

Mechanically Tunable MSW Bandpass Filter with Combined Magnetic Units

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"Mechanically Tunable MSW Bandpass Filter with Combined Magnetic Units." 1990 MTT-S
International Microwave Symposium Digest 90.1 (1990 Vol. I [MWSYM]): 143-146.

An MSW bandpass filter with combined magnetic units composed of main and sub magnetic units has been developed. Its volume is reduced to one-fifth compared to conventional YIG-sphere filters. The filter can be tuned mechanically and keep the same shape of transmission response in 2.5~2.75 GHz. The insertion loss can be kept less than 3dB within 20MHz bandwidth by adjusting the magnetic field distribution.

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