

Equivalent Circuit for a Lumped-Element Y Circulator (Correspondence)

J.O. Bergman and C. Christensen. "Equivalent Circuit for a Lumped-Element Y Circulator (Correspondence)." 1968 Transactions on Microwave Theory and Techniques 16.5 (May 1968 [T-MTT]): 308-310.

A new symbol for the ideal circulator with the impedance matrix (1) has been proposed (Fig. 2). The symbol is used in the derivation of the equivalent circuits for a lumped-element three-port circulator where the loss resistances are excluded.

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