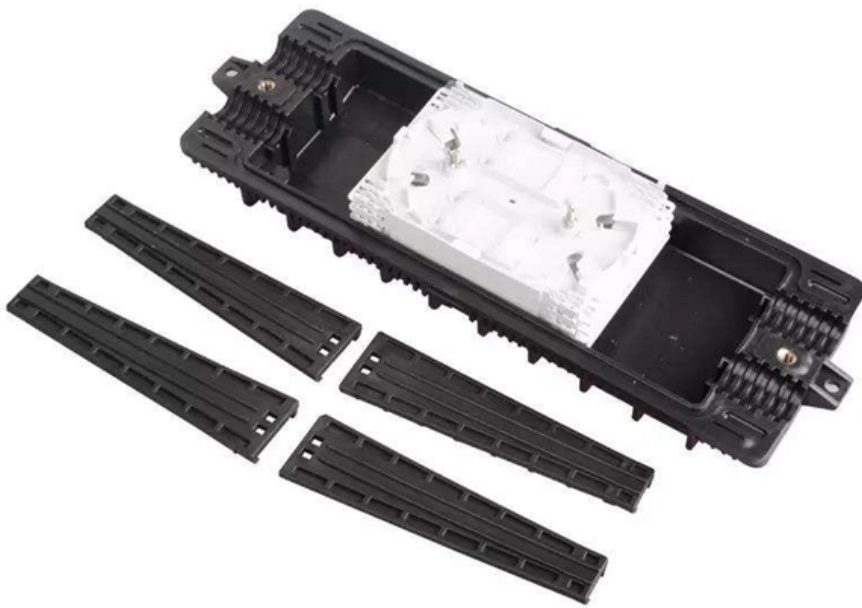


Low noise of arrayed waveguide gratings





Low noise of arrayed waveguide gratings



Arrayed Waveguide Grating

Introduction Arrayed Waveguide Gratings (AWG) are optical devices. Due to their ability to multiplex large numbers of wavelengths into a planar device that is usually used as a multiplexer or single optical

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(PDF) Cavity-enhanced scalable integrated temporal

Moreover, the single-microring is realized with a high-Q factor by introducing ultra-low-loss broadened optical waveguides designed with modified

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4 Arrayed Waveguide Gratings

ication- and cost dependent. A silica-based AWG with particularly low insertion loss of only 0.75dB has been achieved using a structure with vertically tapered waveguides in the intersection region

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Crosstalk reduction for Arrayed waveguide gratings on Silicon-on

Ultracompact silicon-based arrayed waveguide gratings (AWGs) with low loss and low crosstalk are essential for on-chip optical interconnect and miniaturized spectroscopic analysis systems.



Design and characterization of arrayed waveguide gratings using ultra

Abstract Planar waveguides with ultra-low propagation loss are necessary for integrating optoelectronic systems that require long optical time delay or narrowband optical filters. In this paper, we review an

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Custom Arrayed Waveguide Gratings with Improved Performance

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

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Tunable up-conversion single-photon detector at telecom wavelengths

Abstract: Up-conversion single-photon detectors (UCSPD) are based on sum-frequency generation of the telecom band single-photons to near-infrared wavelengths at which efficient and low-noise silicon

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Ultra-high-Q racetrack microring based on



silicon-nitride

Key wavelength filtering and routing components, including high-Q ring resonators, Mach-Zehnder interferometers, and arrayed waveguide gratings, are analyzed.

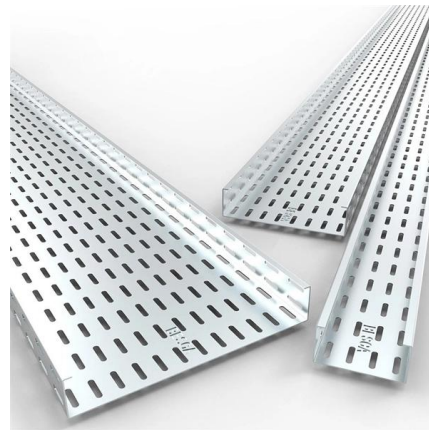
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Redundancy-free integrated optical convolver for optical neural

Here, we present a redundancy-free on-chip optical convolution scheme based on arrayed waveguide grating (AWG). It entails encoding input information into intensities at various wavelengths and

