

Abstracts

On the YIG Film Filters

M. Tsutsumi and K. Okubo. "On the YIG Film Filters." 1992 MTT-S International Microwave Symposium Digest 92.3 (1992 Vol. III [MWSYM]): 1397-1400.

A new type of YIG film filter is proposed which consists of a microstrip line with a substrate of YIG films sandwiched between two dielectric slabs. The dispersion and transmission characteristics are calculated numerically. A sharp stop band characteristics are observed experimentally with half-power bandwidth of 16.4 MHz. Alternatively, in the same line with an air gap band-pass characteristic is observed with quality factor of 430. These experimental results are discussed with theory.

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