

# Malta AWG wavelength division multiplexer with low noise



## Overview

Here, we develop a novel design approach that co-optimizes inverse-designed wavelength division multiplexers and distributed Bragg gratings to achieve ultra-low crosstalk without compromising insertion loss. This technique enables bidirectional communications over a. We produce fiber-coupled Wavelength-Division Multiplexing (WDM) devices that combine (Mux) or separate (DeMux) multiple wavelength channels into or from a single optical fiber. The products feature both Gaussian and flat-top types that offer narrow channel spacing (100GHz or 50GHz) and high adjacent. © Copyright 2026 AFL.

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Arrayed Waveguide Grating, AWG, is one of two technologies used to mux and demux wavelengths. Here Corning's Benoit Fleury discusses the technology behind the device.



AWG is a WDM technology used in DWDM systems to separate or combine many wavelength channels within a single fiber. Unlike TFF, which are simpler and suited for fewer ...



Wavelength Division Multiplexers (WDM) by AFL include CWDM LGX, Thin film filter CWDM, single channel OADM, DWDM LGX, Optical FTTx channel and RFoG wavelength division modules.



The next generation high-efficiency and high-power optical network requires high performance wavelength division multiplexer, which can withstand high power in



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Two types are available: integrated arrayed waveguide gratings (AWG), offering low cost, compact size, and precise ITU grid alignment; and discrete filter-based WDMs, providing greater flexibility to ...



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Coarse wavelength-division multiplexing (CWDM), in contrast to DWDM, uses increased channel spacing to allow less sophisticated and thus cheaper transceiver designs.



A E-band, 48 channels flat top silica based dense wavelength-division multiplexing (Dwdm) arrayed waveguide grating (AWG) was designed and fabricated with 0.75% relative ...



Please refer to Data sheet for detailed specifications. If you need a different model number, please feel free to ask a quotation.



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Arrayed waveguide gratings are mainly applied in optical fiber communication systems, in particular in those based on multi-channel transmission with wavelength division multiplexing (WDM), where ...



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## Contact Us

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