Abstracts

General Three-Resonator Filters in Waveguide (Correspondence)

R.M. Kurzrok. "General Three-Resonator Filters in Waveguide (Correspondence)." 1966 Transactions on Microwave Theory and Techniques 14.1 (Jan. 1966 [T-MTT]): 46-47.

General three-resonator filters are capable of providing both band-pass and band-reject behavior. This type of filter network has been briefly considered as a generalized triple-tuned circuit. The potential advantages of general three- and four-resonator filters have been more recently discussed by Johnson, who considers dissipationless filters using inductive couplings. Johnson has presented experimental data on a lumped-circuit element general filter at 20 Mc/s, and has suggested some techniques for microwave implementation of general filters. In this correspondence, the performance capabilities of dissipative general three-resonator filters in waveguide will be discussed.

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