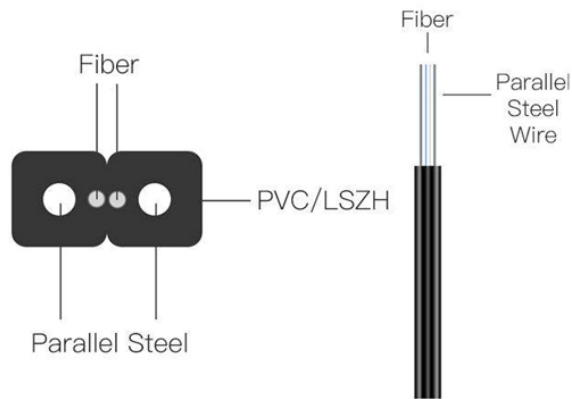


## New Customized Array Waveguide Grating for Campus Network Use



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



We present a hybrid integrated photonic circuit with tunable arrayed waveguide gratings (AWGs) as (DE-)MUX stages for optical modulators for use in parallel convolution processing. The ...



$1 \times 8$  and  $1 \times 16$  traditional/saddle arrayed waveguide grating (AWG) devices with different core layer materials applied in fiber Bragg grating (FBG) system were designed, fabricated and ...



In this work, we demonstrated a low-loss AWG with 100 output channels and a channel spacing of 50 pm based on a z-cut thin-film lithium niobate platform. The length increment of adjacent arrayed ...



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



nt K. Smit 4.1 Introduction Arrayed Waveguide Grating (AWG) multiplexers/demultiplexers are planar devices which are based on an array of waveguides with both imagi.



Abstract: Arrayed waveguide gratings (AWGs) are key optical components of various new applications in telecommunication, astrology, medical imaging, and spectroscopy.



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



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 ...



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.



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



Our model simulates the transmission matrices (T-matrix) of all parts of the AWG using the most suitable method. In our approach we divided the AWG in three parts: two star-couplers (FPR) and the ...



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 ...



This paper reviews receivers that feature low-loss multimode-output arrayed waveguide gratings (MM-AWGs) for wavelength division multiplexing (WDM) as well as hybrid integration ...

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