

Abstracts

Highly Stabilized Half-Watt IMPATT Oscillator (1970 [MWSYM])

S. Nagano. "Highly Stabilized Half-Watt IMPATT Oscillator (1970 [MWSYM])." 1970 G-MTT International Microwave Symposium Digest of Technical Papers 70.1 (1970 [MWSYM]): 170-173.

Microwave solid state oscillators such as IMPATT and Gunn oscillators are coming into practical uses. These are very impressive devices, but having several practical problems. They include insufficient frequency stability for temperature variations, insufficient output power level as a transmitter oscillator, and higher noise level. Currently, the output power level of commercially available IMPATT diodes are improving, and more than several watts is obtainable in laboratory. If the frequency stability and noise problems are solved without much increasing the oscillator size, the IMPATT oscillator can replace conventional oscillators in many applications.

 [Return to main document.](#)