

Abstracts

The Differential Reference Frequency Synthesizer

Z. Galani, M.J. Bianchini and J.A. Chiesa. "The Differential Reference Frequency Synthesizer." 1991 MTT-S International Microwave Symposium Digest 91.3 (1991 Vol. III [MWSYM]): 1161-1163.

Indirect digital frequency synthesizers cannot achieve fast frequency switching with closely spaced frequencies because of limitations imposed by the requisite narrow loop bandwidth. A novel dual-loop digital frequency synthesizer is presented which satisfies these conflicting requirements and, in most cases, exhibits improved phase noise performance.

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