

Intelligent Customization Process for Broadcast Transmission Array Waveguide Gratings

It consists of I/O waveguides, the number of which usually equals the number of transmitting channels; an array of waveguides (also called phased array, PA); and two star couplers [also called a free ...

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.

To achieve miniaturization and integration of FBG interrogator, we designed and fabricated a 36-channel array waveguide grating (AWG) on silica-based planar lightwave circuits (PLC) as a key device in a ...

Integrating on-chip wavelength (de)multiplexers (e.g., arrayed waveguide gratings) with waveguide modulator arrays offers a path toward chip-scale spectral shaping (12), but these ...

The proposed work reviews the evolution of Arrayed Waveguide Gratings (AWG) from concentric phased arrays to present day design. The article covers different designs and materials, ...

There are several examples of custom AWG designs in the literature aiming for improved system performance. In this review, we will provide an overview of the available methods for improving the ...

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 ...

To minimize the chip fl footprint and reduce the bending loss, a strip waveguide is used to guide the optical signal between the grating coupler and the gratings.

We developed a chemical modification method in order to improve the film-forming properties of the core layer materials on the PDMS cladding layers. The dimensions of the fabricated ...

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