

Abstracts

Equivalent Circuit Representation for the E-Plane Circulator

K. Solbach. "Equivalent Circuit Representation for the E-Plane Circulator." 1982 Transactions on Microwave Theory and Techniques 30.5 (May 1982 [T-MTT]): 806-809.

The resonator structure employed in an E-plane circulator may be described by a series-resonant circuit as opposed to a parallel circuit in the case of comparable H-plane devices. This is shown to result in a change of the direction of circulation at the edges of the circulator passband. Employing the equivalent circuit representation methods to increase the bandwidth of the E-plane circulator are discussed.

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