Abstracts

Nonlinear Design and Experimental Results of a Low-Noise Varactor Tunable Oscillator Using a Coupled Microstrip Resonator

V. Gungerich, M. Schwab and P. Russer. "Nonlinear Design and Experimental Results of a Low-Noise Varactor Tunable Oscillator Using a Coupled Microstrip Resonator." 1992 MTT-S International Microwave Symposium Digest 92.2 (1992 Vol. II [MWSYM]): 549-552.

A varactor tunable oscillator with a coupled microstrip resonator was designed, using a nonlinear predictor-corrector method. Calculated and measured tuning characteristic agree better than 1%. Even at a low quality factor of the varactor the oscillator has the very low phase noise of +95dBc/Hz at 100KHz offset frequency.

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