

Abstracts

A Multi-Gigabit Signal Processing System

C.R. Ryan. "A Multi-Gigabit Signal Processing System." 1978 MTT-S International Microwave Symposium Digest 78.1 (1978 [MWSYM]): 54-57.

Signal processing in the multi-gigabit per second range can be accomplished by making use of a very simple ring diode structure imbedded in a MIC. This circuit can be characterized as a single pole double throw switch with switching times of less than 100 ps. It is capable of performing as the basic element in a variety of processing functions including signal multiplexing, demultiplexing signal sampling and as a shift register. Data rates up to 4 GB/S have been processed using this technique.

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