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Tuesday, June 30, 2020

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Wavelength Stabilized Fiber-coupled Laser Modules for DPSS and Fiber Laser Pumping

M. Hemenway*, Z. Chen, M. Kanskar, W. Urbanek, D. Dawson, L. Bao, M. DeVito, K. Fortier, R. Martinsen, K. Welch, R. Ballahan

nLIGHT, Inc., 5408 NE 88th Street, Bldg. E, Vancouver, WA 98665, USA

Abstract

1. INTRODUCTION

Wavelength Stabilized Fiber-coupled Laser Modules for DPSS and Fiber Laser Pumping

nLIGHT continues to drive innovation in multi-emitter diode modules, as demonstrated by successfully reducing our laser diode voltage by means of a revised epitaxy across multiple wavelengths, and then demonstrating module level results of these new devices by successfully productizing 465 W with a beam NA of 0.16 at 920 nm, in a 24-emitters module with 200 µm fiber, and also achieving 265 W at 53 % efficiency with VBG stabilized 885 nm devices in 24-emitter module coupled into 200 µm fiber, all while measuring an extremely broad locking range.

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