

Abstracts

Injection Locking of an IMPATT Diode Oscillator by Using a Low-Frequency Signal Parametric Injection Locking

H. Okamoto and M. Ikeda. "Injection Locking of an IMPATT Diode Oscillator by Using a Low-Frequency Signal Parametric Injection Locking." 1977 MTT-S International Microwave Symposium Digest 77.1 (1977 [MWSYM]): 234-236.

A new injection locking process is proposed and demonstrated experimentally, where a low-frequency injection signal can be used to lock an ultra-high frequency solid-state oscillator. This process has much wider locking bandwidth than the conventional subharmonic injection locking.

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