Abstracts

An Electronically Tunable Band Pass Microwave Filter

I. Kaufman and W.H. Steier. "An Electronically Tunable Band Pass Microwave Filter." 1962 PGMTT National Symposium Program and Digest 62.1 (1962 [MWSYM]): 58-63.

A new type of tunable band pass microwave filter using the dipole resonance of a plasma column has been investigated. The center frequency of the pass band can be electronically tuned over a large portion of the S band. Over this range the insertion loss at the center frequency is less than 2 db and the isolation for frequencies outside the pass band is at least 12 db. The typical 3 db bandwidth of the filter is 150 Mc/s at S band.

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