Abstracts

Reflection Problems in a Ferrite Stripline

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In this paper, the transmission characteristics of a ferrite stripline are investigated in comparison with those of an ordinary dielectric substrate stripline, Also, both "short"-end and "open"-end reflection problems of a ferrite stripline are solved by means of the eigenmode expansion method; the results, which are confirmed by experiments, show that there is a large difference between the two reflection coefficients. For the short end, very little reflection occurs. Finally, as a practical application, a new type of EG mode isolator based on these results is proposed.

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