

Abstracts

GaAs Monolithic Circuit for FMCW Radars (1988 [MCS])

R. LeBlanc, M.-I. Rudelle, V. Pauker, P. Talbot, A. Collet and J. Bellaiche. "GaAs Monolithic Circuit for FMCW Radars (1988 [MCS])." 1988 Microwave and Millimeter-Wave Monolithic Circuits Symposium Digest 88.1 (1988 [MCS]): 109-112.

A GaAs monolithic transmitter-receiver to be used in a radar system has been fabricated. It operates between 4 and 6 GHz with a 200 to 400 MHz tuning range. The excellent Voltage Controlled Oscillator tuning linearity, the very high external quality factor, the low I/F noise at the 5 kHz to 10 MHz output port, combined with a reduced size show that the GaAs monolithic ICs are suitable for this type of Radar systems.

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