Abstracts

Novel lumped-element coplanar waveguide-to-coplanar stripline transitions with low-pass and high-pass characteristics

Yo-Shen Lin and Chun Hsiung Chen. "Novel lumped-element coplanar waveguide-to-coplanar stripline transitions with low-pass and high-pass characteristics." 2002 MTT-S International Microwave Symposium Digest 02.3 (2002 Vol. III [MWSYM]): 2213-2216 vol.3.

Novel lumped-element coplanar waveguide-to-coplanar stripline transitions are proposed, using the planar lumped-elements to realize the low-pass and high-pass filter responses. Simple equivalent-circuit models are also established, from which the characteristics of various lumped-element transition structures are examined. Specifically, a low-pass lumped-element transition with 3 dB cutoff frequency at 3.2 GHz and a high-pass lumped-element transition with 3 dB cutoff frequency at 1.6 GHz can be achieved.

❑ Return to main document.