

Abstracts

Electrically Short 90° Couplers Utilizing Lumped Capacitors

C.W. Gerst. "Electrically Short 90° Couplers Utilizing Lumped Capacitors." 1967 G-MTT International Microwave Symposium Program and Digest 67.1 (1967 [MWSYM]): 58-62.

The ultimate size of many microwave components such as beam-forming networks, switching trees, amplifiers, mixers, comb filters, etc., is related to the size of a 90° coupler. The cross-section of a coupler can be reduced by means of todays integrated circuit technology. This paper presents a method of reducing the length of a coupler over and above length reductions possible by means of the utilization of a high dielectric constant medium.

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