Abstracts

MSSW Transversal Filters Based on Current Weighting in Narrow (10 µm) Transducers

Y.J. Ataiiyan, J.M. Owens, K.W. Reed, R.L. Carter and W.A Davis. "MSSW Transversal Filters Based on Current Weighting in Narrow (10 µm) Transducers." 1986 MTT-S International Microwave Symposium Digest 86.1 (1986 [MWSYM]): 575-578.

A Magnetostatic Surface Wave, tunable bandpass filter using current weighted transducer arrays based on transversal filtering techniques has been built. A 100 MHz bandpass filter was realized with a minimum insertion loss of 15 dB and sidelobe suppression of 20 dB. The usable tunability range of the device was from 2 to 3.5 GHz.

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