

Abstracts

A Single-Resonator GaAs FET Oscillator with Noise Degeneration

M.J. Bianchini, J.B. Cole, R. DiBiase, Z. Galani, R.W. Laton and R.C. Waterman, Jr.. "A Single-Resonator GaAs FET Oscillator with Noise Degeneration." 1984 MTT-S International Microwave Symposium Digest 84.1 (1984 [MWSYM]): 270-273.

A low noise GaAs FET oscillator circuit is presented. It uses a single dielectric resonator both in the oscillator feedback circuit and as the dispersive element of a discriminator in a frequency locked loop used for noise degeneration. An FM noise level of -120 dBc/Hz at 10 kHz offset was measured at X-band.

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