

AWG Wavelength Division Multiplexer Anti-tracking



Overview

Two types are available: integrated arrayed waveguide gratings (AWG), offering low cost, compact size, and precise ITU grid alignment; and discrete filter-based WDMs, providing greater flexibility to accommodate a wide range of wavelengths and fiber types. We produce fiber-coupled Wavelength-Division Multiplexing (WDM) devices that combine (Mux) or separate (DeMux) multiple wavelength channels into or from a single optical fiber. The features and characteristics of the Optical Arrayed Waveguide Grating are also discussed. 4-nm channel spacing for dense wavelength-division multiplexing systems is designed and realized successfully.

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This page describes the basics of an AWG (Arrayed Waveguide Grating) used in optical fiber communication. It explains the operation of an Arrayed Waveguide Grating (AWG) as an optical ...



Abstract: In this work, we propose an 8-channel arrayed waveguide grating (AWG) designed for synchronized de-multiplexing of both polarization and wavelength. The AWG device is fabricated on ...



A silicon arrayed-waveguide grating (AWG) with 1.6-nm channel spacing is proposed and realized with high performances for dense wavelength-division (de)multiplexing systems.



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Arrayed waveguide gratings (AWG) are commonly used as optical (de)multiplexers in wavelength division multiplexed (WDM) systems. These devices are capable of multiplexing many wavelengths into a single optical fiber, thereby increasing the transmission capacity of optical networks considerably. The devices are based on a fundamental principle of optics, which states that light waves of different wavelengths do not interfere linearly with each other. This means that, if each channel in an optical communication

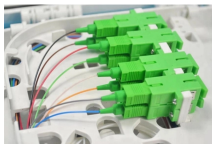


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Length:44mm
Small-end inner diameter:3.0mm
Large-end inner diameter:5.5mm

The potential of InP-based AWG to be integrated in circuits with multiple functionalities such as WDM transceivers, and optical add-drop multiplexers is its biggest advantage.



We describe the progress in integrated wavelength-division multiplexing (WDM) photoreceivers that feature low-loss arrayed waveguide gratings (AWGs) for high-speed throughput of up to 100 Gbit/s ...



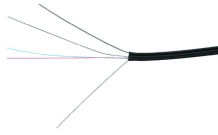
A silicon arrayed-waveguide grating (AWG) with 1.6-nm channel spacing is proposed and realized with high performances for dense wavelength ...



A high-performance silicon arrayed-waveguide grating (AWG) with 0.4-nm channel spacing for dense wavelength-division multiplexing systems is designed and realized successfully.



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



In order to further increase the amount of data transmission, the 48-channel dense wavelength-division multiplexing (DWDM) technology has been developed.

Contact Us

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