

# Abstracts

## A Novel, Injection Locked Oscillator MMIC with Combined Ultra-Wide-Band Active Combiner/Divider and Amplifiers (1994 [MCS])

*T. Tokumitsu, K. Kamogawa, I. Toyoda and M. Aikawa. "A Novel, Injection Locked Oscillator MMIC with Combined Ultra-Wide-Band Active Combiner/Divider and Amplifiers (1994 [MCS])."* 1994 Microwave and Millimeter-Wave Monolithic Circuits Symposium Digest 94.1 (1994 [MCS]): 143-146.

A subharmonically injection locked oscillator (ILO) MMIC for LO oscillators, synthesizers and phased array antennas is proposed. An ultra-wide-band, 4-port active combiner/divider in the oscillator feedback loop performs subharmonic injection locking at a variety of subharmonic factors,  $1/n$ . The ILO MMIC's exhibit a locking range of 700 MHz at  $n= 1$  and operate at  $n$  from 1 to 16, with output power larger than 5 dBm.

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