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(PDF) Design and characterization of arrayed

Planar waveguides with ultra-low propagation loss are necessary for integrating optoelectronic systems that require long optical time delay or narrowband optical

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Modeling and design of arrayed waveguide gratings

An, Z.; Zhang, S.; Zhang, C.; Zhang, Z.; Mao, Q.; Prades García, J.D. 2022: Design and fabrication of SU-8 polymer arrayed waveguide gratings based on flexible PDMS substrates *Applied Optics* 61 (9):

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Monolithically integrated optical devices with amorphous silicon

The optical waveguide assembly includes a waveguide, an amorphous silicon arrayed waveguide grating communicative with the waveguide, and an integrated amorphous silicon waveguide grating

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Design and characterization of arrayed waveguide gratings

Abstract Planar waveguides with ultra-low propagation loss are necessary for integrating optoelectronic systems that require long optical time delay or narrowband optical filters. In this paper, we review an

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Low-loss Silicon Arrayed Waveguide Grating Using Dual-etched

We design and experimentally demonstrate a low-loss 4-channel SOI horseshoe-shaped AWG, with a channel spacing of 400 GHz, based on dual-etched waveguide apertures. The minimum insertion

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Compact Silicon-Arrayed Waveguide Gratings with Low Nonuniformity

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

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Compact Silicon-Arrayed Waveguide Gratings with Low

Array waveguide gratings (AWGs) have been widely used in multi-purpose and multi-functional integrated photonic devices for Microwave photonics

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Filling the frequency gaps of a planar optical spectrum analyzer using

A vernier configuration in a 2.5-GHz-spaced 128-channel arrayed-waveguide grating (AWG) for use as a secondary demultiplexer in a planar optical spectrum analyzer was incorporated with a tandem

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Design and characterization of arrayed waveguide gratings

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Compact Silicon-Arrayed Waveguide Gratings with Low

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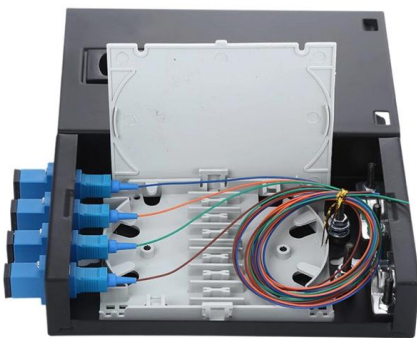
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Anisotropy-free arrayed waveguide gratings on X-cut

The best insertion loss of 2.4 dB and crosstalk of -24.1 dB is obtained for the fabricated arrayed waveguide grating devices.

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Silicon Nitride Photonics for High-Density WDM Applications

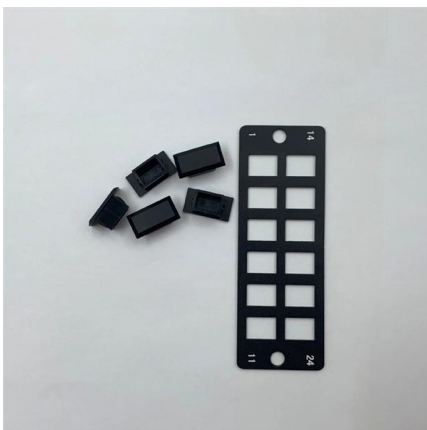
Advanced silicon nitride platforms target propagation losses below 0.1 dB/cm and quality factors exceeding one million for resonant structures. These specifications enable the implementation of

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Design and characterization of arrayed waveguide

Silicon nitride (Si₃N₄) arrayed waveguide gratings (AWGs) have been widely used for dense wavelength division multiplexing systems because of their

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Real time 10Gb-ethernet transmission over 2D indoor passive beam

Summary We demonstrate the real-time 10Gb Ethernet data delivery to multiple users simultaneously over an indoor optical wireless system based on 2D passive optical beam-steering using high-port

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Design of an Arrayed Waveguide Grating with flat

Although chirping only the arm lengths of the waveguide grating router allows each input-output port combination to have a dominant passband in one

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Design and characterization of arrayed waveguide gratings

In particular, we discuss the performance of arrayed waveguide gratings (AWGs) fabricated with the platform. We propose the use of a practical design method that takes the

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<https://www.frindel.es>