Abstracts

A modified microstrip circular patch resonator filter

Boon Tiong Tan, Siou Teck Chew, Mook Seng Leong and Ban Leong Ooi. "A modified microstrip circular patch resonator filter." 2002 Microwave and Wireless Components Letters 12.7 (Jul. 2002 [MWCL]): 252-254.

Circular holes are etched off a microstrip disk resonator. This results in a size reduction of 30%. By offsetting the positions of some of these holes, a degenerate orthogonal mode is excited, resulting in a split-mode bandpass filter. This filter can be considered as a lattice-type structure. A filter with a bandwidth of 8% centered at 2.0 GHz was designed. The measured insertion loss is 0.6 dB.

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