

New Configurations of the Nonreciprocal Remanence Ferrite Phase Shifter

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For the purpose of improving the performance characteristics of the nonreciprocal remanence ferrite phase shifter, new configurations are proposed here which are characterized by the adoption of the grooved waveguide. Some results calculated mainly as a function of the grooved waveguide height are shown and compared, in good agreement, with experimental values. The Figure-of-Merit and handling power level of the proposed phase shifter are discussed in comparison with those of the ordinary one.

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