

Abstracts

Analysis of the Variable-Ratio Microwave Power Divider (Correspondence)

R.M. Vaillancourt. "Analysis of the Variable-Ratio Microwave Power Divider (Correspondence)." 1958 Transactions on Microwave Theory and Techniques 6.2 (Apr. 1958 [T-MTT]): 238-239.

It has been shown experimentally that a variable-ratio microwave power divider is easily assembled from two identical 3-db directional couplers and a phase changer. The scattering matrix of this structure is readily obtained from the flow graph showing the interconnections between the couplers. The following shows that the whole structure is still a directional coupler, derives the conditions to optimize the power transfer, and finally, gives the phase angles of the scattering coefficients.

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