It is to be used as a preselector of a channel separation filter which separates many frequency bands into respective ports. The disadvantage of this preselector is that the frequency characteristics of the insertion loss and leakage are not satisfactorily flat near the center frequency of each band. This correspondence proposes a method by which the frequency characteristic is improved or flattened.

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