# 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 ...

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

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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