Abstracts

MMIC-Compatible 55 mW InP and GaAs 30 - 40 GHz Field Controlled TE-Oscillators

K. Lubke, H. Scheiber, D. Grutzmacher, C. Diskus and H. Thim. "MMIC-Compatible 55 mW InP and GaAs 30 - 40 GHz Field Controlled TE-Oscillators." 1989 MTT-S International Microwave Symposium Digest 89.2 (1989 Vol. II [MWSYM]): 729-730.

55 mW 34 GHz InP, 56 mW 29 GHz GaAs and 39 mW 37 GHz GaAs lateral MMIC-compatible transferred electron oscillators with MESFET injection contacts have been fabricated exhibiting 2.9%, 5.3% and 4.9% efficiencies, respectively. CW power levels are somewhat lower (30 mW). The achieved power levels are the highest ever obtained with lateral TEOs and FET-oscillators.

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