Abstracts

Development of Megawatt-Level Narrow-Band Far-Infrared Lasers for Plasma Diagnostics (Letters)

F. Brown and D.R. Cohn. "Development of Megawatt-Level Narrow-Band Far-Infrared Lasers for Plasma Diagnostics (Letters)." 1974 Transactions on Microwave Theory and Techniques 22.12 (Dec. 1974, Part I [T-MTT] (Special Issue on the Proceedings of the First International Conference on Submillimeter Waves and Their Applications)): 1112-1113.

Required megawatt-level 30-MHz Iinewidth 496-µm radiation for plasma diagnostics may be achieved in CH/sub 3/F using an oscillator-pulse-amplfier combination employing transverse optical pumping (TOP). It is estimated that an upper limit of 150 J of CO/sub 2/ laser pump energy is required to produce 1-MW (0.07-J 60-ns) far-infrared (FIR) pulses.

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