

Abstracts

A Radiating Monolithic Integrated Planar Oscillator at 55 GHz

A. Stiller, K.M. Strohm, E. Sasse, E. Biebl and J.-F. Luy. "A Radiating Monolithic Integrated Planar Oscillator at 55 GHz." 1996 *Microwave and Guided Wave Letters* 6.2 (Feb. 1996 [MGWL]): 100-102.

A planar radiating oscillator consisting of a planar resonant antenna and an IMPATT diode monolithically integrated on a silicon substrate is presented. This oscillator finds various applications in low-cost sensors, e.g., velocity sensors. The design tools are discussed and the calculated results are compared to measurements.

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