Abstracts

Electronically Tunable and Switchable Filters Using Microstrip Ring Resonator Circuits

T.S. Martin, F. Wang and K. Chang. "Electronically Tunable and Switchable Filters Using Microstrip Ring Resonator Circuits." 1988 MTT-S International Microwave Symposium Digest 88.2 (1988 Vol. II [MWSYM]): 803-806.

A novel microstrip ring resonator loaded with two PIN diodes has been developed as a switchable filter. By replacing one PIN diode with a varactor diode, the switchable filter can be made electronically tunable. Over 20 dB isolation with 9 percent tuning bandwidth was demonstrated. The experimental results agree very well with the theoretical calculation.

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