

Abstracts

Design of New Hybrid-Ring Directional Using $\lambda/8$ or $\lambda/6$ Sections (Short Papers)

D.I. Kim and G.-S. Yang. "Design of New Hybrid-Ring Directional Using $\lambda/8$ or $\lambda/6$ Sections (Short Papers)." 1991 Transactions on Microwave Theory and Techniques 39.10 (Oct. 1991 [T-MTT]): 1779-1784.

A method for designing 1.25λ -ring and $7\lambda/6$ -ring 3 dB directional couplers using fundamental $\lambda/8$ or $\lambda/6$ sections is proposed and their frequency characteristics are analyzed. Furthermore, experimental verification has been achieved in a microstrip network confirming the validity of the design method for a microwave component with the basic $\lambda/8$ or $\lambda/6$ sections proposed in this paper.

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