Testing of Wavelength Division Multiplexing Demultiplexer

In advance of space-division multiplexing (SDM) WDM communications, we investigate wavelength multiplexer/demultiplexer designs operating over multiplexed spatial modes ...

Rigorous testing and measurement are essential for ensuring the performance and conformance of components within photonic networks, which are increasingly complex due to the high number of ...

Dense wavelength-division multiplexing (DWDM) refers originally to optical signals multiplexed within the 1550 nm band so as to leverage the capabilities (and cost) ...

The WaveReady 40- and 44-Channel Multiplexer/Demultiplexer (DWDM Mux/Demux-40 and -44) are scalable high-capacity terminal dense wavelength division multiplexing (DWDM) solutions that allows ...

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 ...

In this paper, a 16-channel SOI-based wavelength division multiplexer/demultiplexer with dual-tunable function is demonstrated, which can realize the wavelength division multiplexing/demultiplexing ...

Coarse wavelength division multiplexing (CWDM) systems are widely used in telecommunications and data center interconnects. The polarization-sensitive characteristics of the ...

An on-chip 64-channel hybrid (de)multiplexer for wavelength-division multiplexing (WDM) and mode-division multiplexing (MDM) is designed and demonstrated on a 220 nm SOI platform for ...

Dense Wavelength Division Multiplexing (DWDM) Corning DWDM multiplexers and demultiplexers utilize advanced thin-film filter and athermal waveguide technology designed for low insertion loss, ...

In this paper, we demonstrate a TE-polarized 4-channel ring-resonator based demultiplexer with collective thermal tuning. The receiver grid can be tuned to the incoming laser grid and is robust to ...

Here, we utilized the birefringence effect for simultaneously demultiplexing wavelengths and polarizations, and experimentally demonstrated a polarization-independent wavelength...

The proposed ultracompact graphene-based demultiplexer enables electrically tuned optical demultiplexing for DWDM systems as a potential alternative to the thermooptically tuned ...

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Sequential quadratic programming (SQP) and the finite element method (FEM) are employed simultaneously to design on-chip wavelength-division demultiplexers exhibiting ultra-high ...

In this paper, we designed and simulated a 16-channel wavelength WDM based on SWG.

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