

Synthesis of Low-Pass Elliptic Filters for MIC as a Class of Non-Commensurate Distributed Circuits

M. Salerno and R. Sorrentino. "Synthesis of Low-Pass Elliptic Filters for MIC as a Class of Non-Commensurate Distributed Circuits." 1982 MTT-S International Microwave Symposium Digest 82.1 (1982 [MWSYM]): 402-404.

A new synthesis technique of low-pass elliptic filters particularly suited for realization in printed circuit version is presented. The synthesis is based on the use of non-commensurate transmission line sections and stubs. Microstrip filters of seventh order with cutoff frequency in the X-band have been fabricated and measured in the frequency range 2-18 GHz. The performance is shown to be quite satisfactory particularly in the pass-band.

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