Abstracts

Novel lumped-element coplanar waveguide-to-coplanar stripline transitions

Yo-Shen Lin and Chun Hsiung Chen. "Novel lumped-element coplanar waveguide-to-coplanar stripline transitions." 2001 MTT-S International Microwave Symposium Digest 01.2 (2001 Vol. II [MWSYM]): 615-618 vol.2.

Novel reduced-size lumped-element coplanar waveguide-to-coplanar stripline transitions are proposed, using the planar parallel inductor-capacitor (LC) circuits to realize an effective open circuit. A simple equivalent-circuit model is also established, from which characteristics of various lumped-element transition structures are examined. Specifically, lumped-element transitions with bandwidth ranging from 1.8:1 to 3:1 and 1/12 the size of conventional ones can be achieved.

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