

# Abstracts

## Nonlinear behavior of electromagnetic waves in the YIG film microstrip line

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*M. Tsutsurni, T. Ueda and K. Okubo. "Nonlinear behavior of electromagnetic waves in the YIG film microstrip line." 1998 MTT-S International Microwave Symposium Digest 98.2 (1998 Vol. II [MWSYM]): 841-844.*

The limiter and microwave soliton behavior were experimentally demonstrated in the microstrip line using the 20  $\mu\text{m}$  thick yttrium iron garnet film substrate at S band. These nonlinear phenomena were explained by the strong coupling between quasi-TEM and magnetostatic forward volume wave modes at magnetic resonance frequency of  $\omega_0$  from an implicit dispersion relation of the stripline.

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