

Abstracts

A Multi-IMPATT Injection-Locked Oscillator at 35 GHz

M.G. Adlerstein and J. Fines. "A Multi-IMPATT Injection-Locked Oscillator at 35 GHz." 1989 Transactions on Microwave Theory and Techniques 37.3 (Mar. 1989 [T-MTT]): 571-579.

A 35 GHz solid-state injection-locked oscillator giving 38 W peak power with 30 percent duty cycle is described. The power source utilizes a total of ten GaAs IMPATT diodes grouped in two stages. In this paper, we discuss the performance of the source as well as the systematic design and measurement procedures used to develop the multidiode cavities employed.

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