Comparison of Anti-Signal Performance and Wireless Performance of Arrayed Waveguide Gratings

Overview

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 effect of output waveguide configurations on the performance of AWGs. They play a key role in wavelength division multiplexing (WDM) systems by enabling efficient routing of multiple data channels over a single optical fiber and as a. A low-crosstalk compact arrayed waveguide grating integrated with a tunable micro-ring resonator is demonstrated on silicon-on-insulator platform, The side-lobe of the silicon nanowire AWG, introduced by fabrication errors, can be effectively suppressed by the Ring Filter, The crosstalk level of. Arrayed Waveguide Gratings (AWGs) function as planar devices with both imaging and dispersive properties, suitable for multiplexing and demultiplexing optical signals. Liu With comparison, experimental results show that the AWG with Rowland configuration in combination with constant period along the tangent line to its

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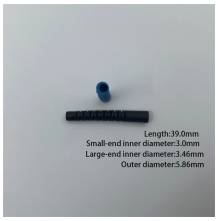
In this letter, a novel WDM structure by integrating an AWG and a heat-turning MRR is demonstrated on silicon-on-insulator (SOI) wafer.



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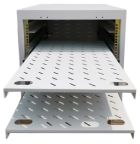
In this review, an overview of the available methods for improving the bandwidth, spectral resolution, and transmission function shape of AWGs is provided. The working principle as well as the...



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

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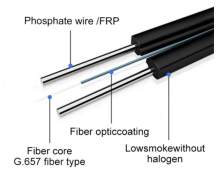
Abstract: A high-performance 32-channel silicon arrayed waveguide grating (AWG) with 100 GHz spacing is designed and fabricated using 180-nm lithography platform for massive production.

Arrayed Waveguide Gratings (AWGs) function as planar devices with both imaging and dispersive properties, suitable for multiplexing and demultiplexing optical signals.



In this paper, we combine the above-discussed approaches for adjacent crosstalk reduction into one silicon-based AWG.

	Arrayed Waveguide Gratings (AWGs) are widely used photonic components for splitting and combining different wavelengths of light.

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