

# Customization Process for Energy-Saving Industrial Ethernet Array Waveguide Gratings

Here, for the first time to the best of our knowledge, we demonstrate an 8 × 8 100 GHz spacing AWG router and a 6 × 6 200 GHz spacing AWG multi/demultiplexer on the 800-nm-thick Si 3 ...

In this paper, we firstly design and fabricate a low-crosstalk AWG with 32 channels and 100 GHz spacing by optimization and the SOI platform ensures a compact footprint for our AWGs ...

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.

Enablence has developed many different types of DWDM chip in its high-contrast process, combining a sophisticated arrayed waveguide grating (AWG) design with a quality fabrication.

We design and fabricate an eight-channel thin-film lithium niobate (TFLN) arrayed-waveguide grating (AWG) and demonstrate the electro-optical tunability of the device. The ...

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 ...

In this study, two SiN-based Arrayed Waveguide Gratings (AWGs) were designed and fabricated: one serving as a wavelength multiplexer (MUX) and the other as a demultiplexer ...

----- Abstract - An array waveguide grating multiplexer and demultiplexer in particular is one of most successful optical filters and it is a key component of photo.

We start with the eigenmode solver to calculate the modal properties of a single waveguide and a slab. This is followed by the varFDTD simulation to further characterize the properties of beam that gets ...



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