Abstracts

A Tunable Magnetostatic Volume Wave Oscillator

J.P. Castera, P. Hartemann, J.M. Dupont, Y. Le Tron, A. Bert and A. Trillaud. "A Tunable Magnetostatic Volume Wave Oscillator." 1983 MTT-S International Microwave Symposium Digest 83.1 (1983 [MWSYM]): 318-322.

A 3.4 GHz to 7.0 GHz tunable oscillator using a magnetostatic volume wave resonator as the frequency selective element and GaAs FET chips for gain in the feedback loop has been achieved and tested. Oscillator circuit has been designed using the theoretical model of a GaAs FET and the equivalent circuit of the resonator. This oscillator delivers a + 7 dBm output signal at 7 GHz with a low FM noise of - 90 dBc/Hz, 10kHz removed from the carrier.

❑ Return to main document.