Adam Tas Corridor Energy

Customization Process for Energy-Saving Industrial Ethernet Array Waveguide Gratings

Customization Process for Energy-Saving Industrial Ethernet Array

Custom Arrayed Waveguide Gratings with Improved Performance

Arrayed waveguide gratings (AWGs) are key optical components of various new applications in telecommunication, astronomy, medical imaging, and spec-troscopy. It is a very powerful integrated

A fully reconfigurable waveguide Bragg grating for programmable

For a programmable microwave signal processor, it is highly expected that a fully recon gurable grating could be used to perform fi multiple functions.

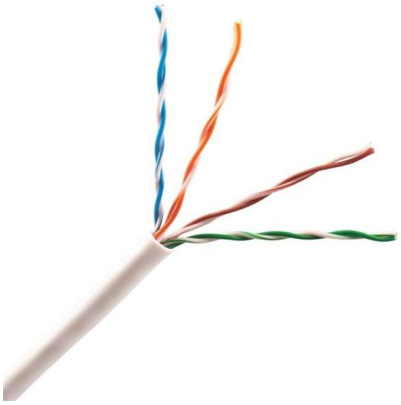
Design, fabrication and characterization of arrayed waveguide grating

The structures of the AWGs we designed are composed of five main parts, including the input/output waveguides, two slab waveguides, and an array of waveguides, as shown in Fig. 1 (b).

Design and fabrication of polygonal grating waveguide display with full

By using the 2D polygonal grating we also proposed a design approach of full-color SRG

waveguide with hierarchical optimization method. To validate this design, a 2D polygonal grating



An electro-optically tunable arrayed waveguide grating

1-cm-long electrodes array were designed along the straight section of the arrayed waveguides. As shown in inset of Fig.1(a), the electrodes are divided into signal electrod s and ground electrodes, the

Optimization of Single-Mode Sapphire Waveguide Bragg Gratings

We demonstrate the fabrication and optimization of waveguide Bragg gratings on single-crystal sapphire substrates using femtosecond laser direct writing. The gratings are fabricated using modulated bursts

Design and fabrication of SU8 arrayed-waveguide

Abstract and Figures An SU-8-based arrayed-waveguide gratings (AWG) device with multimode interference couplers (MMI) is designed and

Arrayed waveguide gratings for wavelength routing

Arrayed waveguide gratings (AWGs) can perform wavelength routing for a large number of optical channels and provide a high level of functionality on an integrated chip. The AWG guides light on a

Review paper for developments in Array Waveguide Gratings

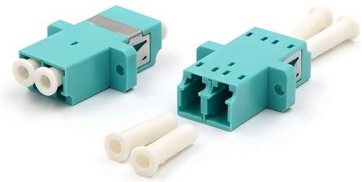
The proposed work reviews the evolution of Arrayed Waveguide Gratings (AWG) from concentric phased arrays to present day design. The article covers different designs and materials,

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

Advances in Waveguide Bragg Grating Structures,

A Bragg grating (BG) is a one-dimensional optical device that may reflect a specific wavelength of light while transmitting all others. It is created by



Design and fabrication optimization of low-crosstalk silicon arrayed

To satisfy the stringent requirements of large-capacity optical communication systems, the high-performance silicon arrayed waveguide gratings (AWG) with 32 wavelength channels and 100

High-efficiency mid-infrared InGaAs/InP arrayed waveguide gratings

In this paper, we demonstrate low loss passive waveguides and highly eficient arrayed waveguide gratings that can be used, for example, to beam combine infrared (IR) laser arrays. The waveguide

Ultra-small size arbitrary-port-input reflective arrayed waveguide

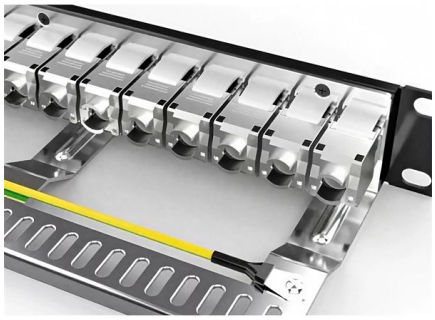
To address the challenge of a large footprint associated with conventional arrayed waveguide gratings (AWG), this study presents an ultra-compact 5-channel reflective AWG based on

