

Abstracts

Magnetostatic Wave Delay Lines Using the Nonuniformly Magnetized YIG Film

M. Tsutsumi, T. Sakurai and N. Kumagai. "Magnetostatic Wave Delay Lines Using the Nonuniformly Magnetized YIG Film." 1984 MTT-S International Microwave Symposium Digest 84.1 (1984 [MWSYM]): 351-354.

This paper treats the group delay characteristics of the magnetostatic forward volume waves in a nonuniformly magnetized yttrium iron garnet film in the propagation direction of the wave. The long time delay more than 1μ second with low propagation loss is observed by the pulse experiment at S band. The tapered transmission line model of the magnetostatic wave guide magnetized nonuniformly is also presented.

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