

Abstracts

Application of the Planar Model to the Analysis and Design of the Y-Junction Strip-Line Circulator

S.A. Ivanov. "Application of the Planar Model to the Analysis and Design of the Y-Junction Strip-Line Circulator." 1995 *Transactions on Microwave Theory and Techniques* 43.6 (Jun. 1995 [T-MTT]): 1253-1263.

The constituent ferrite resonator and matching transformers of the Y-junction stripline circulator are replaced with their planar equivalents. In this way the fringing fields are taken into consideration and more adequate formulae for circulator design are obtained. Then, the frequency behavior of the resonator input impedance is analyzed in detail for selection of the most appropriate matching procedure. The results are in good agreement with experimental data for S-band.

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