

Abstracts

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

J.M. Owens, J.Y. Guo, W.A. Davis and R.L. Carter. "W-Band Ferrite - Dielectric Image-Line Field Displacement Isolators." 1989 MTT-S International Microwave Symposium Digest 89.1 (1989 Vol. 1 [MWSYM]): 141-144.

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_{sub 21}/S_{sub 12} ratios of greater than 20db have been designed, fabricated and tested.

[Return to main document.](#)