

Abstracts

A New Class of Broad-Band Microwave 90-Degree Phase Shifters

B.M. Schiffman. "A New Class of Broad-Band Microwave 90-Degree Phase Shifters." 1958 Transactions on Microwave Theory and Techniques 6.2 (Apr. 1958 [T-MTT]): 232-237.

In the type of circuits considered here, the input power is divided equally between two channels whose outputs are caused to have a very nearly 90° phase difference over a broad frequency range. Networks suitable for application at low frequencies which perform the above function have been widely investigated. This report describes a new type of 90° differential phase shifter which has a constant resistance input, and which is useful over bandwidths as large as 5:1 in the microwave region.

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