

Abstracts

Wide-band lumped-element quadrature 3-dB couplers in microstrip

D.P. Andrews and C.S. Aitchison. "Wide-band lumped-element quadrature 3-dB couplers in microstrip." 2000 Transactions on Microwave Theory and Techniques 48.12 (Dec. 2000 [T-MTT] (Special Issue on 2000 International Microwave Symposium)): 2424-2431.

A design procedure for wide-band quadrature 3-dB couplers at microwave frequencies is presented in this paper, wherein lumped elements are incorporated into a microstrip circuit. Design examples for an octave-band coupler and a one-and-one-half octave-band coupler are presented. The topologies presented offer a convenient and cost-effective solution to tight coupling problems, currently solved using distributed circuits.

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