Abstracts

Oscillators Using Magnetostatic-Wave Active Tapped Delay Lines

C.-L. Chen, A. Chu, L.J. Mahoney, W.E. Courtney, R.A. Murphy and J.C. Sethares. "Oscillators Using Magnetostatic-Wave Active Tapped Delay Lines." 1989 Transactions on Microwave Theory and Techniques 37.1 (Jan. 1989 [T-MTT]): 239-243.

A novel oscillator that combines a magnetostatic wave (MSW) tapped delay line with GaAs monolithic microwave integrated circuits (MMIC's) has been fabricated. This oscillator incorporates an external feedback loop which is extremely short and provides multiple outputs delayed in time by the MSW delay line. The oscillator is tunable from 2.76 to 2.95 GHz and the 3-dB bandwidth of the oscillation is approximately 10 kHz.

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