

Abstracts

Investigation of Coupling Structures for Coplanar Bandpass Filters

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Single side metallization is one of the big advantages of co-planar line (CPW) circuits. On the other hand, coupling in one plane only may lead to difficulties designing end or side coupled bandpass filters due to rather weak or multi-mode coupling of the filter resonators. A possible alternative is the introduction of two metallization layers separated by an additional dielectric sheet. In this paper, a number of possible coupling structures for bandpass filters based on standard CPW as well as on multilayer structures are investigated and compared, including some novel coupling arrangements.

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