

Abstracts

A Millimetre-Wave Self-Oscillating Mixer Using a GaAs FET Harmonic-Mode Oscillator

D.H. Evans. "A Millimetre-Wave Self-Oscillating Mixer Using a GaAs FET Harmonic-Mode Oscillator." 1986 MTT-S International Microwave Symposium Digest 86.1 (1986 [MWSYM]): 601-603.

A 34 GHz self-oscillating mixer is described. The harmonic-mode oscillator which is constructed in microstrip produces 4 mW and as a mixer has minimum detectable signal sensitivity of -121.6dBm/ Hz at a Doppler frequency of 4 kHz. It is potentially a low cost sensor for motion and proximity detection.

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