Comparison of New Model and Performance of Arrayed Waveguide Grating

This leads to the first implementation of arrayed waveguide gratings on X-cut thin-film lithium niobate with various configurations and high-performances.

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...

Abstract: Arrayed Waveguide Gratings (AWGs) are essential components in modern Dense Wavelength Division Multiplexing (DWDM) systems, enabling high-density wavelength routing with precise ...

We compare the performance of silicon-based arrayed waveguide gratings (AWGs) with star couplers of Rowland and Confocal configurations, respectively, for both TE and TM polarizations.

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 ...

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

We present a 0.4-nm channel spacing silicon arrayed-waveguide grating with Euler-bend-assisted broadened arrayed waveguides and shallowly-etched transition regi

Array waveguide gratings (AWGs) have been widely used in multi-purpose and multi-functional integrated photonic devices for Microwave photonics (MWP) systems. In this paper, we compare the ...

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