

Abstracts

Some Dielectric-Waveguide Filter Structures

G.L. Matthaei, D.C. Park, Y.M. Kim and D.L. Johnson. "Some Dielectric-Waveguide Filter Structures." 1983 MTT-S International Microwave Symposium Digest 83.1 (1983 [MWSYM]): 299-301.

Band-stop and band-pass filters utilizing dielectric-waveguide (DW) gratings are discussed and theoretical and measured responses are presented. The simplest band-pass filter of this class consists of two, parallel-coupled gratings with distributed loss added at their far ends. It is shown that using combinations of parallel-coupled and direct-coupled gratings Chebyshev or other pass-band characteristics can be obtained.

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