

Abstracts

Magnetostatic Volume Wave Resonators

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The purpose of this paper is to report new advances about magnetostatic volume wave (MSVW) resonators. The waves have been propagated in an epitaxial yttrium iron garnet (YIG) film at GHz frequencies. These devices use periodic etched groove gratings as distributed reflectors for MSVW. The design and experimental data about a magnetostatic forward volume wave (MSFVW) and a magnetostatic backward volume wave (MSBVW) resonators are given. The frequency response, the Q value and the tunability are reported and compared to those obtained with magnetostatic surface wave (MSSW) resonators.

 [Return to main document.](#)