

Reduced Phase Noise of a Varactor Tunable Oscillator: Numerical Calculations and Experimental Results

V. Gungerich, F. Zinkler, W. Anzill and P. Russer. "Reduced Phase Noise of a Varactor Tunable Oscillator: Numerical Calculations and Experimental Results." 1993 MTT-S International Microwave Symposium Digest 93.2 (1993 Vol. II [MWSYM]): 561-564.

Single sideband phase noise of a varactor tunable oscillator is much lower in case of using a resonator with coupled microstrip lines instead of a single microstrip line. Calculated and measured phase noise agree within the accuracy of measurements. The very low phase noise of -95 dBc/Hz at 100 kHz offset frequency has been achieved.

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