

Abstracts

First Demonstration of a GaInP/GaAs HBT Microwave Oscillator

S.J. Prasad and C. Haynes. "First Demonstration of a GaInP/GaAs HBT Microwave Oscillator." 1994 MTT-S International Microwave Symposium Digest 94.1 (1994 Vol. 1 [MWSYM]): 87-90.

A GaInP/GaAs HBT YIG oscillator tunable from 6 to 9GHz is presented. The HBT used in this circuit has an $f_{sub T}$ and $f_{sub max}$ of 42 and 33GHz respectively. At 7.8GHz, the phase noise of the oscillator was -85dBc/Hz when offset from the carrier by 10kHz. The phase noise of the present oscillator compares well with the phase noise results of other AlGaAs/GaAs HBT oscillators.

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