

Abstracts

A Novel Exponential Power Combiner/Divider

A.M. Affandi and A.M. Milyani. "A Novel Exponential Power Combiner/Divider." 1989 Transactions on Microwave Theory and Techniques 37.2 (Feb. 1989 [T-MTT] (Special Issue on Quasi-Planar Millimeter-Wave Components and Subsystems)): 400-405.

A simple and novel theoretical analysis for an exponential two-way power combiner/divider is developed. The proposed power combiner/divider's parameters, such as input impedance and reflection and transmission coefficients, are determined. The capacitance effect due to the finite thickness of the coupled-line conductor for both uniform and nonuniform transmission lines is found. The properties of the combiner/divider have been tested experimentally.

 [Return to main document.](#)