Abstracts

Millimeter-Wave Four-Port Circulator Using Distributed Coupling Effect

J. Mazur and M. Mrozowski. "Millimeter-Wave Four-Port Circulator Using Distributed Coupling Effect." 1991 Microwave and Guided Wave Letters 1.12 (Dec. 1991 [MGWL]): 396-398.

The design and experimental results for a four port circulator based on new concept using a distributed coupling phenomenon are presented. The circulator consists of a E-H junction cascaded with the section of two coupled lines containing ferrite magnetized in the propagation direction. The choice of configuration and the design procedure are described. Isolation 15 dB in the 26-30 GHz band is obtained confirming the validity of the theory and design procedure.

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