

Abstracts

A 23 GHz Monolithic MESFET DRO as Self-Oscillating Mixer

U. Guttich. "A 23 GHz Monolithic MESFET DRO as Self-Oscillating Mixer." 1992 MTT-S International Microwave Symposium Digest 92.3 (1992 Vol. III [MWSYM]): 1309-1311.

A monolithic GaAs 23 GHz dielectric resonator oscillator (DRO) was investigated as self-oscillating mixer in Doppler-radar applications. A maximum conversion gain of 10 dB at low oscillator power level and small frequency off carrier was calculated and measured. The associated minimum detectable signal (MDS) was determined to be between -130 dBm and -120 dBm.

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