Abstracts

Microstrip Line Filters Using Yttrium Iron Garnet Film (Short Papers)

M. Tsutsumi and S. Tamura. "Microstrip Line Filters Using Yttrium Iron Garnet Film (Short Papers)." 1992 Transactions on Microwave Theory and Techniques 40.2 (Feb. 1992 [T-MTT]): 400-402.

The yttrium iron garnet (YIG) film microstrip line is fabricated by using 40 μm thick film of width of 20 mm and length of 10 mm with a microstrip of width 0.7 mm, and magnetized in a transverse direction to the wave propagation. Sharp notch characteristics of more than 30 db with few dB insertion loss are observed experimentally with a variable center frequency from 9 GHz to 11 GHz. Results were explained phenomenologically with the coupled mode theory.

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