Abstracts

Magnetostatic Forward Volume Wave Straight Edge Resonators

K.-W. Chang and W.S. Ishak. "Magnetostatic Forward Volume Wave Straight Edge Resonators." 1986 MTT-S International Microwave Symposium Digest 86.1 (1986 [MWSYM]): 473-475.

The preformance of Magnetostatic Forward Volume Wave Straight Edge Resonators (MSFVW-SER) is presented. The resonator uses a rectangular YIG film to propagate Magnetostatic forward volume waves where the straight edges serve as reflectors. The interference of width mode resonances with the main resonance reported in the MSSW-SER is not observed in the MSFVW-SER. As a result, high-Q tunable microwave resonators with a tuning range from 1-20 GHz, insertion loss less than 8 dB and spurious rejection better than 10 dB have been designed and fabricated.

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