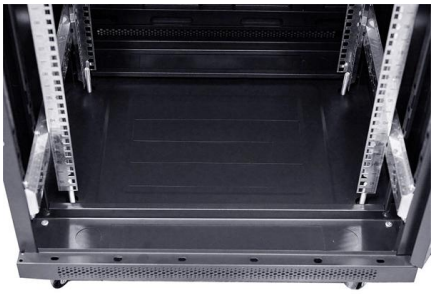
Heatless arrayed waveguide gratings

The array waveguide is similar to a concave grating, and the light is reflected and diffracted by the array waveguide, with different diffraction angles for different

Chirped Integrated Bragg Grating Design

Figure 1. (a) Diagram of two Integrated Bragg Gratings (IBGs) with rectangular and sinusoidal corrugations and D W = 20 nm. The yellow arrow





(PDF) Design and characterization of an arrayed

Abstract and Figures The loss uniformity of an arrayed-waveguide grating router was improved by employing an interleave-chirped arrayed

Design and fabrication optimization of low-crosstalk silicon arrayed

Abstract To satisfy the stringent requirements of large-capacity optical communication systems, the high-performance silicon arrayed waveguide gratings (AWG) with 32 wavelength

SOI-based 15-channel arrayed waveguide grating design for fiber

Abstract Arrayed waveguide grating (AWG) is the core component of the photonic integrated interrogation system. Its spectral characteristics will affect the wavelength interrogation

Si wire array waveguide grating with stray light reduction scheme

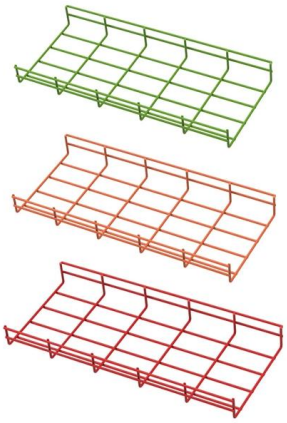
Si wire arrayed-waveguide grating is reported using local rib waveguide generating multimode interference at the array and slab waveguide interface. An 8ch device with 100 GHz

Wavelength Tunable, Polymer-Based Arrayed Waveguide Gratings

In this work, polymer-based (DE-)MUX stages with wavelength tunable AWGs are designed and characterized. The hybrid integration concept with indium phosphide (InP) based components and

An electro-optically tunable arrayed waveguide grating

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



DP83822 Energy Efficient Ethernet IEEE 802

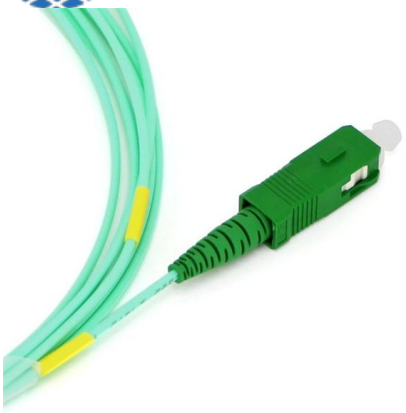
The DP83822 10/100Mbps Industrial Ethernet PHY offers a wide range of power saving modes that can be applied individually or in combination with each other depending on the desired operation.

(PDF) Hybrid Graphene-Silicon Arrayed Waveguide

We compare the performance of silicon-based arrayed waveguide gratings (AWGs) with star couplers of Rowland and Confocal configurations,

Arrayed Waveguide Grating

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.



Wavelength Tunable, Polymer-Based Arrayed Waveguide Gratings

Our study demonstrates a hybrid photonic integrated circuit with tunable polymer-based arrayed waveguide gratings (AWGs) as (DE-)MUX stages, designed to be combined with arrays of

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