

Abstracts

A Multiple-Diode Structure for High Power Microwave Generation

K. Fukui and S. Nogi. "A Multiple-Diode Structure for High Power Microwave Generation." 1978 MTT-S International Microwave Symposium Digest 78.1 (1978 [MWSYM]): 357-359.

A high power microwave oscillator with multiple-diode structure is proposed, which is merely a series connection of several waveguide sections having a pair of diode-mounts placed symmetrically with the guide-axis. The method for perfect addition of powers generated by each component diode is discussed. Experiments were carried out for double-, quadruple- and sextuple-diode case, and performances were confirmed in fairly good agreement with the theoretical results.

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