

Abstracts

FM Noise Suppression of an Injection Phase-Locked Oscillator

M.E. Hines, J.-C.R. Collinet and J.G. Ondria. "FM Noise Suppression of an Injection Phase-Locked Oscillator." 1968 Transactions on Microwave Theory and Techniques 16.9 (Sep. 1968 [T-MTT] (Special Issue on Noise)): 738-742.

The phenomenon of injection phase-locking may be used to synchronize one or more oscillators to a lower power master or reference oscillator and also reduce part of the resultant FM noise power spectrum. A theory is presented that predicts the resultant FM noise spectrum of an injection phase-locked oscillator when the spectrum of the reference source and the free-running oscillator are known. Experiments conducted are described and comparison with theoretical predictions are discussed.

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