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Laser Physics Letters
Volume 7, Issue 9, 2010, Pages 673-676

Multi-wavelength fiber laser in the S-band region using a Sagnac loop mirror as a comb generator in an SOA gain medium (Article)

Zulkifli, M.Z.^a, Hassan, N.A.^a, Awang, N.A.^a, Ghani, Z.A.^b, Harun, S.W.^c, Ahmad, H.^a

^aPhotonics Laboratory, Department of Physics, University of Malaya, 50603 Kuala Lumpur, Malaysia

^bFaculty of Applied Sciences, MARA University of Technology, 40450 Shah Alam, Selangor, Malaysia

^cDepartment of Electrical Engineering, Faculty of Engineering, University of Malaya, 50603 Kuala Lumpur, Malaysia

Abstract

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A simple design of multi-wavelength generation in the S-band region of the optical network transmission is proposed. The design consists of broad-band fiber Bragg grating (BB-FBG), which acts as a filter to enhance operation in the S-band region. A Sagnac loop mirror (SLM) is used to generate multiple wavelength oscillations in the ring cavity. The output consists of 60 lasing wavelengths oscillating simultaneously between 1464 nm and 1521 nm with a spacing of 0.92 nm and an output linewidth of 0.66 nm. © 2010 by Astro Ltd.

SciVal Topic Prominence

Topic: Erbium-Doped Fiber | Ring Lasers | Thulium

Prominence percentile: 92.917

Author keywords

Fiber laser Sagnac loop mirror Semiconductor optical amplifier

ISSN: 16122011

Source Type: Journal

Original language: English

DOI: 10.1002/lapl.201010046

Document Type: Article

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(2001) *Electronics Letters*, 37 (16), pp. 1015-1017. Cited 65 times.
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