Abstracts

Broadband and Real-Time Waveform Sampling Using Optic-Microwave Phase-Locking

S.L. Huang, H.-L.A. Hung and C.H. Lee. "Broadband and Real-Time Waveform Sampling Using Optic-Microwave Phase-Locking." 1993 MTT-S International Microwave Symposium Digest 93.3 (1993 Vol. III [MWSYM]): 1387-1390.

A real-time, 100-GHz, high-fidelity photoconductive sampling system has been demonstrated. The system provides a 4-ps time resolution, and 5-µV//spl radic/Hz sensitivity. Potential application of this technique is the real-time characterization of monolithic/millimetere-wave integrated circuits with bandwidths higher than a conventional network analyzer.

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