Abstracts

Novel lumped-element coplanar waveguide-to-slotline transitions

Yo-Shen Lin and Chun Hsiung Chen. "Novel lumped-element coplanar waveguide-to-slotline transitions." 1999 MTT-S International Microwave Symposium Digest 99.4 (1999 Vol. IV [MWSYM]): 1427-1430 vol.4.

Novel reduced-size lumped-element coplanar waveguide-to-slotline transitions are proposed, using planar parallel LC circuits to replace the /spl lambda//4 transformer structure. A simple equivalent-circuit model is also established, from which various lumped-element transition structures are carefully examined. Specifically, a "ring-type L" lumped element transition with a 1.8:1 bandwidth and 1/12 the size of conventional ones is achieved.

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