

Abstracts

Development and Applications of Millimeter Wavelength, High Power Optically Pumped Lasers

N.C. Luhmann, Jr. and A. Semet. "Development and Applications of Millimeter Wavelength, High Power Optically Pumped Lasers." 1977 MTT-S International Microwave Symposium Digest 77.1 (1977 [MWSYM]): 76-78.

The performance and applications of high power pulsed lasers in the 0.75 - 2 mm wavelength region is discussed. A narrow-linewidth, oscillator-amplifier configuration, pumped by a grating tuned CO₂ laser, has produced pulsed power levels (~100 nsec duration) of approximately 50 kW at 0.862 mm, 1.006 mm and 1.222 mm.

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