

Abstracts

A Monolithic GaAs 3-Bit Phase Quantization Sampler

T. Vu and J. Hattis. "A Monolithic GaAs 3-Bit Phase Quantization Sampler." 1987 Microwave and Millimeter-Wave Monolithic Circuits Symposium Digest 87.1 (1987 [MCS]): 43-47.

This paper describes the analysis, design, and development of a high-speed A/D and D/A converter using phase-quantization sampling. A monolithic GaAs A/D and D/A converter has been demonstrated within a RF signal acquisition system. Performance data on the monolithic IC reveals that the 3-bit quantization system exhibits signal reconstruction with harmonic suppression exceeding -25 dB across an IF bandwidth of greater than 900 MHz.

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