

Abstracts

Cross-coupled microstrip hairpin-resonator filters

Jia-Sheng Hong and M.J. Lancaster. "Cross-coupled microstrip hairpin-resonator filters." 1998 Transactions on Microwave Theory and Techniques 46.1 (Jan. 1998 [T-MTT]): 118-122.

A new class of cross-coupled planar microwave filters using microstrip hairpin resonators is introduced. The realization of both the canonical and the cascaded quadruplet (CQ) filters is feasible. Coupling characteristics of four basic coupling structures encountered in this class of filters are investigated in the light of full-wave electromagnetic (EM) simulations. A four-pole cross-coupled filter of this type is designed and fabricated. Both the theoretical and experimental performance is presented.

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