Fabrication of Arrayed Waveguide Gratings

Overview

1 × 8 and 1 × 16 traditional/saddle arrayed waveguide grating (AWG) devices with different core layer materials applied in fiber Bragg grating (FBG) system were designed, fabricated and compared. We ap.

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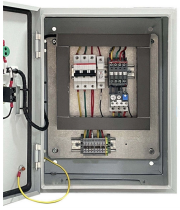
In this Letter, a novel all-polymer arrayed waveguide grating (AWG) device with an operating wavelength around 850 nm is reported. The all-polymer AWG consists of polymer ridge waveguides fabricated ...

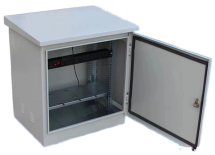
We investigated and fabricated 1 × 8 and 1 × 16 traditional/saddle arrayed waveguide grating (AWG) wavelength division multiplexing devices on flexible substrates.

Another highly effective method to reduce the insertion loss of an AWG, which is based on the same idea of tapering, has been patented by Lucent: A segmented transition region is inserted between ...



A promising photonic technology to achieve these requirements is Arrayed Waveguide Gratings (AWGs). We have developed our first generation of AWG devices using a silica-on-silicon substrate ...

These design of these devices are based on an array of and demultiplexers in a Wavelength Division Multiplexed (WDM) waveguides with both imaging and dispersive properties.

	discuss the performance of arrayed waveguide gratings (AWGs) fabri-cated with the platform. We propose the use of a pr ctical design method that takes the statistical nature of worst-case crosstalk ...
	A comprehensive design of a folded-architecture arrayed-waveguide-grating (AWG)-device, targeted at applications as integrated photonic ...
	To satisfy the stringent requirements of large-capacity optical communication systems, the high-performance silicon arrayed waveguide gratings (AWG) with 32 wavelength channels and 100 ...
	We investigated and fabricated 1 × 8 and 1 × 16 traditional/saddle arrayed waveguide grating (AWG) wavelength division multiplexing devices on flexible substrates.
	In this review, an overview of the available methods for improving the bandwidth, spectral resolution, and transmission function shape of AWGs is provided. The working principle as well as the advantages ...
	Flexible full-polymer AWGs with low insertion losses were successfully fabricated. The characterization and fabrication of AWGs with different polymer were compared. The polymer AWG ...

	A comprehensive design of a folded-architecture arrayed-waveguide-grating (AWG)-device, targeted at applications as integrated photonic spectrographs (IPS) in near-infrared ...

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