

Abstracts

Real Time Discrete Fourier Transforms Using a Programmable Diode-Convolver Module

T.M. Reeder, J.M. Speiser and H.J. Whitehouse. "Real Time Discrete Fourier Transforms Using a Programmable Diode-Convolver Module." 1975 MTT-S International Microwave Symposium Digest of Technical Papers 75.1 (1975 [MWSYM]): 365-367.

A new surface acoustic wave delay line module is described which provides, for the first time, the ability to compute the real time Discrete Fourier Transform (DFT) with electronically variable bandwidth. Initial experiments with 12 and 32 tap PDC modules are described which demonstrated a 40 dB tap dynamic range and Fourier bandwidth variable from zero to beyond 10 MHz.

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