

Preview

We propose a 6-mode and 10-mode photonic lantern mode multiplexer based on two- and three-layer silica planar lightwave circuitry, respectively. The 6-mode multiplexer has transmission greater than -0.19.

Wavelength-division multiplexing (WDM), increases the information-carrying capacity of a fiber by assigning multiple incoming optical signals to specific light frequencies (or wavelengths) within a

In this article, we introduce optical device technologies that utilize the optical propagation mode in an integrated optical waveguide component called a planar lightwave circuit.

Wavelength Division Multiplexing (WDM) Abstract Wavelength division multiplexing or WDM allows the combining of a number of independent information-carrying wavelengths onto the same fiber,

We propose a 6-mode and 10-mode photonic lantern mode multiplexer based on two- and three-layer silica planar lightwave circuitry, respectively. The 6-mode multiplexer has

We are now researching silica planar lightwave circuit (PLC) technology and various devices using it as a means of controlling modes. In this article, we introduce a wavelength division multiplexer using

the need of multiplexers, specifically wavelength division multiplexers. A few popular optical multiplexing techniques are discussed later in this chapter. Also, it should be noted that being bi-directional

Therefore the AWG is widely used in large capacity optical transmission systems as an optical multi / demultiplexer that bundles and separates optical signals of different wavelength.

Abstract and Figures A novel wavelength demultiplexer design is proposed for the development of integrated optical triplexer transceiver in fiber-to

Compact devices for wavelength division multiplexing and demultiplexing, believed to be novel, are presented. These devices are based on planar optics configurations, comprising multiplexed

The present invention relates to a wavelength-division multiplexer employing a planar lightwave circuit in the wavelength-division multiplexer/demultiplexer of a telecommunication...

We describe a wide range of reconfigurable optical add-drop multiplexer architecture designs that may be

implemented in standard silica-on-silicon planar lightwave circuits. This proven, reliable

The author describes the design of an integrated $N \times N$ multiplexer capable of simultaneously multiplexing and demultiplexing a large number (up to about 50) of input and output wavelength channels. The

A wavelength-division multiplexer with no polarization dependence is demonstrated. It is based on an arrayed-waveguide grating fabricated with silica-based optical waveguides on a silicon

This paper reviews the recent progress in planar lightwave circuit devices for optical WDM systems and subscriber networks with particular emphasis on $N \times N$ arrayed-waveguide grating multiplexers and

Abstract - An array waveguide grating multiplexer and demultiplexer in particular is one of most successful optical filters and it is a key component of photonic networks and it is cost-effective

Abstract: This work demonstrated a new approach of planar multi-channel wavelength division multiplexing (WDM) system using photonic crystal structures. The system consists of a waveguide

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