Abstracts

A New Fin-Line Ferrite Isolator for Integrated Millimeter-Wave Circuits

A. Beyer and K. Solbach. "A New Fin-Line Ferrite Isolator for Integrated Millimeter-Wave Circuits." 1981 Transactions on Microwave Theory and Techniques 29.12 (Dec. 1981 [T-MTT] (1981 Symposium Issue)): 1344-1348.

A ferrite isolator in fin-line technique is investigated both theoretically and experimentally. Since fin-line field distributions exhibit similar properties, the realilzation of a field displacement isolator is possible applying the principles of operation known from metal waveguide isolators. A field expansion method for a simplified isolator model is presented for the investigation of the field theoretical problem. Furthermore the feasibility of the fin-line field displacement approach for the realization of an isolator is demonstrated experimentally at the model frequency of 11 GHz.

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