

Abstracts

Tunable Microwave and Millimeter-Wave Band-Pass Filters

J. Uher and W.J.R. Hoefer. "Tunable Microwave and Millimeter-Wave Band-Pass Filters." 1991 Transactions on Microwave Theory and Techniques 39.4 (Apr. 1991 [T-MTT]): 643-653.

This paper presents an overview of tunable microwave and millimeter-wave band-pass filters realized in different technologies. Some general design principles are described. Recent progress in the performance of various tunable filters is reported. The paper surveys magnetically tunable filters (ferromagnetic resonance filters, MSW filters, evanescent waveguide filters, E-plane printed circuit filters), electronically tunable filters, and mechanically tunable filters. The typical performance parameters are summarized and compared in terms of suitability for different applications.

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