

Comparison of High Temperature Resistance and Reliability of Wavelength Division Multiplexing WDM

In this paper, we study the design-in reliability of DFB InP lasers involving the controlling parameters such as p-metal contact, epitaxial regrowth interface, substrate quality and laser cavity...

Here, we develop a novel design approach that co-optimizes inverse-designed wavelength division multiplexers and distributed Bragg gratings to achieve ultra-low crosstalk without compromising ...

Abstract--We demonstrate a robust, compact and low-loss four-channel wavelength-division multiplexing (WDM) filter based on cascaded double-ring resonators (2RR) in silicon.

This research article presents the design and simulation of a 32-channel Dense Wavelength Division Multiplexing (DWDM) system using OptiSystem software, focusing on high-capacity optical ...

The crosstalk of optical signals in PNoC by wavelength division multiplexing is analyzed, and the influence of temperature on crosstalk noise of wavelength assignment is discussed. A ...

Based on research and comparison, wavelength division multiplexing technology has the advantages of easy reconstruction and good scalability. Still, problems such as immature technology of some ...

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The article explains the fundamental principle and its advantages over using a single high-bandwidth channel, particularly in overcoming limitations from electronic speeds and optical dispersion.

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Effective temperature monitoring, performing as the foundation of thermal-aware management techniques, is critical for ONoCs. On that basis, we further develop novel routing approaches to ...

Here we propose a scalable on-chip parallel IM-DD data transmission system enabled by a single-soliton Kerr microcomb and a reconfigurable microring resonator-based CD compensator. ...



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