

Abstracts

A New Semi-Lumped Microwave Filter Structure

A.F. Sheta, K. Hettak, J.P. Coupez, C. Person, S. Toutain and J.P. Blot. "A New Semi-Lumped Microwave Filter Structure." 1995 MTT-S International Microwave Symposium Digest 95.2 (1995 Vol. II [MWSYM]): 383-386.

A novel narrow-band microwave filter structure is presented. The merit of this circuit lies in the simplicity of design formulas readily applicable to narrow-band filters. The structure can be realized in planar or uniplanar technology. The design formulas yield good results for bandwidths lower than 10%. Bandpass filter with 4% relative bandwidth at 3GHz was designed with the proposed theory and then implemented in both microstrip and coplanar technologies. Experimental results show good agreement with theoretical predictions.

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