Abstracts

Stepped-Ferrite Tunable Evanescent Filters

R.V. Snyder. "Stepped-Ferrite Tunable Evanescent Filters." 1981 Transactions on Microwave Theory and Techniques 29.4 (Apr. 1981 [T-MTT]): 364-371.

A new technique is described for the design of magnetically tunable filters. With this approach, the resonant sections tune at the same rate enabling maintenance of response shape as center frequency is varied. The filters are minimum-phase structures, realizable with as many poles as required. The design is capable of handling much greater power than single-crystal YIG designs, although the tuning bandwidth is much less.

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