

W-Band Ferrite - Dielectric Image-Line Field Displacement Isolators

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This paper describes the results of theoretical and experimental studies of image line field displacement isolators operating at W band (90-100 GHz). Isolators were fabricated using gadolinium gallium garnet, and GaAs as the dielectric and Trans-Tech TT2-111 Nickel-Zinc Ferrite and Epitaxial Yttrium Iron Garnet as the non-reciprocal medium. Isolators with S_{21}/S_{12} ratios of greater than 20db have been designed, fabricated and tested.

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