

Abstracts

The Heterodyne VCO

R.G. Winch. "The Heterodyne VCO." 1983 MTT-S International Microwave Symposium Digest 83.1 (1983 [MWSYM]): 475-476.

Using synchronously controlled varactor tunable oscillators into both the RF and LO ports of a mixer produces a resulting VCO output which is extremely linear and wideband. A deviation from best straight line of $\pm 25\text{MHz}$ has been achieved over a frequency range of 2-8GHz, tunable in only 4.77V. This high modulation sensitivity is accompanied by a fast set-on time of < 20ns.

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